UJJAIN SMART CITY LIMITED, UJJAIN

REQUEST FOR PROPOSAL

for

Selection of Agency for Facility management, Operation & Comprehensive Maintenance of all Infrastructure and Services at Shri Mahakaleshwar Temple, Mahakal Lok and Precinct (2nd Call)

NIT No. USCL/420
TENDER ID: **2026_UAD_496399_1**
Date: 02 April 2026

Disclaimer

The information contained in this Request for Proposals document ("RFP") or subsequently provided to Applicants, whether verbally or in documentary or any other form by or on behalf of the Authority or any of its employees or advisers, is provided to Applicants on the terms and conditions set out in this RFP and such other terms and conditions subject to which such information is provided.

This RFP is not an agreement or an offer by the Authority to the prospective Applicants or any other person. The purpose of this RFP is to provide interested parties with information that may be useful to them in the formulation of their Proposals pursuant to this RFP. This RFP includes statements, which reflect various assumptions and assessments arrived at by the Authority in relation to the services. Such assumptions, assessments and statements do not purport to contain all the information that each Applicant may require. This RFP may not be appropriate for all persons, and it is not possible for the Authority, its employees or advisers to consider the objectives, technical expertise and particular needs of each party who reads or uses this RFP. The assumptions, assessments, statements and information contained in this RFP, may not be complete, accurate, adequate or correct. Each Applicant should, therefore, conduct its own investigations and analysis and should check the accuracy, adequacy, correctness, reliability and completeness of the assumptions, assessments and information contained in this RFP and obtain independent advice from appropriate sources.

Information provided in this RFP to the Applicants may be on a wide range of matters, some of which may depend upon interpretation of law. The information given is not intended to be an exhaustive account of statutory requirements and should not be regarded as a complete or authoritative statement of law. The Authority accepts no responsibility for the accuracy or otherwise for any interpretation or opinion on the law expressed herein.

The Authority, its employees and advisers make no representation or warranty and shall have no liability to any person including any Applicant under any law, statute, rules or regulations or tort, principles of restitution or unjust enrichment or otherwise for any loss, damages, cost or expense which may arise from or be incurred or suffered on account of anything contained in this RFP or otherwise, including the accuracy, adequacy, correctness, reliability or completeness of the RFP and any assessment, assumption, statement or information contained therein or deemed to form part of this RFP or arising in anyway in this Selection Process.

The Authority also accepts no liability of any nature whether resulting from negligence or otherwise, howsoever caused, arising from reliance of any Applicant upon the statements contained in this RFP.

The Authority may in its absolute discretion, but without being under any obligation to do so, update, amend or supplement the information, assessment or assumption contained in this RFP.

The issue of this RFP does not imply that the Authority is bound to select an Applicant or to appoint the Selected Applicant, as the case may be, for the Services and the Authority reserves the right to reject all or any of the Proposals without assigning any reasons whatsoever.

The Applicant shall bear all its costs associated with or relating to the preparation and submission of its Proposal including but not limited to preparation, copying, postage, delivery fees, expenses associated with any demonstrations or presentations which may be required by the Authority, or any other costs incurred in connection with or relating to its Proposal. All such costs and expenses will remain with the Applicant and the Authority shall not be liable in any manner whatsoever for the same or for any other costs or other expenses incurred by an Applicant in preparation or submission of the Proposal, regardless of the conduct or outcome of the Selection Process.

NOTICE INVITING TENDER

NIT No: USCL/420 Date: 02 April 2026

Ujjain Smart City Limited invites proposal from reputed organization for Selection of Agency for *"Facility management, Operation & Comprehensive Maintenance of all Infrastructure and Services at Shri Mahakaleshwar Temple, Mahakal Lok and Precinct (2nd Call)"*. Interested firms may submit their proposals on e-procurement portal *i.e.* www.mptenders.gov.in as per below mentioned details:

1	Name of Work	Facility management, Operation & Comprehensive Maintenance of all Infrastructure and Services at Shri Mahakaleshwar Temple, Mahakal Lok and Precinct – 2nd Call
2	Tender document Fee	₹ 50,000 (Rupees Fifty Thousand Only) non-refundable (through Online e-Tendering Payment Gateway only)
3	Earnest Money Deposit / Bid Security	Rs. 20,00,000.00 (Rupees Twenty Lakhs only) (through online only)
4	Last date to send in requests for clarifications on the Tender	Pre-Bid Queries shall be sent to ujjainsmartcity@mpurban.gov.in as per format attached in this RFP before the pre-bid meeting date.
5	Time, Date and Venue for Pre-Bid Conference	03:00 PM, 08 April 2026 Ujjain Smart City Limited Simhastha Mela Office, Kothi Road, Ujjain (M.P.)
6	Last date for Purchase of Tender	22 April 2026 upto 17:00
7	Bid (Technical and Financial) Submission End Date (Online)	22 April 2026 upto 17:00
8	Technical Bid Submission End Date (Physical)	Not applicable.
9	Technical bids opening time, date and Venue	23 April 2026 after 17:00 PM Ujjain Smart City Limited Simhastha Mela, Office, Kothi Road, Ujjain (M.P.)
10	Opening of Financial bid	To be notified

Executive Director
Ujjain Smart City Limited

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GLOSSARY

Agency	As defined in Clause 1.2
Agreement	As defined in Schedule-2
Applicable Laws	As defined in Schedule-2
Applicant / Bidder	As defined in Clause 2.11
Associate	As defined in Clause 2.33
Authorised Representative	As defined in Clause 2.132
Authority	As defined in Clause
Bid Security	As defined in Clause 2.20
Conditions of Eligibility	As defined in Clause 2.21
Conflict of Interest	As defined in Clause 2.31
CV	Curriculum Vitae
Documents	As defined in Clause 2.9
Effective Date	As defined in Clause 9.1 of Schedule-2
Financial Proposal	As defined in Clause 2.15
Form of Agreement	Form of Agreement as in Schedule-2
Indemnified Party	As defined in Clause 7.83
Indemnified Persons	As defined in Clause 7.81
Indemnifying Party	As defined in Clause 7.83
INR, Re, Rs.	Indian Rupee(s)
LOA	Letter of Award/Acceptance
Minor civil works and Refurbishment	As defined in Clause 0
Official Website	As defined in Clause 0
Personnel	As defined in Clause 8.11 (j) of Schedule-2
Prohibited Practices	As defined in Section 4 of RFP
Project	As defined in Clause 1.14
Proposal	As defined in Clause 1.2
Proposal Due Date or PDD	As defined in Clauses 1.5
RFP	As defined in Disclaimer
Selected Applicant	As defined in Clause 1.6
Selection Process	As defined in Clause 1.6
Services	As defined in Clause 8.11 (l) of Schedule-2
Statutory Auditor	An Auditor appointed under Applicable Laws
Technical Proposal	As defined in Clause 2.14
TOR	As defined in Clause Error! Reference source not found.

The words and expressions beginning with capital letters and defined in this document shall, unless repugnant to the context, have the meaning ascribed thereto herein.

1. INTRODUCTION

1.1 Background

1. The Ujjain Smart City Limited (USCL), a special purpose vehicle (SPV) created under 'Smart City Mission', one of the flagship schemes of Govt. of India, for urban governance improvement and infrastructure development in the city of Ujjain, Madhya Pradesh.

2. Shri Mahakaleshwar Temple in Ujjain is one of the twelve Jyotirlingas and among the most sacred pilgrimage sites of India. The temple attracts millions of devotees annually, with footfall surging to several crores during peak festivals and Simhastha. Recognizing the need to enhance visitor facilities and preserve cultural heritage, Ujjain Smart City Limited (USCL), on behalf of Shri Mahakaleshwar Temple Management Committee (SMTMC), conceptualized and implemented the Mahakal Lok Project in two phases.

3. The project has transformed the precinct through development of grand entrance corridors, Rudrasagar rejuvenation, extensive stone artwork and sculptures, public amenities, horticulture, and smart infrastructure. These works were executed under multiple contracts, most of which are nearing the expiry of their Defects Liability Period (DLP). With the assets now stabilized, there is an urgent need for a comprehensive Facility Management and Maintenance arrangement to ensure sustained upkeep, visitor satisfaction, and operational readiness, particularly during high-footfall events and large-scale events like upcoming Simhastha 2028.

   Ujjain Smart City Limited is jointly working with other Stakeholders like District Administration, Shri Mahakaleshwar Temple Management Committee (SMTMC) and Ujjain Municipal Corporation (UMC) to address the facility management and comprehensive maintenance and related issues and have collectively decided to put in place a mechanism that will ensure better upkeep of facilities experience to the pilgrims and visitors and engage a professional Facility Management Agency to manage and maintain the temple complex and Mahakal Lok in a holistic manner.

Objective of the Assignment

4. In pursuance of the above, the Authority has decided to carry out the process for selection of agency for *Facility management, Operation & Comprehensive Maintenance of all Infrastructure and Services at Shri Mahakaleshwar Temple, Mahakal Lok and Precinct* for the contract period (the Project). The Agency shall perform the activities in accordance with the Terms of Reference specified in Schedule-1 (the "TOR").

1.2 Request for Proposal

The Authority (USCL) invites proposals from reputed Facility Management (FM) agencies for the comprehensive Operation, Maintenance, and Facility Management (O&M) of Mahakaleshwar Temple, Mahakal Lok, Rudrasagar Lake, and associated infrastructure.

The scope includes facility management, preventive and corrective maintenance, minor civil works and refurbishment, procurement of goods/consumables, and provision of special services during festivals and major events

1.3 Due diligence by Applicants

Applicants are encouraged to inform themselves fully about the assignment and the local conditions before submitting the Proposal by paying a visit to the Authority and the Project site, sending written queries to the Authority, and attending a Pre-Proposal Conference on the date and time specified in Clause 1.9

1.4 Sale of RFP Document

RFP document can be downloaded from the website of https://mptenders.gov.in/. However, the bids of only those Applicants shall be considered for evaluation that have made online payment of required fee for the RFP document plus service & gateway charges, without the copy of acknowledgement of payment bids will not be accepted. The Fee, as prescribed in "Notice Inviting Tender" (NIT), is to be paid by the bidder by making online payment only against this RFP.

1.5 Validity of the Proposal

The Proposal shall be valid for a period of not less than 120 days from the Proposal Due Date (the "PDD").

1.6 Brief description of the Selection Process

The Authority has adopted a one-stage-two-envelope selection process (collectively the "Selection Process") for evaluating the Proposals comprising of technical bids and financial bids to be submitted by the Applicant. For avoidance of doubt, both the Technical Proposal and the Financial Proposal shall be submitted only in soft copy online through e-procurement portal. In the first stage, a technical evaluation will be carried out as specified in Clause 3.1. Based on this technical evaluation, a list of short-listed applicants shall be prepared as specified in Clause 3.2. The applicants who qualify the basic eligibility and the technical evaluation criteria shall only be considered for opening of financial bid. In the second stage, a financial evaluation will be carried out as specified in Clause 3.3. Final selection will be based on Quality & Cost Based Selection (QCBS) method with the following weightage:

- Technical (70% weightage): Experience, team, approach, facilities managed.
- Financial (30% weightage): Financial proposal.

Proposals will be ranked according to the combined weighted scores and the highest (H1)/first ranked Applicant (the "Selected Applicant") shall be called for negotiation, if necessary, while the second ranked Applicant will be kept in reserve.

1.7 Schedule of Selection Process: As per brief NIT.

The Authority would endeavour to adhere to the stated schedule as per brief NIT.

1.8 Pre-Proposal visit to the Site and inspection of data

Prospective Applicant Agency must visit the site and review the available data at any time prior to PDD. For this purpose, they will provide at least two days' notice to the nodal officer specified in Clause 0

1.9 Pre-Proposal Conference

The date, time and venue of Pre-Proposal Conference shall be:

Date and Time: As mentioned in Clause 1.7

Venue: As mentioned in Clause 0

All communications including the submission of Proposal should be addressed to:

Chief Executive Officer,
Ujjain Smart City Limited
Mela Office, Kothi Road, Ujjain,
Pin 456010, Madhya Pradesh, India

Phone: 0734-2525856
Email: ujjainsmartcity@mpurban.gov.in

The Official Website of the Authority is:

https://mptenders.gov.in ; http://ujjainsmartcity.com/

All communications, including the envelopes, should contain the following information, to be marked at the top in bold letters:

RFP NOTICE NO. (*as per brief NIT*) for Selection of Agency for *Facility management, Operation & Comprehensive Maintenance of all Infrastructure and Services at Shri Mahakaleshwar Temple, Mahakal Lok and Precinct (2nd Call).*

2. INSTRUCTIONS TO APPLICANTS

A. GENERAL

2.1 Scope of Proposal

1. Detailed description of the objectives, scope of services and other requirements relating to this Assignment are specified in this RFP. In case an applicant firm possesses the requisite experience and capabilities required for providing the services, it may participate in the Selection Process individually or as consortium / joint venture / association in response to this invitation. The term applicant (the "Applicant") means the Sole Firm or consortium / joint venture / association represented by the Lead Firm. The way the Proposal is required to be submitted, evaluated and accepted is explained in this RFP.

2. Applicants are advised that the selection of Agency shall be on the basis of an evaluation by the Authority through the Selection Process specified in this RFP. Applicants shall be deemed to have understood and agreed that no explanation or justification for any aspect of the Selection Process will be given and that the Authority's decisions are without any right of appeal whatsoever.

3. The Applicant shall submit its Proposal in the form and manner specified in the Schedule-4 of this RFP. The Technical proposal shall be submitted in the form at Appendix-I and the Financial Proposal shall be submitted in the form at Appendix-II. Upon selection, the Applicant shall be required to enter into an agreement with the Authority in the form specified at Schedule-4.

2.2 Conditions of Eligibility of Applicants

1. Applicants must read carefully the minimum conditions of eligibility (the "Conditions of Eligibility") provided herein. Proposals of only those Applicants who satisfy the Conditions of Eligibility will be considered for technical evaluation.

2. To be eligible for evaluation of its Proposal, the Applicant shall fulfil the following:

3. The Bid Document can be purchased only online as per brief NIT Other key dates may be seen in bid data sheet.

4. Amendments to NIT, if any, would be published on website only, and not in newspaper

5. The Applicant shall enclose with its Proposal, certificate(s) from its Statutory Auditors stating its total turnover during each of the 3 (three) financial years ending on 31st March 2025. In the event that the Applicant does not have a statutory auditor, it shall provide the requisite certificate(s) from the firm of Chartered Accountants that ordinarily audits the annual accounts of the Applicant.

6. The Applicant should submit a Power of Attorney of authorized representative as per the format at Form-4 of Appendix-I.

7. Any entity which has been barred by the Central Government, any State Government, a statutory authority or a public sector undertaking, as the case may be, from participating in any project, and the bar subsists as on the date of Proposal, would not be eligible to submit a Proposal either by itself or through its Associate.

8. An Applicant should have, during the last 3 (three) financial years ending on 31 march 2025, neither failed to perform on any agreement, as evidenced by imposition of a penalty by an arbitral or judicial authority or a judicial pronouncement or arbitration award against the Applicant, nor been expelled from any project or agreement nor have had any agreement terminated for breach by such Applicant or blacklisted.

9. While submitting a Proposal, the Applicant should attach clearly marked and referenced continuation sheets in the event that the space provided in the specified forms in the Appendices is insufficient. Alternatively, Applicants may format, without changing the content of the forms, making due provision for incorporation of the requested information.

2.3 Conflict of Interest

1. An Applicant shall not have a conflict of interest that may affect the Selection Process (the "Conflict of Interest"). Any Applicant found to have a Conflict of Interest shall be disqualified. In the event of disqualification, the Authority shall forfeit and appropriate the Bid Security as mutually agreed genuine pre-estimated compensation and damages payable to the Authority for, *inter alia*, the time, cost and effort of the Authority including consideration of such Applicant's Proposal, without prejudice to any other right or remedy that may be available to the Authority hereunder or otherwise.

2. The Authority requires that the Agency provides professional, objective, and impartial service and at all times hold the Authority's interest paramount, avoid conflict with other assignments or its own interest, and act without any consideration for future work. The Agency shall not accept or engage in any assignment that would be in conflict with its prior or current obligations to other clients, or that may place it in a position of not being able to carry out the assignment in the best interests of the Authority.

3. Some guiding principles for identifying and addressing Conflicts of Interest have been illustrated in the Guidance Note at Schedule-3. Without limiting the generality of the above, an Applicant shall be deemed to have a Conflict of Interest affecting the Selection Process, if:

   a) the Applicant or its Associate (or any constituent thereof) (the "Member") and any other Applicant or its Associate (or any constituent thereof) have common controlling shareholders or other ownership interest; provided that this disqualification shall not apply in cases where the direct or indirect shareholding or ownership interest of an Applicant, its Member or Associate (or any shareholder

thereof having a shareholding of more than 5% (five per cent) of the paid up and subscribed share capital of such Applicant, Member or Associate, as the case may be) in the other Applicant, its Member or Associate is less than 5% (five per cent) of the subscribed and paid up equity share capital thereof; provided further that this disqualification shall not apply to any ownership by a bank, insurance company, pension fund or a public financial institution referred to in sub-section (72) of section 2 of the Companies Act, 2013. For the purposes of this Clause 3(a), indirect shareholding held through one or more intermediate persons shall be computed as follows: (aa) where any intermediary is controlled by a person through management control or otherwise, the entire shareholding held by such controlled intermediary in any other person (the "Subject Person") shall be taken into account for computing the shareholding of such controlling person in the Subject Person; and (bb) subject always to sub-clause (aa) above, where a person does not exercise control over an intermediary, which has shareholding in the Subject Person, the computation of indirect shareholding of such person in the Subject Person shall be undertaken on a proportionate basis; provided, however, that no such shareholding shall be reckoned under this sub-clause (bb) if the shareholding of such person in the intermediary is less than 26% (twenty six per cent) of the subscribed and paid up equity shareholding of such intermediary; or

b) a constituent of such Applicant is also a constituent of another Applicant; or

c) such Applicant or its Associate receives or has received any direct or indirect subsidy or grant from any other Applicant or its Associate; or

d) such Applicant has the same legal representative for purposes of this Application as any other Applicant; or

e) such Applicant has a relationship with another Applicant, directly or through common third parties, that puts them in a position to have access to each other's information about, or to influence the Application of either or each of the other Applicant; or

f) there is a conflict among this and other service assignments of the Applicant (including its personnel and Sub-agencies) and any subsidiaries or entities controlled by such Applicant or having common controlling shareholders. The duties of the Agency will depend on the circumstances of each case. While providing services to the Authority for this particular assignment, the Agency shall not take up any assignment that by its nature will result in conflict with the present assignment; or

g) a firm which has been engaged by the Authority to provide goods or works or services for a project, and its Associates, will be disqualified from providing services for the same project save and except as provided in Clause 4; conversely, a firm hired to provide consulting services for the preparation or implementation of a project, and its Members or Associates, will be disqualified from subsequently providing goods or works or services related to the same project; or

h) the Applicant, its Member or Associate (or any constituent thereof), and the bidder, if any, for the Project, its contractor(s) or sub-contractor(s) (or any constituent thereof) have common controlling shareholders or other ownership interest; provided that this disqualification shall not apply in cases where the direct or indirect shareholding or ownership interest of an Applicant, its Member or Associate (or any shareholder thereof having a shareholding of more than 5% (five per cent) of the paid up and subscribed share capital of such Applicant, Member or Associate, as the case may be,) in the bidder or Concessionaire, if any, or its contractor(s) or sub-contractor(s) is less than 5% (five per cent) of the paid up and subscribed share capital of such Concessionaire or its contractor(s) or sub-contractor(s); provided further that this disqualification shall not apply to ownership by a bank, insurance company, pension fund or a Public Financial Institution referred to in sub-section (72) of section 2 of the Companies Act, 2013. For the purposes of this sub-clause (h), indirect shareholding shall be computed in accordance with the provisions of sub-clause (a) above.

For purposes of this RFP, Associate means, in relation to the Applicant, a person who controls, is controlled by, or is under the common control with such Applicant (the "Associate"). As used in this definition, the expression "control" means, with respect to a person which is a company or corporation, the ownership, directly or indirectly, of more than 50% (fifty per cent) of the voting shares of such person, and with respect to a person which is not a company or corporation, the power to direct the management and policies of such person by operation of law or by contract.

4. An Applicant eventually appointed to provide Consultancy for this Project, and its Associates, shall be disqualified from subsequently providing goods or works or services related to the construction and operation of the same Project and any breach of this obligation shall be construed as Conflict of Interest; provided that the restriction herein shall not apply after a period of 5 (five) years from the completion of this assignment or to consulting assignments granted by banks/ lenders at any time; provided further that this restriction shall not apply to consultancy/ advisory services performed for the Authority in continuation of this Consultancy or to any subsequent consultancy/ advisory services performed for the Authority in accordance with the rules of the Authority. For the avoidance of doubt, an entity affiliated with the Agency shall include a partner in the Agency's firm or a person who holds more than 5% (five per cent) of the subscribed and paid-up share capital of the Agency, as the case may be, and any Associate thereof.

2.4 Number of Proposals

Each Bidder shall submit only one (1) Proposal, in response to this 'RFP'. Any Bidder, who submits more than one Proposal, will be disqualified.

2.5 Cost of Proposal

The Applicants shall be responsible for all of the costs associated with the preparation of their Proposals and their participation in the Selection Process including subsequent

negotiation, visits to the Authority, Project site etc. The Authority will not be responsible or in any way liable for such costs, regardless of the conduct or outcome of the Selection Process.

2.6 Site visit and verification of information

Applicants are strictly advised to submit their respective Proposals after visiting the Project site and ascertaining for themselves the site conditions, pedestrian and vehicular movement, location, surroundings, climate, access to the site, availability of drawings and other data with the Authority, Applicable Laws and regulations or any other matter considered relevant by them.

Bidders shall mandatorily visit the site and submit a Site Visit Certificate. Failure to do so shall render the bid non-responsive.

2.7 Acknowledgement by Applicant

1. It shall be deemed that by submitting the Proposal, the Applicant has:

   (a) made a complete and careful examination of the RFP;

   (b) received all relevant information requested from the Authority;

   (c) acknowledged and accepted the risk of inadequacy, error or mistake in the information provided in the RFP or furnished by or on behalf of the Authority or relating to any of the matters referred to in Clause 2.6 above;

   (d) satisfied itself about all matters, things and information, including matters referred to in Clause 2.6 herein above, necessary and required for submitting an informed Application and performance of all of its obligations there under;

   (e) acknowledged that it does not have a Conflict of Interest; and

   (f) agreed to be bound by the undertaking provided by it under and in terms hereof.

2. The Authority shall not be liable for any omission, mistake or error on the part of the Applicant in respect of any of the above or on account of any matter or thing arising out of or concerning or relating to RFP or the Selection Process, including any error or mistake therein or in any information or data given by the Authority.

2.8 Right to reject any or all Proposals

1. Notwithstanding anything contained in this RFP, the Authority reserves the right to accept or reject any Proposal and to annul the Selection Process and reject all Proposals, at any time (before entering into an agreement) without any liability or any obligation for such acceptance, rejection or annulment, and without assigning any reasons thereof.

2. Without prejudice to the generality of Clause 1, the Authority reserves the right to reject any Proposal if:

(a) at any time, a material misrepresentation is made or discovered, or

(b) the Applicant does not provide, within the time specified by the Authority, the supplemental information sought by the Authority for evaluation of the Proposal.

Misrepresentation/ improper response by the Applicant may lead to the disqualification of the Applicant.

B. DOCUMENTS

2.9 Contents of the RFP

This RFP comprises the Disclaimer set forth hereinabove, the contents as listed below and will additionally include any Addendum / Amendment issued in accordance with Clause 2.11:

Request for Proposal

1 Introduction

2 Instructions to Applicants

3 Criteria for Evaluation

4 Fraud and Corrupt Practices

5 Pre-Proposal Conference

6 Miscellaneous

Schedules

7 Schedule 1 – Terms of Reference

8- 17 Schedule 2 – Form of Agreement (Contract for Agency's Services)

Annex-1: Terms of Reference

Annex-2: Payment to the Authority

Annex-3: Payment Schedule

Annex-4: Bank Guarantee for Performance Security

18 Schedule 3 - Guidance Note on Conflict of Interest

19 Schedule 4 - Appendices

Appendix-I: Technical Proposal

Form 1: Letter of Proposal

Form 2: Particulars of the Applicant

Form 3: Statement of Legal Capacity

Form 4: Power of Attorney

Form 5: Financial Capacity of the Applicant

Form 6: Abstract of Eligible Assignments of the Applicant

Form 7: Eligible Assignments of Applicant

Appendix – II: Financial Proposal

Form 1: Covering Letter

Form 2: Financial Proposal

20 Schedule 5 – Site Plan/Project Details

2.10 Clarifications

1. Applicants requiring any clarification on the RFP may send their queries to the Authority in writing by speed post/ courier/ special messenger or by e-mail so as to reach before the date mentioned in the Schedule of Selection Process at Clause 1.7 The envelopes shall clearly bear the following identification:

   "Queries concerning RFP for "Selection of Agency for Facility management, Operation & Comprehensive Maintenance of all Infrastructure and Services at Shri Mahakaleshwar Temple, Mahakal Lok and Precinct" (2nd Call)

   The Authority shall endeavour to respond to the queries within the period specified therein but not later than 7 (seven) days prior to the Proposal Due Date. The Authority will post the reply to all such queries on the Official Website without identifying the source of queries.

2. The Authority reserves the right not to respond to any questions or provide any clarifications, in its sole discretion, and nothing in this Clause 2.10 shall be construed as obliging the Authority to respond to any question or to provide any clarification and under such conditions the provision under RFP shall prevail.

2.11 Amendment of RFP

1. At any time prior to the deadline for submission of Proposal, the Authority may, for any reason, whether at its own initiative or in response to clarifications requested by an Applicant, modify the RFP document by the issuance of Addendum/ Corrigendum / Amendment and posting it on the Official Website.

2. All such amendments/corrigendum/addendums will be posted on the Official Website and will be binding on all Applicants.

3. In order to afford the Applicants a reasonable time for taking an amendment into account, or for any other reason, the Authority may, in its sole discretion, extend the Proposal Due Date.

C. PREPARATION AND SUBMISSION OF PROPOSAL

2.12 Language

The Proposal with all accompanying documents (the "Documents") and all communications in relation to or concerning the Selection Process shall be in English language and strictly on the forms provided in this RFP. No supporting document or printed literature shall be submitted with the Proposal unless specifically asked for and in case any of these Documents is in another language, it must be accompanied by an accurate translation of the relevant passages in English, in which case, for all purposes of interpretation of the Proposal, the translation in English shall prevail.

2.13 Format and signing of Proposal

1. The Applicant shall provide all the information sought under this RFP. The Authority would evaluate only those Proposals that are received in the specified forms and complete in all respects. The technical proposals and the financial proposal will only be submitted online. No physical copy shall be submitted.

2. The Proposal shall be typed or written in indelible ink and signed by the authorised signatory of the Applicant who shall initial each page. In case of printed and published Documents also each pages shall be initialled. All the alterations, omissions, additions, or any other amendments made to the Proposal shall be initialled by the person(s) signing the Proposal. The Proposals must be properly signed by the authorised representative (the "Authorised Representative") as detailed below:

   a) by a partner, in case of a partnership firm and/or a limited liability partnership; or

   b) by a duly authorised person holding the Power of Attorney, in case of a Limited Company or a Corporation or a Society; or

   c) A copy of the Power of Attorney certified by a notary public in the form specified in Appendix-I (Form-4) shall accompany the Proposal.

3. Applicants should note the PDD, as specified in Clause 1.7, for submission of Proposals. Except as specifically provided in this RFP, no supplementary material will be entertained by the Authority, and that evaluation will be carried out only on the basis of Documents submitted online by the closing time of PDD as specified in Clause 2.17. Applicants will ordinarily not be asked to provide additional material information or documents subsequent to the date of submission, and unsolicited material if submitted will be summarily rejected.

2.14 Technical Proposal

1. Applicants shall submit the digitally signed technical proposal online at https://mptenders.gov.in in the formats at Appendix-I (the "Technical Proposal") on or before the date and time mentioned in Clause 1.7.

2. While submitting the Technical Proposal, the Applicant shall, in particular, ensure that:

   a) the Bid Security is submitted as per the provisions laid down at clause 2.20;

   b) all forms are submitted in the prescribed formats and signed by the prescribed signatories;

   c) power of attorney, if applicable, is executed as per Applicable Laws;

3. Failure to comply with the requirements spelt out in this Clause 2.14 shall make the Proposal liable to be rejected.

4. The Technical Proposal shall not include any financial information relating to the Financial Proposal.

5. The Authority reserves the right to verify all statements, information and documents, submitted by the Applicant in response to the RFP. Any such verification or the lack of such verification by the Authority shall not relieve the Applicant of its obligations or liabilities hereunder nor will it affect any rights of the Authority hereunder.

6. In case it is found during the evaluation or at any time before signing of the Agreement or after its execution and during the period of subsistence thereof, that one or more of the eligibility conditions have not been met by the Applicant or the Applicant has made material misrepresentation or has given any materially incorrect or false information, the Applicant shall be disqualified forthwith if not yet appointed as the Agency either by issue of the LOA or entering into of the Agreement, and if the Selected Applicant has already been issued the LOA or has entered into the Agreement, as the case may be, the same shall, notwithstanding anything to the contrary contained therein or in this RFP, be liable to be terminated, by a communication in writing by the Authority without the Authority being liable in any manner whatsoever to the Selected Applicant or Agency, as the case may be.

   In such an event, the Authority shall forfeit and appropriate the Performance Security, if available, as mutually agreed pre-estimated compensation and damages payable to the Authority for, inter alia, time, cost and effort of the Authority, without prejudice to any other right or remedy that may be available to the Authority.

2.15 Financial Proposal

1. The Financial Proposal shall be submitted online only and digitally signed in the formats at Appendix-II (the "Financial Proposal") clearly indicating the financial quotes offered by the applicant to the authority (Form-2 of Appendix II) in both figures and words and signed by the Applicant's Authorised Representative. In the event of any difference between figures and words, the higher of the Two shall prevail in favour of the Authority.

2. Detailed Financial Break-up: The Bidder shall submit a detailed cost break-up of the quoted lump sum price, including:

   - Manpower cost (category-wise)
   - Consumables and materials
   - Equipment and machinery
   - Administrative overheads
   - Profit margin

Failure to submit detailed break-up may lead to rejection of the bid.

2.16 Submission of Proposal

1. The Applicants shall submit the Technical Proposal online only as per date and time mentioned in Clause 1.7. and the Financial Proposal shall be submitted online only as mentioned in Clause 2.151. The applicants shall submit the Technical Proposal in PDF form with all pages numbered serially and by giving an index of submissions. Each page of the submission shall be initialled by the Authorised Representative of the Applicant as per the terms of this RFP. Only those submitted documents regarding Technical Proposals will be acceptable and considered, if, same are uploaded in the website along with the Financial Proposal.

2. Hard Copy Submission: No hard copy of any part of Technical or Financial Proposal shall be submitted.

   Online Submission: Digitally Signed scanned copy of "Technical Proposal" shall be uploaded in the prescribed format (Form 1 of Appendix-I) along with Forms 2 to 7 of Appendix-I and supporting documents along with Bid Security as mentioned in Clause 2.20. Similarly, the original 'Financial Proposal' shall be placed in a digitally signed/sealed envelope clearly marked 'Financial Proposal' and shall contain the financial proposal in the prescribed format (Forms 1 & 2) of Appendix-II).

3. The Technical Proposal and Financial Proposal shall be typed or written in indelible ink and signed by the Authorised Representative of the Applicant. All pages of the original Technical Proposal and Financial Proposal must be numbered and initialled by the person or persons or Authorised Signatory signing the Proposal.

4. The completed Proposal must be submitted online on or before the specified time on PDD. Proposals submitted by fax, telex, telegram or e-mail shall not be entertained. Technical Proposal shall be submitted in PDF format and shall be uploaded on the https://mptenders.gov.in duly digitally signed. The financial Proposal shall be submitted online only and shall be signed digitally.

5. The Proposal shall be made in the Forms specified in this RFP. Any attachment to such Forms must be provided on separate sheets of paper and only information that is directly relevant should be provided. This may include photocopies of the relevant

pages of printed documents. No separate documents like printed annual statements, firm profiles, etc. will be entertained.

2.17 Proposal Due Date

1. Proposal should be submitted on or before the Proposal Due Date specified in Clause 1.7 in the manner and form as detailed in this RFP.

2. The Authority may, in its sole discretion, extend the PDD by issuing an Addendum in accordance with Clause 2.11 uniformly for all Applicants.

2.18 Late Proposals

Proposals received by the Authority after the specified time on Proposal Due Date shall not be eligible for consideration and shall be summarily rejected.

2.19 Modification/ substitution/ withdrawal of Proposals

1. The Applicant may withdraw its Proposal after it has been submitted by sending a written Withdrawal Notice, duly signed by an authorised representative, and including a copy of the authorisation document. The Withdrawal Notice must be:

   a) submitted in accordance with Clause 2.16 and the respective envelopes shall be clearly marked 'WITHDRAWAL'; and

   b) received by the Authority prior to the deadline prescribed by the Authority for submission of Proposals.

2. Proposals that are withdrawn in accordance with Clause 1 shall be returned unopened to the Agency.

3. No Proposal shall be withdrawn in the interval between the deadline for submission of Proposals and the expiration of the period of Proposal validity specified in the Data Sheet or any extension thereof, except in the case of a request by the Authority to extend the Proposal validity.

2.20 Bid Security

1. The Applicant shall furnish as part of its Proposal, a bid security of value as mentioned in the NIT payable online only through respective e-procurement payment gateway, returnable not later than 120 (one hundred twenty) days from PDD. The Bid Security of requisite amount stated be made by making online payment (NEFT/RTGS) on the Authority's website. The copy of the proof of submission of bid security online to be submitted in technical proposal.

2. Any Bid not accompanied by the Bid Security shall be rejected by the Authority as non-responsive.

3. The Authority shall not be liable to pay any interest on the Bid Security and the same shall be interest free.

4. The Applicant, by submitting its Application pursuant to this RFP, shall be deemed to have acknowledged that without prejudice to the Authority's any other right or remedy hereunder or in law or otherwise, the Bid Security shall be forfeited and appropriated by the Authority as the mutually agreed pre-estimated compensation and damage payable to the Authority for, inter alia, the time, cost and effort of the Authority in regard to the RFP including the consideration and evaluation of the Proposal under the following conditions:

   a) If an Applicant engages in any of the Prohibited Practices specified in Section 4 of this RFP;

   b) If an Applicant withdraws its Proposal during the period of its validity as specified in this RFP and as extended by the Applicant from time to time;

   c) If the Selected Applicant fails to reconfirm its commitments during negotiations as required vide Clause 2.251;

   d) If the Selected Applicant fails to furnish the Performance Security within the prescribed period as specified in Clause 2.21;

   e) If the Selected Applicant fails to sign the Agreement or commence the assignment as specified in Clauses 2.27 and 2.28 respectively; or

   f) If the Applicant is found to have a Conflict of Interest as specified in Clause 2.3.

2.21 Performance Security

1. The Applicant, by submitting its Application pursuant to this RFP, shall be deemed to have acknowledged that without prejudice to the Authority's any other right or remedy hereunder or in law or otherwise, its Performance Security shall be forfeited and appropriated by the Authority as the mutually agreed pre-estimated compensation and damages payable to the Authority for, *inter alia*, the time, cost and effort of the Authority in regard to the RFP, including the consideration and evaluation of the Proposal, under the following conditions:

   a) If an Applicant engages in any of the Prohibited Practices specified in Section 4 of this RFP;

   b) If the Applicant is found to have a Conflict of Interest as specified in Clause 2.3; and

   c) If the Selected Applicant commits a breach of the Agreement.

2. Within 14 days from the receipt of Letter of Acceptance (LOA) and prior to signing of the Contract, the successful Bidder shall furnish the performance security 3% of Agreement value in accordance with the Terms & Conditions of Contract, in the form

of Bank Guarantee in prescribed form or FDR for validity till end of contract duration plus 3 months.

D. EVALUATION PROCESS

2.22 Evaluation of Proposals

1. The Authority shall open the Proposals as specified in Clause 1.7, at the place specified in Clause 0 and in the presence of the Applicants who choose to attend. The envelopes marked "Technical Proposal" shall be opened first.

2. Proposals for which a notice of withdrawal has been submitted in accordance with Clause 2.19 shall not be opened.

3. Prior to evaluation of Proposals, the Authority will determine whether each Proposal is responsive to the requirements of the RFP. A Proposal shall be considered responsive only if:

   a) the Technical Proposal is received in the form specified at Appendix-I;

   b) it is received by the PDD including any extension there of pursuant to Clause 2.17;

   c) it is accompanied by the Power of Attorney as specified in Clause 2.26;

   d) it contains all the information (complete in all respects) as requested in the RFP;

   e) it does not contain any condition or qualification; and

   f) it is not non-responsive in terms hereof.

4. The Authority reserves the right to reject any Proposal, which is non-responsive, and no request for alteration, modification, substitution or withdrawal shall be entertained by the Authority in respect of such Proposals.

5. The Authority shall subsequently examine and evaluate Proposals in accordance with the Selection Process specified at Clause 1.6 and the criteria set out in Section 3 of this RFP.

6. After the technical evaluation, the Authority shall prepare a list of qualified Applicants in terms of Clause 3.21 for opening of their Financial Proposals. The financial proposal will be opened online on the official website. Before opening of the Financial Proposals, the shortlist of technically responsive qualified Applicants will be informed on the official website. The Authority will not entertain any query or clarification from Applicants who fail to qualify at any stage of the Selection Process. The financial proposals and final evaluations of the bids shall be carried out in terms of Clauses 3.3 and 3.4.

7. Applicants are advised that Selection shall be entirely at the discretion of the Authority. Applicants shall be deemed to have understood and agreed that the Authority shall not be required to provide any explanation or justification in respect of any aspect of the Selection Process or Selection.

8. Any information contained in the Proposal shall not in any way be construed as binding on the Authority, its agents, successors or assigns, but shall be binding against the Applicant if the Work is subsequently awarded to it.

2.23 Confidentiality

Information relating to the examination, clarification, evaluation, and recommendation for the selection of Applicants shall not be disclosed to any person who is not officially concerned with the process or is not a retained professional adviser advising the Authority in relation to matters arising out of, or concerning the Selection Process. The Authority shall treat all information, submitted as part of the Proposal, in confidence and shall require all those who have access to such material to treat the same in confidence. The Authority may not divulge any such information unless it is directed to do so by any statutory entity that has the power under law to require its disclosure or is to enforce or assert any right or privilege of the statutory entity and/or the Authority or as may be required by law or in connection with any legal process.

2.24 Clarifications

1. To facilitate evaluation of Proposals, the Authority may, at its sole discretion, seek clarifications from any Applicant regarding its Proposal. Such clarification(s) shall be provided within the time specified by the Authority for this purpose. Any request for clarification(s) and all clarification(s) in response thereto shall be in writing.

2. If an Applicant does not provide clarifications sought under Clause 1 above within the specified time, its Proposal shall be liable to be rejected. In case the Proposal is not rejected, the Authority may proceed to evaluate the Proposal by construing the particulars requiring clarification to the best of its understanding, and the Applicant shall be barred from subsequently questioning such interpretation of the Authority.

E. APPOINTMENT OF AGENCY

2.25 Negotiations

1. The Selected Agency may, if necessary, be invited for negotiations. The negotiations shall generally not be for change in quoted prices stated in the Proposal, but will be for re-confirming the obligations of the Agency under this RFP. Issues such as finalization of resources, deployment of Personnel, understanding of the RFP, methodology etc shall be discussed during negotiations. The negotiations shall conclude with a review of amended draft contract and preparation of minutes of negotiation both of which shall be signed by the authority's and the applicant's authorised representative.

2.26 Award of Work

After selection, a Letter of Acceptance (the "LOA") shall be issued, in duplicate, by the Authority to the Selected Agency and the Selected Agency shall, within 7 (seven) days of the receipt of the LOA, sign and return the duplicate copy of the LOA in acknowledgement thereof. In the event the duplicate copy of the LOA duly signed by the Selected Agency is not received by the stipulated date, the Authority may, unless it consents to extension of time for submission thereof, appropriate the Bid Security of such Agency as mutually agreed genuine pre-estimated loss and damage suffered by the Authority on account of failure of the Selected Agency to acknowledge the LOA.

2.27 Execution of Agreement

After acknowledgement of the LOA as aforesaid by the Selected Agency, it shall execute the Agreement within the period prescribed in this RFP or as prescribed by the Authority. The Selected Agency shall not be entitled to seek any deviation in the Agreement.

2.28 Commencement of assignment

The Agency shall commence the Services at the Project site within 7 (seven) days from the date of execution of Agreement or such other date as may be mutually agreed. If the Agency fails to either sign the Agreement as specified in Clause 2.27 or commence the assignment as specified herein, the Authority may withdraw the LOA and cancel the tender process. In such event, the Bid Security of the selected Agency shall be forfeited and appropriated in accordance with the provisions of Clause 2.204.

2.29 Proprietary data

Subject to the provisions of Clause 2.23, all documents and other information provided by the Authority or submitted by an Applicant to the Authority shall remain or become the property of the Authority. Applicants are to treat all information as strictly confidential. The Authority will not return any Proposal or any information related thereto. All information collected, analysed, processed or in whatever manner provided by the Agency to the Authority in relation to the Work shall be the property of the Authority.

3. CRITERIA FOR EVALUATION

3.1 Evaluation of Technical Proposals

1. In the first stage, the Technical Proposal will be evaluated on the basis of the following criteria:

A. Basic Eligibility criteria

a) The Applicant shall be:

- A Company incorporated under the Companies Act, 2013/1956; or
- A Limited Liability Partnership (LLP) registered under the LLP Act, 2008;
- A Partnership Firm registered under the Indian Partnership Act, 1932; or
- A Proprietorship Firm having valid statutory registrations

In case of Proprietorship Firm, the bidder shall be required to submit valid registration documents, GST registration, PAN, and certified financial statements. The Authority reserves the right to apply additional scrutiny regarding financial and technical capacity, and may require enhanced performance security to safeguard contract performance.

In case of a Consortium/Joint Venture, all members (maximum 2 members) shall meet the above criteria, and the Lead Member shall be clearly identified. In case of a Joint Venture/ Consortium/ Association, the Bidder shall submit a duly executed Joint Venture/ Consortium Agreement clearly specifying the roles, responsibilities, and shareholding of each member, along with identification of the Lead Member. Lead Member shall hold minimum 51% stake. Joint and several liability shall apply.

The Applicant (including or members in case of Consortium/Joint Venture) shall be required to submit a true copy of its Incorporation/Registration Certificate along with Technical Proposal.

b) The Applicant must have a valid GST and Income-tax registration in India. Certifications, registration details (e.g., EPF, ESIC, GST), and compliance with labour laws related documents to be attached.

c) At the time of submission of the Bid the bidder should have valid registration with the Government of Madhya Pradesh, PWD in appropriate class. However, such bidders who are not registered with the Government of Madhya Pradesh and are eligible for registration can also submit their bids after having applied for registration with appropriate authority.

d) The bidder / One of the members of Joint Venture / Sub-contractor should have valid A Class Electrical Contractor License from Madhya Pradesh Government Electrical Licensing Board (Office of Chief Electrical Inspector, MP Govt.) at the time of signing of the Contract.

e) The bidder would be required to have valid registration with MPPWD in appropriate class at the time of signing of the Contract.

f) Failure to sign the contract by the selected bidder, for whatsoever reason, shall result in forfeiture of the earnest money deposit.

g) The Applicant (at least the Lead Bidder in case of JV/Consortium) must have at least an office in India to run the business which is operational for a period of last 5 (five) years or more, from the date mentioned as PDD.

B. Technical Eligibility criteria

The Bidder or any Member of the Consortium / Joint Venture should have during last 10 Years undertaken assignments fulfilling the below mentioned requirements as on the bid due date (the "Technical Capacity").

The Applicant (or any member in case of Consortium) shall have, during the last 10 (ten) years, successfully undertaken:

At least two (2) similar projects involving Facility Management / Comprehensive O&M / Integrated Facility Services, (including civil, electrical & mechanical operation and/or maintenance services) each having minimum value of INR 10.00 Crores, in any of the following:

- Religious / heritage / cultural complexes
- Public infrastructure / industrial or technology Parks / tourist/hospitality destinations
- Airports / hospitals / institutional campuses / large commercial or residential complexes

Documentary proof in the form of Work Orders / Agreements along with Completion or Performance Certificates shall be submitted.

(C) Financial Capacity:

The Applicant should have Average Annual financial turnover of related services during the last three financial years (FY 2022–23, 2023–24, 2024–25), ending 31st March 2025 of the previous financial year, should be at least 30% (thirty percent) of the estimated cost as per the audited annual reports duly certified by the Statutory Auditor with valid UDIN.

Net worth of all partners should be positive successively.

2. Only those Applicants whose Technical Proposals qualifies the above-mentioned criteria shall qualify for further consideration and opening of Financial Proposals.

Technical Evaluation Criteria (70 Marks)

SNo	Criteria	Sub-Criteria	Max. Marks
1	Relevant Experience of the Bidder	At least 2 Similar Facility Management/O&M projects for religious/heritage/cultural/public complexes in last 10 years (≥ ₹10 Cr each) – 20 marks More than 2 similar experience – 5 marks	25
2	Financial Capacity	Average Annual Turnover (last 3 yrs): > 30%- 50% of estimated cost = 10 marks (Achieved); Average Annual Turnover (last 3 yrs): > ₹50%–70% of estimated cost = 15 marks (Achieved)	20

		Average Annual Turnover (last 3 yrs): > 70% or above estimated cost = 20 Marks (Achieved)	
3	Approach & Methodology	O&M strategy, manpower deployment plan, SOPs – 3 marks Use of technology/innovation (smart tools, AI, monitoring apps, digital reporting) – 2 marks	5
4	Key Personnel & Team	CVs of Project Manager, Facility Manager, Engineers, Horticulture Expert, Event Coordinator – 3 marks Training & capacity building plan – 2 marks	5
5	Presentation before Evaluation Committee	Bidders shall make a presentation before the Evaluation Committee. Marks shall be awarded for: • Understanding on Scope of Work/Services/Components • Methodology & work plan • Resource deployment strategy • Event management preparedness • Automation/Digital/AI integration	15
Total Technical Score			70

Minimum Qualifying Marks: 50/70

3.2 Shortlisted Technical Proposal

1. Based on the detailed evaluation against each criteria/sub-criteria for the technical responsiveness, and securing 50 and above technical marks, a shortlist of eligible applicant agencies will be prepared.

3.3 Evaluation of Financial Proposal

1. In the second stage, the financial evaluation will be carried out as per this Clause 3.3. The financial proposal of only technically qualified shortlisted applicant agencies will be considered for opening.

2. For financial evaluation, the prices quoted in the Financial Proposal in Form 2, Appendix II will be considered.

3. The Authority will determine whether the Financial Proposals are complete, unqualified and unconditional. The prices quoted in the Financial Proposal shall be deemed as final and binding on the bidder.

4. Financial proposals of each qualified applicant shall be given financial score

3.4 Final Evaluation

1. For final evaluation, the proposals will be ranked based on the combined score (with weighed technical and financial score).

   - Technical (70% weightage): As per Technical Evaluation Criteria (experience, approach, manpower, presentation, etc.), normalized to 70 marks.

- Financial (30% weightage): The Financial Evaluation will be based on two components, as under, normalized to 30 marks.

  (a) Part A – Fixed O&M Cost (Annual Lump Sum)

  Financial Score for Part A (FSA) = 20

  (b) Part B – Service Charge % on Variable/Additional Services

  Financial Score for Part B (FSB) = 10

  (i) Part B1: Capping Part B1 20% of Part A Value (Annual Cost) +Tender premium (%) above/below MP PWD SOR 2024 quoted by the bidder (FSB1- 5)

  (ii) Part B2: Capping Part B2 10% of Part A Value (Annual Cost) +Service Charge (%) quoted by the bidder (FSB2- 2.5)

  (iii) Part B3: Capping Part B3 10% of Part A Value (Annual Cost) +Service Charge (%) quoted by the bidder (FSB3- 2.5)

  (c) Total Financial Score (FS)

  FS = FSA + FSB (max 30 marks)

- Final QCBS Score

  Final Score = Technical Score (TS) + Financial Score (FS)

  Highest composite score = H1 (Successful Bidder).

2. The applicant securing highest (H1)/first rank (the "Selected Applicant") in combined QCBS score shall be called for negotiation, if necessary, and selected for award of the work and issue of LOA. While the second ranked Applicant will be kept in reserve.

3. Abnormally Low Bid (ALB)

   a) In case the quoted price of a bidder is found to be abnormally low in comparison to internal estimates or other bids, the Authority may seek detailed justification.

   b) If the justification is found unsatisfactory, the bid may be rejected as non-responsive.

   c) The Authority may also require the bidder to furnish additional performance security to safeguard project performance. (Refer MPPWD Order No. F-53/02/2011/YO/ 19/525, DATED- 14/02/2025)

   d) Decision of the Authority shall be final and binding.

4. FRAUD AND CORRUPT PRACTICES

1. The Applicants and their respective officers, employees, agents and advisers shall observe the highest standard of ethics during the Selection Process. Notwithstanding anything to the contrary contained in this RFP, the Authority shall reject a Proposal without being liable in any manner whatsoever to the Applicant, if it determines that the Applicant has, directly or indirectly or through an agent, engaged in corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice (collectively the "Prohibited Practices") in the Selection Process. In such an event, the Authority shall, without prejudice to its any other rights or remedies, forfeit and appropriate the Bid Security or Performance Security, as the case may be, as mutually agreed genuine pre-estimated compensation and damages payable to the Authority for, inter alia, time, cost and effort of the Authority, in regard to the RFP, including consideration and evaluation of such Applicant's Proposal.

2. Without prejudice to the rights of the Authority under above stated Clause and the rights and remedies which the Authority may have under the LOA or the Agreement, if an Applicant or Agency, as the case may be, is found by the Authority to have directly or indirectly or through an agent, engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice during the Selection Process, or after the issue of the LOA or the execution of the Agreement, such Applicant or Agency shall not be eligible to participate in any tender or RFP issued by the Authority during a period of 2 (two) years from the date such Applicant or Agency, as the case may be, is found by the Authority to have directly or through an agent, engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice, as the case may be.

3. For the purposes of this Section, the following terms shall have the meaning hereinafter respectively assigned to them:

   (a) "corrupt practice" means (i) the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the action of any person connected with the Selection Process (for avoidance of doubt, offering of employment to or employing or engaging in any manner whatsoever, directly or indirectly, any official of the Authority who is or has been associated in any manner, directly or indirectly with the Selection Process or the LOA or has dealt with matters concerning the Agreement or arising there from, before or after the execution thereof, at any time prior to the expiry of one year from the date such official resigns or retires from or otherwise ceases to be in the service of the Authority, shall be deemed to constitute influencing the actions of a person connected with the Selection Process); or (ii) save as provided herein, engaging in any manner whatsoever, whether during the Selection Process or after the issue of the LOA or after the execution of the Agreement, as the case may be, any person in respect of any matter relating to the Project or the LOA or the Agreement, who

at any time has been or is a legal, financial or technical consultant/ adviser of the Authority in relation to any matter concerning the Project;

(b) "fraudulent practice" means a misrepresentation or omission of facts or disclosure of incomplete facts, in order to influence the Selection Process;

(c) "coercive practice" means impairing or harming or threatening to impair or harm, directly or indirectly, any persons or property to influence any person's participation or action in the Selection Process;

(d) "undesirable practice" means (i) establishing contact with any person connected with or employed or engaged by the Authority with the objective of canvassing, lobbying or in any manner influencing or attempting to influence the Selection Process; or (ii) having a Conflict of Interest; and

(e) "restrictive practice" means forming a cartel or arriving at any understanding or arrangement among Applicants with the objective of restricting or manipulating a full and fair competition in the Selection Process.

5. PRE-PROPOSAL CONFERENCE

1. Pre-Proposal Conference of the Applicants shall be convened at the designated date, time and place. Only those Applicants, who have purchased the RFP document or downloaded the same from the Official Website of the Authority, shall be allowed to participate in the Pre-Proposal Conference. A maximum of two representatives of each Applicant shall be allowed to participate on production of an authority letter from the Applicant.

2. During the course of Pre-Proposal Conference, the Applicants will be free to seek clarifications and make suggestions for consideration of the Authority. The Authority shall endeavour to provide clarifications and such further information as it may, in its sole discretion, consider appropriate for facilitating a fair, transparent and competitive Selection Process.

3. Interested Applicants are encouraged to make a site visit to all the project components and to make a fair assessment of site conditions and actual requirement that will help in preparing financial proposals.

6. MISCELLANEOUS

1. The Selection Process shall be governed by, and construed in accordance with, the laws of India and the Courts in the State in which the Authority has its headquarters shall have exclusive jurisdiction over all disputes arising under, pursuant to and/or in connection with the Selection Process.

2. The Authority, in its sole discretion and without incurring any obligation or liability, reserves the right, at any time, to:

   (a) suspend and/or cancel the Selection Process and/or amend and/or supplement the Selection Process or modify the dates or other terms and conditions relating thereto;

   (b) consult with any Applicant in order to receive clarification or further information;

   (c) retain any information and/or evidence submitted to the Authority by, on behalf of and/or in relation to any Applicant; and/or

   (d) independently verify, disqualify, reject and/or accept any and all submissions or other information and/or evidence submitted by or on behalf of any Applicant.

3. It shall be deemed that by submitting the Proposal, the Applicant agrees and releases the Authority, its employees, agents and advisers, irrevocably, unconditionally, fully and finally from any and all liability for claims, losses, damages, costs, expenses or liabilities in any way related to or arising from the exercise of any rights and/or performance of any obligations hereunder, pursuant hereto and/or in connection herewith and waives any and all rights and/or claims it may have in this respect, whether actual or contingent, whether present or future.

4. All documents and other information supplied by the Authority or submitted by an Applicant shall remain or become, as the case may be, the property of the Authority. The Authority will not return any submissions made hereunder. Applicants are required to treat all such documents and information as strictly confidential.

5. The Authority reserves the right to make inquiries with any of the clients listed by the Applicants in their previous experience record.

SCHEDULES

SCHEDULE - 1

(See Clause Error! Reference source not found.)

Selection of Agency for Facility management, Operation & Comprehensive Maintenance of all Infrastructure and Services at Shri Mahakaleshwar Temple, Mahakal Lok and Precinct

TERMS OF REFERENCES (TOR)

7. TERMS OF REFERENCE (TOR)

7.1 Background

The Ujjain Smart City Limited (USCL), a special purpose vehicle (SPV) created under 'Smart City Mission', one of the flagship schemes of Govt. of India, for urban governance improvement and infrastructure development in the city of Ujjain, Madhya Pradesh.

Shri Mahakaleshwar Temple in Ujjain is one of the twelve Jyotirlingas and among the most sacred pilgrimage sites of India. The temple attracts millions of devotees annually, with footfall surging to several crores during peak festivals and Simhastha. Recognizing the need to enhance visitor facilities and preserve cultural heritage, Ujjain Smart City Limited (USCL), on behalf of Shri Mahakaleshwar Temple Management Committee (SMTMC), conceptualized and implemented the Mahakal Lok Project in two phases.

The project has transformed the precinct through development of grand entrance corridors, Rudrasagar rejuvenation, extensive stone artwork and sculptures, public amenities, horticulture, and smart infrastructure. These works were executed under multiple contracts, most of which are nearing the expiry of their Defects Liability Period (DLP). With the assets now stabilized, there is an urgent need for a comprehensive Facility Management and Maintenance arrangement to ensure sustained upkeep, visitor satisfaction, and operational readiness, particularly during high-footfall events and large-scale events like upcoming Simhastha 2028.

Ujjain Smart City Limited is jointly working with other Stakeholders like District Administration, Shri Mahakaleshwar Temple Management Committee (SMTMC) and Ujjain Municipal Corporation (UMC) to address the facility management and comprehensive maintenance and related issues and have collectively decided to put in place a mechanism that will ensure better upkeep of facilities experience to the pilgrims and visitors and engage a professional Facility Management Agency to manage and maintain the temple complex and Mahakal Lok in a holistic manner.

In pursuance of the above, the Authority has decided to carry out the process for selection of agency for *Facility management, Operation & Comprehensive Maintenance of all Infrastructure and Services at Shri Mahakaleshwar Temple, Mahakal Lok and Precinct* for the contract period (the **Project**). The Agency shall perform the activities in accordance with the Terms of Reference specified in this Schedule-1 (the "TOR").

The Authority (USCL) invites proposals from reputed Facility Management (FM) agencies for the comprehensive Operation, Maintenance, and Facility Management (O&M) of Mahakaleshwar Temple, Mahakal Lok, Rudrasagar Lake, and associated infrastructure. The scope includes facility management, preventive and corrective maintenance, minor civil works and refurbishment, procurement of goods/consumables, and provision of special services during festivals and major events.

7.2 General:

This section should be read in conjunction with other sections of RFP. The words expressions, which are defined in this Section of RFP i.e. Instructions to Applicants (ITA), have the same meaning when used in the other Sections of RFP, unless separately defined.

The ITA sets out the bidding procedure provide necessary details for the Applicants to prepare their proposals/bids for the subject Project. The prescribed formats for submission of proposals have been provided as Annexure in this RFP.

The Applicants are advised to submit their proposals/bids complying with the requirements stipulated in the RFP document. The proposals/bids may be rendered disqualified in case of receipt of incomplete proposals/bids /or the information is not submitted as per the prescribed formats.

The prospective Applicants are required to inspect the project premises and locations of all the components listed in the RFP. The Applicant submitting the proposals/bids will be considered to have accepted all the terms and conditions and no further changes will be accepted. No enquiries in written or verbal will be entertained with regard to acceptance/rejection of the proposals/bids. Any attempt on the part of the Applicant to influence any official/officer of USCL will lead disqualification of its proposals/bids.

The project locations shall be made available on As-Is-Where-Is basis to the successful Applicant. The prospective Applicants should satisfy themselves as to asses the requirements and make their proposals accordingly.

All applicable guidelines including National Building Code, BIS and other relevant standards, regulations issued by Statutory Authorities applicable within the jurisdiction of UMC shall be complied with.

The selection of Successful Concessionaire will be done on H1 basis i.e. highest combined rank under QCBS method.

7.3 Broad Scope of Work

The Agency shall be responsible for the comprehensive upkeep, maintenance, and minor refurbishment of all civil, structural, architectural, services, lighting elements within the Mahakaleshwar Temple precinct and Mahakal Lok to ensure the premises remain in a state of perpetual readiness for daily darshan as well as mega-events such as Simhastha 2028.

The scope of services under this Contract is divided into Part A (Comprehensive O&M) and Part B (Additional Works & Services).

a) Part A – Comprehensive O&M (Lump Sum):

The Contractor shall be responsible for complete operation, maintenance, repair, upkeep, and lifecycle management of all existing infrastructure and services, including but not limited to manpower, consumables, tools, tackles, equipment, minor spares,

and all inputs necessary to meet the prescribed Service Levels.
No separate payment shall be admissible for any activity falling under Part A.

b) Part B – Additional Works & Services:

Only those works and services which are explicitly excluded from Part A and are undertaken with prior approval of USCL/SMTMC shall be payable separately under Part B.

c) Scope Boundary Matrix:

Activity	Part A	Part B	Exclusion
Routine maintenance & repairs	✓	✗	✗
Minor civil works/refurbishment	✗	✓ (B1)	✗
Supply of furniture/equipment	✗	✓ (B2)	✗
Event/festival infrastructure	✗	✓ (B3)	✗
Major capital replacement	✗	✗	✓

The successful agency will have to carry out the following tasks as part of the scope but not limited to:

7.3.1 General Obligations of the Agency

a) The Agency shall be responsible for the comprehensive Facility Management, Operation and Maintenance (O&M) of all infrastructure and services within the Mahakaleshwar Temple precinct, Mahakal Lok corridor, Rudrasagar lake surroundings, ghats, parking areas, and other assets as may be entrusted by SMTMC/USCL.

Apart from provided asset list or inventory, there are certain facilities which are developed from donation or CSR fund. The bidders are hereby are requested to kindly visit these facilities as well and submit their bid accordingly.

b) The Agency shall ensure uninterrupted services, 24x7 where applicable, maintaining the sanctity of the temple and the heritage character of Mahakal Lok.
c) All works shall conform to applicable laws, heritage norms, safety standards, environmental regulations, and directions issued by SMTMC/USCL from time to time.
d) The Agency shall maintain adequately trained manpower, equipment, spares, and consumables at all times for smooth operations.
e) The Agency shall establish a Site Office and appoint a Project Manager as single point of contact for coordination. Space for site office and storage facility shall be arranged by SMTMC/USCL at appropriate location in the project premises.

7.3.2 Facility Management Services

(A) Housekeeping & Sanitation

i. Daily cleaning, sweeping, mopping, and washing of all areas including temple premises, Mahakal Lok pathway, Rudrasagar lakefront, ghats, parking lots, visitor facilities, and public conveniences.

ii. Use of mechanized cleaning equipment such as scrubbers, sweepers, vacuum cleaners, jetting machines, as approved by SMTMC.

iii. Collection, segregation and disposal of waste in line with Solid Waste Management Rules, 2016.

iv. Successful agency shall deploy required equipment/machinery for mechanized cleaning and efficient sanitation services.

v. Deployment of adequate staff during peak hours, and additional shifts during festivals and major events.

(B) Landscaping & Horticulture

i. Maintenance of lawns, gardens, shrubs, vertical gardens, planters and water features.

ii. Regular irrigation, pruning, trimming, weeding, and application of fertilizers and pesticides.

iii. Replacement of dead/damaged plants and seasonal re-plantation.
iv. Maintenance of horticultural lighting and decorative features.

(C) Electrical, Lighting & Illumination

i. Operation and preventive maintenance of electrical installations including streetlights, façade lighting, fountains, pumps, DG sets, solar systems, public address system, and decorative lighting.

ii. Routine inspections, load testing, and preventive maintenance as per OEM recommendations.

iii. Immediate restoration of breakdowns; emergency backup arrangements during outages.

(D) Water Supply, Sewerage & Plumbing

i. Operation & maintenance of sumps, borewells, pumps, pipelines, fountains, and drinking water kiosks.

ii. Regular checking and repair of leakages, choking, and overflows.

iii. Operation & upkeep of fountain's, sewerage system, manholes, and STPs where applicable.

(E) Civil & Structural Maintenance

i. Routine maintenance of pavements, flooring, pathways, compound walls, steps, signage, railings, and visitor amenities.

ii. Civil repairs including plastering, tiling, flooring, stonework, waterproofing, carpentry, and painting.

iii. Periodic inspection and repair of stone and FRP sculptures, murals, and artworks under the guidance of SMTMC.

(F) Visitor Amenities

i. Maintenance and operation of public toilets, changing rooms, cloakrooms, shoe stands, waiting halls, seating areas, and drinking water points.

ii. Supply of consumables such as soaps, tissue papers, disinfectants, and toiletries.

iii. Upkeep and periodic refurbishment of furniture, fixtures and signages.

(G) IT, Surveillance & Digital Systems

i. Operation & maintenance of CCTV cameras, control rooms, access control, LED displays, visitor information kiosks, and ticketing systems (if entrusted).

ii. Ensuring minimum uptime of 98% for surveillance and IT systems.

iii. Maintenance of software licenses and backups.

(H) Annual Maintenance and Management of Digital & Social Media Platforms

The Agency shall be responsible for the annual maintenance, management, and regular updation of official digital and social media platforms related to Mahakal Lok and the Mahakaleshwar Temple, as designated by USCL/SMTMC. This shall include, but not be limited to, official social media accounts such as Facebook, Instagram, X (Twitter), YouTube, and any other platforms notified from me to me, as well as the official website of Shri Mahakaleshwar Temple.

The scope shall cover content creation and management, daily monitoring, analytics and performance reporting, community engagement, grievance redressal, and coordination with the Command & Control Centre for timely and accurate information dissemination. The Agency shall ensure that all digital content upholds the sanctity, cultural and religious values, and positive public image of Mahakal Lok and Shri Mahakaleshwar Temple, strictly in accordance with guidelines and approvals issued by USCL/SMTMC.

All activities under this sub-clause shall be carried out in close consultation with and under the supervision of the designated Communication Officer of USCL/SMTMC, and no content shall be published without due authorization.

7.3.3 Minor Civil Works & Refurbishment

a) The Contractor shall execute minor civil works, refurbishments, and modifications only upon request of SMTMC and with prior approval of USCL. These minor works shall remain distinct from routine civil and infrastructure maintenance activities that are fully covered under the Comprehensive O&M obligations.

b) Minor civil and refurbishment works may include construction of small scale new civil or other infrastructure components required to complement the existing facilities, provided such works are specifically requested by SMTMC and approved by USCL. The total value of all such works shall not exceed 20% of the annual Comprehensive Maintenance Contract (CMC) cost.

c) Major civil works or large-scale infrastructure additions shall be procured and executed only through a separate tender process and shall not form part of the Contractor's obligations under this clause.

d) For clarity, all routine small-scale repairs and rectifications necessary for upkeep—such as patch repairs, minor crack filling, joint sealing, minor surface finishing, and similar tasks—shall be deemed to be included within the Comprehensive Maintenance obligations and shall not be billed as Minor Civil Works under this clause.

7.3.4 Comprehensive Maintenance Services of Major Infrastructure

The selected agency shall undertake end-to-end O&M of all assets, including:

- Preventive, predictive, and corrective maintenance
- Routine repairs and rectifications
- Cleaning, housekeeping, horticulture
- Electrical, mechanical, plumbing upkeep
- Deployment of manpower, consumables, spares, tools

All routine, recurring, and small-scale repair works, including patch repairs, minor civil repairs, crack filling, joint sealing, painting touch-ups, and similar activities shall be deemed included in Part A.

(A) Civil & Architectural Infrastructure Maintenance

1. Structural & Architectural Upkeep

- Regular inspection and preventive maintenance of all built structures, pathways, walls, steps, and stone-clad surfaces.
- Routine cleaning and polishing of stone/marble/cobble flooring, ensuring skid resistance and safety.
- Protective coatings (anti-stain, anti-skid, waterproofing) applied periodically to stone flooring, staircases, and parapets.
- Repair/replacement of damaged tiles, pavers, and stone inlays in plazas, corridors, and temple surroundings.
- Structural safety inspections to identify cracks, seepage, or deterioration; immediate rectification as directed by Authority.

2. Painting, Polishing & Protective Coating

- Periodic painting of walls, ceilings, compound walls, service buildings, ticket counters, shoe stands, and cloakrooms with approved eco-friendly paints.
- Polishing and protective coating of wooden/metal elements, heritage gates, ornamental railings, and decorative motifs.
- Annual lime wash/whitewash of heritage-appropriate areas.
- Special protective treatments for murals, relief panels, FRP sculptures, and heritage artworks (under expert guidance).

3. Barricades, Queue Management & Signages

- Maintenance, repair, and repainting of permanent barricades, queue systems, railings, bollards, and fencing within temple premises and Mahakal Lok.
- Provision and upkeep of modular barricades for seasonal crowd regulation during festivals.
- Regular inspection and replacement of signage boards, directional panels, wayfinding systems, nameplates, donor boards, and safety signage.
- Cleaning and polishing of stainless-steel/metal queueing systems; replacement of broken/worn-out parts.

4. Garbh-Griha, Sabha-Mandapam & Sacred Areas

- Civil maintenance and upkeep of Garbha-Griha (sanctum sanctorum) and Sabha-Mandapam, ensuring flooring, railings, doors, and stonework remain pristine.
- Polishing of stone and brass elements, wooden doors, and protective coating for anti-corrosion.
- Immediate attention to seepage, water ingress, or cracks in Garbha-Griha/Sabha-Mandapam.
- To maintain Water pumping system and sump of Garbh Griha and its associated equipment's ensure 24 hr of system upkeep.
- Heritage-sensitive approach: All works in Garbha-Griha to be undertaken only with prior approval of SMTMC and under supervision of temple authorities.

5. Public Amenities & Visitor Areas

- Preventive maintenance of public toilets, drinking water kiosks, cloakrooms, shoe stands, waiting halls, and resting areas.
- Periodic refurbishment (painting, tile replacement, plumbing fixtures, mirror replacements, etc.).
- Maintenance of internal walls, ceilings, and flooring of visitor shelters and mandapams.

6. Water Features, Drains & Fountains

- Routine cleaning, desilting, and maintenance of open drains, stormwater channels, sewer lines and outfall junction.
- Preventive maintenance of fountains, water cascades, and decorative water features.
- Daily cleaning, operation and maintenance or SOP'S as approved by USCL of mechanical screening chamber at outfall junction in Mahakal lok also to coordinate with UMC staff for transportation of extracted waste/material.
- Application of protective coating for waterproofing wherever necessary.
- Ensuring free flow of drains especially during monsoons and festivals with heavy gatherings.

7. Rudrasagar Lake & Ponds

- Regular cleaning, de-weeding, and civil maintenance of ghats, retaining walls, steps, and embankments.
- Bio-remediation and water quality upkeep through dosing as per approved plan.
- Upkeep of protective stonework along Rudrasagar perimeter.

8. Furniture, Fixtures & Decorative Elements

- Maintenance, repair, and periodic refurbishment of benches, stone seating, decorative lamp posts, bollards, and donor plaques.
- Protective polishing of brass, bronze, or metal decorative items.
- Refurbishment of temporary structures used during events and their safe storage.

9. Event-Readiness & Simhastha Preparations

- Development of a comprehensive event-readiness plan for Simhastha 2028, ensuring that all civil and architectural elements are refurbished well in advance.
- Periodic mock drills for crowd movement and queue system adequacy.
- Annual festival-readiness checklist including:
    - Barricade integrity checks.
    - Queue system reinforcement.
    - Signage upgrades (temporary + permanent).
    - Fresh painting/polishing cycles before major festivals.
- Capacity planning to handle 20–25 million visitors during peak Simhastha days, with scaling of queue systems, signage, and amenities.

10. General Provisions

- All works to use approved materials matching the original specifications/heritage style.
- All civil/architectural works must be completed within 7 days of complaint unless otherwise specified.
- Heritage-sensitive zones (Garbh-Griha, Sabha-Mandapam, sculptures, murals) to be handled by skilled artisans under expert supervision.
- Preventive maintenance schedules (monthly/quarterly/annual) to be prepared and approved by SMTMC/USCL.

11. Periodic Maintenance Schedule

Indicative periodic maintenance schedule is given below. However, applicants will have to submit a PMS compliance calendar as part of their proposal. After award of contract same

shall be fine-tuned in consultation with successful agency and engineering team of USCL and SMTMC.

Preventive Maintenance Schedule (PMS)

SN	Asset / Infrastructure	Monthly	Quarterly	Half-Yearly	Annually	Remarks
1	Flooring & Pathways (stone, marble, tiles, pavers)	Sweeping, mopping, chip/crack repairs	Deep scrubbing, polishing	Protective coating/anti-skid	Comprehensive inspection & replacement where needed	Must remain skid-free and safe for crowds
2	Walls & Ceilings (public areas, mandapams)	Surface cleaning	Plaster touch-up	Spot painting	Full repainting/whitewashing	Heritage-appropriate paints only
3	Barricades, Queue Systems, Railings	Cleaning, polishing	Tightening of bolts, repairs	Painting/recoating	Structural replacement/ major overhaul	Extra reinforcement before Simhastha
4	Signages & Wayfinding Systems	Cleaning, lamp replacement (if lit)	Repainting/lettering check	Structural inspection	Redesign/replacement as per footfall	Must be bilingual (Hindi + English)
5	Garbh-Griha & Sabha-Mandapam (stone/wood/brass elements)	Daily cleaning & polishing	Protective coating for brass/metal	Structural inspection	Full refurbishment under SMTMC guidance	Only heritage-skilled artisans
6	Toilets, Cloakrooms, Amenities	Daily cleaning & consumables	Plumbing checks, deep cleaning	Fixture replacements	Renovation/ retile if required	To meet hygiene standards for events
7	Fountains, Ponds, Decorative Water Features	Daily cleaning	Nozzle/pump inspection	Waterproofing checks	Major overhaul of pumps & structures	Maintain aesthetics & safety
8	Rudrasagar Lake & Ghats	Daily surface cleaning, waste removal	De-weeding drive	Bio-remediation dosing	Structural inspection of ghats/embankments	Critical for Simhastha readiness
9	Drainage & Sewerage Network	Weekly desilting in hotspots	Major flushing	CCTV inspection of lines	Structural repair/lining if needed	Mandatory before monsoons
10	Furniture & Fixtures (benches, lamp posts)	Cleaning, polishing	Repairs	Protective coating	Replacement /major overhaul	Must remain visitor-ready

SN	Asset / Infrastructure	Monthly	Quarterly	Half-Yearly	Annually	Remarks
11	Fire Safety Systems	Weekly inspection	Testing of hydrants/ extinguishers	Refill cylinders	Fire audit & replacements	Zero-tolerance SLA
12	Horticulture (lawns, gardens, trees)	Daily watering, pruning	Pest control & fertilization	Seasonal replanting	Landscape rejuvenation	≥ 95% plant survival
13	Decorative & Heritage Artworks (murals, sculptures, FRP)	Dusting & cleaning	Protective coating	Condition assessment	Restoration/ refurbishment under expert supervision	Critical for heritage conservation, complete protective coating every 2 years

(B) Electrical, Lighting & Illumination Infrastructure Maintenance

1. Objective

- Provide full lifecycle operation, maintenance, repair, testing, replacement, monitoring and asset management of all electrical systems within the project area, including but not limited to HT/LT distribution, transformers, DG sets, UPS & batteries, switchgear, motors, lifts (electrical aspects), lighting (façade, general & emergency), lightning protection, earthing, power factor correction, solar PV ,CCTV and IT interface, power interfaces and all associated cables, trays, conduits, junctions, panels and accessories — for normal operations, festivals/peak events, and emergency situations. No extra payment for replacement of above mentioned electrical ,electronics and IT equipment shall be made.

2. Assets & Systems Covered

- Incoming supply: HT/LT feeders, utility metering, metering panels.
- Main Distribution: HT/LT switchgear, transformers (HT/LT), ring mains, distribution boards (MDB/SMDB/DBs), ACBs/VCBs, MCCBs, MCBs, isolators.
- Backup power: Diesel generator sets (DG) including fuel systems and AMF panels.
- Power quality & continuity: UPS systems, batteries, static transfer switches (STS).
- Lighting: architectural, general area, street & pathway, floodlighting, decorative festival lighting, emergency & exit lighting, signage lighting.
- Motors & pumps: motors (submersible, CT/PT pumps), soft starters, VFDs (drive panels), motor control centres (MCC).
- Specialized systems: lightning protection, earthing and bonding systems, surge protection devices (SPD), harmonic filters, power factor correction (capacitor banks).

- Renewable interfaces: solar PV arrays, inverters, combiner boxes, metering & SCADA interface (if applicable).
- Instrumentation & metering: energy meters, CT/PTs, distribution metering, sub-metering for critical loads.
- Cabling & containment: HT/LT cables, power & control cables, cable trays, conduits, ducts and manholes.
- Small power & sockets, temporary power services for events, charging points (if present).
- Electrical works of allied systems: HVAC electrical interfaces (AHU, chiller starters), fire-fighting electrical interfaces, CCTV & access control power supplies, emergency systems.
- To maintain All documentation, drawings, as-builts, O&M manuals, spares, test certificates and statutory compliance records.

3. Responsibilities — General

The Contractor shall:

- Provide routine, preventive, predictive and corrective maintenance, and emergency repair 24x7.
- Ensure availability/operability of critical systems, minimize downtime and provide redundancy planning.
- Provide qualified staff, supervisors, permanent on-site/roving technicians and a 24x7 call/response desk.
- Maintain inventory of recommended critical spares onsite and at approved store locations.
- Maintain logs, test records, certification, and monthly reports in specified formats and provide dashboards for Authority access.
- Co-ordinate statutory inspections, statutory permits and compliance with local electrical inspectorate, and submit necessary documents for Authority approval.
- Manage third-party vendors for major repairs/replacements with prior written approval from Authority (procurement rules apply).
- Ensure strict HSE compliance and carry out work with lockout-tagout (LOTO) and permit-to-work systems in coordination with USCL.

4. Preventive & Predictive Maintenance (PM)

Contractor shall develop and execute a PM plan that includes but is not limited to:

Daily

- Visual inspections of DG, UPS, control panels, battery rooms, DBs, and critical feeders.
- Log start/stop events, fuel and battery status, alarms.

- Verify emergency lighting & exit lights.

Weekly

- Check LT panels, tightness of connections, earthing continuity tests on sample points.
- DG run under load for minimum runtime per week (as per manufacturer).
- UPS battery health quick check.

Monthly

- Infrared thermography of panels and busbars for hotspots (at least once/month for critical panels).
- Insulation resistance tests for selected feeders/motors.
- Battery discharge test & capacity checks (as per manufacturer schedule).
- Megger tests on designated feeders; tighten all accessible fasteners.
- Run-through of backup systems (DG, UPS) under simulated load.

Quarterly

- Detailed maintenance of DG (filter changes, oil top-ups as per running hours), load bank tests (as required).
- Calibration checks on meters, AMC of protective relays, test & service VFDs.
- Earth resistance testing for all major earth pits, lightning protection inspections.
- Complete BOM review of spares consumption; replenishment as per stock norms.

Half-Yearly / Annually

- Comprehensive overhaul of critical motors, pump sets, switchgear preventive maintenance including contactor/relay replacements if worn.
- Full A/C, HVAC electrical interface checks with electrical contractors.
- Full electrical distribution system audit, energy audit & power factor correction assessment.
- Transformer oil testing (DGA where applicable), oil filtration if needed, tap changer checks.
- Full battery capacity testing under controlled conditions; replace batteries as necessary.
- Update as-built drawings and O&M manuals.
- Submit annual energy consumption report, suggest energy efficiency measures & costed CAPEX plan.

Predictive Maintenance

- Implement condition-monitoring using vibration sensors (motors), thermal imaging trends, battery impedance monitoring and predictive analytics where feasible. Provide monthly trend reports and recommended corrective actions.

5. Corrective & Breakdown Maintenance

- 24x7 fault reporting and ticketing with defined response and restoration timelines (see SLA section).
- Carry out repairs including replacement of worn/damaged parts, rewinding of motors, repairs to switchgear, re-termination of cables, replacement of burnt/defective components.
- For major replacements that exceed agreed thresholds or require design changes, prepare a detailed proposal (BOQ + time schedule + impact assessment) for Authority approval before execution.
- Provide temporary power solutions (generators, temporary distribution) for planned shutdowns or emergency restorations during events.

6. Testing, Commissioning & Acceptance

- All newly installed or replaced equipment/components shall be tested and commissioned as per manufacturer recommendations and relevant national/international standards.
- Deliverables after commissioning: test reports (insulation resistance, earth resistance, functional tests), as-built drawings, single-line diagrams updated, operation & maintenance manuals, spares list, and warranty certificates.
- Routine tests to be carried out and recorded as per schedule in Section 4. All test equipment must be calibrated.

7. DG, UPS & Battery Specific Requirements

- DG: routine oil/filters/engine checks, load bank tests, fuel management, fuel polishing/cleaning, exhaust & silencer checks, starter/alternator inspections. Maintain fuel logs and refuelling certificates.
- UPS: preventive maintenance as per OEM, battery health monitoring, routine transfer tests, bypass & rectifier checks, inverter performance, and protective relay checks.
- Batteries: maintain ambient temperature control, periodic capacity tests, top-up electrolyte (if VRLA sealed, follow OEM instructions), disposal of replaced batteries as per environmental laws.

8. Transformers, Switchgear & Protection

- Transformer preventive maintenance: tap changer inspection, oil testing (breakdown voltage, moisture, DGA where applicable), cleaning radiators, gaskets checks.
- Switchgear: SF6 checks if applicable, contact resistance, cleaning of contacts, calibration of protection relays, testing of CB trip settings & time-current curves.

- Maintain protection coordination study; update as changes occur.

9. Earthing, Lightning & Surge Protection

- Maintain earth pits, measure earth resistance (target per relevant standard), ensure earth grid integrity after civil works.
- Inspect lightning arrestors & surge protection devices periodically and after major storms. Replace SPDs as required.

10. Cabling & Containment

- Inspect cable trays, conduits, clamps, cable supports for corrosion/damage and replace/repair as required.
- Caution against exceeding cable current ratings; rectify overheated/undersized cables.
- Manage cable identification and labelling; update cable route drawings.

11. Lighting & Emergency Systems

- Maintain lumen levels, replace lamps/fixtures, maintain emergency lighting.
- Seasonal/ festival decorative lighting — install, test and decommission under permit to work and Authority-approved drawings; temporary circuits to be protected and isolated properly.
- Replacement of Physically damaged or faulty Lighting fixtures in any means will be in successful bidder scope of work no extra payment shall be made for the same.

12. Energy Management & Metering

- Maintain and reconcile energy meters; report energy consumption monthly and propose energy saving measures.
- Monitor power factor and implement PFC corrections as per Authority directive. Maintain records of capacitor bank health and switching operations.

13. CCTV / IT / Fire Systems

- Maintain or Provide power & UPS provisioning for CCTV, access control and fire systems; coordinate with respective vendors for preventive schedules and power-related fault analysis.
- Ensure redundancy for critical control & surveillance equipment; maintain logs and uptime reports.

14. Statutory Compliance & Documentation

- Ensure compliance with all applicable electrical codes, statutory regulations, labour laws, pollution control and environmental disposal norms.
- Arrange statutory inspections, periodic license renewals, and NOCs as required; submit certificates and inspection reports to Authority.
- Maintain Liability & Workmen's compensation insurance as specified.

15. Safety & Permit-to-Work

- Implement LOTO (Lockout–Tagout), permit-to-work systems for all high-voltage works, grounded testing, isolation protocols and confined space entry procedures.
- Maintain and enforce PPE use, fire extinguishers, first-aid kits, signage, barricading during works.
- Conduct routine HSE training & mock drills (at least quarterly) and maintain training records.

16. Spares, Tools & T&P

- Maintain minimum recommended stock of critical spares onsite Façade lighting fixture of each type which are installed on site. transformer fuses/MCCB'S, CB spare coils, relays, starter spares, fuse-links, contactors, HT/LT fuses,33KV and 11KV end joints, 33KV and 11KV Straight through joints VFD spare IGBT modules if available, battery cells. Provide a suggested critical spares list (see Annex).
- Provide calibrated testing instruments: digital megger, earth tester, thermal camera, clamp meters, mustimeters, power quality analyser, battery tester, insulation tester, vibration analyser, tachometer, etc.
- Tools & T&P to be made available by Contractor for normal & emergency works. For major capital replacements, procurement to follow Part B process (approval + handling charge) as per contract.

17. Temporary Works & Festival/Emergency Support

- Provide temporary distribution boards, hover/flex cables, earthing and localization for events; plan and get Authority approval for all temporary works.
- Provide surge staffing plan for festivals including rosters, relief crews, spares staging, pre-event inspections, and 24x7 onsite supervisors for the event duration.

18. Performance Monitoring, Reporting & Handover

- Maintain a computerized ticketing system with unique ticket numbers, timestamps (open, response, resolution). Provide Authority access or daily/weekly exports.
- Monthly report: preventive activities completed, corrective works, downtime logs, energy consumption, spare parts used, statutory compliance certificates, planned activities for next month.
- Quarterly performance review with Authority including KPI dashboard and CAPEX proposals.

At contract end, deliver complete tested systems, updated as-built drawings, spare parts inventory, manuals and a handover certificate.

19. Quality & Material Standards

All replacement materials and equipment must be OEM-approved or equal, conforming to relevant Indian Standards (IS) / IEC as applicable, and must be new unless approved otherwise. Use only branded consumables and maintain traceability. Provide certificates of conformity for major items.

7.3.5 Procurement of Goods & Consumables

a) Procurement, supply and safe storage of consumables required for housekeeping, sanitation, horticulture, electrical, and plumbing works.

b) Procurement of safety equipment, uniforms, spare parts, tools, festival decoration material, temporary structures (tents, barricades, lighting).

c) The cost of consumables and goods shall be included in the Financial Proposal unless specified otherwise.

7.3.6 Event & Festival Management

a) Deployment of additional manpower and resources during peak occasions such as Mahashivratri, Shravan, Nag Panchami, Sawan Sawari, Simhastha, and other notified events.

b) Supply, installation and dismantling of temporary infrastructure such as tents, barricades, sound systems, lighting, temporary toilets, water ATMs.

c) Coordination with SMTMC, Police, District Administration, and USCL for crowd management and special arrangements.

7.3.7 Emergency & Special Services

a) Immediate response and restoration in case of fire, flooding, accidents, structural failures, or other emergencies.

b) Deployment of firefighting equipment, pumps, and safety gear as per requirement.

c) Provision of disaster management support in coordination with local authorities.

7.3.8 Reporting & Monitoring

a) The Agency shall maintain records of manpower deployment, equipment usage, complaints received, and works executed.

b) A Daily Progress Report (DPR) and Monthly Performance Report (MPR) shall be submitted to SMTMC/USCL.

c) A digital complaint redressal and monitoring system shall be maintained, with complaints to be resolved within defined timelines.

7.3.9 Service Level Agreements (SLAs)

The performance of the Agency shall be measured against SLAs defined in Section 5. Deductions/penalties shall be levied for non-compliance.

7.3.10 Key Deliverables

- Continuous upkeep of all infrastructure and services to heritage, safety and hygiene standards.
- Zero-litter premises, well-maintained pathways, functional lighting, uninterrupted water supply, clean toilets, maintained artworks and sculptures.
- Readiness for large-scale events with additional manpower and infrastructure.
- Monthly compliance reports and stakeholder satisfaction surveys.

7.4 Deployment of Manpower and Resources

Scope of work under Deployment of Manpower includes but not limited to:

1. Adequate manpower should be deployed for satisfactory performance of the services under the contract but not limited to.
2. Manpower so provided shall work in shifts with a single shift no longer than 8 hours at a stretch.
3. The selected bidder shall not employ following persons on work:
    - Any minor person (Child labour)
    - any person having age of more than 60 years
    - any person with criminal background
4. The Manpower deployed by the selected agency for operation and management should not have any criminal case registered against their name. A certificate in this regard shall be submitted by the selected agency before deployment of any manpower on ground.
5. The selected agency shall provide detailed list of its personnel's, manager & nodal officer etc. who will be deployed at the project site along with name, address, and other contact details.
6. The selected agency shall provide for insurance coverage of its personnel for personal accident and/ or death while performing the duty.
7. The personnel of the selected agency shall not be the employees of the Authority and they shall not claim any salary or allowances, compensation, damages or anything arising out of their employment/duty under this Contract. The selected agency shall make them known about this position in writing before deployment under this agreement.
8. The selected agency shall ensure that all its personnel are fully conversant with the project site and surrounding and with the activities carried out at the "Shri Mahakaleshwar Temple" and "Mahakal Lok" Premises.
9. As per preliminary assessment the applicant/selected agency shall ensure deployment of manpower and equipment as detailed below:
10. Manpower Requirement

SNo	Position	Qualification	Experience	Remarks
1	Project cum Facility Manager (1)	Graduate in Engineering / Facility Management / MBA (preferred)	≥ 10 years overall experience, of which ≥ 5 years in managing large public spaces/temple/ heritage/airport/mall O&M projects	Single point of contact with USCL/SMTMC; responsible for overall service delivery
2	Assistant Facility Managers (3)	Graduate / Diploma in Engineering / Facility Management	≥5 years' experience in O&M/ facility management	To assist Project Manager; zone-wise responsibility
3	Housekeeping Supervisor (1)	Graduate / Diploma in Hotel Management / Facility Services	≥ 3 years supervisory experience in large public premises cleaning	To monitor housekeeping staff and ensure SLA compliance
4	Housekeeping Staff (20)	Minimum 8th pass; trained in mechanized cleaning	≥ 1 year	To be trained in use of scrubbers, vacuums, jet machines
5	Security Supervisor (1)	Ex-serviceman or Graduate with security training certificate	≥ 5 years in security/crowd management	To coordinate with temple security/police
6	Security Staff (5)	10th pass with security training	≥ 2 years	To assist with queue management, entry/exit pertaining to video surveillance
7	Sculptors/Helpers (3)	Skilled artisans with certificate or demonstrable ability	≥ 3 years in stone/FRP/mural upkeep	To maintain & repair heritage sculptures and artworks
8	Electricians (15)	ITI / Diploma in Electrical	≥ 3 years	Responsible for electrical infra, lighting, DG sets
9	Plumbers (4)	ITI in Plumbing	≥ 3 years	Responsible for water supply, sewerage, fountains
10	HVAC Technician (1)	ITI / Diploma in Mechanical or HVAC	≥ 3 years	For HVAC systems, chillers (if any)
11	Horticulture Supervisor (1)	B.Sc. Agriculture / Diploma in Horticulture	≥ 5 years	To supervise gardeners, drip irrigation, pond dosing
12	Gardeners (10)	Literate with horticulture training	≥ 1 year	Daily landscaping, pruning, lawn maintenance

SNo	Position	Qualification	Experience	Remarks
13	IT Support Executives (2)	Graduate in IT/Computer Science	≥ 3 years	Responsible for CCTV, PA, digital kiosks, ticketing systems
14	Helpdesk Executives (3)	Graduate, fluent in Hindi & English	≥ 2 years in customer service/front office	For visitor complaint redressal, grievance logging
15	Waste Management Operators (10)	10th pass with SWM training	≥ 2 years	Segregation, disposal, floral waste handling
16	Multiskilled Standby Staff (10)	ITI/Skilled labour	≥ 2 years in civil/ electrical/mechanical works	To be deployed as per emergency requirements

Note: Numbers are indicative. Final deployment plan to be proposed by applicant and approved by Authority. Further, agency shall arrange deployment of Event Support Staff (as needed by SMTMC) temporarily during festivals/events for crowd control, temporary infra support.

11. Manpower Deployment Matrix

The selected agency shall be required to follow deployment matrix given below ensuring 24×7 continuous presence:

SNo	Position	Baseline Deployment (24×7 – in Shifts)	Remarks
1	Project cum Facility Manager	1 (general shift; on-call 24×7)	Overall-in-charge, SPOC with SMTMC/USCL
2	Assistant Facility Managers	3 (1 per shift, zone-wise)	Shift-based, oversee day/night ops
3	Housekeeping Supervisor	1 per shift (3 total per day)	Ensures SLA compliance across temple & corridor
4	Housekeeping Staff	20 total (divided into 3 shifts, ~7 per shift)	Deep cleaning & waste clearance round the clock
5	Security Supervisor	1 per shift (3 total per day)	To coordinate with temple security/police
6	Security Staff	5 total (2 per shift, 1 reliever)	Queue & crowd control (Video surveillance)
7	Sculptors/Helpers	1–2 on day shift	Upkeep of sculptures & artworks
8	Electricians	5 per shift (15 total)	Lighting, power backup, DG ops
9	Plumbers	1–2 per shift (4 total)	Toilets, fountains, STPs
10	HVAC Technician	1 in general shift	For HVAC/air handling systems

SNo	Position	Baseline Deployment (24×7 – in Shifts)	Remarks
		(on-call otherwise)	
11	Horticulture Supervisor	1 (day shift)	Supervises gardeners
12	Gardeners	10 (split across shifts; focus on day/evening)	Lawn, floral décor, pruning
13	IT Support Executives	1 per shift (2–3 total)	CCTV, PA, digital infra
14	Helpdesk Executives	1 per shift (3 total)	Visitor complaints, reporting
15	Waste Management Operators	3 per shift (10 total)	Floral & solid waste segregation/disposal
16	Multiskilled Standby Staff	3 per shift (10 total)	For emergency civil/electrical works
17	Volunteers / Temporary Event Staff	–	To be mobilized during Simhastha, Mahashivratri, Sawari, and other such event in coordination with USCL/SMTMC.

Agency shall be responsible for mobilizing additional resources during the peak/festival days, as and when advised by USCL/SMTMC management.

12. Deployment Timings

(i) The general shift timings at SMTMC are under

- Shift I (06:00 – 14:00)
- Shift II (14:00 – 22:00)
- Shift III (22:00 – 06:00)

However, the selected agency shall be bound to provide continuous service delivery while still being flexible to scale for festivals/events.

(ii) Round-the-Clock Deployment (24×7):

- The Agency shall ensure continuous 24×7 deployment of manpower across all service areas including housekeeping, sanitation, electrical, plumbing, horticulture, IT systems, security support, and complaint redressal.
- Services must remain uninterrupted on all days of the year, including weekends, public holidays, festivals, and mega-events (e.g., Simhastha 2028).

(iii) Shift Arrangements:

- Manpower shall be deployed in minimum three shifts per day (morning, afternoon, night) to ensure balanced workload and uninterrupted coverage.
- Adequate reliever staff must be included in deployment planning to account for weekly offs, leave, and contingencies.

(iv) Supervisory Presence:

- At least one supervisory staff (Housekeeping Supervisor, Technical Supervisor, or Security Supervisor as relevant) shall be physically present in each shift.
- The Project cum Facility Manager or an authorized senior officer shall remain on-call 24×7 for escalation and emergency response.

(v) Festival & Peak Load Scaling:

- During peak festivals, Mahashivratri, Sawari processions, and Simhastha, additional manpower shall be deployed over and above the 24×7 baseline staffing.
- Deployment plans for such occasions must be submitted to and approved by SMTMC/USCL at least 15 days prior to the event.

(vi) Helpdesk & IT Support:

- A 24×7 helpdesk shall be maintained for logging complaints, grievances, and service requests.
- IT & surveillance systems must be monitored continuously from the control room.

(vii) Minimum Continuous Coverage:

- At no point of time shall any critical service area (temple premises, Garbha-Griha precinct, Mahakal Lok corridor, Rudrasagar embankments, toilets, control room) remain unattended.

13. Indicative Equipment List for Mechanized Cleaning, Repair & Maintenance

SNo	Equipment/ Tool	Purpose/ Application	Qty. (Indicative)	Remarks
A. Mechanized Cleaning Equipment				
1	Ride-on Scrubber Driers	Large floor cleaning (corridors, plazas)	2	For Mahakal Lok long stretches
2	Walk-behind Scrubbers	Medium-sized cleaning areas	4	Toilets, cloakrooms, halls
3	High-Pressure Jet Cleaners	Cleaning of sculptures, fountains, pavements	4	For stone & artwork surfaces
4	Industrial Vacuum Cleaners (Wet & Dry)	Dust & debris removal	6	For temple halls & enclosed spaces
5	Mechanical Sweepers (Battery/Manual)	Outdoor sweeping of plazas & approach roads	3	For Rudrasagar frontage & parking
6	Steam Cleaners	Deep cleaning & disinfection	2	For toilets & sensitive areas
7	Fogging / Sanitization Machines	Mosquito/pest control, disinfection	2	As required seasonally

8	Garbage Collection Trolleys (Covered)	Waste transport	15	Manual push + battery operated
9	Battery-Operated E-Carts	Waste & material movement	5	For eco-friendly operations
B. Horticulture Equipment				
10	Ride-on Lawn Mower	Large lawns	1	For Mahakal Lok gardens
11	Walk-behind Lawn Mowers	Smaller lawns & patches	3	Regular trimming
12	Brush Cutters	Bush/grass cutting	5	For Rudrasagar embankments
13	Hedge Trimmers	Shaping hedges	3	Manual & motorized
14	Leaf Blowers	Cleaning dry leaves	3	For daily garden cleaning
15	Sprayers (Manual & Motorized)	Fertilizers, pesticides	6	Routine horticulture
C. Civil & Carpentry Tools				
16	Mini Concrete Mixer	Small repair works	1	For patch works
17	Portable Cutting/Grinding Machines	Tile/stone/civil repairs	4	Multipurpose
18	Scaffolding Sets	Safe access for repairs	2 sets	For murals, sculptures
19	Painting Equipment (Airless Sprayers)	Quick painting & coating	2	Routine painting/refurbishment
D. Electrical & Mechanical Tools				
20	Portable DG Set (for emergencies)	Emergency backup	1	For outages during events
21	Welding Machines	Structural repairs	2	With safety kits
22	Portable Drilling/Cutting Machines	Electrical/civil repairs	4	Multipurpose
23	Cable Testers & Multi-meters	Electrical troubleshooting	5	For electricians
24	Earth Resistance Tester	Safety checks	2	Preventive maintenance
25	Portable Lighting Towers	Event/festival temporary lighting	2	For crowd areas
E. Safety & Emergency Tools				
26	Fire Extinguishers (Spare sets)	Fire safety	20	Refilled periodically
27	First Aid Kits	Staff safety	20	At all critical locations
28	PPE (Helmets, Gloves, Harnesses, Reflective Jackets)	Staff protection	LS	Mandatory

F. IT & Monitoring Equipment				
29	CCTV Cameras (Spare/Replace)	Surveillance	10	To maintain uptime
30	Handheld Communication Sets (Walkie-Talkies)	Coordination	15	For crowd/event days
31	Drones	Crowd monitoring during mega events	2	As per permissions

7.5 Selected Agency's Obligations:

1. The selected Agency shall be solely responsible for the operation, maintenance and management of the Project Facilities, and shall have the overall responsibility and liability with respect to the Project and all assets located upon the Project Site. In no event shall the Authority have any liability or be subject to any claim for damages arising out of the operation, maintenance or management of the Project Facilities located upon the Project Site.

2. The selected Agency shall provide services at project site as per Schedule of Work/ Requirements which may be amended from time to time by the Authority during the Contractual period and it shall always form part and parcel of the Contract. The selected agency shall abide by such assignments, instructions as provided by the Authority from time to time.

3. The selected Agency at its own cost and expense, shall be responsible for the operation, management and maintenance to the satisfaction of the Authority.

4. The selected Agency shall not assign, transfer or subcontract any of its rights and duties under the contract except as provided without the prior approval of the Authority.

5. The selected Agency shall issue identity cards / identification documents to all its employees who will be instructed by the agency to display the same at all times.

6. The selected Agency shall provide services through its uniformed and trained personnel for the performance of its services hereunder and these personnel deployed shall be employees of the selected agency and the Authority shall not in any manner be liable. All statutory liabilities of the deployed personnel shall be paid by the selected agency.

7. The Applicant Agency shall ensure that the quoted price includes compliance with: Minimum wages as per Govt. of Madhya Pradesh; EPF, ESI, Bonus, Gratuity, and other statutory obligations. Any bid found non-compliant with statutory requirements shall be liable for rejection.

8. The selected Agency should pay all wages, allied benefits such as leave, ESI, PF, Gratuity, Bonus etc, and / or additional expenditure whatsoever for personnel

deployed for the project. Further, the selected agency shall comply with & abide by labour laws, laws related to EPF Organization, ESI Corporation, Workmen Compensation Act and / or any other statutory provisions/acts/laws etc. as applicable & amended from time to time. The Authority will not have any liability whatsoever on this account.

9. The selected Agency shall provide for insurance coverage of its personnel for personal accident and/ or death while performing the duty.

10. The selected Agency shall perform the services in a manner compliant with prudent professional practices, Applicable Laws, and applicable procedures and safety requirements.

11. The Authority shall have the right, within reason, to have any personnel removed who is considered to be undesirable or otherwise and similarly the selected agency reserves the right to remove the any personnel with prior intimation to the Authority, emergencies exempted.

12. The selected Agency shall exercise adequate supervision to reasonably ensure proper performance of Services in accordance with requirement of this contract.

13. All necessary reports and other information shall be supplied immediately as required and regular meetings will be held with the Authority.

7.6 Selected Agency's Liability:

1. In case of any theft or damage to any asset in the project premises, the selected agency shall be responsible for the same and the Authority shall not be responsible in any manner whatsoever.

2. The selected agency shall completely indemnify and hold harmless the Authority and its employees against any liability, claims, losses or damages sustained by it or them by reason of any breach of contract, wrongful act or negligence by the selected agency or any of its employees engaged in the provision of the services to the Authority.

3. The selected agency shall not be liable in any way whatsoever and the Authority hereby expressly waives any right to, any loss, injury, damage, cost or expense of whatsoever nature directly or indirectly:

   - Caused by, resulting from or in connection with any Act of Terrorism or any Biological or Chemical Contamination or any Nuclear Risks;
   - Consisting of, caused by, resulting from or in connection with any loss, damage, destruction, distortion, erasure, corruption or alteration of Electronic Data from any cause whatsoever (including but not limited to Computer Virus) unless such loss, damage, destruction, distortion, erasure, corruption or alteration of Electronic Data was due to the negligence or default of the selected agency or any of its employees engaged in the provision of manpower Services to the Authority.

4. The selected agency shall also pay all the license or other fee or taxes, payable to Government, or Municipal or local body concerned in connection with the regulation/ monitoring/ management/ maintenance of the under the contract.

7.7 Authority Obligations:

1. Except as expressly otherwise provided, the Authority shall, at its own expense, provide timely all the required facilities at the location where the Services are to be provided required enabling selected agency's employees to carry out the Services.

2. The Authority shall comply with and fulfill the recommendations (if any), if deemed necessary by the Authority, made in writing by the selected agency in connection with the performance of the Services. The Authority shall notify the selected agency of any dishonest, wrongful or negligent acts or omissions of the selected agency's employees or agents in connection with the Services as soon as possible after the Authority becomes aware of them.

3. To enable the selected agency to provide the services, the Authority shall ensure that their staff is available to provide such assistance.

4. The Authority shall not be under any obligation for providing empanelment to any of the personnel of the selected agency after the expiry of the contract. The Authority does not recognize any employee employers' relationship with any of the workers of the selected agency.

7.8 Indemnity

1. General indemnity

The selected Agency will indemnify, defend, save and hold harmless the Authority and its officers, servants, agents, Government Instrumentalities and Government owned and/or controlled entities/enterprises, (the "Indemnified Persons") against any and all suits, proceedings, actions, demands and claims from third parties for any loss, damage, cost and expense of whatever kind and nature, whether arising out of any breach by the selected agency of any of its obligations under this Agreement or any related agreement or on account of any defect or deficiency in the provision of services by the selected Agency to the Authority or to any User or from any negligence of the selected Agency under contract or tort or on any other ground whatsoever, except to the extent that any such suits, proceedings, actions, demands and claims have arisen due to any negligent act or omission, or breach or default of this Agreement on the part of the Authority Indemnified Persons.

2. Indemnity by the selected Agency

(a) Without limiting the generality of Clause 1, the selected Agency shall fully indemnify, hold harmless and defend the Authority and Authority Indemnified Persons from and against any and all loss and/or damages arising out of or with respect to:

- failure of the selected Agency to comply with Applicable Laws and applicable permits;

- payment of taxes required to be made by the selected Agency in respect of the income or other taxes of the Agency's contractors, suppliers and representatives; or

- non-payment of amounts due as a result of materials or services furnished to the selected Agency or any of its contractors which are payable by the Agency or any of its contractors.

(b) Without limiting the generality of the provisions of this Clause 7.8, the selected Agency shall fully indemnify, hold harmless and defend the Authority Indemnified Persons from and against any and all suits, proceedings, actions, claims, demands, liabilities and damages which the Authority Indemnified Persons may hereafter suffer, or pay by reason of any demands, claims, suits or proceedings arising out of any accidents, consumer complaints, claims by regulatory bodies, claims of employees, union, third party claims, claims of infringement of any domestic or foreign patent rights, copyrights or other intellectual property, proprietary or confidentiality rights with respect to any materials, information, design or process used by the selected Agency or by the Agency's contractors in performing the Agency's obligations or in any way incorporated in or related to the Project. If in any such suit, action, claim or proceedings, a temporary restraint order or preliminary injunction is granted, the selected Agency shall make every reasonable effort, by giving a satisfactory bond or otherwise, to secure the revocation or suspension of the injunction or restraint order. If, in any such suit, action, claim or proceedings, the Project, or any part thereof or comprised therein, is held to constitute an infringement and its use is permanently enjoined, the selected Agency shall promptly make every reasonable effort to secure for the Authority a licence, at no cost to the Authority, authorizing continued use of the infringing work. If the selected Agency is unable to secure such licence within a reasonable time, the selected Agency shall, at its own expense, and without impairing the specifications and standards, either replace the affected work, or part, or process thereof with non-infringing work or part or process, or modify the same so that it becomes non-infringing.

3. Notice and contest of claims

In the event that the Authority or either of the Indemnified Persons receives a claim or demand from a third party in respect of which it is entitled to the benefit of an indemnity under this Clause 7.8 (the "Indemnified Party"), it shall notify the selected Agency (the "Indemnifying Party") within 15 (fifteen) days of receipt of the claim or demand and shall not settle or pay the claim without the prior approval of the Indemnifying Party, which approval shall not be unreasonably withheld or delayed. In the event that the Indemnifying Party wishes to contest or dispute the claim or demand, it may conduct the proceedings in the name of the Indemnified Party, subject to the Indemnified Party being secured against any costs involved, to its reasonable satisfaction.

4. No consequential claims

Notwithstanding anything to the contrary contained in this Agreement, in no event shall any Party, its officers, employees or agents be liable to indemnify the other Party for any matter arising out of or in connection with this Agreement in respect of any indirect or consequential loss, including loss of profit, suffered by such other Party.

7.9 Validity of Contract

1. The contract, if awarded, shall be for a period of 5 (five) years from the date of date of signing of the Agreement subject to continuous satisfactory performance. In case of breach of Contract or in the event of not fulfilling the minimum requirements / statutory requirements, the Authority shall have the right to terminate the contract by giving a notice of 30 days in addition to forfeiting the performance security amount deposited by the selected bidder and initiating administrative actions for blacklisting etc. solely at the discretion of the Authority.

2. The Concession Period can be further extended based on mutually agreed terms between the Authority and the selected Agency.

SCHEDULE–2

(See Clause 2.13)

CONTRACT FOR AGENCY'S SERVICES

Selection of Agency for

Facility management, Operation & Comprehensive Maintenance of all Infrastructure and Services at Shri Mahakaleshwar Temple, Mahakal Lok and Precinct

Contract No._____

between

Ujjain Smart City Limited

and

_____

[Name of the Agency]

Dated: _____

AGREEMENT

This AGREEMENT (hereinafter called the "Agreement") is made on the ..... day of the month of ..... 2026..., between, on the one hand, the [President of India acting through .....] (hereinafter called the "Authority" which expression shall include their respective successors and permitted assigns, unless the context otherwise requires) and, on the other hand, ... (hereinafter called the "Agency" which expression shall include their respective successors and permitted assigns).

WHEREAS

(A) The Authority vide its Request for Proposal for Appointment of Agency for *Facility management, Operation & Comprehensive Maintenance of all Infrastructure and Services at Shri Mahakaleshwar Temple, Mahakal Lok and Precinct* (hereinafter called the "Project/Service") for the Ujjain Smart City Limited (USCL);

(B) the Agency submitted its proposal for the aforesaid work, whereby the Agency represented to the Authority that it had the required professional skills, and in the said proposal the Agency also agreed to provide the Services to the Authority on the terms and conditions as set forth in the RFP and this Agreement; and

(C) the Authority, on acceptance of the aforesaid proposals of the Agency, awarded the Work to the Agency vide its Letter of Award dated ..... (the "LOA"); and

(D) in pursuance of the LOA, the parties have agreed to enter into this Agreement.

NOW, THEREFORE, the parties hereto hereby agree as follows:

8. GENERAL

8.1 Definitions and Interpretation

1. The words and expressions beginning with capital letters and defined in this Agreement shall, unless the context otherwise requires, have the meaning hereinafter respectively assigned to them:

   (a) "Agreement" means this Agreement, together with all the Annexes;

   (b) "Applicable Laws" means the laws and any other instruments having the force of law in India as they may be issued and in force from time to time;

   (c) "Confidential Information" shall have the meaning set forth in Clause 10.3;

(d) "Conflict of Interest" shall have the meaning set forth in Clause 10.2 read with the provisions of RFP;

(e) "Dispute" shall have the meaning set forth in Clause 16.21;

(f) "Effective Date" means the date on which this Agreement comes into force and effect pursuant to Clause 9.1;

(g) "Government" means the Government of M.P.

(h) "INR, Re. or Rs." means Indian Rupees;

(i) "Party" means the Authority or the selected Agency, as the case may be, and Parties means both of them;

(j) "Personnel" means persons hired by the selected Agency or by any Sub-Agency as employees and assigned to the performance of the Services or any part thereof;

(k) "RFP" means the Request for Proposal document in response to which the Agency's proposal for providing Services was accepted;

(l) "Services" means the work to be performed by the Agency pursuant to this Agreement, as described in the Terms of Reference hereto;

(m) "Third Party" means any person or entity other than the Government, the Authority, the Agency or the Institute/Organization.

All terms and words not defined herein shall, unless the context otherwise requires, have the meaning assigned to them in the RFP.

2. The following documents along with all addenda issued thereto shall be deemed to form and be read and construed as integral parts of this Agreement and in case of any contradiction between or among them the priority in which a document would prevail over another would be as laid down below beginning from the highest priority to the lowest priority:

(a) Agreement;

(b) Annexes of Agreement;

(c) RFP; and

(d) Letter of Acceptance and Letter of Award/Work Order.

8.2 Relation between the Parties

Nothing contained herein shall be construed as establishing a relation of master and servant or of agent and principal as between the Authority and the Agency.

The Agency shall, subject to this Agreement, have complete charge of Personnel performing the Services and shall be fully responsible for the Services performed by them or on their behalf hereunder.

8.3 Rights and obligations

The mutual rights and obligations of the Authority and the Agency shall be as set forth in the Agreement, in particular:

(a) the Agency shall carry out the Services in accordance with the provisions of the Agreement; and

(b) the Authority shall make available the project land to the Agency in accordance with the provisions of the Agreement.

8.4 Governing law and jurisdiction

This Agreement shall be construed and interpreted in accordance with and governed by the laws of India, and the courts in the State in which the Authority has its headquarters shall have exclusive jurisdiction over matters arising out of or relating to this Agreement.

8.5 Language

All notices required to be given by one Party to the other Party and all other communications, documentation and proceedings which are in any way relevant to this Agreement shall be in writing and in English language.

8.6 Table of contents and headings

The table of contents, headings or sub-headings in this Agreement are for convenience of reference only and shall not be used in, and shall not affect, the construction or interpretation of this Agreement.

8.7 Notices

Any notice or other communication to be given by any Party to the other Party under or in connection with the matters contemplated by this Agreement shall be in writing and shall:

(a) in the case of the Agency, be given by e-mail and by letter delivered by hand to the address given and marked for attention of the Agency's Representative set out below in Clause 8.9 or to such other person as the Agency may from time to time designate by notice to the Authority; provided that notices or other communications to be given to an address outside the city specified in Sub-clause (b) below may, if they are subsequently confirmed by sending a copy thereof by registered acknowledgement due, air mail or by courier, be sent by e-mail to the

number as the Agency may from time to time specify by notice to the Authority;

(b) in the case of the Authority, be given by e-mail and by letter delivered by hand and be addressed to the Authority with a copy delivered to the Authority Representative set out below in Clause 8.9 or to such other person as the Authority may from time to time designate by notice to the Agency; provided that if the Agency does not have an office in the same city as the Authority's office, it may send such notice by e-mail and by registered acknowledgement due, air mail or by courier; and

(c) any notice or communication by a Party to the other Party, given in accordance herewith, shall be deemed to have been delivered when in the normal course of post is ought to have been delivered and in all other cases, it shall be deemed to have been delivered on the actual date and time of delivery; provided that in the case of e-mail, it shall be deemed to have been delivered on the working days following the date of its delivery.

8.8 Location

The Services shall be performed at the site of the Project in accordance with the provisions of RFP and at such locations as are incidental thereto, including the offices of the Agency.

8.9 Authorised Representatives

1. Any action required or permitted to be taken, and any document required or permitted to be executed, under this Agreement by the Authority or the Agency, as the case may be, may be taken or executed by the officials specified in this Clause 8.9.

2. The Authority may, from time to time, designate one of its officials as the Authority Representative. Unless otherwise notified, the Authority Representative shall be:

.....

.....

Tel: .....

Mobile: .....

Email: .....

3. The Agency may designate one of its employees as Agency's Representative. Unless otherwise notified, the Agency's Representative shall be:

.....

.....

Tel: .....

Mobile: .....

Email: .....

8.10 Taxes and duties

Unless otherwise specified in the Agreement, the Agency shall pay all the license or other fee or taxes, payable to Government, or Municipal or local body concerned in connection with the operation / management / maintenance of the facility and performance of services under the contract.

9. COMMENCEMENT, COMPLETION AND TERMINATION OF AGREEMENT

9.1 Effectiveness of Agreement

This Agreement shall come into force and effect on the date of this Agreement (the "Effective Date").

9.2 Commencement of Services

The Agency shall commence the Services within a period of 7 (seven) days from the Effective Date, unless otherwise agreed by the Parties.

9.3 Termination of Agreement for failure to commence Services

If the Agency does not commence the Services within the period specified in Clause 9.2 above, the Authority may, by not less than 1 (one) week's notice to the Agency, declare this Agreement to be null and void, and in the event of such a declaration, the Bid Security of the Agency shall stand forfeited.

9.4 Expiry of Agreement

Unless terminated earlier pursuant to Clauses 9.3 or 9.9 hereof, this Agreement shall, unless extended by the Parties by mutual consent, expire upon expiry of 5 (five) year from the Effective Date.

9.5 Entire Agreement

1. This Agreement and the Annexes together constitute a complete and exclusive statement of the terms of the agreement between the Parties on the subject hereof, and no amendment or modification hereto shall be valid and effective unless such modification or amendment is agreed to in writing by the Parties and duly executed by persons especially empowered in this behalf by the respective Parties. All prior written or oral understandings, offers or other communications of every kind pertaining to this Agreement are abrogated and

withdrawn; provided, however, that the obligations of the Agency arising out of the provisions of the RFP shall continue to subsist and shall be deemed to form part of this Agreement.

2. Without prejudice to the generality of the provisions of Clause 1, on matters not covered by this Agreement, the provisions of RFP shall apply.

9.6 Modification of Agreement

Modification of the terms and conditions of this Agreement, including any modification of the scope of the Services, may only be made by written agreement between the Parties. Each Party shall give due consideration to any proposals for modification made by the other Party.

9.7 Force Majeure

1. Definition

(a) For the purposes of this Agreement, "Force Majeure" means an event which is beyond the reasonable control of a Party, and which makes a Party's performance of its obligations hereunder impossible or so impractical as reasonably to be considered impossible in the circumstances, and includes, but is not limited to, war, riots, civil disorder, earthquake, fire, explosion, storm, flood or other adverse weather conditions, strikes, lockouts or other industrial action (except where such strikes, lockouts or other industrial action are within the power of the Party invoking Force Majeure to prevent), confiscation or any other action by government agencies.

(b) Force Majeure shall not include (i) any event which is caused by the negligence or intentional action of a Party or such Party's Sub-Contractor or agents or employees, nor (ii) any event which a diligent Party could reasonably have been expected to both (A) take into account at the time of the conclusion of this Agreement, and (B) avoid or overcome in the carrying out of its obligations hereunder.

(c) Force Majeure shall not include insufficiency of funds or failure to make any payment required hereunder.

2. No breach of Agreement

The failure of a Party to fulfil any of its obligations hereunder shall not be considered to be a breach of, or default under this Agreement insofar as such inability arises from an event of Force Majeure, provided that the Party affected by such an event has taken all reasonable precautions, due care and reasonable alternative measures, all with the objective of carrying out the terms and conditions of this Agreement.

3. Measures to be taken

(a) A Party affected by an event of Force Majeure shall take all reasonable measures to remove such Party's inability to fulfil its obligations hereunder with a minimum of delay.

(b) A Party affected by an event of Force Majeure shall notify the other Party of such event as soon as possible, and in any event not later than 14 (fourteen) days following the occurrence of such event, providing evidence of the nature and cause of such event, and shall similarly give notice of the restoration of normal conditions as soon as possible.

(c) The Parties shall take all reasonable measures to minimise the consequences of any event of Force Majeure.

4. Extension of time

Any period within which a Party shall, pursuant to this Agreement, complete any action or task, shall be extended for a period equal to the time during which such Party was unable to perform such action as a result of Force Majeure.

5. Payments

During the period of its inability to perform the Services as a result of an event of Force Majeure, the Agency shall be entitled to be get extension of time without cost consideration.

6. Consultation

Not later than 14 (fourteen) days after the Agency has, as the result of an event of Force Majeure, become unable to perform a material portion of the Services, the Parties shall consult with each other with a view to agreeing on appropriate measures to be taken in the circumstances.

9.8 Suspension of Agreement

The Authority may, by written notice of suspension to the Agency, suspend all/partial rights to the Agency hereunder if the Agency shall be in breach of this Agreement or shall fail to perform any of its obligations under this Agreement, including the carrying out of the Services; provided that such notice of suspension (i) shall specify the nature of the breach or failure, and (ii) shall provide an opportunity to the Agency to remedy such breach or failure within a period not exceeding 14 (fourteen) days after receipt of such notice of suspension by the Agency.

9.9 Termination of Agreement

1. By the Authority

The Authority may, by not less than 14 (fourteen) days' written notice of termination to the Agency, such notice to be given after the occurrence of any of the events specified in this Clause 1, terminate this Agreement if:

(a) The Agency or its personnel/ representative/ affiliate takes any action which leads to or which has the potential to adversely affect the reputation or goodwill of the Authority, its affiliates, associates, promoters, directors and key personnel shall lead to immediate termination;

(b) the Agency fails to remedy any breach hereof or any failure in the performance of its obligations hereunder, as specified in a notice of suspension pursuant to Clause 9.8 hereinabove, within 14 (fourteen) days of receipt of such notice of suspension or within such further period as the Authority may have subsequently granted in writing;

(c) the Agency becomes insolvent or bankrupt or enters into any agreement with its creditors for relief of debt or take advantage of any law for the benefit of debtors or goes into liquidation or receivership whether compulsory or voluntary;

(d) the Agency fails to comply with any final decision reached as a result of arbitration proceedings pursuant to Clause 16 hereof;

(e) the Agency submits to the Authority a statement which has a material effect on the rights, obligations or interests of the Authority and which the Agency knows to be false;

(f) any document, information, data or statement submitted by the Agency in its Proposals, based on which the Agency was considered eligible or successful, is found to be false, incorrect or misleading;

(g) as the result of Force Majeure, the Agency is unable to perform a material portion of the Services for a period of not less than 30 (thirty) days;

(h) notwithstanding anything mentioned herein above, if the contract is terminated due to following acts of the selected Agency, the selected Agency shall not be entitled to any claim, damages, compensation or any other consideration whatsoever:

- the selected Agency is charging any visitor for services stipulated in the terms and conditions prescribed herein.
- any misuse of the premises for other than intended usage.
- any criminal activity is carried out or allowed to be carried out from the project premises as may be determined solely by the authorized representative of the Authority.
- deployment of child labour, person having age more than 60 years & person with criminal background.

(i) The selected Agency abandons the operations of the Project Facilities for any period.

(j) Regular operation of the Project Facilities does not occur within a period of 45 days (Forty-Five Days) from the issue of LOA.

(k) The selected Agency creates any encumbrance, charges or lien in favour of any person.

(l) the selected Agency does not provide services satisfactorily as per the requirements of the Authority or / and as per the terms and conditions of contract. In that case nothing will be payable by the Authority and in that event, the security deposit in the form of performance Bank Guarantee / FDR shall be forfeited and encashed.

(m) the Authority, in its sole discretion and for any reason whatsoever, decides to terminate this Agreement.

Upon termination or conclusion of contract period, no services shall be allowed to be operated by the Agency. Failure to which, the proportionate amount will be deducted/ recovered from the Performance Security Deposit of the Agency till the date of making the project premises completely vacated by the Agency and handing over the possession to the Authority.

2. By the Agency

The Agency may, by not less than 14 (fourteen) days' written notice to the Authority, such notice to be given after the occurrence of any of the events specified in this Clause 2, terminate this Agreement if:

(a) the Authority is in material breach of its obligations pursuant to this Agreement and has not remedied the same within 30 (thirty) days (or such longer period as the Agency may have subsequently granted in writing) following the receipt by the Authority of the Agency's notice specifying such breach;

(b) as the result of Force Majeure, the Agency is unable to perform a material portion of the Services for a period of not less than 30 (thirty) days; or

(c) the Authority fails to comply with any final decision reached as a result of arbitration pursuant to Clause 16 hereof.

3. Cessation of rights and obligations

Upon termination of this Agreement pursuant to Clauses 9.3 or 9.9 hereof, or upon expiration of this Agreement pursuant to Clause 9.4 hereof, all rights and obligations of the Parties hereunder shall cease, except (i) such rights and obligations as may have accrued on the date of termination or expiration, or

which expressly survive such Termination; (ii) the obligation of confidentiality set forth in Clause 10.3 hereof; (iii) the Agency's obligation to permit inspection, copying and auditing of such of its accounts and records set forth in Clause 10.6, as relate to the Agency's Services provided under this Agreement; and (iv) any right or remedy which a Party may have under this Agreement or the Applicable Law.

4. Cessation of Services

Upon termination of this Agreement by notice of either Party to the other pursuant to Clauses 1 or 2 hereof, the Agency shall, immediately upon dispatch or receipt of such notice, take all necessary steps to bring the Services to a close in a prompt and orderly manner and shall make every reasonable effort to keep expenditures for this purpose to a minimum. With respect to build structures, equipment's and materials furnished by the Authority, the Agency shall proceed as provided by Clauses 10.10 hereof.

5. Payment upon Termination

There shall be no termination payment from one Party to the Other and each Party shall bear its own cost on termination of this Agreement.

6. Disputes about Events of Termination

If either Party disputes whether an event specified in Clause 1 or in Clause 2 hereof has occurred, such Party may, within 30 (thirty) days after receipt of notice of termination from the other Party, refer the matter to arbitration pursuant to Clause 16 hereof, and this Agreement shall not be terminated on account of such event except in accordance with the terms of any resulting arbitral award.

10. OBLIGATIONS OF THE AGENCY

10.1 General

1. Standards of Performance

The Agency shall perform the Services and carry out its obligations hereunder with all due diligence, efficiency and economy, in accordance with generally accepted professional techniques and practices, and shall observe sound management practices, and employ appropriate advanced technology and safe and effective equipment, machinery, materials and methods. The Agency shall always act, in respect of any matter relating to this Agreement or to the Services, as a faithful service provider / adviser to the Authority, and shall at all times support and safeguard the Authority's legitimate interests in any dealings with Sub-agencies or Third Parties.

2. Terms of Reference

The scope of services to be performed by the Agency is specified in the Terms of Reference (the "TOR") at Annex-1 of this Agreement. The Agency shall provide the Services specified therein in totality and as per best industry practices.

3. Applicable Laws

The Agency shall perform the Services in accordance with the Applicable Laws and shall take all practicable steps to ensure that any Sub-Agency, as well as the Employees, Personnel and agents of the Agency and any Sub-Agencies, comply with the Applicable Laws.

10.2 Conflict of Interest

1. The Agency shall not have a Conflict of Interest and any breach hereof shall constitute a breach of the Agreement.

2. Agency and Affiliates not to be otherwise interested in the Project

The Agency agrees that, during the term of this Agreement and after its termination, the Agency or any Associate thereof and any entity affiliated with the Agency, as well as any Sub-Agency and any entity affiliated with such Sub-Agency, shall be disqualified from providing goods, works or services for any project resulting from or closely related to the Services and any breach of this obligation shall amount to a Conflict of Interest; provided that the restriction herein shall not apply after a period of five years from the completion of this assignment; provided further that this restriction shall not apply to services provided to the Authority in continuation of this services or to any subsequent services provided to the Authority in accordance with the rules of the Authority. For the avoidance of doubt, an entity affiliated with the Agency shall include a partner in the Agency's firm or a person who holds more than 5% (five per cent) of the subscribed and paid up share capital of the Agency, as the case may be, and any Associate thereof.

3. Prohibition of conflicting activities

Neither the Agency nor its Sub-Agency nor the Personnel of either of them shall engage, either directly or indirectly, in any of the following activities:

(a) during the term of this Agreement, any business or professional activities which would conflict with the activities assigned to them under this Agreement;

(b) after the termination of this Agreement, such other activities as may be specified in the Agreement; or

(c) at any time, such other activities as have been specified in the RFP as Conflict of Interest.

4. Agency not to benefit from commissions, discounts, etc.

The income earned from the charges levied by Authority (or SMTMC) at the project site shall constitute the Agency's sole remuneration in connection with this Agreement or the Services and the Agency shall not accept for its own benefit any trade commission, discount or similar payment in connection with activities pursuant to this Agreement or to the Services or in the discharge of its obligations hereunder, and the Agency shall use its best efforts to ensure that any Sub-Agency, as well as the Personnel and agents of either of them, similarly shall not receive any such additional remuneration.

5. The Agency and its Personnel shall observe the highest standards of ethics and shall not have engaged in and shall not hereafter engage in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice (collectively the "Prohibited Practices"). Notwithstanding anything to the contrary contained in this Agreement, the Authority shall be entitled to terminate this Agreement forthwith by a communication in writing to the Agency, without being liable in any manner whatsoever to the Agency, if it determines that the Agency has, directly or indirectly or through an agent, engaged in any Prohibited Practices in the Selection Process or before or after entering into of this Agreement. In such an event, the Authority shall forfeit and appropriate the performance security, if any, as mutually agreed genuine pre-estimated compensation and damages payable to the Authority towards, inter alia, the time, cost and effort of the Authority, without prejudice to the Authority's any other rights or remedy hereunder or in law.

6. Without prejudice to the rights of the Authority under Clause 5 above and the other rights and remedies which the Authority may have under this Agreement, if the Agency is found by the Authority to have directly or indirectly or through an agent, engaged or indulged in any Prohibited Practices, during the Selection Process or before or after the execution of this Agreement, the Agency shall not be eligible to participate in any tender or RFP issued during a period of 2 (two) years from the date the Agency is found by the Authority to have directly or indirectly or through an agent, engaged or indulged in any Prohibited Practices.

7. For the purposes of Clauses 5 and 6, the following terms shall have the meaning hereinafter respectively assigned to them:

(a) "corrupt practice" means (i) the offering, giving, receiving or soliciting, directly or indirectly, of anything of value to influence the actions of any person connected with the Selection Process (for removal of doubt, offering of employment or employing or engaging in any manner whatsoever, directly or indirectly, any official of the Authority who is or has been associated in any manner, directly or indirectly with Selection Process or LOA or dealing with matters concerning the Agreement before or after the execution thereof, at any time prior to the expiry of one year from the date such official resigns or retires from or otherwise

ceases to be in the service of the Authority, shall be deemed to constitute influencing the actions of a person connected with the Selection Process; or (ii) engaging in any manner whatsoever, whether during the Selection Process or after the issue of LOA or after the execution of the Agreement, as the case may be, any person in respect of any matter relating to the Project or the LOA or the Agreement, who at any time has been or is a legal, financial or technical adviser to the Authority in relation to any matter concerning the Project;

(b) "fraudulent practice" means a misrepresentation or omission of facts or suppression of facts or disclosure of incomplete facts, in order to influence the Selection Process;

(c) "coercive practice" means impairing or harming, or threatening to impair or harm, directly or indirectly, any person or property to influence any person's participation or action in the Selection Process or the exercise of its rights or performance of its obligations by the Authority under this Agreement;

(d) "undesirable practice" means (i) establishing contact with any person connected with or employed or engaged by the Authority with the objective of canvassing, lobbying or in any manner influencing or attempting to influence the Selection Process; or (ii) having a Conflict of Interest; and

(e) "restrictive practice" means forming a cartel or arriving at any understanding or arrangement among Applicants with the objective of restricting or manipulating a full and fair competition in the Selection Process.

10.3 Confidentiality

The Agency and its Personnel, either during the term or within two years after the expiration or termination of this Agreement disclose any proprietary information, including information relating to reports, data, drawings, design software or other material, whether written or oral, in electronic or magnetic format, and the contents thereof; and any reports, digests or summaries created or derived from any of the foregoing that is provided by the Authority to the Agency and its Personnel; any information provided by or relating to the Authority, its technology, technical processes, business affairs or finances or any information relating to the Authority's employees, officers or other professionals or suppliers, customers, or contractors of the Authority; and any other information which the Agency is under an obligation to keep confidential in relation to the Project, the Services or this Agreement ("Confidential Information"), without the prior written consent of the Authority.

Notwithstanding the aforesaid, the Agency and its Personnel may disclose Confidential Information to the extent that such Confidential Information:

(i) was in the public domain prior to its delivery to the Agency and its Personnel or becomes a part of the public knowledge from a source other than the Agency and its Personnel;

(ii) was obtained from a third party with no known duty to maintain its confidentiality;

(iii) is required to be disclosed by Applicable Laws or judicial or administrative or arbitral process or by any governmental instrumentalities, provided that for any such disclosure, the Agency and its Personnel shall give the Authority, prompt written notice, and use reasonable efforts to ensure that such disclosure is accorded confidential treatment; and

(iv) is provided to the professional advisers, agents, auditors or representatives of the Agency and its Personnel, as is reasonable under the circumstances; provided, however, that the Agency and its Personnel, shall require their professional advisers, agents, auditors or its representatives, to undertake in writing to keep such Confidential Information, confidential and shall use its best efforts to ensure compliance with such undertaking.

10.4 Liability of the Agency

1. The Agency's liability under this Agreement shall be determined by the Applicable Laws and the provisions hereof.

2. The selected Agency shall be liable in case of any theft or damage to any asset in the project premises. The Authority shall not be responsible for any such incidence in any manner whatsoever.

3. The selected Agency shall be liable to pay for all the license or other fee or taxes, payable to Government, or Municipal or local body concerned in connection with the operation / management / maintenance of services under the contract.

4. The selected agency shall completely indemnify and hold harmless the Authority and its employees against any liability, claims, losses or damages sustained by it or them by reason of any breach of contract, wrongful act or negligence by the selected agency or any of its employees engaged in the provision of the services to the Authority.

5. The selected Agency shall not be liable in any way whatsoever and the Authority hereby expressly waives any right to, any loss, injury, damage, cost or expense of whatsoever nature directly or indirectly:

   - Caused by, resulting from or in connection with any Act of Terrorism or any Biological or Chemical Contamination or any Nuclear Risks;
   - Consisting of, caused by, resulting from or in connection with any loss, damage, destruction, distortion, erasure, corruption or alteration of Electronic Data from any cause whatsoever (including but not limited to

Computer Virus) unless such loss, damage, destruction, distortion, erasure, corruption or alteration of Electronic Data was due to the negligence or default of the selected agency or any of its employees engaged in the provision of manpower Services to the Authority.

6. The selected Agency shall be solely responsible for the operation, maintenance and management of the Project Site and Project Facilities, and shall have the overall responsibility and liability with respect to the Project and all assets located upon the Project Site. In no event shall the Authority have any liability or be subject to any claim for damages arising out of the operation, maintenance or management of the Project Facilities located upon the Project Site.

7. Notwithstanding anything to the contrary contained in this Agreement, in no event shall any Party, its officers, employees or agents be liable to indemnify the other Party for any matter arising out of or in connection with this Agreement in respect of any indirect or consequential loss, including loss of profit, suffered by such other Party.

10.5 Insurance to be taken out by the Agency

1. Insurance

(a) The selected Agency shall effect and maintain at its own cost such insurances for such maximum sums as may be required under the Applicable Laws, and such insurances as may be necessary or prudent in accordance with Good Industry Practice or may be desired as feasible by the Authority. The selected Agency shall also effect and maintain such insurances as may be necessary for mitigating the risks that may devolve on the Authority as a consequence of any act or omission of the selected Agency during the Term. The selected Agency shall procure that in each insurance policy, the Authority shall be a co-insured and that the insurer shall pay the proceeds of insurance to the Authority.

(b) Insurance during Operation Period - Prior to the Appointed Date, the selected Agency shall obtain and maintain at no cost to the Authority in respect of the Project Facilities and its operations such insurance as may be required under the Applicable Laws and such insurance as the selected Agency may reasonably consider necessary or desirable in accordance with Good Industry Practice or may be desired as feasible by the Authority. The selected Agency shall procure that in each insurance policy, the Authority shall be a co-insured and that the insurer shall pay the proceeds of insurance to the Authority. For the sake of brevity, the aggregate of the maximum sums insured under the insurance taken out by the selected Agency pursuant to this Clause 10.5 are herein referred to as the "Insurance Cover".

2. Insurance Cover

The selected Agency shall, during the Term, procure and maintain Insurance Cover including but not limited to the following:

(a) loss, damage or destruction of the Project Facilities, including assets in the project premises handed over by the Authority to the selected Agency, at replacement value;

(b) loss, damage or destruction of the Project Facilities against theft, loss, fire, accidents and natural disasters like flood, earthquakes, etc. at replacement value;

(c) comprehensive third-party liability insurance / public liability insurance including injury to or death of personnel of the Authority or others caused by the Project Facilities;

(d) the selected Agency's general liability arising out of this Agreement;

(e) liability to third parties for goods or property damage;

(f) workmen's compensation insurance; and

(g) any other insurance that may be necessary to protect the selected Agency and its employees, including all Force Majeure Events that are insurable at commercially reasonable premiums and not otherwise covered in 2 (a) to (f) above or as may be required by the Authority.

3. Evidence of Insurance Cover

All insurances obtained by the selected Agency in accordance with this Clause 10.5 shall be maintained with insurers on terms consistent with Good Industry Practice. The selected Agency shall furnish to the Authority, notarized true copies of the certificate(s) of insurance, copies of insurance policies and premium payment receipts in respect of such insurance, within 7 (seven) days of receiving any insurance policy certificate and no such insurance shall be cancelled, modified, or allowed to expire or lapse until the expiration.

4. Remedy for failure to insure

If the selected Agency fails to effect and keep in force all insurances for which it is responsible pursuant hereto, entire responsibility shall be that of the selected Agency in case of any consequence. Authority shall have the option to either keep in force any such insurance and pay such premium and recover the costs thereof from the selected Agency as an acknowledged debt.

5. Waiver of subrogation

All insurance policies in respect of the insurance obtained by the selected Agency shall include a waiver of any and all rights of subrogation or recovery of the insurers thereunder against, inter alia, the Authority, and its assigns, successors, undertakings

and their subsidiaries, affiliates, employees, insurers and underwriters, and of any right of the insurers to any set-off or counterclaim or any other deduction, whether by attachment or otherwise, in respect of any liability of any such person insured under any such policy or in any way connected with any loss, liability or obligation covered by such policies of insurance.

6. Application of insurance proceeds

The proceeds from all insurance claims, except life and injury, shall be paid to the Authority by credit to the Authority's Account and it shall apply such proceeds for any necessary repair, reconstruction, reinstatement, replacement, improvement or delivery of the Project Facilities. It is hereby clarified that such repairs, reconstruction, replacements etc. shall be carried out by the selected Agency and the necessary expenses shall be paid/reimbursed to the selected Agency by the Authority for such expenditures, on actuals or upto the amount received by the Authority against any insurance claim, whichever is lower.

10.6 Accounting, inspection, and auditing

The Agency shall:

(a) keep accurate and systematic accounts and records in respect of the Services provided under this Agreement, in accordance with internationally accepted accounting principles and in such form and detail as will clearly identify all relevant time charges and cost, and the basis thereof (including the basis of the Agency's costs and charges); and

(b) permit the Authority or its designated representative periodically, and up to one year from the expiration or termination of this Agreement, to inspect the same and make copies thereof as well as to have them audited by auditors appointed by the Authority.

10.7 Agency's actions requiring the Authority's prior approval

The Agency shall obtain the Authority's prior approval in writing before taking any of the following actions:

(a) deploying any personnel's, manager & nodal officer etc. at the project site for day-to-day operation and management of the facility/project site..

(b) entering into a subcontract for the performance of any part of the Services, it being understood (i) that the selection of the Sub-Agency and the terms and conditions of the subcontract shall have been approved in writing by the Authority prior to the execution of the subcontract, and (ii) that the Agency shall remain fully liable for the performance of the Services by the Sub-Agency and its Personnel pursuant to this Agreement; or

(c) any other action that is specified in this Agreement.

10.8 Reporting obligations

The Agency shall submit to the Authority the reports and documents specified in the Agreement, in the form, in the numbers and within the time periods set forth therein.

10.9 Equipment's installed, Machinery Deployed and Documents prepared by the Agency to be property of the Authority

1. All equipment's installed and machinery deployed at project site as stated under the scope of the work of the Agency along with the data, reports and other documents (collectively referred to as "Service Documents") collected / prepared by the Agency in performing the Services shall become and remain the property of the Authority, and all intellectual property rights in such software's developed and Service Documents prepared shall vest with the Authority. Any equipment installed, software developed and Service Document prepared, of which the ownership or the intellectual property rights do not vest with the Authority under law, shall automatically stand assigned to the Authority as and when such equipment is installed, software is developed and Service Document is created and the Agency agrees to execute all papers and to perform such other acts as the Authority may deem necessary to secure its rights herein assigned by the Agency.

2. The Agency shall, not later than termination or expiration of this Agreement, deliver all equipment's, software's and Service Documents to the Authority, together with a detailed inventory thereof. The Agency may retain a copy of such software and Service Documents. The Agency shall not use these software's and Service Documents for purposes unrelated to this Agreement without the prior written approval of the Authority.

3. The Agency shall hold the Authority harmless and indemnified for any losses, claims, damages, expenses (including all legal expenses), awards, penalties or injuries (collectively referred to as 'Claims') which may arise from or due to any unauthorised use of such equipment's, software's and Service Documents, or due to any breach or failure on part of the Agency or its Sub-Agencies or a Third Party to perform any of its duties or obligations in relation to securing the aforementioned rights of the Authority.

10.10 Equipment and materials furnished by the Authority

Equipment and materials made available to the Agency by the Authority shall be the property of the Authority and shall be marked accordingly. Upon termination or expiration of this Agreement, the Agency shall furnish forthwith to the Authority, an inventory of such equipment and materials and shall dispose of such equipment and materials in accordance with the instructions of the Authority. While in possession of such equipment and materials, the Agency

shall, unless otherwise instructed by the Authority in writing, insure them in an amount equal to their full replacement value.

10.11 Providing access to Project Office and Personnel

The Agency shall ensure that the Authority, and officials of the Authority having authority from the Authority, are provided unrestricted access to the Project Office and to all Personnel during operational hours. The Authority's official, who has been authorised by the Authority in this behalf, shall have the right to inspect the Services in progress, interact with Personnel of the Agency and verify the records relating to the Services for their satisfaction.

10.12 Accuracy of Documents

The Agency shall be responsible for accuracy of the software developed and data collected by it directly or procured from other agencies/authorities, reports, other documents and all other details prepared by it as part of these services. Subject to the provisions of Clause 10.4, it shall indemnify the Authority against any deficiency in its work which might surface during course of the services, if such deficiency is the result of any negligence or inadequate due diligence on part of the Agency or arises out of its failure to conform to good industry practice. The Agency shall also be responsible for promptly correcting the same at its own cost and risk.

11. AGENCY'S PERSONNEL AND SUB-AGENCY

11.1 General

The Agency shall employ and provide such experienced Personnel as may be required to carry out the Services.

11.2 Deployment of Personnel

1. The agency shall provide the names, designation, address, contact detail etc. of all its personnel before deployment at project site for day-to-day operation and management of the services.

2. The agency should note that any manpower deployed at the project site should not have any criminal case registered against their name. A certificate in this regard shall be submitted by the selected agency before deployment of any manpower on ground.

3. Additionally, the agency should not deploy following persons on work:
   - Any minor person (Child labour)
   - any person having age of more than 60 years

4. If additional work is required beyond the scope of the Services specified in the Terms of Reference, the engagement of Personnel, may be increased by

agreement in writing between the Authority and the Agency, provided that any such increase shall not, except as otherwise agreed, cause payments under this Agreement shall be as per the existing terms and conditions.

11.3 Approval of Personnel

1. After submission of list of manpower to be deployed at the project site by the Agency to the Authority with required details as mentioned in Clause 11.2 above, the Authority may approve or reject such proposal within 07 (seven) days of receipt thereof, along with a note for rejection. In case the proposal is rejected, the Agency may propose an alternative person for the Authority's consideration. In the event the Authority does not reject a proposal within 07 (seven) days of the date of receipt thereof under this Clause 11.3, it shall be deemed to have been approved by the Authority.

11.4 Substitution of Personnel

The Authority shall have the right to remove any person who is considered to be undesirable or otherwise and similarly the successful bidder reserves the right to remove the personnel with prior permission of the Authority.

11.5 Working hours, overtime, leave, etc.

In general, 24x7 365 working in shifts will be required. Agency shall keep resources on rotation basis with sufficient relievers. Agency shall take care of overtime, leave, etc. as per industry norms and applicable labour laws.

12. OBLIGATIONS OF THE AUTHORITY

12.1 Assistance in clearances etc.

Unless otherwise specified in the Agreement, the Authority shall make best efforts to ensure that the Government shall:

(a) provide the Agency and its Personnel with work permits and such other documents as may be necessary to enable the Agency or its Personnel to perform the Services;

(b) facilitate prompt clearance of any property required for the Services; and

(c) issue to officials, agents and representatives of the Government all such instructions as may be necessary or appropriate for the prompt and effective implementation of the Services.

12.2 Access to land and property

The Authority warrants that the Agency shall have, free of charge, unimpeded access to the site of the project in respect of which access is required for the

performance of Services; provided that if such access shall not be made available to the Agency as and when so required, the Parties shall agree on the time extension, as may be appropriate, for the performance of Services.

13. PAYMENT BY THE AUTHORITY

1. General Principles

a) Payments to the Agency shall be made by USCL on a monthly basis, subject to satisfactory performance and certification of bills by the Engineer-in-Charge/ Authorized Officer.

b) All payments shall be made in Indian Rupees (INR) through electronic transfer.

c) Applicable statutory deductions such as TDS, GST, labour cess etc. shall be deducted from the bills as per prevailing laws.

d) The Agency shall maintain proper records, bills, vouchers, and supporting documents for all items of work and shall make them available for inspection as and when required.

2. Part A – O&M (Comprehensive Facility Management & Maintenance)

2.1 Scope Covered

- Housekeeping & Sanitation
- Landscaping & Horticulture
- Electrical, Mechanical & Lighting Systems
- Water Supply, Sewerage & Plumbing
- Civil & Structural Maintenance (routine repairs)
- Visitor Amenities upkeep
- IT & Surveillance system operation
- Reporting & Monitoring

2.2 Mode of Payment

a) The Agency shall quote a composite monthly O&M fee covering manpower, equipment, consumables, preventive/breakdown maintenance, spares, and all incidental costs.

b) Payment shall be made on a lump-sum monthly basis against certified performance.

c) Deductions, if any, shall be made as per SLA penalties defined in Section 5.

(d) The Contractor shall quote a monthly lumpsum amount for the Comprehensive Maintenance and Facility Management Services as defined in the Scope of Work. The quoted rate shall remain firm for the first year of operation. Thereafter, the monthly lumpsum amount shall be increased annually by five percent (5%) on a compounding

basis over the previous year's rate, to account for inflation, escalation in wages, materials, and other input costs.

This escalation shall be applicable from the beginning of each subsequent year of the Contract Period and shall remain valid for the entire duration of five (5) years of the contract.

2.3 Sample BOQ Head (Part A)

1. Comprehensive Facility Management, Operation & Maintenance of all infrastructure and services at Mahakaleshwar Temple & Mahakal Lok – Monthly Lump Sum Quote (INR)

3. Part B – Variable / Additional Services

3.1 Scope Covered

- Minor Civil Works & Refurbishment (flooring, plastering, painting, tiling, waterproofing, furniture/fixture replacement). This will be excluding the civil maintenance covered in Part-A.
- Procurement of Goods & Consumables (cleaning material, toiletries, uniforms, horticultural inputs, electrical spares, decorative/festival material, temporary sheds/barricades).
- Festival & Event Services (additional manpower, temporary infrastructure such as tents, lighting, PA systems, toilets, water ATMs, crowd control arrangements).

3.2 Mode of Payment

a) These services shall be executed only on written instructions/approval of USCL/ SMTMC.

b) Payment shall be made on the basis of:

- Schedule of Rates (SOR): Minor civil works as per prevailing PWD SOR (State Govt.) or market-approved rates.
- Market-Rate Basis: For goods, consumables, event services not covered under SOR, duly supported by vendor quotations/invoices and certified by Engineer-in-Charge.

c) Agency shall maintain separate records for such works and submit bills with supporting documents.

d) Payment shall be made on actuals with an agreed handling/service charge (e.g., X% of actual cost).

3.3 Sample BOQ Heads (Part B)

- Minor Civil Repairs & Refurbishment – As per PWD SOR / approved rates (₹ per item/work order)

- Procurement & Supply of Goods/Consumables – On actual cost + handling charge (%)
- Festival/Event Management Services – Lump sum per event OR actual cost + handling charge (%)

4. Performance-Linked Payment Adjustments

a) If the Agency achieves >99% SLA compliance in any month, up to 2% bonus of the monthly O&M fee may be released.

b) If cumulative SLA penalties in any month exceed 10% of the monthly O&M fee, such amount shall be deducted and may trigger warnings.

c) Persistent underperformance as per Section 5.4 shall attract termination proceedings.

5. Billing & Certification

a) The Agency shall submit the monthly bill by the 5th of every month for the previous month's services.

b) The bill shall be accompanied by:

- Attendance sheet of deployed manpower.
- Logbooks of equipment usage.
- Complaint redressal report.
- Stock/consumable usage report.
- Festival/event expenditure statements (if any).
  c) The Engineer-in-Charge/Authorized Officer shall certify the bill within 15 working days after necessary verification.

14. SERVICE LEVEL AGREEMENT (SLA) AND PENALTIES

1. General Principles

a) The performance of the Agency shall be monitored against the Service Level Agreements (SLAs) defined herein.

b) The Agency shall ensure compliance with the minimum performance standards at all times.

c) Non-compliance with SLAs shall attract penalties, which shall be deducted from the monthly invoice of the Agency.

d) Repeated non-compliance (more than 3 consecutive months or 5 instances in a quarter) shall constitute a material breach of contract and may lead to termination.

2. SLA Matrix

SNo	Service Area	SLA Requirement / KPI	Response / Resolution Time	Monitoring Method	Penalty for Breach
1	Housekeeping & Cleaning	100% daily cleaning completed before 7 AM; ≥95% cleanliness score in random inspections	Daily	Physical inspection, visitor feedback	₹5,000 per day per location
2	Toilets & Visitor Amenities	Toilets cleaned every 2 hrs (peak) & 4 hrs (non-peak); consumables replenished at all times	1 hr for consumables, ongoing for cleaning	Inspection logbooks, surprise checks	₹2,500 per toilet block per day
3	Solid & Floral Waste Management	No waste accumulation >30 min; segregation & disposal as per SWM Rules	30 min	CCTV/spot inspection	₹2,000 per instance
4	Landscaping & Horticulture	≥95% survival of plants; lawns trimmed fortnightly	Ongoing	Horticulture reports, inspections	₹10,000 per month of non-compliance
5	Electrical & Lighting Systems	≥98% uptime; minor faults resolved ≤2 hrs, major faults ≤8 hrs	2 hrs (minor), 8 hrs (major)	Logbooks, system reports	₹1,000 per hour of delay
6	Plumbing, Water & Drainage	Leakages/choking resolved ≤12 hrs; 100% functionality of water kiosks	12 hrs	Complaint redressal logs	₹2,000 per incident
7	Civil & Structural Maintenance	Response ≤24 hrs; minor repairs completed ≤7 days	24 hrs (response), 7 days (completion)	Work orders, site inspection	₹5,000 per day of delay
8	Sculptures & Artwork Maintenance	No visible cracks/ damage unattended beyond 7 days	7 days	Heritage inspection reports	₹10,000 per item per week delay
9	IT, CCTV & Digital Systems	≥98% uptime; system restoration ≤4 hrs	4 hrs	System uptime logs	₹5,000 per day per system
10	Festival/Event Services	Deployment of staff & temporary infra as per approved plan	As per event schedule	Event inspection report	5% deduction of event-specific bill
11	Emergency Response	Response within 30 min of complaint/emergency	30 min	Incident reports	₹1,000 per hour delay

12	Reporting & Monitoring	Daily Progress Report (DPR) by next working day; Monthly Report (MPR) by 5th of next month	1 day / 5 days	Submission records	₹2,000 per delayed
13	Content Management & Posting (Social Media & Website)	Regular creation, updation, and publishing of approved content across official social media platforms and the Mahakaleshwar Temple website	Minimum one (1) approved post/update per day across major platforms; daily website update/ check; real-time event updates as instructed by USCL/SMTMC		₹2,000
	Community Response & Grievance Handling	Timely and courteous response to comments, messages, emails, and citizen/pilgrim queries received through social media platforms and website interfaces	Response within 4 hours during working hours and within 8 hours overall, including escalation to USCL/SMTMC where required		₹5,000
	Online Reputation & Misinformation Management (Critical SLA)	Continuous monitoring and prompt management of misinformation, fake news, defamatory content, or adverse online trends related to Mahakal Lok or Shri Mahakaleshwar Temple	Detection within 1 hour and issuance of an approved clarification/counter-communication within 3 hours, in coordination with USCL/SMTMC		₹10,000

3. Escalation Matrix

Level 1: Assistant Facility Manager (on site) – Immediate response.

Level 2: Project cum Facility Manager – Within 2 hours of unresolved issue.

Level 3: Senior Management of Agency – Within 24 hours of escalation.

Level 4: USCL/SMTMC – If issue persists beyond SLA timelines.

4. Performance Review

a) A Monthly Performance Review Meeting shall be conducted by USCL/SMTMC with the Agency or a joint review committee designated by USCL/SMTMC.

b) Cumulative penalties in any month exceeding 10% of Monthly Bill Value shall trigger a warning notice.

c) If cumulative penalties exceed 25% of Monthly Bill Value for 3 consecutive months, the contract shall be liable for termination.

5. Incentives

Not applicable.

6. The selected Agency will provide a monthly report to the Authority on all the SLAs listed under Clause 14. If the SLAs are violated for 3 (three) consecutive months, then the Authority reserves the right to terminate/cancel the contract of the selected Agency. The Authority, at its discretion, may choose to ascertain the veracity of the monthly report submitted by the selected Agency.

7. In addition to the penalties as specified above, warning may be issued to the Agency for minor deficiencies on its part. In the case of significant deficiencies in Services causing adverse effect on the Project or on the reputation of the Authority, other penal action including termination of contract and debarring for a specified period may also be initiated as per policy of the Authority.

8. Encashment and appropriation of Performance Security: The Authority shall have the right to invoke and appropriate the proceeds of the Performance Security, in whole or in part, without notice to the Agency in the event of breach of this Agreement or for recovery of any damages / penalties etc. Upon such encashment and appropriation of the Performance Guarantee, the Authority shall grant such time in its sole discretion to the selected Agency to replenish the said Performance Security.

15. FAIRNESS AND GOOD FAITH

15.1 Good Faith

The Parties undertake to act in good faith with respect to each other's rights under this Agreement and to adopt all reasonable measures to ensure the realisation of the objectives of this Agreement.

15.2 Operation of the Agreement

The Parties recognise that it is impractical in this Agreement to provide for every contingency which may arise during the life of the Agreement, and the Parties hereby agree that it is their intention that this Agreement shall operate fairly as between them, and without detriment to the interest of either of them, and that, if during the term of this Agreement either Party believes that this Agreement is operating unfairly, the Parties will use their best efforts to agree on such action as may be necessary to remove the cause or causes of such unfairness, but failure to agree on any action pursuant to this Clause shall not give rise to a dispute subject to arbitration in accordance with Clause 16 hereof.

16. SETTLEMENT OF DISPUTES

16.1 Amicable settlement

The Parties shall use their best efforts to settle amicably all disputes arising out of or in connection with this Agreement or the interpretation thereof.

16.2 Dispute resolution

1. Any dispute, difference or controversy of whatever nature howsoever arising under or out of or in relation to this Agreement (including its interpretation) between the Parties, and so notified in writing by either Party to the other Party (the "Dispute") shall, in the first instance, be attempted to be resolved amicably in accordance with the conciliation procedure set forth in Clause 16.3.

2. The Parties agree to use their best efforts for resolving all Disputes arising under or in respect of this Agreement promptly, equitably and in good faith, and further agree to provide each other with reasonable access during normal business hours to all non-privileged records, information and data pertaining to any Dispute.

16.3 Conciliation

In the event of any Dispute between the Parties, either Party may call upon Executive Director of USCL or Commissioner of UMC for amicable settlement, and upon such reference, the said persons shall meet no later than 10 (ten) days from the date of reference to discuss and attempt to amicably resolve the Dispute. If such meeting does not take place within the 10 (ten) day period or the Dispute is not amicably settled within 15 (fifteen) days of the meeting or the Dispute is not resolved as evidenced by the signing of written terms of settlement within 30 (thirty) days of the notice in writing referred to in Clause 16.21 or such longer period as may be mutually agreed by the Parties, either Party may refer the Dispute to arbitration in accordance with the provisions of Clause 16.4.

16.4 Arbitration

1. Any Dispute which is not resolved amicably by conciliation, as provided in Clause 16.3, shall be finally decided by reference to the Commissioner, Directorate, Urban Development and Housing Department, Government of Madhya Pradesh, whose decision in this regard shall be final and binding on both the Parties. The existence of any dispute or reference of the same for redressal in any forum shall not absolve the selected agency of its liability to continue its services as stipulated in the Agreement.

2. The arbitrator shall make a reasoned award (the "Award"). Any Award made in any arbitration held pursuant to this Clause 16 shall be final and binding on the

Parties as from the date it is made, and the Agency and the Authority agree and undertake to carry out such Award without delay.

3. The Agency and the Authority agree that an Award may be enforced against the Agency and/or the Authority, as the case may be, and their respective assets wherever situated.

4. This Agreement and the rights and obligations of the Parties shall remain in full force and effect, pending the Award in any arbitration proceedings hereunder.

17. TRANSFER OF RIGHTS BY THE AUTHORITY

In case the authority wishes to transfer its rights to any other entity, it will be obligatory for the Agency to sign a tripartite agreement / Memorandum of Understanding / any other document as may be required with the entity and the Authority and the Agency will have to undertake the duties as agreed under this agreement for the entity to whom the rights will be transferred.

IN WITNESS WHERE OF, the Parties hereto have caused this Agreement to be signed in their respective names as of the day and year first above written.

SIGNED, SEALED AND DELIVERED	SIGNED, SEALED AND DELIVERED
For and on behalf of	For and on behalf of
Agency	Authority
(Signature)	(Signature)
(Name)	(Name)
(Designation)	(Designation)
(Address)	(Address)

In the presence of:

1. 2.

Annex -1

Terms of Reference

(Refer Clause 10.12)

(Reproduce Schedule-1 of RFP)

Annex-2

Payment by the Authority

(Refer Clause 13)

(Reproduce as per Form-2 of Appendix-II)

Annex-3

Payment Schedule

(Refer Clause 13)

Annex-4

Bank Guarantee for Performance Security

(Refer Clause 14)

To

Executive Director
Ujjain Smart City Limited
Mela Office, Kothi Road, Ujjain - 456010

In consideration of Ujjain Smart City Limited acting through the Executive Director (hereinafter referred as the "Authority", which expression shall, unless repugnant to the context or meaning thereof, include its successors, administrators and assigns) awarding to ....., having its office at ..... (hereinafter referred as the "Agency" which expression shall, unless repugnant to the context or meaning thereof, include its successors, administrators, executors and assigns), vide the Authority's Agreement no. ..... dated ....., (hereinafter referred to as the "Agreement") the assignment for *"Facility management, Operation & Comprehensive Maintenance of all Infrastructure and Services at Shri Mahakaleshwar Temple, Mahakal Lok and Precinct (Project) (2nd Call)"*, and the Agency having agreed to furnish a Bank Guarantee amounting to Rs:..... (Rupees .....) to the Authority for performance of the said Agreement.

We, ... (hereinafter referred to as the "Bank") at the request of the Agency do hereby undertake to pay to the Authority an amount not exceeding Rs. ..... (Rupees .....) against any loss or damage caused to or suffered or would be caused to or suffered by the Authority by reason of any breach by the said Agency of any of the terms or conditions contained in the said Agreement.

2. We, ... (indicate the name of the Bank) do hereby undertake to pay the amounts due and payable under this Guarantee without any demur, merely on a demand from the Authority stating that the amount/claimed is due by way of loss or damage caused to or would be caused to or suffered by the Authority by reason of breach by the said Agency of any of the terms or conditions contained in the said Agreement or by reason of the Agency's failure to perform the said Agreement. Any such demand made on the bank shall be conclusive as regards the amount due and payable by the Bank under this Guarantee. However, our liability under this Guarantee shall be restricted to an amount not exceeding Rs. ..... (Rupees .....).

3. We, ... (Name of Bank) undertake to pay to the Authority any money so demanded notwithstanding any dispute or disputes raised by the Agency in any suit or proceeding pending before any court or tribunal relating thereto, our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment thereunder and the Agency shall have no claim against us for making such payment.

4. We, ... (Name of Bank) further agree that the Guarantee herein contained shall remain in full force and effect during the period that would be required for the performance of the said Agreement and that it shall continue to be enforceable till all the dues of the Authority under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till the Authority certifies that the terms and conditions of the said Agreement have been fully and properly carried out by the said Agency and accordingly discharges this Guarantee. Unless a demand or claim under this Guarantee is made on us in writing on or before [..... (indicate the date as per RFP)], we shall be discharged from all liability under this Guarantee thereafter.

5. We, ... (Name of Bank) further agree with the Authority that the Authority shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Agreement or to extend time of performance by the said Agency from time to time or to postpone for any time or from time to time any of the powers exercisable by the Authority against the said Agency and to forbear or enforce any of the terms and conditions relating to the said Agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Agency or for any forbearance, act or omission on the part of the Authority or any indulgence by the Authority to the said Agency or any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have the effect of so relieving us.

6. This Guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor/Agency(s).

7. We, ... (Name of Bank) lastly undertake not to revoke this Guarantee during its currency except with the previous consent of the Authority in writing.

8. For the avoidance of doubt, the Bank's liability under this Guarantee shall be restricted to Rs. ..... (Rupees .....) only. The Bank shall be liable to pay the said amount or any part thereof only if the Authority serves a written claim on the Bank in accordance with paragraph 2 hereof, on or before [..... (indicate the date as per RFP)].

Dated, the ..... day of 2026

For .....

(Name of Bank)

(Signature, name and designation of the authorised signatory)

Seal of the Bank:

NOTES:

(i) The Bank Guarantee should contain the name, designation and code number of the officer(s) signing the Guarantee.

(ii) The address, telephone no. and other details of the Head Office of the Bank as well as of issuing Branch should be mentioned on the covering letter of issuing Branch.

SCHEDULE-3

(See Clause 2.3)

18. Guidance Note on Conflict of Interest

1. This Note further explains and illustrates the provisions of Clause 2.3 of the RFP and shall be read together therewith in dealing with specific cases.

2. Agencies should be deemed to be in a conflict-of-interest situation if it can be reasonably concluded that their position in a business or their personal interest could improperly influence their judgment in the exercise of their duties. The process for selection of agencies should avoid both actual and perceived conflict of interest.

3. Conflict of interest may arise between the Authority and agency. Some of the situations that would involve conflict of interest are identified below:

   (i) Potential agency should not be privy to information from the Authority which is not available to others.

   (ii) Potential agency should not have defined the project when earlier working for the Authority.

   The participation of agencies that may be involved as investors or consumers and officials of the Authority who have current or recent connections to the companies involved, therefore, needs to be avoided.

4. The normal way to identify conflicts of interest is through self-declaration by agencies. Where a conflict exists, which has not been declared, competing agencies are likely to bring this to the notice of the Authority. All conflicts must be declared as and when the agencies become aware of them.

5. Another approach towards avoiding a conflict of interest is through the use of "Chinese walls" to avoid the flow of commercially sensitive information from one part of the company to another. However, in reality effective operation of "Chinese walls" may be a difficult proposition. As a general rule, larger companies will be more capable of adopting Chinese walls approach than smaller companies. Although, "Chinese walls" have been relatively common for many years, they are an increasingly discredited means of avoiding conflicts of interest and should be considered with caution. As a rule, "Chinese walls" should be considered as unacceptable and may be accepted only in exceptional cases upon full disclosure by an agency coupled with provision of safeguards to the satisfaction of the Authority.

6. Another way to avoid conflicts of interest is through the appropriate grouping of tasks. For example, conflicts may arise if consultants drawing up the terms of reference or the proposed documentation are also eligible for the consequent assignment or project.

7. Another form of conflict of interest called "scope–creep" arises when agencies advocate either an unnecessary broadening of the terms of reference or make

recommendations which are not in the best interests of the Authority but which will generate further work for the agencies. Some forms of contractual arrangements are more likely to lead to scope-creep. For example, lump-sum contracts provide fewer incentives for this, while time and material contracts provide built in incentives for agencies to extend the length of their assignment.

8. Every project contains potential conflicts of interest. Agencies should not only avoid any conflict of interest, they should report any present/ potential conflict of interest to the Authority at the earliest. Officials of the Authority involved in development of a project shall be responsible for identifying and resolving any conflicts of interest. It should be ensured that safeguards are in place to preserve fair and open competition and measures should be taken to eliminate any conflict of interest arising at any stage in the process.

SCHEDULE 4

19. APPENDICES

APPENDIX-I

(See Clause 2.13)

19.1 TECHNICAL PROPOSAL

Form-1: Letter of Proposal

(On Applicant's letter head)

(Date and Reference)

To,

.....

.....

.....

Sub: Selection of Agency for Facility management, Operation & Comprehensive Maintenance of all Infrastructure and Services at Shri Mahakaleshwar Temple, Mahakal Lok and Precinct (Project) (2nd Call)

Dear Sir,

1. With reference to your RFP Document dated ....., I/We, having examined all relevant documents and understood their contents, hereby submit our Proposal for selection as Agency for *Selection of Agency for Facility management, Operation & Comprehensive Maintenance of all Infrastructure and Services at Shri Mahakaleshwar Temple, Mahakal Lok and Precinct (Project).* The proposal is unconditional and unqualified.

2. I/We acknowledge that the Authority will be relying on the information provided in the Proposal and the documents accompanying the Proposal for selection of the Agency, and we certify that all information provided in the Proposal and in the Appendices is true and correct, nothing has been omitted which renders such information misleading; and all documents accompanying such Proposal are true copies of their respective originals.

3. This statement is made for the express purpose of appointment as the Agency for the aforesaid Project.

4. I/We shall make available to the Authority any additional information it may deem necessary or require for supplementing or authenticating the Proposal.

5. I/We acknowledge the right of the Authority to reject our application without assigning any reason or otherwise and hereby waive our right to challenge the same on any account whatsoever.

6. I/We certify that in the last three years, we or any of our Associates have neither failed to perform on any contract, as evidenced by imposition of a penalty by an arbitral or judicial authority or a judicial pronouncement or arbitration award against the Applicant, nor been expelled from any project or contract by any public authority nor have had any contract terminated by any public authority for breach on our part.

7. I/We declare that:

   (a) I/We have examined and have no reservations to the RFP Documents, including any Addendum issued by the Authority;

   (b) I/We do not have any conflict of interest in accordance with Clause 2.3 of the RFP Document;

   (c) I/We have not directly or indirectly or through an agent engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice, as defined in Clause 4 of the RFP document, in respect of any tender or request for proposal issued by or any agreement entered into with the Authority or any other public sector enterprise or any government, Central or State; and

   (d) I/We hereby certify that we have taken steps to ensure that in conformity with the provisions of Clause 4 of the RFP, no person acting for us or on our behalf will engage in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice.

8. I/We understand that you may cancel the Selection Process at any time and that you are neither bound to accept any Proposal that you may receive nor to select the Agency, without incurring any liability to the Applicants in accordance with Clause 2.8 of the RFP document.

9. I/We declare that we are not a member of any other company/firm/society applying for Selection as an Agency.

10. I/We certify that in regard to matters other than security and integrity of the country, we or any of our Associates have not been convicted by a Court of Law or indicted or adverse orders passed by a regulatory authority which would cast a doubt on our ability to undertake the Services for the Project or which relates to a grave offence that outrages the moral sense of the community.

11. I/We further certify that in regard to matters relating to security and integrity of the country, we have not been charge-sheeted by any agency of the Government or convicted by a Court of Law for any offence committed by us or by any of our Associates.

12. I/We further certify that no investigation by a regulatory authority is pending either against us or against to be engaged team members.

13. I/We hereby irrevocably waive any right or remedy which we may have at any stage at law or howsoever otherwise arising to challenge or question any decision taken by the Authority [and/ or the Government of India] in connection with the selection of Agency or in connection with the Selection Process itself in respect of the above-mentioned Project.

14. I/We agree and understand that the proposal is subject to the provisions of the RFP document. In no case, shall I/we have any claim or right of whatsoever nature if the Services for the Project is not awarded to me/us or our proposal is not opened or rejected.

15. I/We agree to keep this offer valid for 120 (One Hundred Twenty Days) days from the PDD specified in the RFP.

16. A Power of Attorney in favour of the authorised signatory to sign and submit this Proposal and documents is attached herewith in Form 4.

17. In the event of my/our firm being selected as the Service Agency, I/we agree to enter into an Agreement in accordance with the form at Schedule–2 of the RFP. We agree not to seek any changes in the aforesaid form and agree to abide by the same.

18. I/We have studied RFP and all other documents carefully. We understand that except to the extent as expressly set forth in the Agreement, we shall have no claim, right or title arising out of any documents or information provided to us by the Authority or in respect of any matter arising out of or concerning or relating to the Selection Process including the award of Service.

19. The Financial Proposal is being submitted in a separate cover. This Technical Proposal read with the Financial Proposal shall constitute the Application which shall be binding on us.

20. I/We agree and undertake to abide by all the terms and conditions of the RFP Document.

In witness thereof, I/we submit this Proposal under and in accordance with the terms of the RFP Document.

Yours faithfully,

(Signature, name and designation of the authorised signatory)

(Name and seal of the Applicant)

APPENDIX-I

Form-2: Particulars of the Applicant

1.1	Title of Service:
1.2	Title of Project: .....Project
1.3	State the following: Name of Firm: Legal status: Country of incorporation: Registered address: Year of Incorporation/Registration: Year of commencement of business: Principal place of business: Name, designation, address and phone numbers of authorised signatory of the Applicant: Name: Designation: Organization: Address: Phone No.: E-mail address:
1.4	For the Applicant, state the following information: (i) In case of non-Indian Firm, does the Firm have business presence in India? Yes/No If so, provide the office address (es) in India. (ii) Has the Applicant been penalised by any organization for poor quality of work or breach of contract in the last five years? Yes/No (iii) Has the Applicant ever failed to complete any work awarded to it by any public authority/ entity in last five years?

	Yes/No (iv) Has the Applicant been blacklisted by any Government department/Public Sector Undertaking in the last five years? Yes/No (v) Has the Applicant suffered bankruptcy/insolvency in the last five years? Yes/No Note: If answer to any of the questions at (ii) to (v) is yes, the Applicant is not eligible for this assignment.
1.5	(Signature, name and designation of the authorised signatory) For and on behalf of .....

APPENDIX-I

Form-3: Statement of Legal Capacity

(To be forwarded on the letter head of the Applicant)

Ref. Date:

To,

.....

.....

.....

Dear Sir,

Sub: Selection of Agency for *Facility management, Operation & Comprehensive Maintenance of all Infrastructure and Services at Shri Mahakaleshwar Temple, Mahakal Lok and Precinct (Project) (2nd Call)*

I/We hereby confirm that we, the Applicant, satisfy the terms and conditions laid down in the RFP document.

I/We have agreed that ..... (insert individual's name) will act as our Authorised Representative on our behalf and has been duly authorized to submit our Proposal. Further, the authorised signatory is vested with requisite powers to furnish such proposal and all other documents, information or communication and authenticate the same.

Yours faithfully,

(Signature, name and designation of the authorised signatory

For and on behalf of .....

APPENDIX-I

Form-4: Power of Attorney

Know all men by these presents, We, ... (name of Firm and address of the registered office) do hereby constitute, nominate, appoint and authorise Mr / Ms..... son/daughter/wife and presently residing at....., who is presently employed with/ retained by us and holding the position of ..... as our true and lawful attorney (hereinafter referred to as the "Authorised Representative") to do in our name and on our behalf, all such acts, deeds and things as are necessary or required in connection with or incidental to submission of our Proposal for Selection of Agency for *Facility management, Operation & Comprehensive Maintenance of all Infrastructure and Services at Shri Mahakaleshwar Temple, Mahakal Lok and Precinct (Project) (2nd Call)*, under Ujjain City for Ujjain Smart City Limited (the "Authority") including but not limited to signing and submission of all applications, proposals and other documents and writings, participating in pre-bid and other conferences and providing information/ responses to the Authority, representing us in all matters before the Authority, signing and execution of all contracts and undertakings consequent to acceptance of our proposal and generally dealing with the Authority in all matters in connection with or relating to or arising out of our Proposal for the said Project and/or upon award thereof to us till the entering into of the Agreement with the Authority.

AND, we do hereby agree to ratify and confirm all acts, deeds and things lawfully done or caused to be done by our said Authorised Representative pursuant to and in exercise of the powers conferred by this Power of Attorney and that all acts, deeds and things done by our said Authorised Representative in exercise of the powers hereby conferred shall and shall always be deemed to have been done by us.

IN WITNESS WHEREOF WE, ...THE ABOVE-NAMED PRINCIPAL HAVE EXECUTED THIS POWER OF ATTORNEY ON THIS ..... DAY OF ....., 2026.

For .....

(Signature, name, designation and address)

Witnesses:

1.

2.

Notarised

Accepted

.....

(Signature, name, designation and address of the Attorney)

Notes:

- *The mode of execution of the Power of Attorney should be in accordance with the procedure, if any, laid down by the applicable law and the charter documents of the executant(s) and when it is so required the same should be under common seal affixed in accordance with the required procedure.*

- *Wherever required, the Applicant should submit for verification the extract of the charter documents and other documents such as a resolution/power of attorney in favour of the person executing this Power of Attorney for the delegation of power hereunder on behalf of the Applicant.*

- *For a Power of Attorney executed and issued overseas, the document will also have to be legalised by the Indian Embassy and notarised in the jurisdiction where the Power of Attorney is being issued. However, the Power of Attorney provided by Applicants from countries that have signed the Hague Legislation Convention, 1961 are not required to be legalised by the Indian Embassy if it carries a conforming Apostille certificate.*

APPENDIX-I

Form-5: Financial Capacity of the Applicant

(Refer Clause 2.22 (B))

S. No.	Financial Year	Annual Revenue (Rs.)
1	2024-25	
2	2023-24	
3	2022-23	
Average		

Certificate from the Statutory Auditor[SS]

This is to certify that .....(name of the Applicant) has received the payments shown above against the respective years on account of professional fee.

(Signature, name and designation of the authorised signatory)

Date: Name and seal of the audit firm:

[SS]In case the Applicant does not have a statutory auditor, it shall provide the certificate from its chartered accountant that ordinarily audits the annual accounts of the Applicant.

Note:

1. Please attach Copy of Audited Financial Statements for 3 (three) years (i.e. 2012-23, 2023-24 and 2024-25) with Income tax returns.

APPENDIX-I

Form-6: Abstract of Eligible Assignments of the Applicant[$]

(Refer Clause 2.2.2, B)

SNo	Name of Project	Name of Client	Estimated capital cost of Project (in Rs crore)	Annual Concession Fee or Revenue Shared with the Authority by the Applicant (in Rs crore)[$$]	Professional Fee received by the Applicant (in Rs crore)	Status of Project (completed / ongoing[$$])
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1						
2						
3						
4						
5						

[$] The Applicant should provide details of only those assignments that have been undertaken by it under its own name. Further, the names and chronology of Eligible Assignments included here should conform to the project-wise details submitted in Form-7 of Appendix-I

[$$] In case the Applicant has not paid the Annual Concession Fee or shared Revenue with the Authority for the ongoing assignments, the applicant must furnish certificate from client clearly mentioning the scope of work and financials for the assignment.

Certificate from the Statutory Auditor[$] of [Name of Company]

This is to certify that the information shown above is correct as per the accounts of the Applicant and/ or the clients.

(Signature, name and designation of the authorised signatory)

Date: Name and seal of the audit firm:

[$] In case the Applicant does not have a statutory auditor, it shall provide the certificate from its chartered accountant that ordinarily audits the annual accounts of the Applicant.

APPENDIX-I

Form-7: Eligible Assignments of Applicant

(Refer Clause 2.22)

1.	Project Category:
2.	Name of Applicant:
3.	Assignment Name:
4.	Description of Assignment:
5.	Annual Service Fee paid to / Revenue Shared with the Authority for the Assignment (in Rupees / year) (if applicable):
6.	Payment received from the Authority for the Assignment (in Rupees / year):
7.	Location within country:
8.	Duration of Assignment / job (months):
9.	Name of Client:
10.	Client address and contact information:
11.	In case of Joint-venture/Association, whether your company was Lead member or other consortium member:
12.	Total No. of staff-months of the Assignment:
13.	Total No. of staff-months provided by your company:
14.	Start date (month/year):
15.	Completion date (month/year):
16.	Name of associated Agencies, if any:
17.	Name of senior staff of your firm involved and functions performed.
18.	Description of actual services provided by your staff within the Assignment:

Note:

1. Use separate sheet for each Assignment as mentioned in clause 2.22 (B).

2. Each Eligible Assignment shall not exceed 2 pages, and following format shall be used.

APPENDIX-II

19.2 FINANCIAL PROPOSAL

Form-1: Covering Letter

(On Applicant's letter head)

(Date and Reference)

To,

.....

.....

.....

Dear Sir,

Sub: Selection of Agency for Facility management, Operation & Comprehensive Maintenance of all Infrastructure and Services at Shri Mahakaleshwar Temple, Mahakal Lok and Precinct (Project) (2nd Call).

I/We, ... (Applicant's name) herewith enclose the Financial Proposal for selection of my/our firm as Service Provider for *Facility management, Operation & Comprehensive Maintenance of all Infrastructure and Services at Shri Mahakaleshwar Temple, Mahakal Lok and Precinct (Project),* as indicated above.

I/We agree that this offer shall remain valid for a period of 120 (one hundred and twenty) days from the Proposal Due Date or such further period as may be mutually agreed upon.

Yours faithfully,

(Signature, name and designation of the authorised signatory)

APPENDIX-II

(See Clause 2.13)

Form-2: Declaration Format for Financial Proposal

(A blank copy of the signed Form needs to be submitted along with Technical Proposal. There should not be any indication of the bid quote filled anywhere except the e-procure portal)

(Date and Reference)

To,

.....

.....

.....

Sub: Selection of Agency for Facility management, Operation & Comprehensive Maintenance of all Infrastructure and Services at Shri Mahakaleshwar Temple, Mahakal Lok and Precinct (Project) (2nd Call).

Dear Sir,

We, the undersigned, offer to undertake the Project in accordance with your Request for Proposal (RFP) dated *<Date of NIT Publication>*, and our Proposal (Technical Proposal and Financial Proposal).

1. I / we hereby offer and agree to share the following rates for performance of the contract during the contract period for the Project:

Part A – Comprehensive Facility Management & O&M (Fixed Monthly Payment)

The bidder shall quote a composite monthly lump-sum fee covering manpower, equipment, consumables, preventive and breakdown maintenance, routine civil/electrical/mechanical/plumbing works, visitor amenities upkeep, horticulture, IT systems, and all incidental expenses.

SNo	Description of Service	Unit	Monthly Lump Sum Quote (INR)	Applicable GST (%)	Total (INR) incl. GST
1	Comprehensive Facility Management, Operation & Maintenance of Mahakaleshwar Temple, Mahakal Lok, Rudrasagar, and Associated	Per Month	_____	_____	_____

	Infrastructure (as per Scope of Work, Part A)				

Note:

- The quoted rate shall be inclusive of manpower, consumables, tools & plants, spares, insurance, uniforms, administrative costs, profit margin, etc.
- Payment shall be made monthly against certified performance, subject to SLA-linked deductions.
- The Contractor shall quote a monthly lumpsum amount for the Comprehensive Maintenance and Facility Management Services as defined in the Scope of Work. The quoted rate shall remain firm for the first year of operation. Thereafter, the monthly lumpsum amount shall be increased annually by five percent (5%) on a compounding basis over the previous year's rate, to account for inflation, escalation in wages, materials, and other input costs.

  This escalation shall be applicable from the beginning of each subsequent year of the Contract Period and shall remain valid for the entire duration of five (5) years of the contract.

Part B – Variable/Additional Services (Payable on Actuals)

The following services shall be executed only on written approval of USCL/SMTMC and shall be reimbursed on actual cost basis as per prevailing PWD SOR 2024/market rates plus the bidder's quoted handling/service charge.

B-1: Minor Civil Works & Refurbishment

SNo	Item Description	Basis of Payment	Rate Quoted by Bidder	Remarks
1	Minor civil repairs & refurbishment works	As per prevailing PWD SOR 2024/ approved market rate	_____% of SOR (above/below)	Payment as per certified measurement

B-2: Procurement of Goods & Consumables

SNo	Item Description	Basis of Payment	Handling/ Service Charge (%) quoted by Bidder	Remarks
1	Supply of Goods, Equipment and Consumables	Actual cost of goods procured on invoice basis	_____% of actuals	Inclusive of procurement, storage, logistics, etc.

B-3: Festival & Event Services

SNo	Item Description	Basis of Payment	Handling/Service Charge (%) quoted by Bidder	Remarks
1	Temporary infrastructure during festivals/events (tents, barricades, PA systems, decorative lighting, toilets, water ATMs, additional manpower, etc.)	Actual cost of services procured on invoice basis	_____% of actuals	To be supported by vouchers/ invoices

Part C – Summary of Financial Bid

Component	Amount (INR)	Remarks
Part A – Fixed Monthly O&M Fee	_____	Lump sum per month
Part B – Variable/Additional Services	Not Applicable	Payable on actuals + service charge %

Declaration by Bidder

2. I/We have carefully read and understood the terms, conditions, scope of work, and SLAs of the RFP.

3. I/We agree that the Part A quote is firm and inclusive of all costs, taxes, and duties (except GST).

4. I/We agree that Part B services shall be executed only upon approval and paid on actuals plus service charge as quoted.

5. I/We hereby submit our financial bid.

6. I / we understand that the Authority is not bound to accept any Proposal(s) received.

7. I/ we agree that my / our Financial Proposal shall remain valid for a period of 120 (One Hundred and Twenty) days from the Proposal Due Date prescribed for submission of Proposal.

8. I / we confirm that our Financial Proposal is unconditional and that we accept all terms and conditions specified in the Bidding Documents.

9. I / we agree to be bound by this offer if we are the Selected Bidder for the Project.

Dated this [day / month / year]
Authorized Signatory (in full and initials):

Name and title of signatory:
Duly authorized to sign this Proposal for and on behalf of [Name of Applicant]
Name of Firm:
Address:

Note for Clarification on Scope and Payment Modality

Part A – Comprehensive Operation & Maintenance

All repairs and rectification works related to existing infrastructure, including routine and periodic maintenance, shall be deemed to be covered under Part A. This shall include deployment of required manpower, tools and equipment, cleaning materials, consumables, toiletries, uniforms, horticultural inputs, electrical and mechanical spares, and all other inputs necessary for comprehensive maintenance. No separate payment shall be admissible for such activities beyond the lump-sum Comprehensive Maintenance Contract (CMC) price.

The manpower and equipment requirements mentioned in the TOR are minimum and indicative. The successful agency shall deploy additional manpower resources as per requirements and satisfactory performance of the services under the contract.

Minimum wages released by Labour Commissioner, Indore cane be accessed at https://labour.mponline.gov.in/ .Deployment will be 24X7 in shifts as approved by SMTMC/USCL.

Besides manpower cost the ***Comprehensive Operation & Maintenance cost shall deemed to include:***

SN	Major Items
1	Statutory /Social Benefits of manpower deployed
2	Uniforms & PPE (2 sets/year, safety shoes, helmets, jackets, masks) for manpower deployed
3	Training & Induction and refreshers
4	AMC of Civil Structures
5	Plumbing, Fountains & Water Systems
6	Drains Cleaning
7	WTP/Intake and Pipeline+CWR/ESR
8	Drip Irrigation System
9	Lotus and other Pond Water Cleaning/Dosing
10	RudraSagar Lake
11	Horticulture Consumables

SN	Major Items
12	Waste Management
13	AMC of Electrical & Lighting Infra
14	AMC of Digital Systems
15	AMC of Anna Kshetra Machines
16	AMC of Fire-systems
17	AMC of E-carts
18	Security System Maintenance
19	Cleaning Materials/Aids
20	AMC of Social Media Platform/Services
21	Office Establishment/operations, all applicable insurance and incidental expenses

Bidders are advised to review the asset list provided in the RFP Document and shall validate the same during site visits at bidding stage and as well as after award of contract. Missing information/data shall be provided to the successful agency after award of contract. The bidder must assess the spares requirement. The Agency shall maintain the inventory during the contract period.

Part B – Works and Supplies Outside Comprehensive Maintenance

Items and works not covered under Part A shall be executed under Part B only with prior approval of the competent authority, and shall be categorized as follows:

Part B1 – Schedule of Rate (SoR) Based Works

Works shall be executed in accordance with MP PWD Schedule of Rates (SoR) 2024, and payment shall be made by applying the tender premium/discount quoted by the bidder to the certified quantities.

Part B2 – Supply of Materials / Equipment

Materials, furniture, and equipment shall be procured by the Contractor, preferably through the Government e-Marketplace (GeM). Payment shall be made at the actual procurement cost, with the handling charges (plus or minus) quoted by the bidder applied.

Part B3 – Non-SoR / Specialized Works (Event specific)

Works not covered under MP PWD SoR 2024 shall be executed based on quotations or short-term tenders from the open market. Payment shall be made at the actual executed cost, with the handling charges (plus or minus) quoted by the bidder applied.

Events schedule will be notified to the successful agency in advance to initiate procurement process of approved items. Necessary approvals will be in place well on time. Responsibility for insurance of event infrastructure shall be with selected agency.

SCHEDULE 5

20. Location Plan and Asset Inventory of Major Installations

(i) Location Plan

(ii) Asset Inventory of Major Installations

Annexures

Assets Lists of All Projects

ASSET LIST INDEX		
SR NO	PROJECT NAME	DETAIL
1	MAHAKAL RUDRA SAGAR INTEGRATED APPROACH (MRIDA) PHASE-1	A-1 ,A-2
2	DRIP IRRIGATION SYSTEM	B-1
3	MRIDA PHASE-1 FIRE FIGHTING WORK	C-1
4	WATER FOUNTAIN AT MRIDA PHASE-1	D-1
5	CCTV SURVELIANCE AT MAHAKAL LOK	E-1
6	PEDISTRIAN BRIDGE AT RUDRA SAGAR BRIDGE	F-1, F-2
7	SOALR SYSTEM	G-1
8	E-KART	H-1
9	BASEMENT PARKING	I-1 ,I-2
10	NEELKANTH VAN	J-1 ,J-2
11	R-18 ROAD	K-1, K-2
12	R-22 & R-25 ROAD	L-1 ,L-2
13	RUDRA SAGAR all Area	M-1 ,M-2
14	SIKHAR DHARSHAN	N-1 ,N-2
15	EMERGENCY ENTRY EXIT	O-1
16	MAHAKAL TEMPLE ASSET LIST	P-1, P-2
17	MAHAKAL TEMPLE FACADE LIGHTING WORK	Q-1
18	FOUR ROAD	R-1 ,R-2
19	MAHAKAL DWAR	S-1
20	ORNAMENTAL WORK	T-1
21	OVER HEAD TANK WORK	U-1
22	OUTFALL JUCTION	V-1
23	MANSAROVAR BHAWAN VFC -2	W-1

Annexure A-1

NAME OF WORK	DEVELOPMENT AND CONSTRUCTION OF MAHAKAL RUDRASAGAR INTEGRATED DEVELOPMENT AREA(MRIDA) UNDER PHASE-I ,UJJAIN		
Sr. No.	Description	Unit	QTY.
1	3	4	5
1	Reinforcement for R.C.C. work including straightening cutting bending placing in position and binding including cost of binding wire upto floor two level including all wastage etc. complete.		
	Thermo-Mechanically Treated bars.		
	Total	Kg.	396018.62
6	Centering and shuttering including strutting propping etc.and removal of form for :		
a	Foundations footings bases of columns etc. For mass concrete.		
	Total	Sqm	13205.34
b	Wall (any thickness including attached pillars, butteress, plinth and string coursees etc.)		
	Total	Sqm	21205.21
c	Suspended floors, roofs, landings, balconies and access platform.		
	Total	Sqm	5116.92
d	Lintels, beams, plinth beams, girders, bressumers and cantilevers.		
	Total	Sqm	9533.49
e	Columns, Pillars, Piers, Abutments, Posts and Struts.		
		Sqm	6521.46
	Total	Cum	684.51

Sr. No.	Description	Unit	QTY.
9	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement. including Admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. M-25 grade reinforced cement concrete by using 410 kg. of cement per cum of concrete. All work up to floor 2 level.		
	Total	Cum	11797.16
10	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering. All work up to plinth level.		
	Cement Concrete grade M-15 (Nominal Mix) with 20 mm maximum size of stone aggregate.		
	Total	Cum	2898.74
11	STONE WORK		
	Sculptures themed to lord shiva of height Upto 10'-0" Shall be in Stone		
	* 4' 0" , 5'-0" , 6'-0"		
	4'-0"	11	
	Supply of Stone at Site		
	Total	Nos	56.00
	Designing, Sculpting, Carving, Finishing		
	Total	Nos	56.00
	Installation and Fixing		
	Total	Nos	56.00
	Handover		
	Total	Nos	56.00
	5'-0"		
	Supply of Stone at Site		
	Total	Nos	50.00
	Designing, Sculpting, Carving, Finishing		

Sr. No.	Description	Unit	QTY.
	Total	Nos	50.00
	Installation and Fixing		
	Total	Nos	50.00
	Handover		
	Total	Nos	50.00
	6'-0"		
	Supply of Stone at Site		
	Total	Nos	19.00
	Designing, Sculpting, Carving, Finishing		
	Total	Nos	19.00
	Installation and Fixing		
	Total	Nos	19.00
	Handover		
	Total	Nos	19.00
	FRP WORK		
12	Sculptures themed to lord shiva of height from 9'-0" Upto 15'-0" Shall be in Fiber		
	* 9' 0" , 10'-0" , 11' 0" , 15' 0"		
	9'-0"		
	Supply of Materials at site		
	Total	Nos	34.00
	Designing, Sculpting, Carving, Finishing		
	Total	Nos	34.00
	Installation and Fixing		
	Total	Nos	34.00
	Handover		
	Total	Nos	34.00
	10'-0"		
	Supply of Materials at site		

Sr. No.	Description	Unit	QTY.
	Total	Nos	8.00
	Designing, Sculpting, Carving, Finishing		
	Total	Nos	8.00
	Installation and Fixing		
	Total	Nos	8.00
	Handover		
	Total	Nos	8.00
	11'-0"		
	Supply of Materials at site		
	Total	Nos	2.00
	Designing, Sculpting, Carving, Finishing		
	Total	Nos	2.00
	Installation and Fixing		
	Total	Nos	2.00
	Handover		
	Total	Nos	2.00
	15'-0"		
	Supply of Materials at site		
	Total	Nos	20.00
	Designing, Sculpting, Carving, Finishing		
	Total	Nos	20.00
	Installation and Fixing		
	Total	Nos	20.00
	Handover		
	Total	Nos	20.00
13	DESIGNING AND CARVING OF ART WORKS		
	(d) admin +toilet + locker	sqm	

Sr. No.	Description	Unit	QTY.
	Supply of Stone at Site		
	Total	Sqmt.	5789.576
	Designing, Sculpting, Carving, Finishing		
	Total		
		Sqmt.	5789.576
	Installation and Fixing		
	Total	Sqmt.	5789.575
	Handover		
	Total	Sqmt.	5789.575
	e) Murals	sqm	
	Supply of Stone at Site		
		Sqmt.	
	Total	Sqmt.	1576.54
	Designing, Sculpting, Carving, Finishing		
	Total	Sqmt.	1576.54
	Installation and Fixing		
	Total	Sqmt.	1576.54
	Handover		
	Total	Sqmt.	1576.54
	f) Relief Work		
	Supply of Stone at Site		
	Total	Sqmt.	5344.079
	Designing, Sculpting, Carving, Finishing		
	Total	Sqmt.	5344.079
	Installation and Fixing		
	Total	Sqmt.	5344.079
	Handover		
	Total	Sqmt.	5344.079
14	SHIVA STAMBH		

Sr. No.	Description	Unit	QTY.
	All exposed surfaces shall be 3 line dressed. Rate to include all scaffolding, staging, suitable capacity mobile crane for erection, shifting, transport including all raw stone , tools & tackles, grouting materials, including all power, water sand & cement & joining materials all as per the approved drawing & design furnished by the architect /Stapathy.	Nos.	
	Supply of Stone at Site		
	Total	Nos.	1.00
	Designing, Sculpting, Carving, Finishing		
	Total	Nos.	1.00
	Installation and Fixing		
	Total	Nos.	1.00
	Handover		
	Total	Nos	1.00
	1400 mm ht 4 nos idols		
	Supply of Stone at Site		
	Total	Nos	4.00
	Designing, Sculpting, Carving, Finishing		
	Total	Nos	4.00
	Installation and Fixing		
	Total	Nos	4.00
	Handover		
	Total	Nos	4.00
	3700 mm Ht Shiva Idol		
	Supply of Stone at Site		
	Total	Nos	1.00
	Designing, Sculpting, Carving, Finishing		
	Total	Nos	1.00
	Installation and Fixing		
	Total	Nos	1.00

Sr. No.	Description	Unit	QTY.
	Handover		
	Total	Nos	1.00
	Relief work pannels	Nos	
	Supply of Stone at Site		
	Total	Nos	1.00
	Designing, Sculpting, Carving, Finishing		
	Total	Nos	1.00
	Installation and Fixing		
		Nos	1.00
	Handover		
	Total	Nos	1.00
15	STONE PILLARS TYPE A – 2800 HT :		
	DESIGNING AND SCULPTING ORNAMENTAL 4 SIDED STONE PILLAR made out of BANSI PAHARPURA SAND STONE in different layers fixed on to RCC base & column, comprising of bottom base of size 775mm x 150mm ht over which a 750mm x 350mm ht carved with design base is placed over which a coloumn portion of 575 mm x 1340mm ht is placed all faces carved as per design & detail over which unit of 550mm x 350mm ht is placed with 2 nos stone panel on either side over which a capital made of two pieces of 300mm ht + 350mm ht is placed, complete including all offsets, designs & carvings, To a total height of pillar being 2800 mm		
	All exposed surfaces shall be 3 line dressed. Rate to include all scaffolding, staging, suitable capacity mobile crane for erection, shifting . transport including all raw stone , tools & tackles, grouting materials, including all power, water sand & cement & joining materials all as per the approved drawing & design furnished by the Architects / Stapathy	Nos.	
	Supply of Stone at Site		
	Total	Nos.	129.00
	Designing, Sculpting, Carving, Finishing		
	Total	Nos.	129.00

Sr. No.	Description	Unit	QTY.
	Installation and Fixing		
	Total	Nos.	129.00
	Handover		
	Total	Nos	129.00
	DESIGNING, SCULPTING AND FIXING OF STONE RAILING		
	Complete solid stone pillar without RCC column		
	Ornamental Stone bottom railing		
	Supply of Stone at Site		
	Total	Rmt	1504.11
	Ornamental Stone top railing		
	Supply of Stone at Site		
	Total	Rmt	1534.89
	Ornamental posts		
	Supply of Stone at Site		
	Total	Rmt	647.00
	Designing, Sculpting, Carving, Finishing		
	Total	Rmt	647.00
	Installation and Fixing		
	Total	Rmt	647.00
	Handover		
	Total	Nos	647.00
	Balustrade of 250mm x 250mm x 900mm ht placing 400mm c/c	Nos	
	Supply of Stone at Site		
	Total	Nos	5405.00
	Designing, Sculpting, Carving, Finishing		
	Total	Nos	5405.00
	Installation and Fixing		
	Total	Nos	5405.00
	Handover		
	Total	Nos	5405.00

Sr. No.	Description	Unit	QTY.
	Boundry wall murals Art work (om)	Nos	
	Supply of Stone at Site		
	Total	Nos	788.69
	Designing, Sculpting, Carving, Finishing		
	Total	Nos	788.69
	Installation and Fixing		
	Total	Nos	788.69
	Handover		
	Total	Nos	788.69
16	Providing, laying and jointing following P.V.C. pipes with solvent cement joint for 6, 8 and 10 kg/ sq. cm. pressures including testing of joints, cost of jointing materials etc. complete in all respect. [Conform to IS 4985:2000 and IS 7634 Rates (in Rs.) (PT-3)		
	110 mm dia.		
	Total	Rmt.	241.26
19	Providing and laying below ground unplasticised PVC pipe to with stand working pressure of 4 kg/cm2 soild waste pipes confirming to IS:13592 and IS:4985 including jointing with seal ring confirming to IS :5282 leaving 10mm gap for thermal expansion all necessary fittings etc. complete.		
	160 mm diameter OD		
	Supply	60%	106.00
	Installation	20%	106.00
	Testing and Commissioning	10%	106.00
	Handover	10%	106.00
	110 mm diameter OD		
	Supply	60%	873.31
	Installation	20%	873.31
	Testing and Commissioning	10%	873.31
	Handover	10%	873.31

Sr. No.	Description	Unit	QTY.
20	Constructing one brick masonry chamber 60x45x50 cm inside, with 40 class designation brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for water meter complete with C.I. double flap surface box 400x200x200 mm (inside) with locking arrangement. RCC top slab of cement concrete grade M-20 (Nominal Mix with 20mm maximum size of stone aggregate) along with necessary excavation, 100mm thick foundation concrete grade M-7.5 (Nominal Mix with 40mm maximum size of stone aggregate) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design.		
	Qty. Wide MB No 226 P No. 83		
	Total	Each	12.00
21	Centering and shuttering including strutting propping etc.and removal of form for :		
	Stairs, (excluding landings) except spiral-staircases.		
	Total	sqm	351.67
22	Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.		
	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.		
	Total	kg	15708.43
23	Providing and fixing 16mm thick gang saw cut mirror polished premoulded and prepolished) machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edge to give high gloss finish etc. complete at all levels.		
	Granite of any colour and shade		
	Area of slab over 0.50 sqm.		
	Total	sqm	6109.62
	Area of slab upto 0.50 sqm.		

Sr. No.	Description	Unit	QTY.
	Qty. Wide MB No 226 P No. 83		
		PR	
	Total	sqm	517.79
24	P.V.C. membrane available in range of U.V. stabilized color, 950 gsm, tear strength 30/28 dan and varnish both side and maximum operating temperatures 30* c/+ 70* C. Heat welded at Joints. Membrane joints are heat welded so there is no waterproofing on maintenance required . Membrane chargeable area of covering will be the surface area of fabric used with fitting. FABRIC MAKE: Ferrari 902s of 950 GSM warranty 12 years		
	Total	sqm	3231.92
25	Providing laying, testing and commissioning of 'C' class heavy duty MS pipe confirming to IS 1239/3589 i/c fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. in ground including excavation and providing cement concrete blocks as supports, a		
	150mm dia		
	Supply		
	Total	metre	1828.00
	Installation		
	Total	metre	1828.00
	Testing &Commissioning		
	Total	metre	1828.00
	Handover		
	Total	metre	1828.00
	80mm dia		
	Supply		
	Total	metre	212.20
	Installation		
	Total	metre	212.20
	Testing &Commissioning		
	Total	metre	212.20
	Handover		

Sr. No.	Description	Unit	QTY.
	Total	metre	212.20
26	13.5 Providing, Laying and Jointing non-pressure (NP4) RCC socket & spigot pipes with rubber gasket joint including testing of joints. [Conforming to IS ; 458-1988, ISI marked laying as per IS 783:1985)		
	230 mm dia		
	Supply		
	Total	metre	49.93
	Installation		
	Qty. Wide MB No 226 P No. 87		
	Total	metre	49.93
	Testing &Commissioning		
	Total	metre	49.93
	Handover		
	Total	metre	49.93
	300 mm dia		
	Supply		
	Total	metre	612.46
	Installation		
	Total	metre	612.46
	Testing &Commissioning		
	Total	metre	612.46
	Handover		
	Total	metre	612.46
	450 mm dia		
	Supply		
	Total	metre	209.45
	Installation		
	Total	metre	209.45
	Testing &Commissioning		

Sr. No.	Description	Unit	QTY.
	Total	metre	209.45
	Handover		
	Total	metre	209.45
	600 mm dia		
	Supply		
	Total	metre	146.22
	Installation		
	Total	metre	146.22
	Testing &Commissioning		
	Total	metre	146.22
	Handover		
	Total	metre	146.22
	900 mm dia		
	Supply		
	Total	metre	160.50
	Installation		
	Total	metre	160.50
	Testing &Commissioning		
	Total	metre	160.50
	Handover		
	Total	metre	160.50

Sr. No.	Description	Unit	QTY.
27	Constructing brick masonry moudlar brick class designation 40 manhole in cement mortar 1:4 (1 cement : 4 sand) R.C.C. top slab with Cement concrete grade M-20 (Nominal Mix with 20mm maximum size of stone aggregate), 20 cm thick foundation concrete grade M-7.5 (Nominal Mix with 40mm maximum size of stone aggregate) inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 sand) finished with floating coat of neat cement and making channels in cement concrete grade M-15 (Nominal Mix with 20mm maximum size of stone aggregate) as per standard design. The sizes of manhole and manhole covers as detailed below.		
	Manhole inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :		
	Total	each	142.00
28	Extra for depth for manholes. With Modular bricks class designation 40		
	Size 90x80 cm		
	Total	sqm	28.61
	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths interlocked together through their entire length and jointed together at the end by end locks mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete including the cost of providing and fixing necessary 27.5cm long wire springs grade No.2 and M.S. top cover of required thickness for rolling shutters.		
	80x1.25mm M.S. laths with 1.25 mm thick top cover.		
	Total	sqm	452.87
29	12 mm cement plaster of mix :		
	1:4 (1 cement: 4 fine sand)		
	Total	sqm	7209.31

Sr. No.	Description	Unit	QTY.
30	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).		
	Total	kg	114309.45
31	Constructing one brick masonry chamber 30x30x50 cm inside, with 25 class designation modular brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for stop cock,with C.I. surface box 100x100x75 mm (inside) with hinged cover fixed in slab of cement concrete grade M-20 (Nominal Mix with 20mm maximum size of stone aggregate) necessary excavation 75 mm thick foundation concrete grade M-7.5 (Nominal Mix with 40mm maximum size of stone aggregate) & inside plastering with cement mortar 1:3 (1 cement : 3 sand) 12 mm thick finished with a floating coat of neat cement complete as per standard disign :		
	Total	each	19.00
32	Providing and fixing unplasticised Rigid PVC soil and waste pipes confirming to IS: 13592 Type B including jointing with seal ring confirming to IS:5382 leaving 10 mm gap for thermal expansion Single socket pipes for working pressure of 4kg/sqcm.		
	110 mm diameter (minimum) wall thickness 3.2mm)		
	Total	Rmt	206.05

Sr. No.	Description	Unit	QTY.
33	DESIGNING AND SCULPTING ORNAMENTAL 4 SIDED STONE PILLAR made out of BANSI PAHARPURA SAND STONE in different layers fixed on to RCC base & column, comprising of bottom base of size 1250MM X 600MM HT over which a unit of 1200mm x 250mm ht is placed over which a unit of 1200mm x 580mm unit carved on all 4 faces as per design & detail is placed over which coloumn portion of 800 mm x 2400mm ht is placed all faces carved as per design & detail over which unit of 800mm x 300mm ht is placed with 2 nos stone panel on either side over which a capital made of two pieces of 500mm ht +580mm ht is placed, complete including all offsets, designs & carvings . To a total height of pillar being 5200 mm	Nos	
	Supply of Stone at Site		
	Total	Nos	25.00
	Designing, Sculpting, Carving, Finishing		
	Total	Nos	25.00
	Installation and Fixing		
	Total	Nos	25.00
	Handover		
	Total	Nos	25.00
	Cladding Works		
34	Designing, Providing and fixing dry cladding with 30mm thick Fiberglass reinforced Plastic , fixed to structural steel frame work and/ or with the help of cramps, pins etc. and sealing the joints with approved weather sealant as per Architectural drawing and direction of Engineer-in-charge. (The steel frame work, stainless steel cramps and pins etc. shall be paid for separately.)		
	Total	sqm	4319.43
35	Supplying and stacking of good earth at site including royalty and carriage up to 1 km (earth measured in stacks will be reduced by 20% for payment).		
	Total	cum	5635.43
36	Supplying and stacking sludge at site including royalty and carriage up to 1 km (sludge measured in stacks will be reduced by 8% for payment).		

Sr. No.	Description	Unit	QTY.
	Total	cum	1371.09
37	Uprooting rank vegetation and weeds by digging the area to a depth of 60cm removing all weeds and other growth with roots by forking repeatedly, breaking clods, rough dressing, flooding with water, uprooting fresh growths after 10 to 15 days and then fine dressing for planting new grass, including disposal of all rubbish with all leads and lifts.		
	Total	100 sqm	120.87
38	Fine dressing the ground		
	Total	100 sqm	84.24
39	Spreading of sludge, dump manure or/and good earth in required thickness (Cost of sludge, dump manure or/ and good earth to be paid separately).		
	Total	cum	7503.78
40	Mixing earth and sludge or manure in proportion specified or directed.		
	Total	cum	1304.73
41	Trenching in ordinary soil up to a depth of 60cm including removal and stacking of serviceable materials and then disposing of by spreading and neatly levelling with in a lead of 50m and making up the trenched area to proper levels by filling with earth or earth mixed with sludge or/and manure before and after flooding trench with water (excluding cost of imported earth, sludge or manure).		
	Total	cum	2948.78
42	Providing and fixing Ist quality ceramic glazed wall tiles conforming to IS : 15622 (6 to 7mm thick) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete.		
	Total	sqm	1798.17

Sr. No.	Description	Unit	QTY.
43	Providing and laying Ceramic glazed floor tiles 300x300 mm (9 to 10 mm thick) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick Cement Mortar 1:4 (1 Cement : 4 Coarse sand) including pointing the joints with white cement and matching pigment etc., complete.		
	Total	sqm	608.84
44	Kota stone slab 25mm thick flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete with base of cement mortar (1 cement : 4 course sand) 1 : 4 (minimum size of kota stone 0.25 sqm)		
	Total	sqm	333.39
45	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering. All work up to plinth level.		
	Cement concrete grade M-10 (Nominal Mix) with 20 mm maximum size of stone aggregate		
	Total	cum	4506.22
46	Providing and laying in position machine batched machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work including pumping of concrete to site of laying but excluding the cost of centering shuttering finishing and reinforcement. including Admixtures in recommended proportions as per IS 9103 to accelerate retard setting of concrete improve workability without impairing strength and durability as per direction of Engineer-in-charge. M-30 grade reinforced cement concrete by using 420 kg. of cement per cum of concrete. All work up to floor 2 level.		
	Total	cum	22178.73
47	Providing and fixingin position 12mm thick bitumen impregnated fibre board conforming cost of primer,sealing compound in expansion joints		
	Total	sqmt	1399.12

Sr. No.	Description	Unit	QTY.
48	Provind and placing in position suitable PVC water stops conforming to IS : 12200 for construction/expansion joints between two RCC members and fixed to the reinforcement with binding wire before pouring concrete etc. complete:		
	Dump bell with central bulb (180mm wide,8mm thick)		
	Total	meter	98.70
52	6.3 Brick work with chimeny brick of class designation 40 in superstructure above plinth level upto floor 2 level including the cost of scaffolding in :		
a	Cement mortar 1:4 (1 cement : 4 coarse sand)		
	Total	Cum	248.61
b	Cement mortar 1:6 (1 cement : 6 coarse sand)		
	Total	Cum	737.93
53	Providing and laying autoclaved aerated cement blocks masonry with 100mm thick AAC blocks in super structure above plinth level up to floor II level in cement mortar 1:4 (1 cement : 4 coarse sand) includes providing and placing in position 2 Nos. 6 mm dia M.S. bars every third course of masonry work		
	Total	Cum	1274.97
54	Pipes, cables etc. exceeding 300 mm dia. but not exceeding 600 mm dia		
	Total	rm	169.17
55	Centering and shuttering including strutting propping etc.and removal of form for :		
	Weather shade, Chajjas, corbels etc., including edges		
	Total	sqm	894.41
56	Supply of I.S.I. marked G.I. casing pipe (Plain) medium class in 4 to 7 meters length one end fitted with socket as per I.S. 1239 (Part-1 & Part-2) 1992 with lvth revision (Up-to-date amendments)		
	150mm dia		
	Total	Meter	78.00
57	20 mm cement plaster of mix :		

Sr. No.	Description	Unit	QTY.
	1:4 (1 cement: 4 fine sand)		
	Total	sqm	699.74
58	Centering and shuttering including strutting, propping etc. and removal of form for :		
	Coffer / waffle slab of any size or shape as shown in the drawing.		
	Total	sqm	3061.88
59	Providing and Fixing of sky lights consisting of Multi cell/tight cell Polycarbonate Panel System of approved colour, 16 mm thick (minimum) having uniform in color with an integral Tight-Cell core constructed not to exceed 4mmx4mm in a cross section, Vertical Standing Seam manufactured at both sides of the panel. Snap-on connector to interlock the panels shall have a grip-lock double tooth locking mechanism to ensure maximum uplift capability and shall be of same color as that of panel. Panel shall be factory sealed/end welded panels with additional End-cap/Aluminium U-Profile (mill finish) for ends. Panel shall be co-extruded with special anti glare compound and UV protected. The full system shall be fitted on MS purlins perpendicular to direction of sheeting with purlin spacing as specified by Manufacturer. The rate includes cost of all the operations, labour and all materials and tests (as applicable) involved such as bolts nuts and screws etc. and labour for cutting bending to required profile, necessary scaffolding, hoisting in position etc. for proper completion of the work etc. complete as per specification drawings and direction of Engineer in charge. Finished surface area of roofing fixed over steel tublar structure shall be measured for payment. MS tabular frame work shall be measured separately for payment.		
	10mm thick		
	Total	sqm	1683.68
60	Extra for shuttering in circular work 20% of respective		
	Foundations footings bases of columns etc. For mass concrete.		
	Total	sqm	499.77
	Wall (any thickness including attached pillars, butteress, plinth and string coursees etc.)		
	Total	sqm	2865.14
	Columns, Pillars, Piers, Abutments, Posts and Struts.		
	Total	sqm	134.51

Sr. No.	Description	Unit	QTY.
	Stairs, (excluding landings) except spiral-staircases.		
	Total	sqm	63.16
	Weather shade, Chajjas, corbels etc., including edges		
	Total	sqm	135.20
61	Flooring with Cobble stone of approx. Size 125x125x75 mm (thick) laid on 25 mm average thick cement mortar 1:3 (1 cement : 3 Coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the stone, laid in approved pattern complete in all respect as per direction of Engineer-in-charge.		
		PR	
	Total	sqm	28878.96
62	Construction of dry lean cement concrete Sub-base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table of MORTH Specifications 600-1, cement content not to be less than 200 kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with paver with electronic sensor/mechanical paver, compacting with 8-10 tonnes vibratory roller, finishing and curing and as per relevant clauses of section-603.		
	Total	cum	439.66

Sr. No.	Description	Unit	QTY.
63	Construction of dowel jointed, plain cement concrete pavement in M-40 grade concrete over a prepared sub base with 43 or higher grade cement, maximum size of coarse aggregate not exceeding 25 mm, mixed in a batching and mixing plant as per approved mix design, transported to site, laid with a fixed form or slip form paver with electronic sensor, spread, compacted and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealant, debonding strip, placing of dowel bar and tie rod, admixtures as approved, curing compound, finishing to lines and grades as per approved drawings as per IRC-15 2002 and as per relevant clauses of section-602 of of MORTH specifications complete but excluding cost of steel in dowel bar & tie rod etc.		
64	Add extra in Item No.- 6.3 & 6.5 above for the cost of stell in dowel bar and tie rod etc. required as per design.		
	Mild Steel dowel bars (0.500mtr long, 25 mm dia, 300mm c/c)		
	Total	mt	2.96
65	Providing and laying polished vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption's less than 0.08% and conforming to IS : 15622 of approved make in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc., complete.		
	Size of Tile 100x100 cm x 10 mm		
	Total	sqm	5381.03
	Fastener with threaded dia 10 mm.		
	Total	EACH	1960.00
	NON SOR NON BOQ ITEM		
	Supply of Stone at Site		
	Total	Nos	0.00
	Designing, Sculpting, Carving, Finishing		
	Total	Nos	0.00
	Total	-	-

Sr. No.	Description	Unit	QTY.
66	LIST OF 10'-0" SCULPTURES & THEIR AREA		
	Total	-	-
67	LIST OF 11'-0" SCULPTURES & THEIR AREA		
	Total	-	-
	Total	-	-
68	LIST OF 18'-0" & 25'0" SCULPTURES & THEIR AREA		
	Total	-	-
69	All exposed surfaces shall be 3 line dressed. Rate to include all scaffolding, staging, suitable capacity mobile crane for erection, shifting . transport including all raw stone , tools & tackles, grouting materials, including all power, water sand & cement & joining materials all as per the approved drawing & design furnished by the Architects / Stapathy A. 2100mm height will execute on site as per drawing	Nos	
	Supply of Stone at Site		
	Designing, Sculpting, Carving, Finishing		
	Total	Nos	52.00
	Installation and Fixing		
	Handover		
	Total	Nos	52.00
70	All exposed surfaces shall be 3 line dressed. Rate to include all scaffolding, staging, suitable capacity mobile crane for erection, shifting . transport including all raw stone , tools & tackles, grouting materials, including all power, water sand & cement & joining materials all as per the approved drawing & design furnished by the Architects / Stapathy A. 6800mm height will execute on site as per drawing	Nos	
	Supply of Stone at Site		
	Designing, Sculpting, Carving, Finishing		
	Total	Nos	53.00
	Total	Nos	53.00
	Handover		

Sr. No.	Description	Unit	QTY.
	Total	Nos	53.00
71	DESIGNING AND SCULPTING ORNAMENTAL 4 SIDED STONE PILLAR made out of BANSI PAHARPURA SAND STONE in different layers fixed on to RCC base & column, comprising of bottom base of size 1250MM X 600MM HT over which a unit of 1200mm x 250mm ht is placed over which a unit of 1200mm x 580mm unit carved on all 4 faces as per design & detail is placed over which coloumn portion of 800 mm x 2400mm ht is placed all faces carved as per design & detail over which unit of 800mm x 300mm ht is placed with 2 nos stone panel on either side over which a capital made of two pieces of 500mm ht +580mm ht is placed, complete including all offsets, designs & carvings . To a total height of pillar being 6000 mm	Nos	
	Supply of Stone at Site		
	Designing, Sculpting, Carving, Finishing		
	Total	Nos	65.00
	Total	Nos	65.00
	Total	Nos	65.00
72	DESIGNING AND SCULPTING ORNAMENTAL 4 SIDED STONE PILLAR made out of BANSI PAHARPURA SAND STONE in different layers fixed on to RCC base & column, comprising of bottom base of size 1250MM X 600MM HT over which a unit of 1200mm x 250mm ht is placed over which a unit of 1200mm x 580mm unit carved on all 4 faces as per design & detail is placed over which coloumn portion of 800 mm x 2400mm ht is placed all faces carved as per design & detail over which unit of 800mm x 300mm ht is placed with 2 nos stone panel on either side over which a capital made of two pieces of 500mm ht +580mm ht is placed, complete including all offsets, designs & carvings . To a total height of pillar being 2800 mm	Nos	

Sr. No.	Description	Unit	QTY.
	All exposed surfaces shall be 3 line dressed. Rate to include all scaffolding, staging, suitable capacity mobile crane for erection, shifting . transport including all raw stone , tools & tackles, grouting materials, including all power, water sand & cement & joining materials all as per the approved drawing & design furnished by the Architects / Stapathy		
	Supply of Stone at Site		
	Total	Nos	47.00
	Designing, Sculpting, Carving, Finishing		
	Total	Nos	47.00
	Installation and Fixing		
	Total	Nos	47.00
	Handover		
	Total	Nos	47.00
73	DESIGNING AND SCULPTING ORNAMENTAL 4 SIDED STONE PILLAR made out of BANSI PAHARPURA SAND STONE in different layers fixed on to RCC base & column, comprising of bottom base of size 1250MM X 600MM HT over which a unit of 1200mm x 250mm ht is placed over which a unit of 1200mm x 580mm unit carved on all 4 faces as per design & detail is placed over which coloumn portion of 800 mm x 2400mm ht is placed all faces carved as per design & detail over which unit of 800mm x 300mm ht is placed with 2 nos stone panel on either side over which a capital made of two pieces of 500mm ht +580mm ht is placed, complete including all offsets, designs & carvings . To a total height of pillar being 3000 mm	Nos	
	Supply of Stone at Site		
	Total	Nos	40.00
	Designing, Sculpting, Carving, Finishing		
	Total	Nos	40.00
	Installation and Fixing		
	Total	Nos	40.00
	Handover		
	Total	Nos	40.00
74	Plants		

Sr. No.	Description	Unit	QTY.
	Lantana camara orange		
	Total	EACH	640.00
	Lantana camara yellow		
	Total	EACH	3385.00
	Dianella tasmanica		
	Total	EACH	635.00
	Alpinia		
	Total	EACH	3800.00
	Tradescantia spathacea		
	Total	EACH	5765.00
	Murraya paniculata		
	Total	EACH	480.00
	Stachytarpheta jamaicensis		
	Total	EACH	400.00
	Combretum indicum		
	Total	EACH	200.00
	Duranta erecta		
	Total	EACH	866.00
	Chlorophytum		
	Total	EACH	10725.00
	Tagar		
	Total	EACH	3635.00
	Dracena mahatma		
	Total	EACH	600.00
	Hibicus white/ pink		
	Total	EACH	8089.00
	Russelia		
	Total	EACH	300.00
	Drawf ixora		
	Total	EACH	240.00
	Nerium		
	Total	EACH	500.00
	Bougainvillea glabra		
	Total	EACH	400.00
75	Digging holes of 30x30		

Sr. No.	Description	Unit	QTY.
	Total	EACH	96188.00
76	Planting of hedge/ Ground cover		
	Total	EACH	96188.00
77	Anti termite Plants		
	Total	EACH	15397.00
78	Tree		
	Saptparni		
	Total	EACH	3.00
	Neolammarckia cadamba		
	Total	EACH	0.00
	Sheesham		
	Total	EACH	5.00
	Classic fistula		
	Total	EACH	20.00
	Parijat		
	Total	EACH	2.00
	Mango		
	Total	EACH	0.00
	Jamun		
	Total	EACH	0.00
	African tulip tree		
	Total	EACH	7.00
	Goolar		
	Total	EACH	0.00
79	Digging holes of 60x60		
	Total	EACH	336.00
80	Planting of tree		
	Total	EACH	336.00

Sr. No.	Description	Unit	QTY.
81	Providing and laying integral cement based water proofing treatmentincluding preparation of surface as required for treatment of roofs,balconies, terraces etc consisting of following operations: (a) Applying a slurry coat of neat cement using 2.75 kg/sqm. ofcement admixed with water proofing compound conforming to IS.2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300mm height including cleaning thesurface before treatment. (b) Laying brick bats with mortar using broken bricks/brick bats 25mm to 115mm size with 50% of cement mortar 1:5 (1 cement : 5coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thicklayer of cement mortar of mix 1:5 (1 cement :5 coarse sand) admixedwith water proofing compound conforming to IS : 2645 and approvedby Engineer-in-charge to required slope and treating similarly theadjoining walls upto 300 mm height including rounding of junctions of walls and slabs		
	(c) After two days of proper curing applying a second coat of cement slurry using 2.75kg/sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-incharge. (d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-incharge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3mm deep. (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. All above operations to be done in order and as directed and specified by the Engineer-in-Charge :		
	With average thickness of 120mm and minimum thickness at khurra as 65 mm.		

Sr. No.	Description	Unit	QTY.
82	Providing and laying flamed finish Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing , curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge : a) Flamed finish granite stone slab Jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent.		
	Total	SQM	4957.00
83	Spray painting in approved shade and approved quality with Duco paint of required colour to give even shade with two or more coats by compressor including sand papering, NC putty filler coat etc complete in all respect as per design given by Engineeer incharge on new work.		
	Total	SQM	5319.42
84	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing and staircase railing including applying a priming coat of approved steel primer.		
	Total	kg	50244.73

Sr. No.	Description	Unit	QTY.
85	Providing and fixing at all height false ceiling including providing and fixing of frame work made of special sections power pressed from M.S. sheet and galvanised in accordance with zinc coating of grade 350 as per IS : 277 and consisting of angle cleats of size 25mm wide x 1.6mm thick with flanges of 22mm and 37mm at 1200mm centre to centre one flange fixed to the ceiling with dash fastener 12.5mm diax40mm long with 6mm dia bolts to the angle hangers of 25x25x0.55mm of required length, and other end of angle hanger being fixed with nut and bolts to G.I. channels 45x15x0.9mm running at the rate of 1200mm centre to centre to which the ceiling section 0.5mm thick button wedge of 80mm with tapered flanges of 26mm each having clips of 10.5mm at 450mm centre to centre shall be fixed in a direction perpendicular to G.I. channel with connecting clips made out of 2.64mm dia 230mm long G.I. wire at every junction including fixing the gypsum board with ceiling section and peri meter channels 0.5mm thick 27mm high having flanges of 20mm and 30mm long, 12.5 mm thick tapered edge gypsum board conforming to IS: 2095- Part I.		
86	Providing and fixing in wall lining flat pressed three layer (medium density) particle board or graded wood Prelaminated one side decorative lamination, on other side balancing lamination Grade I, Type II, IS : 12823 marked including priming coat on unexposed surface, with necessary fixing arrangement and screws etc. complete : 25 mm thk		
	Total	sqm	269.86
87	9mm thick non asbestos,heavy duty fibre cement board reinforced with cellulose fibre manufactured through autoclaving process(High pressure steam cured) Type A,Category 4, conforming to IS 14862.		
	9mm Thick		
	Total	sqm	399.79
88	Providing and Fixing factory made laminated 100% solid PVC flush door shutter (28mm thickness) made from rigid PVC foam sheet (Single Extruded) with density 600 kg/cum and laminated on oth sides by laminated sheet/PVC foil lamination at the manufacturing precess itself.ified company. 28 mm thick pre laminated solid PVC flush door shutter		
	Total	sqm	207.11

Sr. No.	Description	Unit	QTY.
89	Providing and Fixing factory made 100% solid wood plastic composite (WPC) door frames made from wood plastic composite (Single Extruded process) material with density 0.28 kg/cum and manufactured by an ISO: 9001-2000 certified company. Water absorption no mere than 0.01% cum. WPC door frame single rebate (90 mm X 45 mm)		
90	Finishing walls with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :		
	Two or more coats applied @ 1.25 ltr/10 sqm. over and including one coat of Special primer applied @ 0.75 ltr/10 sqm.		
91	Providing and fixing uPVC Trap of self cleaning design complet. Including cost of cutting and making good wall and floors.		
	100 mm inlet & 75 mm outlet		
92	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.		
	Semi rigid pipe		
	40mm dia		
	Total	each	126.00
93	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plane and brass threaded fitting i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall.		
	40 mm nominal outer dia .Pipes.		
	Total	Meter	393.21
	50 mm nominal outer dia .Pipes.		
	Total	Meter	34.73
94	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work including cutting chases and making good the walls etc.		

Sr. No.	Description	Unit	QTY.
	20 mm nominal outer dia .Pipes.		
	Total	Meter	101.09
	Total	Meter	46.27
	32 mm nominal outer dia.Pipes.		
	Total	Meter	217.10
95	Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete grade M-15 (Nominal Mix with 20mm maximum size of stone aggregate) cement plastered on both sides with cement mortar 1:3 (1 cement : 3 sand) finished with a floating coat of neat cement and making necessary channels for the drain etc. complete :		
	For pipes 250 to 300 mm diameter		
96	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge. External work		
	62.50 mm nominal inner dia Pipes.		
	Total	Meter	179.47
	50 mm nominal outer dia .Pipes.		
	40 mm nominal outer dia .Pipes.		
	Total	Meter	0.00
	For fixed portion.		
	Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)		
97	5.5mm Toughened Glass (As per USCL other tender)		
	Total	SQM	63.54
	Total	sqm	5993.33
98	Antitermite for lawns		
	Total	sqm	5993.33
	Total	EACH	5.00
	Total	EACH	4.00
	Ficus (golar)		
	Champa michelia		

Sr. No.	Description	Unit	QTY.
	Total	EACH	12.00
	Bahuniya (kachnar)		
	Mango		
	Total	EACH	18.00
	Jamun		
	Total	EACH	2.00
	Morsali		
	Total	EACH	5.00
	Total	EACH	4.00
99	6 mm cement plaster of mix :		
	Total	sqm	7663.36
100	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete		
101	Marble stone flooring with 16mm to 18mm thick marble stone (sample of marble shall be approved by Engineer-in-charge of Laid over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) jointed with grey cement slurry including rubbing and polishing complete with :		
	Total	sqm	207.25
	8 mm dia bar 10 mm dia hole		
	Total	Per 100mm	1506.00
	10 mm dia bar 12 mm dia hole		
	Total	Per 100mm	2709.00
	12 mm dia bar 16 mm dia hole		
	Total	Per 100mm	3.00
	16 mm dia bar 20 mm dia hole		
	Total	Per 100mm	191.00
	20 mm dia bar 25 mm dia hole		
	Total	Per 100mm	291.00
	25 mm dia bar 32 mm dia hole		
	Total	Per 100mm	42.00

Sr. No.	Description	Unit	QTY.
102	Stone work (machine cut edges) for Wall cladding/ Veneering work up to 10 m height with 20 to 30 mm thick Pink Sand stone (Bansi Paharpur) and backing filled with a grout of 12mm thick cement mortar 1:3 (1 cement : 3 coarse sand) including pointing in white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade : (To be secured to the backing by means of cramps which shall be paid separately)		
	Total	**sqm**	516.90
103	Providing and fixing of White Marbles circular/oval in shape (stone) pebbles of size 2"to 2.50" dia in natural colour at site of work including loading, unloading, carriage with all taxes paid etc. and as per direction of Engineer-in-Charge.		
	Total	KG	24550.00
104	Providing, laying, Jointing & field testing of High Density Polyethylene pipes, (HDPE) confirming to IS 4984/ 14151/ 12786/ 13488 with necessary jointing material like mechanical connector or jointing pipes by heating to the ends of pipes with the help of Teflon coated electric mirror/ heater to the required temperature and then pressing the ends together against each other, to form a monolithic & leak proof joint by thermosetting process. It may be required to be done with Jacks/Hydraulic Jacks/ But fusion machine. (50mm & above fusion jointed & below 50mm mechanical jointed) PE-100 8 Kg/sq.cm :		
	125 mm dia		
	Total	RM	338.70
	Total	RM	786.20
105	Providing and laying Bend 90 confirming to IS specifications. 8 Kg/sq.cm :		
	125 mm dia		
	110 mm dia		
	Total	Each	3.00
106	Providing and laying Equal Tee confirming to IS specifications. 8 Kg/sq.cm :		
	Total	Each	2.00
	110 mm dia		

Sr. No.	Description	Unit	QTY.
107	Providing and laying Reducer 8 kg/sq.cm: confirming to IS specifications. 8 Kg/sq.cm :		
	125 mm dia		
	110 mm dia		
	Total	Each	2.00
	125 mm dia		
	Total	Each	5.00
	110 mm dia		
	Total	Each	11.00
108	Providing and fixing of Perforated Gypsum board with Acoustical Glass Fiber Tissue faced panel of Size 595x595x12.5mm, Square 10mm Perforation tiles (Square Edge) false ceiling panels in true horizontal level suspended on interlocking metal grid of hot dipped galvanized steel section (Galvanized @ 120 gms/sqm both sides inclusive) consisting of main "T" runner with suitably spaced joint to get required length and of size 24x32 mm made from 0.30 mm thick (minimum) sheet spaced joints to get required length and of size 24x26 mm made of 0.30 mm thick (minimum)sheet spaced at 1200 mm long spaced between main "T" at 600 mm centre to centre to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.4 mm and laying false ceiling tiles of approved Perforation in the grid including, wherever required, cutting/ making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors, etc. Main "T" runners to be suspended from ceiling using GI slotted plates of size 27x37x25x1.6 mm fixed to ceiling with 12.50 mm dia and 40 mm long dash fasteners, 4 mm GI adjustable rods with galvanized butterfly level clips of size 85x30x0.80 mm spaced @ 1200mm centre to centre along with main T, bottom exposed width of 24mm of all T-sections shall be pre- painted with		
109	Supplying and fixing air vessel made of 250 mm dia, 8mm thick MS sheet, 1200 mm. in height with air release valve on top and flanged connection to riser, drain arrangement with 25mm dia gun metal wheel valve, with required accessories, pressure gauge .		
	Total	Each	1.00
	150 mm dia		
	Supply		

Sr. No.	Description	Unit	QTY.
	Total	Each	14.00
	Testing &Commissioning		
	Total	Each	14.00
	Handover		
	Total	Each	14.00
110	Supplying and fixing single headed external yard hydrant valve with 1 no. 63mm dia instaneous FM Gun metal coupling and cast iron wheel, ISI marked confirming to IS 5290 (Type -A) with blank gunmetal cap and chain as required.		
	Total	Each	50.00
	Installation		
	Total	Each	50.00
	Testing &Commissioning		
	Total	Each	50.00
	Total	Each	50.00
111	Providing & fixing cast iron butterfly valves including jointing & testing with cost of jointing material such as bolts, nuts and rubber insertion all complete as per IS :13095-1991		
	80 mm dia		
	Supply		
	Installation		
	Total	Each	46.00
	Testing &Commissioning		
	Total	Each	46.00
	Handover		
	Total	Each	46.00
	Supply		
	Total	Each	50.00
	Installation		
	Total	Each	50.00
	Testing &Commissioning		

Sr. No.	Description	Unit	QTY.
	Total	Each	50.00
	Handover		
	Total	Each	50.00
112	Supplying and fixing first -Aid hose reel with MS construction spray painted in post office red, confirming to IS 884 with upto date amendments, complete with the following as required.a) 20/30/40m long 20mm (nominal internal) dia water hose thermoplastic (textile reinfirced) type -2 as per IS 12585, b) 20mm (nominal internal) dia gun metal globe valve and nozzle., c) Drum and brakets for fixing the equipments on wall.d) Connections from riser with 40 mm dia stop valve (gun metal) and M.S. pipe		
	Supply		
	Total	Each	50.00
	Installation		
	Total	Each	50.00
	Testing &Commissioning		
	Total	Each	50.00
	Handover		
	Total	Each	50.00
113	Supplying and fixing hose cabinet of size 900mmx600mmx500mm made of 2 mm thick MS sheet with 6 mm thick glazed glass doors i/c necessary locking arrangement suitable to accommodate external hydrant with butterfly valve 2 nos. 15mtr. Long hose pipe, 1 no		
	Supply		
	Total	Each	50.00
	Installation		
	Total	Each	50.00
	Testing &Commissioning		
	Total	Each	50.00
	Handover		

Sr. No.	Description	Unit	QTY.
	Total	Each	50.00
114	Supplying and fixing 63mm gun metal branch pipe with 20 mm (nominal internal diameter) size gun metal nozzle conforming to IS 903, suitable for instaneous connection to interconnect hose pipe coupling as required.		
	Supply		
	Total	Each	75.00
	Installation		
	Total	Each	75.00
	Testing &Commissioning		
	Total	Each	75.00
	Handover		
	Total	Each	75.00
115	Supplying and fixing 4 way fire brigade connection of cast iron body with 4 nos. gun metal male instantaneous inlet couplings complete with cap and chain as required. For 150mm dia MS pipe connection, confirming to IS 904 as required.		
	Supply		
	Total	Each	3.00
	Installation		
	Total	Each	3.00
	Testing &Commissioning		
	Total	Each	3.00
	Handover		
	Total	Nos	3.00
116	Supplying and fixing 2 way FBC of CI body with 2 nos. gun metal male instantaneous inlet couplings complete with cap and chain as required. For 150mm dia MS pipe connection, confirming to IS 904 as required.		

Sr. No.	Description	Unit	QTY.
	Supply		
	Total	Each	1.00
	Installation		
	Total	Each	1.00
	Testing &Commissioning		
	Total	Each	1.00
	Handover		
	Total	Each	1.00
117	Supplying and fixing air vessel made of 250 mm dia, 8mm thick MS sheet, 1200 mm. in height with air release valve on top and flanged connection to riser, drain arrangement with 25mm dia gun metal wheel valve, with required accessories, pressure gauge a		
	Supply		
	Total	Each	1.00
	Installation		
	Total	Each	1.00
	Testing &Commissioning		
	Total	Each	1.00
	Handover		
	Total	Each	1.00
118	Providing and fixing of carbon-di-oxide type fire extinguishers consisting of welded M.S. cylindrical body, squeeze lever discharge valve fitted with pressure indicating guage internal discharge tube 30 cms long high pressure discharge hose, discharge no		
	Capacity 4.5 Kg.		
	Supply		
	Total	Each	120.00
	Installation		
	Total	Each	120.00
	Testing &Commissioning		

Sr. No.	Description	Unit	QTY.
	Total	Each	120.00
	Handover		
	Total	Each	120.00
119	Providing and fixing of ABC Powder type fire extinguishers consisting of welded M.S. cylinderical body, squeeze lever discharge valve fitted with pressure indicating guage internal discharge tube 30 cms long high pressure discharge hose, discharge nozzle		
	Capacity 5.0 Kg.		
	Supply		
	Total	Each	120.00
	Installation		
	Total	Each	120.00
	Testing &Commissioning		
	Total	Each	120.00
	Handover		
	Total	Each	120.00
120	15mm cement plaster on the rough side of single or half brick wall of mix :		
	1:4 (1 cement: 4 fine sand)		
	Total	sqmt	497.29
121	Providing and placing on at all floor levels high design HDPE (polyethylene) water storage tank ISI : 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.		
	Total	Ltr	38000.00

Sr. No.	Description	Unit	QTY.
122	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required :		
	White Vitreous china Orissa pattern W.C. pan of size 580x440mm with integral type foot rests		
	Total	Each	37.00
123	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931		
	15 mm nominal bore.		
	Total	Each	37.00
124	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I.brackets, 40mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete including painting of fittings and brackets, cutting and making good the walls and floors wherever required :		
	W.C. pan with ISI marked white solid plastic seat and lid.		
	Total	Each	56.00
125	Providing & fixing in position best indian (bonut size 24 mm, ceramic disc size 19 mm and min. body thickness 2 mm, nickle painting 0.10 micron and chrome plating 0.3 micron, quarter turn) 2 way Bib Cock.		
126	Providing & fixing in position best indian Health Facuets 8mm dia 1 meter long flaxible tube and wallv bracketwith N.R.V. (non returnm wall)		
	Total	Each	56.00

Sr. No.	Description	Unit	QTY.
127	Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS : 2556, C.I. trap with outlet grating and other couplings in C.P. brass including painting of fittings and cutting and making good the walls and floors wherever required :		
	Single half stall urinal with 5 litre P.V.C. automatic flushing cistern.		
	Total	Each	75.00
	Granite Stone of approved shade.		
	Total	sqm	65.28
128	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps,32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require :		
	Total	Each	51.00
129	Providing and fixing CP Brass waste coupling of approved quality and make for sink and wash basin		
	Waste coupling 31 mm of 79 mm length and 62 mm breadth		
	Total	Each	126.00
130	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931		
	15 mm nominal bore		
131	Providing and fixing C.P. brass grating of approved quality and make conforming to IS: specification.		
	100 mm dia.		
	Total	Each	182.00

Sr. No.	Description	Unit	QTY.
132	Providing and installation of acoustical wall panelling wood finish Slats made out of HDF board , Melamine / veneer laminated finish, perforated wooden grooved slats (2mm grooves @ 8mm centers) / (2mm Slats @16mm pitch) / (2mm grooves @ 32mm centers) / (2mm grooves @ 64mm centers), backlined with black acoustical fleece, tongue-groove edge for a seamless look, FR grade, of lineal dimension size 128mm x 2440mm x 16mm thick having density 1000Kg /m3, weight 12.8Kgs/m2 installed by using GI strut system. The GI strut system includes GI Cross channel having thickness 0.45mm, length 3600mm, knurled web 40mm, depth 10mm and equal flanges 15mm is fastened vertically/ horizontally at every 600mm centers. Aluminium core cross channel having thickness 0.5mm, length 2400mm, web 15mm and 27mm, depth 18mm and flanges of 7mm with suitable edge and centre brackets is then fixed perpendicular to the cross channel with the help of fasteners at every 400mm centers. Contractor to Provide expansion joints of 3mm at every 5mts bothways		
	Total	SQM	87.09
133	Providing and Installation of acoustical wall panelling fabric finish hardened square edge, FR grade fabric (colour as approved by Egnineer in charge) wrapped soft fibre core (glass fibre) panel having metal framing, of size 600x2100x25mm having density 100-120Kgs/ m3, weight 3.0kg/m2 NRC up to 0.9 installed by using impaling clip. Impaling clips are attached directly to the wall/frame work with the points extending outward. Then panels shall positioned and pressed into place.		
	Total	SQM	116.89
134	Supply, installation, testing & commissioning of skid mounted fully Automatic Reverse Osmosis of output capacity 40 LPH with appropriate thickness designed at a minimum Flux at inlet and necessary recovery: With Centralized Water Coolers of SS 304 MOC with 80 LPH cooling capacity with inbuilt storage capacity as per system (Minimum 100 Ltr) with insulation of required thickness & of appropriate material and with power supply of 220/ 230+/-10% volts, 1 phase 50 Hz A.C. supply		
	Total	Each	20.00

Sr. No.	Description	Unit	QTY.
135	Providing & fixing decorative 3 seater WPC Planks and cast iron support braket bench as per approved by Engineer-in-charge.size(1500x600x450)		
	Total	Each	154.00
136	Spiral Slider		
	Total	Each	1.00
137	Four seater Seasaw		
	Total	Each	1.00
138	Swing amne (Round swing Jhula)		
	Total	Each	1.00
139	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:		
	Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture.		
	Total	sqm	9555.86
140	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement: 5 coarse sand) and a top layer 6mm thick cement plaster 1:3 (1 cement: 3 coarse sand) finished rough with sponge.		
	Total	sqm	7228.85
141	Providing and fixing ISI marked **flush door** shutters conforming to IS: 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters using following hinges.		
	35mm thick including ISI marked stainless steel butt hinges with necessary screws.		
	Total	sqm	3.68
142	Providing and fixing aluminium sliding door bolts ISI marked anodised (anodic coating not less than grade Ac 10 as per IS:1868) transparent or dyed to required colour or shade with nuts and screws etc. complete:		
	300x16mm **Aldrop**		
	Total	Each	318.00

Sr. No.	Description	Unit	QTY.
143	Providing and fixing aluminium **tower bolts** ISI marked anodised (anodic coating not less than grade Ac 10 as per IS:1868 transparent or dyed to required colour or shade with necessary screws etc. complete:-		
	200x10mm for door		
	Total	Each	159.00
144	Providing and fixing aluminium **handies** ISI marked anodised (anodic coating not less than grade Ac 10 as per IS: 1868) transparent or dyed to required colour or shade with necessary screws etc. complete:		
	125mm for door		
	Total	Each	318.00
145	Providing and fixing aluminium handing **floor stopper** ISI marked anodised (anodic coating not less than grade Ac 10 as per IS: 1868) transparent or dyed to required colour or shade with necessary screws etc. complete:		
	Twin rubber stopper.		
	Total	Each	16.00
146	Providing and fixing 12 mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing top & bottom pivot & spring type fixing arrangement and making necessary holes etc. for fixing required door fittings, all complete as per direction of Engineer-in-charge (Door handle, lock and stopper etc.to be paid separately).		
	Total	sqm	51.90
147	Construction of cement concrete kerb with top and bottom width 115 and 165 mm respectively, 250 mm high in M 20 grade PCC on M-10 grade foundation 150 mm thick, foundation having 50 mm projection beyond kerb stone, kerb stone laid with kerb laying machine, foundation concrete laid manually, all complete and as per clause 408 of specifications.		
	Using Concrete Mixer		
	Total	meter	56.14

Sr. No.	Description	Unit	QTY.
148	Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface (Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 .The finished surface to be level, uniform and free from streaks and holes and as per relevant clauses of section-800.		
	Total	sqm	126.00
149	Providing & Fixing CPVC gate valve with knob of approved quality.		
a	25 mm nominal bore.		
	Total	Each	10.00
b	32 mm nominal bore.		
	Total	Each	34.00
c	40 mm nominal bore		
	Total	Each	30.00
d	50 mm nominal bore		
	Total	Each	25.00
150	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :		
a	15 mm nominal bore		
	Total	Each	5.00
b	20 mm nominal bore		
	Total	Each	9.00
c	25 mm nominal bore		
	Total	Each	5.00
151	Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (heavy duty) 560 mm internal diameter, total weight of cover and frame to be not less than 208 kg (weight of cover 108 kg and weight of frame 100 kg)		
	Total	Each	16.00

Sr. No.	Description	Unit	QTY.
152	Providing & fixing of ISI marked pre cast reinforced cement concrete manhole cover including frame and transporting at site, cost of all material etc.		
a	450 mm x 450 mm manhole cover		
	Total	Each	95.00
b	600 mm x 600 mm manhole cover		
	Total	Each	123.00
c	750 mm x 750 mm manhole cover		
	Total	Each	58.00
d	900 mm x 900 mm manhole cover		
	Total	Each	49.00
153	Add extra for providing reinforcement above Floor two level for every additional floor or part there of.		
	Total	Kg	124312.54
154	Add Extra in respective item for additional floor above floor two level.		
	Total	Each	0.00
155	Extra for full edge moulding		
	Total	Rm	5449.54
156	Providing and fixing cramps of required size & shape in RCC/ CC backing with cement mortar 1:2 (1 cement :2 coarse sand) including drilling necessary hole in stones and embedding the cramp in the hole (fastener to be paid separately).		
	Stainless steel cramps.		
	Total	Kg	2495.00
157	Providing and fixing sheet covering over expansion joints with iron screws as per design.		
	Providing and fixing in position Stainless steel Grade 304 plate-1.0 mm thick as per design for expansion joints.		
	150 mm wide. .		

Sr. No.	Description	Unit	QTY.
	Total	Rmt	117.74
158	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of PVC / neoprene gasket required (Fittings shall be paid for separately).		
	Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)		
	Total	Kg	177.53
159	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50mm including strengthening with 4mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge.		
	Total	sqm	237.38
160	Entry Barrier Control with Loop detection for 4 Wheelers		
	Total	Nos	2.00
	Horticulture Plants		
190	DESIGNING AND SCULPTING ORNAMENTAL 4 SIDED STONE PILLAR made out of BANSI PAHARPURA SAND STONE in different layers fixed on to solid stone of bottom base of size 1250MM X 600MM HT over which a unit of 1200mm x 250mm ht is placed over which a unit of 1200mm x 580mm unit carved on all 4 faces as per design & detail is placed over which coloumn portion of 800 mm x 2400mm ht is placed all faces carved as per design & detail over which unit of 800mm x 300mm ht is placed with 2 nos stone panel on either side over which a capital made of two pieces of 500mm ht +580mm ht is placed, complete including all offsets, designs & carvings . To a total height of pillar being 5200 mm	Nos	
	Supply of Stone at Site		
	Total	Nos	0.00
	Designing, Sculpting, Carving, Finishing		
	Total	Nos	0.00

Sr. No.	Description	Unit	QTY.
191	DESIGNING AND SCULPTING ORNAMENTAL 4 SIDED STONE PILLAR made out of BANSI PAHARPURA SAND STONE in different layers fixed on to solid stone of bottom base of size 1250MM X 600MM HT over which a unit of 1200mm x 250mm ht is placed over which a unit of 1200mm x 580mm unit carved on all 4 faces as per design & detail is placed over which coloumn portion of 800 mm x 2400mm ht is placed all faces carved as per design & detail over which unit of 800mm x 300mm ht is placed with 2 nos stone panel on either side over which a capital made of two pieces of 500mm ht +580mm ht is placed, complete including all offsets, designs & carvings . To a total height of pillar being 5300 mm	Nos	
	Supply of Stone at Site		
	Total	Nos	108.00
	Designing, Sculpting, Carving, Finishing		
	Total	Nos	108.00
	Installation and Fixing		
	Total	Nos	108.00
	Handover		
	Total	Nos	108.00
192	Providing & fixing of cast iron & MS fabricated decorative ornamental gates with two wicket gates for entry at different place - as per given drawing specification . 1- Cast iron material must follow FG - 150 Grade (As per ISI specification) having hardness 135 to 180 BHN 2- Colour Finishing - All parts must be first shot blasted to explose the metal surface than use epoxy primer for prevent the rust after than use again epoxy top coat for extra metal look in require antique shed & finally use UV base clear Lacquer to protect colour from UV rays . 3- All cast iron parts must have thickness of 22 to 30 mm (as per drawing) , Assembled with 50x50 MS pipe & 25x25 square Bar & welded with CO2 / MIG welding process & fully grinded for best finish . 4- Average weight is approx . 8 kg (+/- 7 %) per sqft (Extra Item)		
	Total	KG	3500.00

Sr. No.	Description	Unit	QTY.
193	Wall art work (2D / 3D painting) Providing and painting 2D / 3D wall painting including all material and labour complete as per engineer in charge .		
	Total	sqm	507.91
194	MANDANA ART WORK		
	Total	sqm	162.00
	Signage Work		

Annexure A-2

Electrical Asset List At Mahakal Lok Parisar					
Sr. No.		Item Description	Unit		TOTAL INSTALLED QUANTITY
		EXTERNAL POWER			
3	1	Supply,Installation,Testing and Commissioning of, 11KV(E), 3C x 300 Sq. mm. Al. conductor, armoured, XLPE insulated cable having outer sheath of extruded HDPE material and insulation screen having additional feature of water sweellable tape for water ingress protection. The cable will be laid in ready-made underground trench / duct / pipe etc .The cable should conform to IS: 7098 Part-2, 2011 with up to date amendment. The item includes providing of necessary clamps and hardware for cable laying..	Mtrs		1600.00
4	5	Al. conductor, armoured, XLPE insulated, PVC sheathed, 1.1KV cable in readymade underground trench / duct / pipe etc .			
	(i)	3.5Cx300 Sq.mm cable, water resistant type.	Mtrs		2472.00
	(ii)	3.5Cx150 Sq.mm cable, water resistant type.	Mtrs		756.00
	(iii)	3.5Cx185 Sq.mm cable, water resistant type.	Mtrs		475.00
	(iv)	3.5Cx 95 Sq.mm cable	Mtrs		1305.00
	(v)	3.5Cx 70 Sq.mm cable	Mtrs		234.00
	(vi)	3.5Cx 35 Sq.mm cable	Mtrs		594.00
	(vii)	4 Cx 25 Sq.mm cable	Mtrs		3001.00
	(viii)	4 Cx 16 Sq.mm cable	Mtrs		2723.00
	(ix)	4 Cx 10 Sq.mm cable	Mtrs		3229.00
	(x)	4 Cx 6 Sq.mm cable	Mtrs		4302.00
5	6	Termination of Al. conductor, armoured, XLPE insulated, PVC sheathed, 1.1KV cable.			
	i	3.5Cx300 Sq.mm cable	Each		64.00
	ii	3.5Cx150 Sq.mm cable	Each		4.00
	iii	3.5Cx185 Sq.mm cable	Each		14.00
	iv	3.5Cx95 Sq.mm cable	Each		48.00
	v	3.5Cx70 Sq.mm cable	Each		2.00
	vi	3.5Cx35 Sq.mm cable	Each		7.00
	vii	4 Cx 25 Sq.mm cable	Each		82.00
	vii	4 Cx 16 Sq.mm cable	Each		86.00
	viii	4 Cx 10 Sq.mm cable	Each		108.00
	viii	4 Cx 6 Sq.mm cable	Each		92.00
6	7 (ii)	with 2 mtr. Pipe of 80 mm outer dia, 40 mm inner dia and 14 mm terminal dia, in soft rock/marshy soil with 25 kg (one bag) back filling compound	Each		81.00
7	9	Supply ,Installation, Testing and Commissioning of 11kV, 315 KVA, Outdoor Package / compact Sub-Station (in compliance IEC 62271-202) shall be consisting of following:	Each		2.00
8	11	Supply, Installation, Testing and Commissioningof outdoor IP 54, type 3-way Non-Extensible, Modular design, Ring Main Unit (Type CVC)11kV 630 Amps 21kA for 3 sec. SF6 insulated, front cable entry type, Copper Busbar consisting of Two Nos. of remote SCADA operated motorised Load Break Switches and One No. of Fixed remotely motorised operated vacuum Circuit Breaker unit with robotically welded having IP67 in SF6 encapsulated stainless steel enclosure of thickness minimum 2.0. with series trip, self-powered microprocessor based 3 Ph numerical over current relay (IDMTL + Inst.) protection.1 no., Protection CT of ratio- 40 or 25/1A (As per transformer rating) 2.5VA 5P10... 3 nos, gas pressure gauge etc.	Each		1.00
9	12	Supply, Installation, Testing and Commissioningof SF6 insulated 11KV, 630A, 21KA, outdoor-type IP54, non-extensible, modular design, front cable entry type, non-motorised Ring Main Unit having one no. metering unit and one no. motorised VCB with complete remote SCADA control, protection & metering suitable for termination of 11KV cable on each isolator. It should have metering unit complete with CTs, PTs of required ratio. The SCADA system should communicate all faults, and electrical parameters like voltage, current, KW, Kwar, kwh, kvarh, pf etc. It should have AC/DC power supply as per requirement, power pack, RTU unit, digital and analog I/Os as per requirement, auxilliary relays, programable logic, software, modem for GSM/ GPRS and ethernet communications, Should have inbuilt Wi-Fi capability for local operation and maintenance,,Should have Cyber Security Feature, Should have Programmable Logic support to accommodate automation features, Should have Embedded Web Server access (for local/remote maintenance)	Each		1.00
10	13	Supply,Installation, Testing and Commissioning of outdoor weather proof self standing type FRTU unit for SCADA communications. The FRTU should be fabricated from 1.5 mm thick Galvanised MS power coated sheet. The FTRU should comprise of 11KV metering unit complete with CTs & PTs of required ratio. The SCADA system should communicate all faults, and electrical parameters like voltage, current, KW, Kwar, kwh, kvarh, pf etc. It should have AC/DC power supply as per requirement, power pack, RTU unit, digital and analog I/Os as per requirement, auxilliary relays, programable logic, software, modem for GSM/ GPRS and ethernet communications, Should have inbuilt Wi-Fi capability for local operation and maintenance,,Should have Cyber Security Feature, Should have Programmable Logic support to accommodate automation features, Should have Embedded Web Server access (for local/remote maintenance)	Each		2.00

11	14	Out Door Feeder Pillar Panel Complete with It should be complete with all required switching and protecting devices, contactors, timers, relays, sensors, controller, Gateway, remote wireless communication devices, wiring, pipe earthing, surge protection device, required software, web server, hosting, etc. iii) The feeder pillar should perform at least following tasks through remote PC/mobile based web application user friendly interface: Phase wise and individual remote ON/OFF switching of street lights. Monitoring of quantity and electrical parameters of individual street light fixtures full or partially /ON/OFF of street lights. iv) In addition to this panel should be able to generate wireless command to give dimming command to the street light fixtures so that light output can be dimmed. It should have following Incomer and out going Feeders.			
	(a)	Incomer Rating 160A, TPN, Outgoing 25A, TPN ... 10 Nos or SPN ... 30 Nos or combination of these as per site requirement. The SC fault level Ics=Icu=36 to 40KA for incomer MCCB and 16 kA for out going MCCBs.			24.00
13	(b)	Incomer Rating 100A, TPN, Outgoing 25A, TPN ... 5 Nos or SPN ... 15 Nos or combination of these as per site requirement. The SC fault level Ics=Icu=36 to 40KA for incomer MCCB and 16 kA for out going MCCBs.			6.00
14	17	Supply and installation of MS Hot dip galvanised 14 swg thick perforated cable trays.			
	i	width 600 mm x height 100 mm	Mtrs		50.00
	ii	width 450 mm x height 100 mm	Mtrs		150.00
	iii	width 300 mm x height 100 mm	Mtrs		200.00
15	19(i)	Supplying and installing double wall corrugated pipes (DWC) of HDPE. **(i)50 mm outside dia**	Mtrs		17268.00
16	19(ii)	Supplying and installing double wall corrugated pipes (DWC) of HDPE. **(ii)63 mm outside dia**	Mtrs		8521
17	19(iii)	Supplying and installing double wall corrugated pipes (DWC) of HDPE. **(iii)110 mm outside dia**	Mtrs		500.00
18	21(iv)	Providing and laying HDPE pipe with three concentric layers viz. outer layer, middle layer and inner layer with ribs. The outer layer shall be made of HDPE material in red colour, middle layer shall be made of HDPE in translucent (natural) and the inner ribbed layer of solid permanent lubricant (PLB) i.e. Silicone.	Mtrs		13007.00
19	25	Supplying installation, testing and commissioning of outdoor type APFC panels automatic switching type capacitor bank.			
	a	(i) For 315 KVA distribution transformer- Capacitor Bank 100KVAR (25 KVAR -2Nos., 10KVAR -3Nos. & 15 KVAR -1Nos. , 3 KVAR-2 Nos.) APFC Relay 8-Stage			2.00
20	29	Supplying and laying 25mm X 5mm G.I. strip at 0.5 Metre below ground level as strip earth electrode including soldering etc. as required.	Mtr		1406.20
22	32	Power Distribution Panel selfstanding, modular construction, Al. busbars current density 0.8 A/sq mm, made from MS galvanised 14/16 swg sheet duly powder coated.	Each		4.00
		Incomer: 250 FP, 55KA, MCCBs with LSIG microprocessor release .. 2nos (Discom & DG)			
	a	160 Amps 433V 3P 50Hz 36KA, TPN Mculded Case Circuit Breaker (MCCB) with micro processor release with communication ..... 2 nos.			
	b	100 Amps 433V 3P 50Hz 36KA-40KA, TPN Moulded Case Circuit Breaker (MCCB) with micro processor release with communication..... 4 nos.			
	c	Metering: Ammeter, Voltmeter for DG and Discom side, Dual Source Energy Meter.			
23	33	Silent DG set 160 KVA, water cooled 1500 rpm, 3 ph, 415V, 50hz supply with canopy, latest CPCB norms compliant with AMF and all acessories.	Each		2.00
24	34	Twin core copper speaker cable	Mtrs		10844.00
25	35	Speaker (6watt) Ceiling Mount BOSCH or equivalent.	Each		10.00
26	36	Speaker (15watt) Ceiling Mount BOSCH or equivalent.	Each		10.00
27	37	Wireless Microphone set Ahuja or equivalent	Each		6.00
28	38	Amplifier (2500 watt) Ahuja SPA-25000 or equivalent . Super high power single channel PA booster amplifier, specially designed for big installations where large number of speakers are required. Class H operation for optimum efficiency	Each		2.00
29	39	Mixer Amplifier 10000 watt. Shoyld be designed to give high power clean sound and trouble free operation under extreme climatic conditions. 8 Mic & 4 Aux Inputs. Aux-4 input to be through RCA socket specially for connecting CD/DVD player. Preamplifier and Line Output for connecting to a Booster Amplifier and for recording the programme.	Each		1.00
30	43	3 Phase online 10KVA, UPS and batteries with 4 hours battery back up.	Each		1.00
31	45	Wiring with FRLS stranded Cu wire of 3x1.5 sq mm size in surface / recessed ISI PVC rigid conduit connecting a light point at every 3 to 5 mtrs complete with all clamps, hardware, lugs and acessories.	Mtr		9984.00
32	47	Wiring with FRLS stranded Cu wire of 3x2.5 sq mm size in surface / recessed ISI PVC rigid conduit connecting a light point at every 3 to 5 mtrs complete with all clamps, hardware lugs and acessories.	Mtr		2788.00

33	50	Wiring with FRLS stranded Cu wire of 4x4 sq mm + 1x1.5 sqmm size in surface / recessed ISI PVC rigid conduit complete with all clamps, hardware lugs and acessories.	Mtr		4571.00
34	51	Wiring with FRLS stranded Cu wire of 4x6 sq mm + 1x2.5 sqmm size in surface / recessed ISI PVC rigid conduit complete with all clamps, hardware lugs and acessories.	Mtr		2674.00
35	54	RCBO 300 mA, 10KA			
	i	40A FP	Each		83.00
	ii	63A FP	Each		4.00
36	55	MCB, 10KA			
	ii & iii	10A SP & 16A SP	Each		1260.00
37	56(i)	TPN DB, double door suitable for 4P RCBO incomer and SP/TP outgoing, IP 43 (i)4 way	Each		81.00
	56(ii)	TPN DB, double door suitable for 4P RCBO incomer and SP/TP outgoing, IP 43 (ii)8 way	Each		4.00
38	58	Modular switch 6A (Legrand Arteor or equivalent)	Each		811.00
39	62	Modular switch 16A (Legrand Arteor or equivalent)	Each		343.00
40	63	6/16A , 3pin combined Socket (Legrand Arteor or equivalent)	Each		406.00
41	64	6/16A , 3pin Socket (Legrand Myrius or equivalent)	Each		201.00
42	73	Modular plate with box and acessories (Legrand Arteor or equivalent)			
	iii	3 Module	Each		380.00
	iv	6 Module	Each		24.00
	v	8 Module	Each		38.00
	vi	12 Module	Each		89.00
43	77	RG 6 cable in surface / recessed rigid PVC conduit	Mtr		4389.00
44	84	Linear monochrome type LED fixtures with beam angle and colour temperature as per site requirement of following maximum wattages: **(i)20 to 25W**	Each		195.00
46	84	Linear monochrome type LED fixtures with with beam angle and colour temperature as per site requirement of following maximum wattages: **(iii)60 to 80W**	Each		806.00
47	85	Architechtural RGB type flood light LED fixtures with with beam angle as per site requirement of following maximum wattages. The fixture must be supplied with all control devices, DMX controllers, control cables and acessories: **(ii)30 to 40 W**			211.00
48	85	Architechtural RGB type flood light LED fixtures with with beam angle as per site requirement of following maximum wattages. The fixture must be supplied with all control devices, DMX controllers, control cables and acessories: **(iii)60 to 80W**	Each		51.00
49	86	Architechtural monochrome type flood light LED fixtures with with beam angle and colour temperature as per site requirement of following maximum wattages. **(i)20 to 25W**	Each		151.00
50		Architechtural monochrome type flood light LED fixtures with with beam angle and colour temperature as per site requirement of following maximum wattages. **(iii)60 to 80W**	Each		6.00
51		Architechtural monochrome type flood light LED fixtures with with beam angle and colour temperature as per site requirement of following maximum wattages. **(iv)90 to 110W**	Each		511.00
52	87(i)	Architechtural monochrome type step light LED fixtures with with beam angle and colour temperature as per site requirement of following maximum wattages. **(i)15 to 20W**	Each		372.00
53	88	Landscape decorative bollard light LED fixtures with with colour temperature as per site requirement of following maximum wattages. **(i)15 to 20W**	Each		197.00
54	89(i)	Landscape decorative post LED fixtures of heritage appearance with with colour temperature as per site requirement of following maximum wattages.	Each		208.00
55	89(ii)	Landscape decorative post LED fixtures of heritage appearance with with colour temperature as per site requirement of following maximum wattages.	Each		50.00
56	90(ii)	Flexible LED strip light IP 67, monochrone with colour temperature as per site requirement complete with driver of following wattages: **(ii)10 -15 watt per meter**	Meter		2034.00
57	92(i)	LED type monochrome ground burial walkover lights complete with all acessories, beam angle and colour temperature as per site requiement of following wattages: **(i)15 to 20W**	Each		70.00
58	92(ii)	LED type monochrome ground burial walkover lights complete with all acessories, beam angle and colour temperature as per site requiement of following wattages:	Each		6.00
59	92(iii)	LED type monochrome ground burial walkover lights complete with all acessories, beam angle and colour temperature as per site requiement of following wattages: **(iii)35to 40W**	Each		32.00
60	93(i)	LED type tree up lighters with all acessories beam angle and colour temperature as per site requiement of following wattages: **(i)15 to 20W**	Each		164.00
61	97	Supply, Installation, Testing and Commissioning of decorative pole with total height of 4 to 5 Mtrs . Make: Bajaj Antillia, HOMDEC and equvivalent.	Each		10.00
62	96	Supply, Installation, Testing and Commissioning of decorative pole with total height of 4 to 5 Mtrs . Make: Bajaj Antillia, HOMDEC and equvivalent.	Each		92.00

63	98	4m LED Solar Post Top luminaire 25W, with system lumen output of 2500 lumens and a minimum system efficacy of 100 lumen/watt. The luminaire shall have rated system lifetime of 50,000 burning hours at L70. Philips Make Urban Spark "BGP161 LED2500/NW 12V SD 4.0M 9006 CC" or Equivqlent	Each		10.00
64	99	LED Post Top , 50 to 55W range for appliction of Street Rejuvination with a system lumen output minimum 4000 lumens and a minimum system efficacy of minimum 75lm/W. The luminaire shall have a rated system lifetime of 50,000 burning hours at L70.Make: Philips TOWN GUIDE or Equivalent.	Each		514.00
65	103	Supply, Installation, testing and commissioning of following indoor surface / recessed type LED lighting fixtures having should have life of 60,000 burning hours confirming to L70. The fixtures should be supplied with LM 79 and LM 80 test reports.Linear monochrome type LED fixtures with with beam angle and colour temperature as per site requirement of following maximum wattages: **(i)20 to 25W**	Each		690.00
66	104	Monochrome type LED round panel type down light fixtures with angle adjustment arrangement with with beam angle and colour temperature as per site requirement of following maximum wattages: **(i)9-12W**	Each		178.00
67	104	Monochrome type LED round panel type down light fixtures with angle adjustment arrangement with with beam angle and colour temperature as per site requirement of following maximum wattages: **(ii)15-18W**	Each		965.00
		ICT COMPONENT			
1	1	Supply, Installation, Testing and Commssioining of 4MP High Resolution Dome Camera, 2.8-8mm fixed lens, IR enabled, Verifocal auto iris lens as specified in the Tender Specifications	Each		33.00
2	2	Supplying, installing, testing and commissioning of 4MP bullet camera Flikerless Digital, CE with Sunvisor Day Night Weather Proof Housing mountMetal Jacket, 2.8-8mm fixed lens, MicroSD storage IR enabled, 100dB WDR, H265, IP68, POE - UL/CE/FCC/EN Camera, wide angle , Auto Iris , Verifocal Lens of 3.5 to 8mm lens to cover 50 mtrs Distance with all accessories and hardware for fixing, complete as required.	Each		125.00
3	3	Supply,Installtion,testing and commissioning of PTZ Camera 1/1.9" CMOS Image sensor. 3 Mpx, MicroSD, Upto 300 degree Max 30fps@5Mp and 60fps@1080P resolution, H265 Powerful 35x Optical zoom - outdoor housing	Each		15.00
4	4	Supply, installation, testing and commissioning of 64 channel Network video recorder with Intel Xeon Hex Core Processor 2.2GHz, 8MB Cache 16GB DDR4 Minimum 16TB Usable - 4 X HDDs hot swappable for upto 45 cameras	Each		6.00
5	5	SAN and Storage	Each		1.00
6	6	Intel® Core i7 Latest Generation 16GB System RAM 2GB Graphics card Three monitors – 24" Full HD 128GB SSD + 1TB 7200 rpm HDD Keyboard, 3 button Mouse and Video Monitoring Joystick 24x7 working capacity	Each		6.00
7	7	The Client system shall provide remote users with rich functionality and features as described below:Viewing live video from cameras on the surveillance system.	Each		2.00
8	8	Supply and laying of CAT6e cable -UTP with required all accessories	Mtrs		4657.00
9	10	Supply and laying of Multimode Fibre Optics Cable 06 core, armored from Switch to Switch with required all accessories	Mtrs		19193.00
10	18	Supply and laying of PVC conduit 32 mm with required all accessories	Mtrs		25496.00
11	19	Supply and laying of PVC conduit 25 mm with required all accessories	Mtrs		11261.00
12	22	Supply and installtion of 42U rack	Each		6.00
13	23	Industrial Grade - 10/100/1000 L3 switch: 24 ports with 04 SFP port with all accessories for fiber termination	Each		27.00
14	24	Server class processor – 4 sockets per server Latest Generation E5 or better Processor (min. 4 per Server) – At least 16MB L3 Cache - At least 12 Cores Min. 256GB RAM Min. 3X 2TB HDD configured in appropriate RAID – Hot swappable Unlimited License Video Management Software to view on unlimited number of work-stations / desktops Server class processor – 4 sockets per server Latest Generation E5 or better Processor (min. 4 per Server) – At least 16MB L3 Cache - At least 12 Cores Min. 256GB RAM Min. 3X 2TB HDD configured in appropriate RAID – Hot swappable Unlimited License Video Management Software to view on unlimited number of work-stations / desktops	Each		4.00
15	2.8	Supply And Fixing Factory Fabricated Hot Dip Galvanised Switch Box For Normal Flush Type Accessories Of Minimum 1.2mm Thickness With Earth Terminal Stud With Nut And Washer With 3mm Thick Synthetic Phenolic Resin Bonded Laminated Sheet Confirming To Grade PI Of IS:2036-1974 On Surface/Conceled Including Painting Etc As Required As Per Specification 1) MS Box 100mmx100mmx60mm deep	Each		1122.00
16	4.3.1.3	Supplying And Drawing Single Core PVC Insulated Cable FR With Copper Multistrand Conductor ISI Marked In Existing Rigid PVC Conduit In Surface Or Conceled As Per Specification: **3x1.5 Sq mm Cable**	Mtrs		19696.00
17	56(i)	Supplying And Fixing Approved Make Step Type Modular Electronic,Fan Regulator Single/Double Module Including Connection Etc.As Required On Existing Board **(1) Upto 120 Watt**	Each		80.00

18	9.57	T-5 Lamp 1x28 Watt	Each		71.00
19	9.15	Supplying,Fixing,Testing & Commissioning Wall/Floor Mounted LT Panel Primer Coated With Two Coat Of Enamel Paint & Provided With Required Gasket For Dust/Vermin Proof With Degree Of Protection IP42 Suitable For 415, 3 Phase,50HZ,4Wire System Fabricated Out Of CRCA Sheet Upto 2mm Thick With Frame Work.	KG		3460.00
20	9.16	Multi Function Meter	Each		4.00
21	9.16.5	Aluminium Busbar Strips With PVC Sleeves	KG		153.00
22	9.16.6	LED Lamps	Each		12.00
23	8.2.3	MCCB Current Rating-250Amps And Adjustable:70% to 100% Thermal & 5-10 Times Magnetic Setting	Each		4.00
24	54	RCBO 300 mA, 10KA			
	i	40A FP	Each		0.00
	ii	63A FP	Each		10.00
25	55	MCB, 10KA			
	ii & iii	10A SP & 16A SP	Each		0.00
26	7.6.3	25Amps, Four Pole (FP)	Each		57.00
27	7.6.2	40Amps, Double Pole (DP)	Each		18.00
28	62	6/16A , 3pin combined Socket (Legrand Arteor or equivalent)	Each		63.00
29	73	Modular plate with box and acessories (Legrand Arteor or equivalent)			
	iii	3 Module	Each		63.00
30	63	Modular switch 16A (Legrand Arteor or equivalent)	Each		63.00
1	1	Supply of Rubber Cable 1Sqmm 4 Core	Rmt		3334
2	2	Supplying Of Plastic Moduled Floor JB(ABS Plastic)Size Of Floor Box 200x200x75mm/2mm Thick And Top Cover Size 250x250x 3mm Thick With Top Cover Mounting 8Nos Of Self Threaded Screw With Gasket And 4x32mm Suitable Entries.	Each		348.00
3	3	Supplying Of Plastic Moduled Floor JB(ABS Plastic)Size Of Floor Box 450x450x115mm/2mm Thick And Top Cover Size 450x450x 5mm Thick With Top Cover Mounting 8Nos Of Self Threaded Screw With Gasket And 4x63mm Suitable Entries.	Each		200.00
4	4	Cast Article For 4 Arm Bracket (Cast Iron) With Junction Box Arrangement In Bottom (Without Fixture)	Each		97.00
5	5	Supply Of Outdoor Speaker IP-66	Each		150.00
6	MPPWD 46.3	Supply, installation, testing & commissioning of suction/discharge copper pipe line in split air conditioning unit 1.0/1.5 TR/2 TR/3 TR capacity including brazing, nitrile rubber insulation 6/9mm thick class 'O', etc complete as required			
	46.3.1	Copper tube 1/4"	Mtr		325.00
	46.3.4	Copper tube 5/8"	Mtr		325.00
7	MPPWD 46.11	SPLIT AC (inverter model) :- Supply, installation, testing and commissicning of Split type wall mounted air conditioning unit of following capacity including indoor, outdoor unit fitted with inverter based rotary compressor, copper condenser and first charge refrigerant R410A. The condensing unit working range should be capable for providing cooling between +/-5 deg. C to 50 deg. C & heating within 0 deg.C to 15 deg. C including connection of copper pipe of required size upto 3 mtr., insulation,cordless remote control, auto air swing louvers, wall stand for outdoor unit, connection copper lead wire, condensed water outlet pipe 2 mtr. complete etc as required. Outdoor/indoor units should be of same make (brand).			
	46.11.2.6	1.8/2 TR star rating 5 star	Each		2.00
8	MPPWD 46.13	Cassette AC :- Supply installation testing and commissioning of split type ceiling cassette Slim line/floor standing air conditioning unit of capacity including indoor, outdoor unit fitted with rotary compressor, copper condenser and first charge refrigerant R410A/ecofriendly green gas only, cordless remote control, auto air swing luvers, connection copper lead wire between outdoor and indoor unit, connection copper lead wire upto 1.5 mtr., excluding connection copper pipe of required size, insulation, floor stand for outdoor unit, condense water outlet complete etc as required. Outdoor/indoor units should be of same make (brand).			
	46.13.1.1	1.8 TR/2.0 TR single phase	Each		7.00

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3	1	Supply, Installation, Testing and Commissioningof, 33KV(E), 3C x 300 Sq. mm. Al. conductor,armoured, XLPE insulated cable having outer sheath of extruded HDPE material and insulationscreen having additional feature of water sweelabletape for water ingress protection. The cable will belaid in readymade underground trench / duct / pipeetc as per site requirement. The other cablespecifications should conform to IS: 7098 Part-2,2011 with up to date amendment. The item includes providing of necessary clamps and hardware forcable laying.	Mtrs		2204
4	2	Supply, installation, testing and commissioning ofindoor termination of 33KV cable with heatshrinkable termination kit complete with lugs other accessories for 3Cx 300 Al conductorarmoured, XLPE insulated cable.	Each		6
5	3	Supply, installation, testing and commissioning ofoutdoor termination of 33KV cable with heatshrinkable termination kit complete with lugs andother accessories for 3Cx 300 Al conductorarmoured, XLPE insulated cable.	Each		10
6	4	Supply, installation, testing and commissioning ofstraight through joint of 33KV cable with heatshrinkable straight through termination kit completewith lugs and other accessories for 3Cx 300 Alconductor armoured, XLPE insulated cable.	Each		7
7	5	Supply, Installation, Testing and Commissioning11kV, 500 KVA, Outdoor Package / compact Sub- Station (in compliance IEC 62271-202) shall beconsisting of following :as per tender	Each		1

8	6	Supply, Installation, testing and commissioning of4-way Non-Extensible Ring Main Unit (TypeCVVC) 11kV 630 Amps 21kA for 3 sec. SF6insulated Copper Busbar consisting of Two Nos. of remote operated motorised Load Break Switchesand two Nos. of Fixed remotely motorised SCADAoperated vacuum Circuit Breaker unit withrobotically welded having IP67 in SF6 encapsulatedstainless steel enclosure of thickness minimum 2.0.with series trip, self powered microprocessor based3 Ph numerical over current relays (IDMTL + Inst.)protection..1 no., Protection CT of ratio- as per siteapplication, 2.5VA 5P10... 3 nos, gas pressuregauge etc.	Each		5
11	11	33KV VCB 3 Isolator (New item required for Triveni Museum Supply)	Each		1
		MRIDA BOQ			
12	1	Supply, Installation, Testing and Commissioningof, 11KV(E), 3C x 300 Sq. mm. Al. conductor,of,armoured, XLPE insulated cable having outersheath of extruded HDPE material and insulation screen having additional feature of water sweelabletape for water ingress protection. The cable will belaid in ready made underground trench / duct / pipeetc as per site requirement. The other cablespecifications should conform to IS: 7098 Part-2,2011 with up to date amendment. The item includesproviding of necessary clamps and hardware for cable laying.	Rmt		3225
13	2	Supply, installation, testing and commissioning ofindoor termination of 11KV cable with heatshrinkable termination kit complete with lugs andother accessories for 3Cx 300 Al conductorarmoured, XLPE insulated cable.	Each		52
14	3	Supply, installation, testing and commissioning ofoutdoor termination of 11KV cable with heatshrinkable termination kit complete with lugs andother accessories for 3Cx 300 Al conductor armoured, XLPE insulated cable.	Each		20
15	4	Supply, installation, testing and commissioning ofstraight through joint of 11KV cable with heat shrinkable straight through termination kit completewith lugs and other accessories for 3Cx 300 Al conductor armoured, XLPE insulated cable.	Each		6
16	10	Supply, Installation, Testing and Commissioning11kV, 315 KVA, Outdoor Package / compact Sub- Station (in compliance IEC)	Each		2

Annexure B-1

NAME OF WORK	Supply, Installation, Testing and Commissioning along with Maintenance for 3 Years for Automatic Sprinkler System Drip Irrigation System, and Pumping in		
S.N.	Description	Unit	QTY
A			B
1	Providing , laying joiniting & field testing of high Density polyethylene pipes , (HDPE) confirming to IS 4984 /14151/12786		
	6 Kg/sq.cm		
	25 mm dia		
		RM	81.10
	32 mm dia		
		RM	86.00
	40 mm dia		
		RM	1963.20
	50 mm dia		
		RM	1682.60
	63 mm dia		
		RM	2000.83
	75 mm dia		
		RM	260.50
	90 mm dia		
		RM	1660.70
2.1	Providing & fixing of PS- Ultra, Pop up spray head bodies, having features an encased plastic 'cage' to provide unmatched resistance to grit,with high efficiency ADJUSTABLE nozzle capable of covering 1.2M -5.2m at 1.0 - 2.1 Bars, pressur. Additionally Two-piece ratchet mechanism, Features is Precision controlled flush at pop-down clears debris from unit, Construction of time-proven UV_resitant plastic.		
		Each	512.00
2.2	Providing & Fixing of SJ- 512, 1/2" Pop up Connecting Four Elbow Swing joint Assembly. The fittings shall be made of UV resistant thermo plastic.		
		Each	1024.00
2.3	Providing and fixing of PP service saddle of varying size.1/2'		
		Each	668.00
3.2	Supply and fixing of flexible Blank tubing and resistance to UV damage and algae growth black in colour 16 mm size. With all fittings and accessories.(Plain Dripline 16 mm plain lateral)		
		Each	11118.42
3.3	Supply and fixing of PC dripers 8lph		
		EACH	21611
3.4	Supply and Fixing Rod Comes Pre -Bent or plastic lateral stack to Staple Distribution Tubing , Drip Line to Finished Grade.		
		EACH	3500
4.1	Providing and fixing of PVC Ball Valve,security pivot to maintain lever in space,double water tight joint,direct injection stem non mechanical ,with a base which permits maximum penetration into the valve of size 63mm.		
		EACH	63

4.2	Providing & fixing of Isolation Valve in mainline for bypass and flow diversion of approved quality		
		EACH	3
4.3	Providing & fixing of 12" Rectangular Valve Box with greenlid and corrugated structure with unique shovel access slot and bolt hole knockout		
		EACH	64
4.5	Providing & fixing of Brass Quick coupling valve made up of solid brass with locking cover corrosion resistant and stainless steel spring. Including service saddle and riser assembly.		
		EACH	50
4.6	Providing & fixing of Brass Key threads into top of QCV to provide water access And Brass Swivel Elbow		
		EACH	9
5.1	Providing & Fixing of DISC FILTER- with capacity matching pump design flow having an suitable inlet connections , to create a helical effect in the incoming water ,spinning particulate in suspension away from the filtering element and so minimizing cleanings frequency ,3/4" outlet for flushing at bottom of filter & maximum working presure of 10 Bars. with pressure gauge.		
		EACH	1
5.2	Providing , fixing, testing and commissioning of **Water Softener in FRP vessels** (shell & thick dished ends) complete with initial charge of resins, **C-PVC SDR-11 grade** face piping, Brass Ball Valve, pressure gauge, hydraulic brine injector, accessories, including suitable **PVC/HDPE Brine Tank** of **2** Regeneration capacity complete with resins of approved quality and make. (Vendor has the responsibility to check the quality of water from actual **water analysis report before procuring** the equipments- **(Also Refer attached Water Test Report)**		
		EACH	1
6.1	Providing & Fixing of (Monoblock/Openwell submersible) pumpset of having discharge 6.5 lps@48 mtr head . suitable for pumpset having panel box and fixed alongwith following accessories starter ,start / stop push buttons , Ammeter, Voltmeter , Indicating lamps, MCB , with cable, etc.		
		EACH	2
6.2	Providing and fixing of control panel suitable for pumpset having panel box and fixed alongwith following accessories starter ,start / stop push buttons , Ammeter, Voltmeter , Indicating lamps, MCB , with cable, etc.		
		EACH	1
6.6	Providing and fixing of Pressure Release Valve 2"		
		EACH	2
1.0	Supply and fixing of Direct burial 14 AWG x 2C cable for two way communication between controller and decoders		
		Rm	2860
2.0	PVC conduit Pipe complete 32 mm		
		Rm	3000

3.0	Supply and fixing of ICC2 MEDIUM CONTROLLERS WITH EZDM EZ Decoder Output Module internal transformer control system , cycle +soak, Raindelay, SOLARSYNC Mini weather station, controlling upto 1 master valve with diagnostic feature in wire shorttest ,voltage test at stations, standard accessories complete		
		N0	3
4.0	Supply and fixing of EZ1 1 Station Decoder		
		N0	61
6.0	Supply and fixing of 2" Solenoid globe Valves with fabric reinforced diaphram and rugged PVC construction ,compatible with and slow closing to prevent water hammer,pressure rating upto 10 bar with 24AC solenoid, with provision to attach Pressure Regulator		
		Each	61
8.0	Supply and fixing of direct bury -on wire connector with strain relief , with waterproof silicon sealant.		
		Each	300
9.0	Supply and fixing of ACCU-SYNC-ADJ ACCU-SYNC PRESSURE REGULATOR, ADJUSTABLE PRESSURE MODEL 1.4–7 BAR (20–100 PSI), WORKS WITH ANY HUNTER VALVE		
		Each	20
10.0	Supply and fixing of copper grounding rod, clamps, charcoal and all requisite accessories complete		
		Each	6
11.0	Supply and fixing of Pump relay 24 AC PLA relay		
		Each	58
12.0	Supply & Fixing of 4" dia core cut		
		Each	98
13	Providing and Installation of vertical green wall with sun loving plants base plastic plate and pots with filling good earth and manure also including Automatic Drip Irrigation System and MS Fabrication complete as per Engineer in charge. Including 01 Month	SQM	111.99

Annexure C-1

Mrida Phase-1 Fire Fighting Asset List			
Sr. No.	Item Description	Unit	Total Installed Qty.
1	Supply ,Instalation ,Testing and Commissioning of Electric driven Main Fire Pump 2850 LPM at 70mtr Head	Set	1
2	Supply ,Instalation ,Testing and Commissioning of diesel engine driven Main Fire Pump 2850 LPM at 70mtr Head	Set	1
3	Supplying, installation, testing anc comrisstoning of electric driven pressurization pump 180 LPM 70 mtr head	Set	1
4	Providing, laying testing & Commissioning of "C" class heavy duty MS pipe		
5	250mm NB (for suction)	RMT	6
6	200mm NB (for suction)	RMT	24
7	150 mm NB (for delivery and test line)	RMT	20
8	100mm NB (for suction)	RMT	10
9	80mm NB (for delivery)	RMT	6.2
10	anticorrosive treatment with coaltar/asphalt tape as per IS 10221	Sqm	527
11	providing laying testing and commissioning of class "C" heavy duty MS Pipe		
12	100mm dia(Nutan School)	Meter	282
13	80 mm dia(Nutan School)	Meter	36
14	Supplyme, installation, testima and compussioning of electric envi herrice pump 450 1pm at 35 m Head(Ganesh School)	Set	1

15	Providing laying testing anit commissioning of clans "C" heuvy duty MS pipe		
16	100mm dia(Ganesh School)	Meter	65
17	80 mm dia (Ganesh School)	Meter	11.3
18	Structural steel work (Ganesh School)	KG	80.68
19	Structural steel work (Nutan School)	KG	114.24
20	Providing & fixing cast iron butterfly valves		
21	200mm NB	Each	1
22	150mm NB	Each	11
23	100mm NB	Each	16
24	80mm NB	Each	1
25	Providing & fixing cast iron non return valves		
26	150mm NB	Each	2
27	80mm NB	Each	1
28	Supplying installing and commissioning CI flanged "Y" tyre Strainer		
29	150mm NB (for Pump suction)	Each	2

30	100mm NB (for Pump suction)	Each	1
31	Supplying, installing, testing and commissioning of gun metal chrome finished ball valves 20mm NB	Each	1
32	Supplying installation, testing and commissioning of electric driven terrace pump suitable 450 lpm at 35 m Head	Each	4
33	Supplying and fixing single headed internal hydrant valve with instaneous Gun metal couplings of 63mm dia	Each	20
34	Providing, installation, testing and commissioning of dual plate non-return valve 100mm dia	Each	4
35	Providing, installation, testing andcommissioning Y - Stainer 100 mm dia	Each	4
36	Supplying and fixing 63mm dia, 15 mtr long RRL hose pipe	Each	40
37	Supplying and fixing first-Aid hose reel	Each	20
38	Supplying and fixing hose cabinet of size 900mmx600mmx500mm	Each	20
39	Supplying and fixing 2 way FBC	Each	3
40	Supplying and fixing single headed internal hydrant valve with unstaneous Gun metal couplings of 63mm dia	Each	5
41	Providing, installation, lesting and commissioning of dual plate non-return valve	Each	1
42	Providing, installation, testing and commissioning Y strainer fabricated out of 1.6 mm thick stainless steel sheet with 3 mm dia holes with stainless steel flange	Each	1
43	Supplying and fixing 63mm dia. 15 mtr long RRI, hose pipe	Each	10
44	Supplying and fixing first-Aid hose reel	Each	5

45	Supplying and fixing hose cabinet of size 900mmx600mmx500mm	Each	5
46	Supplying and fixing 2 way FBC	Each	1
47	Fire extinguisher DCP type	Each	30
48	Fire extinguisher CO2 type	Each	30

Annexure D-1

Water Fountain at Mahakal Lok Asset list

Location: Shri Mahakaleshwar Temple, Ujjain, Madhya Pradesh

Sr. No.	Items Description	Units	Installed Qty.
1	is Totally anticorrosive bobbin wound sand filter 1.40M X1.80 M dia fitted with collector manufactured with fiber glass and , arms and diffuser made from unplasticised PVC and Polypropylene capable of accommodating a flow rate of 73 m/hr@ plete with lid in polyester resin and fiberglass, manual air purge cap for sand discharge and 140PVC flanged connection for t. The Filter shall equipped with hole,manometer, air drain, water/sand braining hole inlet/outlet with Flanges consists of System & 5200kg White Chips Sand media Gravel Including of preparation of pedestal of RCC as per instruction of Engineer in	Nos	4.00
2	Horizontal Mud Pump monobloc circulating pumps with body, prefilter, and support in Cast iron, shaft in AISI-420 stainless steel mechanical seal and prefilter basket in AISI- 316 stainless steel, and impeller in cast iron with motor-3000rpm, 3ph,400/690V, 5.5 HP, 50Hz and class-F insulation, Flow 65-70 m/hr @ 17m head, including of preparation of pedestal of RCC as per instruction of Engineer In Charge. Including of preparation of pedestal of RCC as per instruction of Engineer In Charge	Nos	4.00
3	Supply, Installation, Testing & Commissioning of Horizontal Swimming pool Pump complete with prefilter in Techno Polymer, Motor Housing in Aluminium, Mechanical Seal in graphite gland packing and alumine Impeller of CI, three Phase version consists of F Insulation Capacity-3 hp @ 42-70m3/hr @17m Head	Nos	3.00
4	SITC of CENTRALISED PUMP ELECTRIC CONTROL PANEL Integrated, cubical type, 16 SWG powder coated CRCA sheet control panel to mounted to the foundation. The control panel should be suitable for 440 volts, 50 Hz, 4 wire supply. Quoted price shall include with 25mm thick rubber mats, wiring, cabling, control wiring and copper grounding from control panel to various equipment like recirculation pump, dosing equipment, agitator etc. The panel shall have compartment for bus bar and cable alleys. The panel should be in accordance with the specifications. Providing and foxing necessary cables, internal wiring for all equipments and power cabling for motors, dosing systems, controller etc Control panel should consist of Ammeter, Volt meter, Selector Switch, Single phase preventer etc Cost should be included in the cost of M.CC. etc. complete	Nos	1.00
5	Supply of 1000Ld Liquid chlorine of 40% Concentration and 500Kgs Alum	Nos	1.00
6	Supplying Providing Fixing, Testing & Commissioning of Non-Musical Fountain including Following Patterns 1.80 Nos of 1" dia jets fixed in 80 fidia ring, with Each of Nozzle Having ball Valve: Al nozzle shall be of brass material Cost of ring shall be included in the quoted price	Nos	80.00
7	Supplying Providing Fang, Testing & Commissioning of 60 Nos of 3/4 dia jets fixed in 50 ftdia ring. Complete Piping work with Each of Nozzle Having ball Valve. All nozzle shall be of brass material Cost of ring shall be included in the quoted price.	Nos	60.00
8	Supplying. Providing Fixing, Testing & Commissioning of Non-Musical Fountain including Following Patterns 4 Nos of3/4" dia Flower jets jets for Flower pattern, Complete Piping work GV Pvc as per requirement All nozzle shall be of brass material	Nos	4.00
9	Supplying, Providing Foing. Testing & Commissioning of Non-Musical Fountain including Following Patterns 4 Nos, of3/4" diaConical jetsjets for Flower pattern, Complete Piping work GI/ Pvc as per requirement	Nos	4.00

10	Horizontal Pump Monoblock circulating pumps with body, prefilter, and support in Cast iron, shaft in AISI-420 stainless steel mechanical seal and prefilter basket in AISI316 stainless steel and impeller in cast iron with motor -3000rpm, 3ph,400/690V, 7.5 HP. 50Hz and class-F insulation, Flow: 80-00 m'he @60-70 m head, including of preparation of pedestal of RCC as per Instruction of Engineer In Charge including of preparation of pedestal of RCC as per instruction of Engineer in Charge.	Nos	4.00
11	SITC for Plumbing/Electrical work related with filter system & U/W Lights Supply, Installation, Testing and Commissioning UPVC,PVC of suitable sizes with fittings as required for ease of maintenance and replacement Gray, SCH-40, Foot Valves, Butterfly Valves Ball Valve, Unions, Tee, Band, NRV, Flanges, dead Cap with Piping work including chipping of wall if any and repairing of chassed wall. Cleaning of debris at Suitable place.	Nos	1.00
12	Supply, Installation, Testing and Commissioning Electrical cables of required size as per requirement with all required accessories for cable termination, Lugs etc with PVC conduit of Required Size	Lumsum	1.00
13	Supply Installation, Testing and Commissioning of ball joint nozzle 4.8mm height of jet shall be 5 Mtr. All nozzles shall be of brass material.	Nos	128.00
14	Fountain Head in ring form mode of construction SS-304 of suitable size of SS/Aluminium with required connecting accessories like NRV ball valve etc and fixing arrangement approx.dia of fountain-10mtr	Nos	1.00
15	Supply, Installation, Testing and commissioning of submersible pump of 2HP with steel mountingframe,grouting bolts,stainless steel suction screen on pump suction with all required accessories.	Nos	4.00
16	Integrated, cubical type, 16 SWG powder coated CRCA sheet control panel to mounted to the foundation. The control panel should be suitable for 440 volts, 50 Hz, 4 wire supply. Quoted price shall include with 25mm thick rubber mats, wiring, cabling, control wiring and copper grounding from control panel to various equipment like recirculation pump, dosing equipment, agitator etc. The panel shall have compartment for bus bar and cable alleys. The panel should be in accordance with the specifications. Providing and fixing necessary cables, internal wiring for all equipment's and power cabling for motors, dosing systems, controller etc. Control panel should consist of Ammeter, Volt meter, Selector Switch, Single phase preventer etc. Cost should be included in the cost of M.C.C. etc. complete	Nos	1.00
17	ITC for Plumbing / Electrical work related with filter system & U/W Lights Supply, Installation, Testing and Commissioning UPVC,PVC od suitable sizes with fittings as required for ease of maintenance and replacement Gray, SCH-40, Foot Valves, Butterfly Valves Ball Valve, Unions, Tee Band, NRVFlanges,dead Cap with Piping work including chipping of wall if any and repairing of chassed wall. Cleaning of derbies at suitable place	Nos	1.00
18	Supply, Instatation, Testing and Commissioning Electrical cables of requadred as per requirement with all required accessories for cable termination lugs etc with PVC conduit of required size.	Lumsum	1.00
19	Supply, Instatation, Testing and Commissioning of underwater LED ightsRGB/Warm white 18 watt (6*3watt) IP68 with power supply of required capacity and all connecting accessories	Nos	20.00
20	Bill of Quantity of Fountain mayur van – Ujjain	Nos	
21	Supply Installation, Testing and Commissioning of rizzle to be flushed with surface of structure of fountain for free flow of water at suitable height of fountain will be mtr nozzle Shall be of brass material.	Nos	1.00
22	Supply Installation, Testing and commissioning of submersible pump of 2HP with steel mounting frame, grouting bots stainless steel suction screen on pump suction with all required accessories.	Nos	1.00
23	Supply, Installation, Testing and Commissioning UPVC,PVC of suitable sizes with fittings as required for ease of maintenance and replacement Gray, SCH-40,Foot Valves, Butterfly Valves Bat Valve, Unions, Tee Band, NRV Flanges,dead Cap with Piping work including chipping of wall if any and reparing of chassed wall cleaning of derbies at suitable place.	Nos	1.00

24	Supply, Instalation, Testing and Commissioning Electrical cables of required size as per requirement with all required accessories for cable termination Lugs etc with PVC condut of required size	Nos	1.00
25	Supply, Installation. Testing and Commissioning of underwater LED lightsRGB/Warm white 18 watt (6X3watt) IP-68 with power supply of required capacity and all connecting accessories	Nos	6.00
26	Bill of Quantity of Fountain Second Entrance Plaza (MRIDA) At Ujjain	Nos	
27	Supply, Instalation, Testing and Commissioning of central height jet 25mm height Shall be 3 mtr with control valve nozzle Shall be of brass material.	Nos	1.00
28	Supply Instatation, Testing and Commissioning of ball joint nozzle 4 mm and jet height 1.5 mtr nozzle shall be of brass material with outside drop ring dia/square as per requirement od Engineer In charge	Nos	24.00
29	Supply, Installation. Testing and commissioning of submersible pump of 4HP with steel mounting frame, grouting bolts, stainless steel suction screen on pump suction with all required accessories.	Nos	1.00
30	Supply installation Testing and commissioning of underwater LED lights RGB/Warm white 18 watt (6*3watt) IP-68 With power supply of required capacity and all connecting accessories for central high jet	Nos	1.00
31	Supply Installation Testing and commissioning of underwater LED LightsRGB/Warm whit 18 watt (6*3watt)IP-68 with Power Supply of required capacity and all connecting accessories for outside drop ring jets .	Nos	6.00

Annexure E-1

Surveillance and Access Control System Asset list

Name of work: Supply, installation, software support, Operation &Maintenance of Video Surveillance and Access Control System for Ujjain Smart City at Shri Mahakaleshwar Temple, Shri Mahakal Lok and surrounding areas.

Location: Shri Mahakaleshwar Temple, Ujjain, Madhya Pradesh

Sr. No.	Items Description	Units	Installed Qty.
	CAPEX: Supply Installation of Security & Access Control System		
	CCTV Components		
1	5MP Vandalproof Mini Dome	Nos	40
2	5MP Vandalproof Motorized Mini Bullet Camera	Nos	220
3	5MP 30X IP Speed Dome	Nos	15
4	Pro NVR VMS Channel License	Nos	277
5	NVR Server	Nos	5
6	Extended Storage	Nos	2
7	VMS Workstation	Nos	9
8	Facial Recognition System Server	Nos	1
9	Facial Recognition System licence	Nos	11
10	Server for Analytics	Nos	1
11	AI platform licence	Nos	1
12	Edge Switch : 16 port layer 2 switch with 10/100/1000 POE Managed Switches	Nos	22
13	Modular 24 port Layer 3 managed switch with Fibre ports	Nos	2
14	Supply & Laying of Cat-6 cable laid in MS Conduits . Shall be complete with IO Module Boxes at the Camera End, Patch Cords, GI Gang Boxes, Termination lugs, Labelling and tagging, ferruling etc	MTR	20185
15	Supply & Laying of FRLS Power Cable : 2 Core x 1.5 Sq.mm. in MS conduit Shall be complete with GI Gang Boxes, Termination Strips, Termination lugs, Labelling and tagging, ferruling etc	MTR	1000
16	Single mode 6 core Fibre optic cable in Zero Halogen Low Smoke outer Sheath. laid in HDPE Conduits. Shall be complete with IO Module Boxes at the Camera End, Patch Cords, GI Gang Boxes, LIUs, Pigtails, Termination lugs, Labelling and tagging, ferruling etc	MTR	7500
17	6 U type Equipment racks for mounting the Switches at the CCTV field location, with weather proof rating.	Nos	22
18	Bezel to bezel: 3.5 mm, 500 nits, 1920X1080, 55 inch Display ,24X7	Nos	8
19	Premium push and pull mount	Nos	8
20	Installation charge	Lot	8
21	1 x 40 KVA UPS: 3 phase with Isolation Transformer	Set	1

22	1 x 30 KVA UPS: 3 phase with Isolation Transformer	Set	1
23	Pro NVR recording license per cam - maximum 100xVMS workstation license (User Database set) maximum 100xVMS conductor license (User Database set) Unlimited Videowall license - Unlimited App license - Unlimited VMS Database license - Unlimited Failover license -support iGlass and AI AppPack Server	Nos	275
24	Pro Analytics license per cam, support iGlance and AI AppPack Server	Nos	275

Annexure F-1

NAME OF WORK	DETAILED COST ESTIMATE FOR CONSTRUCTION OF PEDESTRIAN BRIDGE OVER RUDRA SAGAR LAKE UNDER MRIDA PHASE (i)		
Sr. No.	Description	QTY.	Unit
1	Supplying, fitting and placing HYSD bar reinforcement in foundation complete as per drawing and technical specifications and as per relevant clauses of sections 1600.		
	Total	316.03	MT
2	Earth work in excavation of foundation of structures with all lifts & lead upto 1000 meters as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom as per relevant clauses of section 300 & 2100 in.		
	Mechanical Means.		
	Up to 3.00 Mtr.		
	Total	2261.34	Cum
	Depth 3 m to 6 m		
	Total	374.54	Cum
3	Providing & laying levelling course/annular filling in PCC M-15 nominal mix in foundation as per relevant clauses of section 1500, 1700 and 2100.		
	Total	124.70	Cum
4	Provdiing and laying Cement concrete for reinforced concrete in pile cap complete as per drawing and Technical Specification and as per relevant clauses of sections 1100, 1500 & 1700 with.		
	Total	1042.96	Cum
5	Supplying, fitting and placing HYSD bar reinforcement in substructure complete as per drawing and technical specifications and as per relevant clause of section 1600.		
	Total	47.62	MT
6	Providing and laying Plain/Reinforced cement concrete in sub-structure as per drawing and technical specifications and as per relevant clauses of sections 1500, 1700 & 2200.		
	RCC Grade M35		
	Total	303.75	Cum
9	Supplying, fitting and placing HYSD bar reinforcement in super-structure complete as per drawing and technical specifications..		
	Total	397.10	Cum
10	Pile load test on single vertical pile in accordance with IS:2911(Part-IV)		
	Total	1760.00	Tonne
11	Providing and laying Reinforced/Prestressed cement concrete in super-structure as per drawing and Technical Specification and as per relevant clauses of sections 1500, 1700 and 2300 in		
	PSC Grade M-50 with 20 mm maximum size of aggregate		
	For cast-in-situ box girder, segmental construction and balanced		
	Height upto 5m		
	Total	705.55	Cum
	Height beyond 5m and upto 10m		
	Total	1791.77	Cum

Sr. No.	Description	QTY.	Unit
12	Supplying, fitting and fixing in position true to line and level POT-PTFE bearing consisting of a metal piston supported by a disc or unreinforced elastomer confined within a metal cylinder, sealing rings, dust seals. PTFE surface sliding against stainless steel mating surface. completre assembly to be of cast steel/fabricated structural steel, metal and elastomer elements to be as per IRC: 83 part-I & II respectively and other parts conforming to BS: 5400, section 9.1 & 9.2 complete asper drawing and approved technical specifications and as per relevant clauses of sections 2000.		
	Total	14062.20	
13	Providing High tensile steel wires/strands including all accessories for stressing, stressing operations and grouting complete as per drawing and Technical Specifications.		
	Total	95.76	Tonne
14	Providing and laying Reinforced cement concrete approach slab in M-30 grade concrete including formwork excluding cost of reinforcement complete as per drawing and Technical specification.		
	Total	141.08	Cum
15	Providing and laying a burried expansion joint, expansion gap being 20 mm, covered with 12 mm thick. 200 mm wide galvanised weldable structural steel plate as per IS: 2062, placed symmetrical to centre line of the joint, resting freely over the top surface of the deck concrete, welding of 8 mm dia. 100 mm long galvanised nails spaced 300 mm c/c along the centre line of the plate, all as specified in the specifications.		
	Total	28.00	Meter
16	Providing and fixing Angle iron post & strut of required size including bottom to be split and bent at right angle in opposite direction for 10 cm length and drilling holes upto 10 mm dia. etc. complete.		
	Total	7496.01	Sqm
17	Steel work in built up M.S. tubular section (round, square or rectangular Hollow tube etc.) trusses/frame work etc./ railing work etc. including cutting, hoisting fixing in position and applying a priming coat of approved steel primer, welded and bolted including special shaped washers etc. complete.		
	Total	1764.56	Sqm
18	Providing and applying 1.0 mm thick white cement based wall putty of best quality, over plastered surface to prepare the surface even and smooth complete.		
	Total	1486.95	Sqm
19	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade		
	New work (Two or more coats applied @ 1.43 ltr/ 10 sqm. over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm).		
	Total	1486.95	Sqm
20	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :		
	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @0.90 ltr/10 sqm over an under coat		
	Total	286.938	Sqm

Sr. No.	Description	QTY.	Unit
21	Dismantling of cement concrete pavementi / cbreaking to pieces not exceeding 0.02cum in volume andstockpilingatdesignatedlocations anddisposalofdismantledmaterialsuptoalead upto 1000meter, stackingserviceableandunserviceablematerialsseparatelyandasper relevant clauses of section-200.		
	Total	3.84	Sqm
22	Earth work in excavation for foundation, trenches for pipes / cables or drains etc. by mechanical means / manual means (exceeding 30cm in depth.) including ramming of bottom, dressing of sides, disposal of excavated earth including of all lift and lead upto 50m. Disposed earth to be levelled and neatly dressed. All kinds of soil		
	Total	97.688	Sqm
23	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :		
	Cement concrete grade M-10 (Nominal Mix) with 40 mm maximum size of stone aggregate		
	Total	9.03392	Sqm
24	Providing, Laying & Jointing of DWC (double wall corrugated) PE Pipes of renowned duly tested inclusive of all cost of inspection charges, transpotation charges, transit insuranse, loading/ unloading and stacking at site/ store etc, complete.		
	400 mm / 480 mm		
	Total	51.8	Sqm
25	Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc		
	Total	25.9	Sqm
26	Filling by available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.		
	Total	81.188	Sqm
27	CrusherRunMacadam- Providing&layingcrushedstoneaggregate, onapreparedsurface, spreadingandmixingwithamotorgrader,wateringandcompactingwithavibratoryrollerasperclause407ofthe specifications.		
	By Mixing Plant :		
	Total	0.96	Sqm
28	Construction of Dry lean cement concrete Sub-base over a prepared sub grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 26.5mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per MORTH Specifications Table 600-1, cement content not to be less than 150 kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with paver with electronic sensor/mechanical paver, compacting with 8-10 tonnes vibratory roller, finishing and curing and as per relevant clauses of section- 601.		
	Total	1.44	Sqm

Sr. No.	Description	QTY.	Unit
29	Construction of dowel jointed, plain cement concrete pavement in M-40 grade concrete over a prepared sub base with 43 or higher grade cement, coarse and fine agreegate conforming to IS:383 maximum size of coarse aggregate not exceeding 25 mm, mixed in a batching and mixing plant as per approved mix design, transported to site, laid with a fixed form or slip form paver with electronic sensor, spread, compacted and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealant, debonding strip, placing of dowel bar and tie rod, admixtures as approved, curing compound, finishing to lines and grades as per approved drawings as per IRC-15 2011 and as per relevant clauses of section-602 of of MORTH specifications complete but excluding cost of steel in dowel bar & tie rod etc..		
	Total	2.4	Sqm
30	Stone work (machine cut edges) for Wall cladding/ Veneering work up to any height with necessary scaffolding with 60 to 70 mm thick Pink Sand stone (Bansi Paharpur) with upto 15 - 30 mm Varies carving, Moulding and sunk any design and pattern as per drawing and backing filled with cement mortar 1:3 (1cement and 3 sand) including pointoing of 12mm thick 1:2 (1 Cement and 2 Marbal Dust) with admixture of pigment matching the stone shade, to be secured to banking by SS cramps/anchor/fastner of required size.For protection of stone, from weatheric action coat of protection layer shall be apply on whole stone surface area, Stone work should have coated in two or more coat of clear lacquar coat of pidilite / K2 / Nippon make. The process of coating should be as followed: (i) cleaning of stone (ii) rubbing and polishing of stone (iii) first coat of clear lacquar and after drying of this coat ,second or more coat of clear lacquar shall be applied. All this coating of clear lacquar shall be done with spray paint machine. All work shall be done in satisfactory manner and as per instruction of engineer in charge.		
	Total	1789.07	Sqm
31	Providing & fixing in Position Hand railing in Pink Sand Stone (Banshipaharpur) with Solid Ornamental posts Size 350 X 350 X 1500mm, Baluster Size 240X240X800mm, Top Railing 200 X 360mm, Bottom Railing 300 X 200mm with 40mm deep carving as shown in Image.		
	Total	490.12	Meter
32	Providing & fixing of 40 mm thickness Basalt Stone Shot Blasted as per given design and patern including preparing the surface and levelling in the desired line, laid in 20mm thickness 1:2 cement mortor bed including cement float, machine cutting dressing, levelling, jointing, filling joint with matching colour cement slury/cement mortor (1:2) inclusive of pointing the joint (Joints thickness 3mm) fixed over surface /concrete bed or as shown on the drawing, curing, finishing, champhored edges wherever necessary etc complete as directed by Engineer -in - charge.		
	Total	1953.82	Sqm
33	Providing & fixing in Position Pink Sand Stone (Banshipaharpur) with Solid Ornamental posts Size 600X600X2500mm with 40mm deep carving as shown in Image.		
	Total	12.00	Sqm

Annexure F-2

Pedestrian Bridge Electrical Asset List			
WORK NAME:- CONSTRUCTION OF PEDESTRIAN BRIDGE OVER RUDRA SAGAR LAKE UNDER MRIDA PHASE (i)			
Sr.No.	Description fo Items	Unit	Installed Qty.
1	Supplying of ISI Marked and accepted standard of Miniature Circuit Breaker (MCB) of 'C' series suitable for 240/415 Volts, 50 Cycle , 10 kA Value AC supply confirming to IS : 8828 : 1996, IEC : 60898 :2002 but without enclosures :-		
2	DOUBLE POLE (DP)		
3	6 Amp to 32 Amp Rating	Each	5
4	FOUR POLE(FP)		
5	For 40 Amps. Rating only	Each	6
6	Supplying, fixing testing& comenissioning wall / floor mounted LT Panel primer coated with two coat of enamel paint & provided with required gasket for dust/ vermin proof with degree of protection IP42 suitable for 415V 3 phase ,50 Hz ,4 wire system fabricated out of CRCA sheet upto 2 mm thick (1.6 mm for doors) with frame work of angle iron/ channel/ bolted type construction duly compartmentalised for incomer,bus section , outgoings ,cable alleys & CT,PT Ampere Meter , Volt Meter , selector switches,Frequency Meter ,phase indicating lamps , energy Meter complete including cost of busbar supports,detachable cable gland plates,2 earthing terminals, internal wiring & fixing of separately supplied MCBs, MCCBs ,panel mounted Changeover switch/SFUs, etc. as required but excluding cost of busbar strips,Ampere Meter, Volt Meter, Selector switch as per approved design & specification	Kg	188
7	Supplying and fixing of LT Panel accessories of approved make in existing LT Panel including connections etc as required as per spececification		
8	Digital Ampere Meter with CTs with selector switch	per set	1
9	Digital Volt Meter with selector switch & HRC fuse	per set	1
10	Frequency Meter	Each	1
11	Aluminum bus bar strips with PVC sleeves	Kg	20
12	LED lamps	each	3
13			
14	BRASS COMPRESSION GLAND		
15	Supplying and fixing heavy duty cable gland for P.V.C insulated armoured cable with brass washer, Rubber ring complete erected with cable and lead connections etc. as per specification complete.		
17	Gland Size 22mm suitable for cable 2.3, 3½, 4 x 10 Sq.mm or 2x 16 Sq.mm	Each	1
18	LUGS :-		
19	CABLE LAYING		
20	Laying of one number PVC insulated and PVC sheathed power cable of 1.1 kV grade of size not exceeding 25 Sq.mm in the existing RCC Hume/Stone/Ware/G.I. pipe as required.	meter	2367
21	Laying of one number PVC insulated and PVC sheathed power cable of 1.1 kV grade of size exceeding 25 Sq.mm but not exceeding 400 Sq mm in the existing RCC/Hume Stoneware/G.I. Pipe as required.	meter	395
22	LED flood		
23	Supplying and fixing flood light with high power LED of 3 to 6 Watt each assembled on single MCPCB and additional unique peanut lens on each LED, system lumens output with efficacy>120 lm/Watt. luminiare having color temp upto 6500K & 50000 hrs. burning life with minimum @ L 70. The colour rendering index of LED light should be more than 70. Luminiare comprises of driver, PF > 0.95 & surge protection 10K.V. Housing made of pressure die cast aluminium with heat resistant flat glass.IP65 protection. Submission LM 79-08/IS16106 (2012), IEC60598, IEC61347i/c connection wire, testing etc. to complete the job		

Sr.No.	Description fo Items	Unit	Installed Qty.
24	60Watt, color temp 3000-6500k as required.	Ea	91
25	light		
26	Supplying, fixing & testing of appoved makeflexible LED strip comprising of 60 LED per meter W/O driver for direct mounting complete with all accessories including connection lead,fixing connection as required. Submission LM 79-08/IS16106 (2012). IEC60598, IEC61347i/c connection wire, testing etc. to complete the job		
27	Flexible LED strip 72Watt/75Watt - 5 M outdoor light W/O driver IP65	Ea ch	90
28	Supplying, fixing & testing of approved make Power supply for LED strip		
29	Power supply 72Watt/75Watt for LED strip IP65	Ea	90
30	Supply and fixing of recessed surface ground mounted 3000K- 5500K, 10deg-15deg as required 1m long linear LED uplighter extrusion fixture with VISOR & Honeycomb Louver with & IK rating 06, IP 65 cable gland, SS Clamps, screws as required with swivel mounting		
31	30W	Each	196
33	Supply and fixing of decorative post top light 45W Power Module LED, 3000K, -MOUNTED ON top of stone railing it's upper square/round/as per engineer in charge frame made in die cast aluminum, auxiliary and optical compartment can be accessed by tilting the top frame, Bottom frame made in die cast aluminum with Single/Double/ four-armed bracket with flange and a hole (@ 28 mm) for attachment to the support. Screen made in polymethyl methacrylate (PMMA)molded in a single piece. Impact resistance: IK06. Pure polyester powder coating in Standard Grey Colour. IP Rating - IP 66. , Area Exposed to Wind(S) - 0.15 m2 Power LED's Module (with CREE-XPG Series LED's - Individual LED's Minimum Luminous Flux (lm) is 130lm @ 350 mA (@ 85 °C) same should be supported by LED manufacturer's tech sheet) in compliance with IEC 62031(supporting type test report should be submitted), on Printed Circuit Board with metal core plate. Colour Rendering Index: Ra -70.Electronic Power Supply for LED Module, which offers Protection against Short Circuit, Over- Voltage & Over- Current, with in-built surge protection upto 1.5kv(an additional surge protection device of 10kV also provided in-built the fixture). Optics with refractive lens (Polycarbonate), UV Resistant & Shock Resistance IK10.LM80 Reported LED Lifetime is L90@ 50,000hours minimum (same should be supported by LM 80 report from NVLAP accredited lab) & Estimated LED Lifetime is L80 @ 100, 000 hours(Ta-25°C) minimum.	Ea ch	170
34	Out Door Feeder Pillar Panel Complete with It should be complete with all required switching and protecting devices, contactors, timers, relays, sensors, controller, Gateway, remote wireless communication devices, wiring, pipe earthing, surge protection device, required software, web server, hosting, etc. iii) The feeder pillar should perform at least following tasks through remote PC/mobile based web application user friendly interface. Phase wise and individual remote ON/OFF switching of street lights. Monitoring of quantity and electrical parameters of individual street light fixtures full or partially /ON/OFF of street lights. iv) In addition to this panel should be able to generate wireless command to give dimming command to the street light fixtures so that light output can be dimmed. It should have following Incomer and out going Feeders.		

Sr.No.	Description fo Items	Unit	Installed Qty.
35	Incomer Rating 160A. TPN. Outgoing 25A. TPN ... 10 Nos or SPN ... 30 Nos or combination of these as per site requirement. The SC fault level Ics=Icu=36 to 40KA for incomer MCCB and 16 kA for out going MCCBs	Nos	1
36			
37	Supplyinganddrawing singlecorePVC insulatedcable FRwith coppermulti strandconductor ISImarked inexistingrigid conduit in surface or concealed as per specification.		
38	4 X 2.5 sq mm	meter	580
39	4 X 4.00 sq mm	meter	2197
40	SupplyofXLPEInsulated powercable(conformingIS-7098)1100Voltgrade/Heavydutypowercableconformingtois 1554-1100Voltsgrade,2core/3½core/4coreISIMARKED with Alu. Stranded , solid conducto		
41	ARMOURED 3½ CORE		
42	150 Sq.mm.(XLPE)	meter	395
43	Supply and fixing PVC conduits required confirming to IS 9537 (Part-3), ISI marked along with the accessories in concealed system etc. as required.		
44	PVC. conduit 25 mm (HMS)	meter	3422
45	Supplyingand installingDoublewall corrugatedpipes (DWC) of HDPE(IS14930Part II-marked)forcablelaidundergroundwith necessary connecting sockets/ couplings,tees of samematerial and at required depth upto 90cm. below road/ground surface,includingexcavation, back fillingwithexcavatedmaterial with ramming and making the surface good.		
46	110.00mm outside dia.	meter	210
47	MCCB with Breaking Capacity 35 KA at 415 V		
48	CurrentRating-250Amps&Adjustable:70%-100%thermal&5-10 times magnetic setting	Each	1
49	EarthingwithG.I. Earth plate 600mmX600mmX6mm thick includingaccessoriesandprovidingmasonaryencloser incement mortor,coverplatehaving lockingarrangementonthetopandG.I.wateringpipe20mmdia2.7meter longetc.(butwithoutcharcoalor coke and salt) complete as required.	Each	1
50	AddExtra for using salt and charcoal / coke for G.I. Plate or Copper plateearthelectrodeas required includingexcavation& refilling.	Each	1
51	Supplyingand laying25mmX5mmG.I. stripat 0.5meterbelow ground level as stripearthelectrode including solderingetc. as required.	meter	15
	NON SOR		
1	Providing & Fixing 5Arm Aluminium diecast article decorative bracket without lighting fixture with 4 layer painting i1. Epoxy Primer 2. Epoxy Top Coat, 3. Antique coat 4. PU Lacquer as per approved Drawing and including the Unloading and transportation up to site	Each	12

Annexure G-1

Solar System Asset List

Sr.No.	Item Description	Unit	Quantity
1	a)Solar photovoltaic modules of capacity 330Wp or above, manufactured in India confirming IS 14286/IEC 61215 /S/IEC 61730 Part 1,/S/IEC 61730 Part-2 Solar photovoltaic module conversion efficiency shall not be less than 16.9%.PV modules used in solar power plant/system must be warranted for their output peak watt capacity, which should not be less than 90% at the end of 10 year and 80% at the end of 25 years. b)Power conditioning unit(PCU) of which 550-800V DC input voltage range and 400V AC ,three phase,4 wires,50Hz +/- 2.5 Hz,output voltage suitable to generate AC power with efficiency not less than 97%,total harmonic distortion less than 3% and suitable for ambient temperature from 0 to 50 degree C. The PCU shall adjust the voltage and frequency level to suit Grid Voltage Frequency. C) Data Monitoring system complete with accessories. D) Fixing of array junction Box and Main Junction Box with IP65/66 protection and termination arrangement for incoming and outgoing cable along with glands, Lugs and other accessories etc.as required. E) Lighting and surge voltage protection. F)Connections and Interconnections by Supplying and fixing of required size XLPE insulated copper conductor 1.1kV grade armored power and control cable between solar modules, main power cable grid supply PCU unit along with supplying and fixing of necessary channel/conduit lugs and other accessories etc.as required. g)Fabrication as per site requirement in appropriate size of MS Angle. h) Dry type appropriate KVA of transformer step UP along with all protections, Switchgears VCB, cables etc. *	KW*	400.00

Annexure H-1

Auto Power Electrical Asset List		
Sr.No.	**Item Description**	**Qty.**
1	11 Seater Electric Vechle Make-Auto Power	11
2	Charger	4

Annexure I-1

ASSET LIST			
Construction of Basement and Surface parking and vendor zone at Maharajwada-II			
S. NO.	DESCRIPTION OF ITEM	UNIT	QTY
1	3	4	5
1	Crusher Run Macadam - Providing & laying crushed stone aggregate, on a prepared surface , spreading and mixing with a motor grader, watering and compacting with a vibratory roller as per clause 407 of the specifications.(b) By Mixing Plant		
	For 37.5 mm maximum size		
	.		2458.078
	.		
	Total	cum	2458.08
2	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering All work up to plinth level.		
	Cement concrete grade M-10 (Nominal Mix) with 20 mm maximum size of stone aggregate		
	.		844.223
	.		
	Total	cum	844.22
3	Centering and shuttering including strutting, propping stretching etc. complete for and removal of form work by sheet plate or ply wood shuttering for :		
	Foundations, footings, bases of columns, etc. For mass concrete.		
	.		317.06
	.		
	Total	Sqm	317.06
	Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc		
	.		3297.69
	.		
	Total		3297.69
	Suspended floors, roofs, landings, balconies and access platform.		
	.		6174.17
	.		
	Total		6174.17
	Lintels, beams, plinth beams, girders, bressumers and cantilevers.		
	.		5419.99
	.		30.492
	Total		5450.48
	Columns, Pillars, Piers, Abutments, Posts and Struts.		
	.		1624.65

S. NO.	DESCRIPTION OF ITEM	UNIT	QTY
	.		
	Total	**Sqm**	1624.65
	Stairs, (excluding landings) except spiral-staircases.		
	.		43.55
	.		
	Total		43.55
	Extra for shuttering in circular work or any other geometrical shape (20% of respective centering and shuttering items).		
	.		545.03
	.		
	Total	**Sqm**	545.03
	Weather shade, Chajjas, corbels etc., including edges		
	.		57.60
	.		
	Total	**Sqm**	57.60
7	Providing and laying in position machine batched and machine mixed and machine vibrated design mix cement concrete of M-25 grade mixed in a concrete mixer of not less than 0.2 cum capacity and approporiate weigh batcher using approved mix design, for reinforced cement concrete work including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement. including Admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge.		
	Upto Plinth level		
	.		4586.78
	.		
	Total	**Cum**	4586.78
8	Providing and laying in position machine batched and machine mixed and machine vibrated design mix cement concrete of M-25 grade mixed in a concrete mixer of not less than 0.2 cum capacity and approporiate weigh batcher using approved mix design, for reinforced cement concrete work including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement. including Admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge.		
	Above Plinth upto floor 2 level		
	.		2851.16
	.		4.572

S. NO.	DESCRIPTION OF ITEM	UNIT	QTY
	Total	**Cum**	2855.73
9	6 mm cement plaster of mix		
	1:3 (1 cement: 3 fine sand)		
	.		13028.952
	.		30.492
	Total	**Sqm**	13059.44
10	12 mm cement plaster of mix :		
	1:4 (1 cement: 4 fine sand)		
	.		1594.804
	.		529.890
	Total	**Sqm**	2124.69
11	Brick work with chimeny brick of class designation 40 in superstructure above plinth level upto floor 2 level including the cost of scaffolding in :		
	Cement mortar 1:6(1 cement : 6 coarse sand)		
	.		255.858
	.		32.125
	Total	**cum**	287.98
12	Providing and laying integral cement based treatment for water proofing on horizontal surface at all depth below ground level for under ground structures as directed by Engineer-in-Charge and consisting of: (i) Ist layer of 22mm to 25mm thick Kota rough stone slab over a 25mm thick base of cement mortar 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound conforming to IS:2645 in the recommended proportion over the leveling course (leveling course to be paid separately). Joints sealed and grouted with cement slurry mixed with water proofing compound. (ii) 2nd layer of 25mm thick cement mortar 1:3 (1 cement: 3 coarse sand) mixed with water proofing compound in ecommended proportions. (iii) Finishing top with stone aggregate of 10mm to l2mm nominal size spreading @ 8 cudm/sqm thoroughly embedded in the 2nd layer. (with 5 years guarantee)		
	.		245.67
	.		
	Total	**Cum**	245.67

S. NO.	DESCRIPTION OF ITEM	UNIT	QTY
13	Providing and laying integral cement based treatment for water proofing on the vertical surface by fixing rought kota specified stone slab 22 mm to 25mm thick with cement slurry mixed with water proofing compound conforming to IS:2645 in recommended proportions with a gap of 20mm (minimum) between stone slabs and the receiving surfaces and filling the gaps with neat cement slurry mixed with water proofing compound and finishing the exterior of stone slab with cement mortar 1:3 (1 cement : 3 coarse sand) 20mm thick with neat cement punning mixed with water proofing compound in recommended proportion complete at all		
	.		1393.84
	.		
	Total	**Cum**	1393.84
14	Providing and applying 1.0 mm thick white cement based wall putty of best quality, over plastered surface to prepare the surface even and smooth complete..		
	.		12460.10
	.		475.874
	Total	**Cum**	12935.98
15	Providing and laying C.C. pavement of mix M- 25 with ready mixed concrete from batching plant including centering and shuttering complete. The ready mixed concrete shall be laid and finished with screed board vibrator, vacuum dewatering process and finally finished by floating, with wire brush etc. complete as per specifications and directions of Engineer- in-Charge. Note: Cement content considered in this item is @ 330 kg/cum.		
	.		752.96
	.		520.212
	Total	**Cum**	1273.18
16	Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.		
	.		1526.15
	.		2483.613
	Total	**Cum**	4009.76

S. NO.	DESCRIPTION OF ITEM	UNIT	QTY
17	Steel work in built up M.S. tubular section (round, square or rectangular Hollow tube etc.) trusses/frame work etc./ railing work etc. including cutting, hoisting fixing in position and applying a priming coat of approved steel primer, welded and bolted including special shaped washers etc. complete.		
	.		61711.19
	.		3753.897
	Total	**Cum**	65465.09
18	Construction of Embankment/Sub grade/ earth shoulders, as per clause 305 & its sub-clauses, Where required but with approved materials/soil like morrum CBR value not less then 7% i/c all lead & lifts i/c excavation, cost of watering, compaction by vibratory roller/ heavy pneumatic type roller and maintenance of surface during construction to ensure shedding & preventing ponding of water (clause 305.3.6) shaping & dressing (clause 305.3.7), finishing etc. complete but excluding scarifying existing granular/bituminous road surface vide clause 305.6.		
	.		88.20
	.		
	Total	**Cum**	88.20
19	Construction of Dry lean cement concrete Sub-base over a prepared sub grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 26.5mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per MORTH Specifications Table 600-1, cement content not to be less than 150 kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with paver with electronic sensor/mechanical paver, compacting with 8-10 tonnes vibratory roller, finishing and curing and as per relevant clauses of section- 601.		
	.		22.05
	.		
	Total	**Cum**	22.05
20	Kota stone 25mm thick flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete with base of 1:4 cement mortar (1 cement : 4 course sand) (minimum size of kota stone 2.0 sqft)		
	.		1577.91

S. NO.	DESCRIPTION OF ITEM	UNIT	QTY
	.		2.144
	Total	**Sqm**	1580.06
21	Providing and fixing in position roof tile under lay using 12mm thick(minimum) Moisture/fire Resistance heavy duty fibre cement board(High Pressure Steam Cured) Type A,Category 4 conforming to IS 14862:2000, fixed on Steel frame work of 610mmx610mm or 610mmx1220mm grid by counter sunk stainless screw @ 300mm C/C all complete as per the drawings. The boards are to be fixed on the frame work in staggered manner keeping a uniform gap of 2mm.Finally, the roof tile like Shingles/Mangalorian Tiles etc may be laid on the board substrate by sealing the joints properly with filler material or sealant to ensure no leakage through joints. All complete as per drawings, specification and as per direction of Engineer-in-Charge.Note - MS Section structure and roof tile like Shingles/Mangalorian Tiles etc cost will be paid seperately		
	.		1749.38
	.		67.800
	Total	**Sqm**	1817.18
22	Providing & fixing pressed clay tile (Mangalore tile) 20 mm nominal thickness and of approved size and as per approved pattern ceiling on steel frame work complete (steel frame work to be paid separately).		
	.		1712.00
	.		
	Total	**Sqm**	1712.00
23	Providing & laying pressed clay tile ridge (Mangalore tile) of 20mm thickness of approved pattern ceiling over steel frame work complete (steel frame work to be paid separately).		
	.		100.75
	.		
	Total	**Sqm**	100.75

S. NO.	DESCRIPTION OF ITEM	UNIT	QTY
24	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations: (a) Applying a slurry coat of neat cement using 2.75 kg/sqm. of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300mm height including cleaning the surface before treatment. (b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs. (c) After two days of proper curing applying a second coat of cement slurry using 2.75kg/sqm of cement admixed with		
	.		1845.84
	.		
	Total	**Sqm**	1845.84
25	Providing and fixing 16mm thick gang saw cut mirror polished premoulded and prepolished) machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edge to give high gloss finish etc. complete at all levels.		
	Area of slab upto 0.50 sqm		
	.		83.48
	.		22.020
	Total	**Sqm**	105.50
26	Providing and fixing 16mm thick gang saw cut mirror polished premoulded and prepolished) machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edge to give high gloss finish etc. complete at all levels.		

S. NO.	DESCRIPTION OF ITEM	UNIT	QTY
	Area of slab over 0.50 sqm.		
	.		166.87
	.		539.933
	Total	**Sqm**	706.80
27	Providing and laying vitrified floor tiles (without Soluble salt) or printed (with soluble salt) Nano polished (Glossy finish) in different sizes with water absorption less than 0.05% and conforming to IS : 15622 of approved make in all colours & shades, Ist quality/ premium quality in flooring laid on 20mm thick cement mortar 1:4 (1 cement : 4 sand) including grouting the joints with white cement and matching pigments etc. complete. Size 600x600mm as per manufacturer specification.		
	.		47.28
	.		
	Total	**Sqm**	47.28
28	Providing and laying vitrified floor tiles (without soluble salt) or printed (with soluble salt) Nano polished (Glossy finish) in different sizes with water absorption less than 0.05% and conforming to IS : 15622 of approved make in all colours & shades, Ist quality/ premium quality in skirting laid on 12mm thick cement mortar 1:4 (1 cement : 4 sand) including grouting the joints with white cement and matching pigments etc. complete. Size 600x600mm thickness as per manufacturer specification		
	.		2.48
	.		
	Total	**Sqm**	2.48
29	Providing and laying digital print random design(PGVT)/(GVT) vitrified tiles in different sizes with water absorption less than 0.05% and conforming to IS:15622 of approved make in all colours& shades, 1st quality / premium in skirting, riser laid our 12mm thick cement mortar 113 including grouting the joints with white cement and matching pigments etc. complete. Size 600X1200 mm thickness 11-12mm		
	.		323.91
	.		
	Total	**Sqm**	323.91

S. NO.	DESCRIPTION OF ITEM	UNIT	QTY
30	Providing and laying vitrified floor-tiles Full Body Design Homogenous Body matt/rustic finish in different size with water absorption less than 0.05% and conforming to IS:15622 of approved make in all colours& shades, 1st quality/ premium quality in flooring laid on 20mm thick cement mortar 1:4(1cement :4sand) including grouting the joints with white cement and matching pigments etc. complete (b) Size 600X600mm thickness 9-10mm		
	.		105.18
	.		21.090
	Total	**Sqm**	126.27
31	Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters using following hinges.		
	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.		
	.		35.39
	.		-35.393
	Total	**Sqm**	0.00
32	Providing and fixing white vitreous china type Anti germ fluoro-polymer coated counter top wash basin with 15 mm C. P. wall mounted pressmatic Pillar cock auto closing system (decol technology), 32 mm C.P. brass waste coupling length 130mm and 32 mm C.P. brass bottle trap size 200x300mm i/c cutting and making good the wall and floors wherever required all fittings and fixtures etc. complete.		
	White Vetrious China Anti germ Fluoro-Polymer Coated Wash Basin Size 190x600x435mm with wall mounted pressmatic pillar cock auto closing system (decol technology). (Premium Range)		
	.		11.00
	.		
	Total	Each	11.00

S. NO.	DESCRIPTION OF ITEM	UNIT	QTY
33	Providing and fixing white vitreous china Flat Back Anti germ Fluoro-Polymer Coated urinal (Inbuilt spreaders, Inbuilt Bottle trap and inbuilt ceramic Waste coupling)with sensotronic concealed type flushing valve for urinal complete set with installation box with control cock complete including painting of fittings and brackets, cutting and making good the wall and floors wherever required .		
	White Vetrious China Anti germ Fluoro-Polymer Coated Urinal Size 670 X 330 X325 mm with sensotronic concealed type flushing valve for urinal complete set with installation box with control cock. (Premium Range)		
	.		11.00
	.		
	Total	Each	11.00
34	Providing and fixing white vitreous china European Wall hung Anti germ Fluoro-Polymer Coated water closet of approved shape with soft closing seat cover, and 7.2 litre Low level slim dual flushing, PP (Poly Propylene) made 80 mm thick concealed flushing cistern, flushing capacity 3 litre/6 litre, with all fittings and fixtures complete including cutting and making good the wall and floors wherever required.		
	Anti germ Fluoro-Polymer Coated (Nano coating) Wall hung water closet Size 350 X 360 X 545mm with solid poly propelyne made soft closing seat cover (Premium Range)		
	.		14.00
	.		
	Total	Each	14.00
35	Providing and fixing in position best Indian Health Faucet with 8mm dia 1 meter long Flexible Tube and wall bracket with N. R. V. (non-return wall).(Premium Range Sanitary Ware)		
	.		14.00
	.		
	Total	Each	14.00

S. NO.	DESCRIPTION OF ITEM	UNIT	QTY
36	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths interlocked together through their entire length and jointed together at the end by end locks mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete including the cost of providing and fixing necessary 27.5cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS : 4454 Part-I. and M.S. top cover of required thickness for rolling shutters.		
	80x1.25mm M.S. laths with 1.25 mm thick top cover.		
	.		120.25
	.		
	Total	Sqm	120.25
37	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion. (i) Single socketed pipes.		
	110mm diameter		
	.		89.45
	.		
	Total	Meter	89.45
38	Providing and laying below ground unplasticised PVC pipe to with stand working pressure of 4 kg/cm2 soild waste pipes confirming to IS:13592 and IS:4985 including jointing with seal ring confirming to IS :5282 leaving 10mm gap for thermal expansion all necessary fittings etc. complete. Excavation to be paid seperataly.		
	160 mm diameter OD		
	.		97.56
	.		
	Total	Meter	97.56

S. NO.	DESCRIPTION OF ITEM	UNIT	QTY
39	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M-30 grade reflective type rubber modulded glossy colour paving block made by block making machine with strong vibratory compaction and of approved size and shape laid in required colour and pattern over and including 50mm thick compacted bed of stone dust/sand filling the joints with sand etc. all complete as per the direction of Engineer in charge including locking edges wherever required with cement concrete M15 grade or cement mortor 1:3 with pigment of required shade to match the colour /shade of block including cost of labour, material , etc. all complete.		
	.		359.53
	.		
	Total	Sqm	359.53
40	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade:Two or more coats on new work		
	.		11692.60
	.		475.874
	Total	Sqm	12168.48
41	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade: Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture.		
	.		1084.83
	.		
	Total	Sqm	1084.83
42	Applying one coat of cement primer of approved brand and manufacture on wall surface : Cement primer.		
	.		1187.00
	.		
	Total	Sqm	1187.00

S. NO.	DESCRIPTION OF ITEM	UNIT	QTY
43	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc. including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete i/c fixing the railing with necessary accessories and stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge. (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.)		
	.		351.08
	.		
	Total	KG	351.08
44	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work including cutting chases and making good the walls etc.		
	20 mm nominal outer dia .Pipes.		
	.		48.03
	.		
	Total	Meter	48.03
45	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work including cutting chases and making good the walls etc.		
	25 mm nominal outer dia .Pipes.		
	.		40.08
	.		
	Total	Meter	40.08

S. NO.	DESCRIPTION OF ITEM	UNIT	QTY
46	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge. External work		
	40 mm nominal outer dia. Pipes.		
	.		126.19
	.		216.450
	Total	Meter	342.64
47	Providing and placing on at all floor levels high design HDPE (polyethylene) water storage tank ISI : 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.		
	.		2000.00
	.		8000.000
	Total	Ltr	10000.00
48	Providing and fixing stainless steel English (Capital) and Hindi letters in standard pattern bellow type made with 1.20 mm thick stainless steel (ASI Grade- 304) Depth of letter shall not be less than 30mm and rate includes welding/soldering of joints polishing, buffing and fixing on the wall, plate and beam surface at any height with necessary nut and bolts/fastener wherever is required complete as per direction of Engineer-in-Charge.		
	.		521.00
	.		521.000
	Total	per letter per cm height	1042.00
49	Providing and fixing unplasticised Rigid PVC soil and waste pipes confirming to IS: 13592 Type B including jointing with seal ring confirming to IS:5382 leaving 10 mm gap for thermal expansion Single socket pipes for working pressure of 4kg/sqcm.		
	75 mm diameter (minimum wall thickness 3.2mm) All bends & coupler will be included in this item.		
	.		13.96
	.		
	Total	Meter	13.96

S. NO.	DESCRIPTION OF ITEM	UNIT	QTY
50	Providing and fixing unplasticised Rigid PVC soil and waste pipes confirming to IS: 13592 Type B including jointing with seal ring confirming to IS:5382 leaving 10 mm gap for thermal expansion Single socket pipes for working pressure of 4kg/sqcm.		
	110 mm diameter (minimum wall thickness 3.2mm) All bends & coupler will be included in this item.		
	.		89.60
	.		
	Total	Meter	89.60
51	Providing and fixing uPVC trap of self cleaning design complet. Including cost of cutting and making good the wall and floors.		
	100 mm inlet and 75 mm outlet		
	.		13.00
	.		
	Total	Each	13.00
52	Providing and fixing 8mm thick frosted safety glass Urinal partition size 900mm height and 450mm width, fixed with C P brass bracket of appropriate size i/c cutting and making good the wall and floors wherever required with all fittings and fixtures etc. complete.(Premium Range)		
	.		5.00
	.		5.000
	Total	Each	10.00
53	Providing and fixing in position best Indian (bonut size 24mm, ceramic disc size 19mm and min. body thickness 2mm, nickel plating 0.10 micron and chrome plating 0.3 micron, quarter turn) 2- way Bib Cock .(Premium Range)		
	.		14.00
	.		
	Total	Each	14.00
54	Providing and fixing in position best Indian C. P. brass made Shower Arm Length 300mm (nickel plating 0.10 micron and chrome plating 0.3 micron). (Premium Range)		

S. NO.	DESCRIPTION OF ITEM	UNIT	QTY
	.		1.00
	.		
	Total	Each	1.00
55	Providing and fixing C.P. brass grating of approved quality and make conforming to IS: specification. - 100 mm dia.		
	.		14.00
	.		
	Total	Each	14.00
56	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade New work (Two or more coats applied @ 1.43 ltr/ 10 sqm. over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm).		
	.		
	.		2229.804
	Total	Sqm	2229.80
57	Polycarbonate Panel System of approved colour, 16 mm thick (minimum) having uniform in color with an integral Tight-Cell core constructed not to exceed 4mmx4mm in a cross section, Vertical Standing Seam manufactured at both sides of the panel. Snap-on connector to interlock the panels shall have a grip-lock double tooth locking mechanism to ensure maximum uplift capability and shall be of same color as that of panel. Panel shall be factory sealed/end welded panels with additional End-cap/Aluminium U-Profile (mill finish) for ends. Panel shall be co-extruded with special anti glare compound and UV protected. The full system shall be fitted on MS purlins perpendicular to direction of sheeting with purlin		
	.		
	.		37.035
	Total	Sqm	37.03

S. NO.	DESCRIPTION OF ITEM	UNIT	QTY
58	Providing groove cutting for width of 4 mm- 6mm and 1/3rd depth of PQC White topping within 8-10 hrs of placing/ finishing of PQC Including cost of cutting machine, generators, Handling Operation and Maintenance of machinery, blades, coolant etc. including cleaning of groove and providing approved sealant filing etc. as per clause 602.2.10 and 600.10 and IRC-57-2006, including cost of conveyance of all materials labour, lead and lift charges and all other incidental charges as per drawing and as per specification.		
	.		
	.		4591.040
	Total	Mtr	4591.04
59	Road Marking with Hot Applied Thermoplastic Compound with Retro- Reflectorising Glass Beads Providing and applying 2.5 mm including reflectorising glass beds @ 250 gms per sqm area thick road marking strips (retro- reflective) of specified shade/ colour using hot thermoplastic material by fully/ semi automatic thermoplastic paint applicator machine fitted with profile shoe, glass beads dispenser, propane tank heater and profile shoe heater, driven by experienced operator on road surface including cost of material, labour, T&P, cleaning the road surface of all dirt, seals, oil, grease and foreign material etc. complete as per direction of Engineer-in-charge and as per clause 803 of MORTH.		
	.		
	.		228.330
	Total	Sqm	228.33

S. NO.	DESCRIPTION OF ITEM	UNIT	QTY
60	Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCCstructures like retaining walls of the basement, water tanks, roof slabs, podiums, reservior, sewage & water treatment plant,tunnels / subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline powder: 2 parts water by weight) for vertical surfaces and 3 :1 (3 parts integral crystalline slurry : 1 part water by weight) for horizontal surfaces and applying the same from positive (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI- 212-3R_x0002_2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on positive side. The crystalline slurry shall be capable of self_x0002_healing of cracks up to a width of 0.50mm. The		
	.		
	.		4608.522
	Total	Sqm	4608.52
61	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS : 1285, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and paneling to be paid for separately) : For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of PVC / neoprene gasket required (Fittings shall be paid for separately).		
	Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)		
	.		

S. NO.	DESCRIPTION OF ITEM	UNIT	QTY
	.		283.278
	Total	Kg	283.28
62	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM Rubber neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in- charge (Cost of aluminium snap beading shall be paid in basic item):		
	With float glass panes of 5.50 mm thickness		
	.		
	.		46.055
	Total	Sqm	46.05
63	Add extra for polishing on granite work		
	Leather Finish Polish		
	.		
	.		533.870
	Total	Sqm	533.87
64	Providing and fixing in position pre moulded compressible filler board made from polymer base in black color approved make conforming to the specifications having minimum density of 95 kg / cum, non staining, with less than 1 percent water absorption and compression recovery of 93 percent minimum including cost of double sided adhesive tape, sealant etc. in expansion joints.:		
	25mm Thick		
	.		
	.		247.628
	Total	Sqm	247.63
65	Providing and sealing the retaining wall expansion Joints with anodized aluminum extruded section of 135 mm × 3.1 mm confirm to alloy of 6063 T5/T6including fixing of an imported EPDM moisture Barrier conform to (American Society for Testing and Materials) 2240 & ASTM - G53 & 84 fixing with Epoxy adhesive confirm to ASTM C-881 complete in all respect as per manufacturer Drawing and specifications. With 5 year guarantee.		
	.		
	.		130.440

S. NO.	DESCRIPTION OF ITEM	UNIT	QTY
	Total	Mtr	130.44
66	Providing and fixing in position stainless steel grade 304 plate - 1.0 mm as per design for expansion Joints.		
	200 Wide		
	.		
	.		248.940
	Total	Mtr	248.94
67	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS : 1285, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and paneling to be paid for separately) : For fixed portion		
	Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)		
	.		
	.		28.104
	Total	KG	28.10
68	Providing and fixing 12mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of Engineer-in-charge		
	Pre-laminated particle board with decorative lamination on one side and balancing lamination on other side.		
	.		
	.		10.648
	Total	Sqm	10.65
69	Providing and fixing 150 mm bright finished floor brass door stopper with rubber cushion, screws etc. to suit shutter thickness complete.		

S. NO.	DESCRIPTION OF ITEM	UNIT	QTY
	.		
	.		6.000
	Total	Each	6.00
70	Providing and fixing ISI marked stainless steel handles with necessary screws etc. complete : 125 mm		
	.		
	.		6.000
	Total	Each	6.00
71	Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters using following hinges.		
	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.		
	.		
	.		21.729
	Total	**Sqm**	21.73
72	Providing & fixing of Modular tensile structure conical gazebo Structure : - Ms tubeler pipe (4" round pipe) 2.5 mm thickness for Column Ms tubeler pipe 60 od round pipe 2 mm thickness for perling 300 mm x 300 mm x 10 mm base plat 2" square 8 mm gelvanised cable for Perri Ferri Alluminium strip 2 mm thickness Heat welding/electric welding for structure.		
	.		
	.		113.544
	Total	Sqm	113.54
73	Designing, fabricating, testing, installing and fixing in position Curtain Wall with Aluminium Composite Panel (ACP) Cladding, with open grooves for linear as well as curvilinear portions of the building, for all heights and all levels etc. including:a) Structural analysis and design and preparation of shopdrawings for pressure equalisation or rain screen principle as required, proper drainage of water to make it watertight including checking of all the structural and functional design. b) Providing, fabricating and supplying and fixing panels of aluminium composite		

S. NO.	DESCRIPTION OF ITEM	UNIT	QTY
	3 mm thick alumminium composite pannel material consisting of 2.5 mm thick FR grade mineral core sandwiched between two alumminium sheets (each 0.25mm thick)		
	.		
	.		83.975
	Total	Sqm	83.98
74	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge. External work		
	50 mm nominal outer dia. Pipes.		
	.		
	.		52.550
	Total	Meter	52.55
75	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plane and brass threaded fitting i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall.		
	25 mm nominal outer dia .Pipes.		
	.		
	.		6.460
	Total	Meter	6.46
76	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plane and brass threaded fitting i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall.		
	50 mm nominal outer dia .Pipes.		
	.		
	.		9.440
	Total	Meter	9.44

S. NO.	DESCRIPTION OF ITEM	UNIT	QTY
77	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding upto floor level including cost of binding wire, wastage and over laps upto 12mm horizontal/ inclined position of reinforcement bars in slab and beams, plinth, chajjas, lintels, upto 4.5m vertical length of reinforcement in wall columns (over laps shall be provided as per requirement of IS : 13920; IS 456 & SP : 34) etc. complete.		
	Thermo-Mechanically Treated bars. (Fe 500 D or more)		
	.		879225.00
	.		399.800
	Total	**kilogram**	879624.80
78	Wall art work (2D/3D Painting) - Providing and painting 2D/3D Painting including all material and labour complete as per Engineer-In-Charge		
	.		164.53
	.		92.148
	Total	Sqm	256.68
79	Mandna as approved in MRIDA Project		
	.		191.40
	.		
	Total	Sqm	191.40

Annexure I-2

Basement Parking Electrical Asset List			
Sr. No.	Item Description of Items	UOM	Total Qty.
1	Supplying and fixing of approved make modular type metal box with modular frame/ base plate and cover plate including fixing in concealed / surface excluding switch,socket etc. as required for:-		
2	4 Module	Each	43
3	6 Module	Each	19
4	8 Module	Each	26
5	12 Module	Each	36
6	Supplying of ISI Marked Automatic Transfer Switches (ATS) confirming to IEC : 60947-1 & IEC : 60947-6-1 with automatic inbuilt time delay 4 pole, 415 V with two earthing terminals if		
7	400 Amp (open execution)	Each	1
8	Supply of approved make powder coated sheet steel encloser SPN MCB DB inclusive of Busbar, Neutral bar, Earth bar & two earth termina ls etc. complete as per IS:13032(exclusive of MCB & isolator) -		
9	12 way double door	Each	2
10	Supplying of approved make TPN MCB DB Metal Double Door with provision for FP MCB / Isolator / RCCB / RCBO as incomer and SP MCBs as outgoing inclusive of Busbar, Neutral bar, Earth bar & two earth terminals etc. complete as per IS:13032 (exclusive of MCB & isolator) :		
11	4 way (8+12)	Each	14
12	6 way (8+18)	Each	16
13	Supplying and fixing as per specification bakelite Ceiling rose 3 Plate of approved make ISI marked with necessary material complete.	Each	400
14	Supplying, erection and testing of approved make electric Ceiling fan of double ball bearing complete with standard down rod, canopy, hanging shackle, Aluminium bladet, without regulator, A.C. 230-250 volts including connections with all necessary material complete as required confirming to IS :374 1979 with upto date ammendments.Ceiling Fan (Energy Saver 50 W)-1200 mm Sweep	Each	8
15	Supplying, erection and testing of approved make Wall Mounting fan complete with Wall Bracket, canopy, blades, speed Regulator etc. A.C 230- 250 volts with connections and including raw bolt/Anchor hole fastener etc. complete finished and as required.400 sweep	Each	2
16	Supplying, erection and testing of approved make 'Fresh Air Fan' AC 230- 250 volts with connection and including frame bolt /Anchor hole fasteners etc. compelte finished and as required. 225mm sweep	Each	21
17	Earthing with G.I. Earth plate 600mm X 600mm X 6mm thick including accessories and providing masonary encloser in cement mortor, cover plate having locking arrangment on the top and G.I. watering pipe 20mm dia 2.7 meter long etc. (but without charcoal or coke and salt) complete as required.	Each	16
18	Supply and fixing of LED tuberod comprising of LED tube with non integral/ integral driver,6500K color temp having 40000 burning hrs life with minimum @L70,system lumen output should be minimum with efficacy> 80lm /W .LED driver PF0.95&THD<20%.The colour rendering index of LED lights nould be more than 70.Submission LM80-08 Form LED Source Manufacturer & LM79-08 IS16106 from NABL approved lab. Manufacturer mandatory i/c connection wire,testing etc.to complete the job. 2 Yrs Guarantee certificate from manufacturer. 1 X 18/20/22W, Non integral with driver	Each	92
19	Supplying and fixing surface mounting LED downlighter,LED of 1to3W each assembled on single MCPCB,having color temp 6500K & having 50000 burning hrs life with minimum@L70,system lumen output should be minimum with efficacy>80lm/W.LED driver PF0.95&THD<20% The colour rendering index of LED light should be more than70.Housing made of CRCA powder coated frame with glare free diffused poly carbonate cover.Submission LM80-08 Form LED Source Manufacturer&LM79-08 IS16106 from NABL approved lab.Manufacturermandatory./cconnection wire,testingetc.tocompletethejob.2YrsGuaranteecertificatefrom manufacturer. 15 W , 180/200mm	Each	78

20	Supply and fixing of suspended type Led light fixture, LED of 26 W assembled on single MCPCB, having color temp 4500 to 6000K & having 50000 burning hrs life with minimum @ L 70, system lumen output should be minimum with efficacy>80lm/W. LED driver, PF 0.95 & THD < 20%. The colour rendering index of LED light should be more than 70. Housing made of CRCA with glare free diffused polycarbonate cover. Submission LM 80-08 Form LED Source Manufacturer & LM79-08 / IS16106 from NABL approved lab. Manufacturer manadatory i c connection wire, testing etc. to complete the job. 2 Yrs Guarantee certificate from manufacturer	Each	340
21	Supplying of integral post top lantern LED fitting comprises of copper dust finish cast aluminium spigot and spun aluminium canopy fixed with opal polycarbonate, pipe arrangement for vertical mounting, open construction driver and accessories are wired upto terminal block. LED of 1to3 Weach assembled on single MCPCB, having color temp 6500K & having 50000 burning hrs life with minimum@L70, system lumen output should be minimum with efficacy>80lm/W. LED driver PF0.95 & surge protection 2kV. The colour rendering index of LED light should be more than70. Submission LM80-08 Form LED Source Manufacturer & LM79-08 /IS16106 from NABL approved lab. Manufacturer manadatory. I/c connection wire, testingetc to complete the job. 2 Yrs Guarantee certificate from manufacturer. 40 watt	Each	192
22	Supplying of flood light with high power LED of 1to3W each assembled on single MCPCB, system lumens output with efficacy > 110lm/W. luminiare having color temp 6500K & 50000 burning hrs life with minimum @ L70, The colour rendering index of LED light should be more than 70. Luminiare comprises of driver, PF 0.95& surge protection 4KV. Housing made of pressure die cast aluminium with heat resistant flat glass, IP66 protection. Submission LM80-08 Form LED Source Manufacturer & LM79-08 / IS16106 from NABL approved lab. Manufacturer manadatory I/c connection lead, testing etc to complete the job. 2Yrs Guarantee certificate from manufacturer. 150Watt. color temp 3000-6500k as required.	Each	16
23	Flexible LED strip 72Watt/75Watt - 5 M outdoor light W/O driver IP65	Each	260
24	Supplying, fixing & testing of approved make Power supply for LED strip		
25	Power supply 72Watt 75Watt for LED strip IP65	Each	60
26	Providing and erection of black painted galvanized decorative designer poles in different section, top 60mm dia , bottom 140mm dia. with gold colour painted ornamental cast aluminium ring having lockable weather proof flush door junction box in bottom section, base plate dia. 290mm having 4 holes of 22mm dia. complete erected in an approved manner on existing foundation. Suitable size & type of foundation bolts 4 nos. X 16mm X 450mm 'J' type (EN8 grade) or as per arrpoved by Engineer-in-Charge. 5 meter Height	Each	76
27	Supply, Installation, testing and commissioning of diesel generating set three phase, water cooled with AMF control panel, 250 KVA, 415V. With electronic governor.	Each	1
28	Supply ,Installation, Testing and Commissioning of 11kV, 315 KVA, Outdoor Package / compact Sub-Station (in compliance IEC 62271-202) shall be consisting of following:	Each	1

29	Supply, Programming and Commissioning of Outdoor type external lighting feeder pillar of suitable size not less than 2mm thick (14 SWG) duly compartmentalized, double door with locking arrangement, duly fixed on Single iron frame work of size 50mm x 50mm x 6mm, 90 cm long legs and having following accessories mounted inside the cubicle panel i/c connection, inter connection with aluminium thimbles, earthing with two nos. earth studs duly painted with one coat of red oxide & two coats of superior quality enamel paint of approved shede complete etc. as reqd. Feeder Panel for Remote Management, Switching, Multistep Dimming and Monitoring of Streetlights using group control system to be supplied considering 1 feeder Pillar cabinet for 40 nos of LED Street Lights. Central Dimming required from group controls. Lighting cabinets/feeder pillar to be connected independently to lighting management system cloud server through GPRS Ethernet with open internet must have following features:a) Automatic (with a timer), remote (with GPRS/GSM) and manual switching option)INCOMER : 32 AMP FP MCCB (25 KA) Thermal Magnetic Adjustable : Ics = 100 %OUT GOINGS : 5 nos. 32 AMP FP MCB (10 KA)The feeder pillar shall have anti-theft tamper proof feature to automatically send SMS alert if door opening is attempted by unauthorized person.	Each	4
30	IP bullet camera-Supply, installation testing and commissioning of the IP bullet camera shall be equipped with a 1/3" 4MP progressive scan CMOS imager to capture full HD 1080p (25/30 fps)/2688 × 1520 (20fps) images, a3.6 mm fixed lens, and a waterproof (IP66) IK10 impact-resistant camera housing. As a true day/night solution, the camera shall use Smart IR technology and provide up to 98 ft (30 m) of IR illumination. The camera shall accept PoE (802.3af) or 12 V DC power input.min. illumination:-0.08 lux color @ F2.0 (Color, 1 3s, 30 IRE),0 lux B/W with IR LEDs on @ F2.0) video compression :-H 265 +, noise reduction: 3DNR,backlight compensation :- True WDR 120DB, angle of view :-104°/87° (H), 57°/48° (V),UL listed	each	56
31	16 channel NVR with 1 SATA		
32	Supply, installation testing and commissioning of 16ch network video recorder with real-time recording: up to 4 MP resolution live view, preview and playback/up to 16 channels at 1080p,with inbuilt PoE, up to 1TB supports complete with UL certification	each	4
33	Supply, installation testing and commissioning of 24 port PoE switch with 4 SFP ports, having security features like port security supports 64 MACs per port, auto surveillance VLAN, loopback detection automatically disables a port when a loop is detected, cable diagnostics allows administrators to determine cable status, UTP Cat. 5, Cat. 5e (100 m max.), full/half-duplex for 10 100 MBPS, full-duplex for 1000 MBPS, auto MDI MDIX adjustment for all twisted-pair ports, switching capacity, 56 GBPS, maximum 64 bytes packet forwarding rate, 41.7mbps, Ports 1 to 24 compliant with 802.3 at	each	7
34	Providing &fixing of 4 TB hard disk	each	4
35	Supply, installation, testing and commissioning of 32" flat LED colour monitors.	each	2
36	12U cabinet 600X600X500, wall mounting with 6 point 5 Amp. socket power supply strip and fan, tray.	each	8
37	CAT 6 RJ45 patch cord UTP 1 metre	each	48
38	Mounting pole as per requirement for installtion of cameras including civil work.	each	4
39	Supply, installation, testing and commissioning of UPS with isolationtransformer & battery for backup, minimum load power factor 0.8,power factor 0.99,having OVCD (over voltage cut-off device), having CVCF (constant voltage constant frequency, bypass parameters configurable, 2 stage charging(constant current /float charge), having temperature compensated charger, Fanspeed control, digital signal processor controller, total harmonic distortion (current)-THDI (<10%@50% R Load, Input 1 phasevoltage 230v, voltage range 110-300v, Output voltage (220AC/230AC/240AC ± 1%), Total harmonic distortion Voltage (THDv- <3% linear load, <5% nonlinear load, 90 % AC/ACefficiency, Over load capacity(105-110%: 3min, 111-130%: 30Sec), operating temperature with full load 0-40°C,communication features (RS232, USB com port, Intelligent slot(optional). UPS installationwith all required material arrangements as required as per IS specification. UPS 5KVA online Bakup	Each	1

40	Supply, installation, testing and commissioning of 15W horn speaker (IP66) with max SPL1M/1W 110dB. Frequency responze of 500Hz-5tKHz with a dispersion angle of 140 deg. The speaker should have tapings at 15W 7.5W	Each	95
41	Supply, installation, testing and commissioning of 240W power amplifier with 100,70V speaker op, combination XLR/RCA line in line out connectors. Speaker OP short circuit protection. (with require mounting arrangement)	Each	2
42	Fire Fighting System	Set	1
43	Air Ventilation System	Set	1

Annexure J-1

Neelkanth van

S.NO.	Description	Unit	Qty.
1	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in Charge.		
	Total	cum	99.54
2	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including dressing of sides and ramming of bottom disposal of excavated earth, lead up to 50m and lift up to 1.5m, disposed earth to be levelled and neatly dressed. (No extra lift is payable if work is done by mechanical means) All kinds of soil.		
	Upto 1.5 meter depth		
	Total	Cum	19166.33
3	Extra for every additional lift of 1.5 m or part thereof in		
		Cum	12220.75
4	Transportation By Mechanical means including loading, unloading and stacking where ever necessary		
	v) For a lead upto 5 Km		
	Total	Cum	10377.76
5	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering All work up to plinth level.		
	Cement concrete grade M-10 (Nominal Mix) with 20 mm maximum size of stone aggregate		
	Total	Cum	204.22

	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering All work up to plinth level.		
	Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate		
	Total	**Cum**	**30.35**
6	**Centering and shuttering including strutting, propping etc.and removal of form for :Foundations, footings, bases of columns, etc. For mass concrete**		
	Total	**Sqm**	**486.34**
7	**Centering and shuttering including strutting, propping etc.and removal of form for :Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc**		
	Total	**Sqm**	**4868.71**
8	**Providing and laying in position machine batched, machine mixed cement concrete (BMC) of M-25 grade for reinforced cement concrete work using cement content as per approved mix design including use of admixtures in recommended proportions as per IS 9103 to accelerate/retard setting, improve workability of concrete without impairing strength and durability as per direction of Engineer-in charge and pumping of concrete to site of laying and finishing but excluding the cost of centering, shuttering, and reinforcement. (Note: - Minimum cement content is 330 kg/cum) and no extra payment for extra cement used as per mix design. All work up to floor 2 level.**		
	Total	**cum**	**1115.46**

9	Supplying and filling in plinth under floors including, watering, ramming consolidating and dressing complete.Moorum/Hard copr		
	Total	cum	2327.80
9	Demolishing brick work manually/by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 meters lead as per direction of Engineer-in		
	Total	cum	175.30
10	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding including cost of binding wire upto floor two level including all wastage etc. complete.		
	Thermo-Mechanically Treated bars.		
	Total	Kg	125530.44
11	Suspended floors, roofs, landings, balconies and access platform		
	Total	sqm	141.96
12	Lintels, beams, plinth beams, girders, bressumers and cantilevers.		
	Total	sqm	431.68
13	Stairs, (excluding landings) except spiral-staircases		
	Total	sqm	20.56
14	Brick work with chimeny brick of class designation 40 in superstructure above plinth level upto floor 2 level including the cost of scaffolding in :Cement mortar 1:6(1 cement : 6 coarse sand)		
	Total	sqm	147.38
15	12 mm cement plaster of mix : 1:4 (1 cement: 4 fine sand)		
	Total	sqm	1166.54

15	Providing and applying 1.0 mm thick white cement based wall putty of best quality, over plastered surface to prepare the surface even and smooth complete.		
	Total	**sqm**	**238.92**
15	Providing and fixing stainless steel English (Capital) and Hindi letters in standard pattern bellow type made with 1.20 mm thick stainless steel (ASI Grade- 304) Depth of letter shall not be less than 30mm and rate includes welding/soldering of joints polishing, buffing and fixing on the wall, plate and beam surface at any height with necessary nut and bolts/fastener wherever is required complete as per direction of Engineer-in-Charge.		
	Total	per letter per cm	**737.00**
15	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand or manufacture		
	Total	**sqm**	**160.11**
15	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM Rubber neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge (Cost of aluminium snap beading shall be paid in basic item):		
	With float glass panes of 5.50 mm thickness		
	Total	**sqm**	**6.99**

16	Providing and fixing 16mm thick gang saw cut mirror polished premoulded and prepolished) machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edge to give high gloss finish etc. complete at all levels.Area of slab upto 0.50 sqm		
	Total	sqm	1046.92
17	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge. External work 62.50 mm nominal inner dia Pipes.		
	Total	sqm	242.00
18	Providing and laying below ground unplasticised PVC pipe to with stand working pressure of 4 kg/cm2 soild waste pipes confirming to IS:13592 and IS:4985 including jointing with seal ring confirming to IS :5282 leaving 10mm gap for thermal expansion all necessary fittings etc. complete. Excavation to be paid seperataly.		
	Total	sqm	136.65
19	Providing and laying cement concrete 1:3:6 (1 cement: 3 sand: 6 graded stone aggregate 20 mm nominal size) all-round PVC. pipes including bed concrete as per standard design:110 mm dia		
	Total	sqm	59.30
19	Providing and laying cement concrete 1:3:6 (1 cement: 3 sand: 6 graded stone aggregate 20 mm nominal size) all-round PVC. pipes including bed concrete as per standard design:160 mm dia		
	Total	sqm	102.45

20	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg With well burnt bricks		
	Total	sqm	17.00
21	Extra for depth for manholes. With Modular bricks class designation 40 Size 90x80 cm With well burnt bricks		
	Total	sqm	6.00
22	Fillingbyavailableexcavatedearth(excludingrock)in trenches,plinth,sidesoffoundationsetc.inlayersnot exceeding20cmindepth,consolidatingeachdeposited layerbyrammingandwatering,leadupto50mandlift upto 1.5 m.aviable soil		
	Total	cum	13894.83
23	Supplying, stacking and spreading of good earth for plantation at site including royalty and carriage (earth measured in stacks will be reduced by 20% for payment		
	This Bill Qty. MB 222 pageNo.92		
	Total	cum	3065.06
25	Supplying and stacking sludge at site including royalty and carriage up to 1 km (sludge measured in stacks will be reduced by 8% for payment)		
	Total	cum	1040.32
26	Uprooting rank vegetation and weeds by digging the area to a depth of 30 cm removing all weeds and other growth with roots by forking repeatedly, breaking clods, rough dressing, flooding with water, uprooting fresh growths after 10 to 15 days and then fine dressing for planting new grass, including disposal of all rubbish with all leads and lifts.		
	Total	sqm	5762.88

27	**Stonetileworkforwalllininguptо10mheightwithspecialadhesive over12mmthickbedofcementmortar1:3(1cement:3 coarsesand)includingpointinginwhitecementwithanadmixture of pigment to match the stone shade.**		
	Total	**sqm**	**240.93**
28	**Providing and fixing Ist quality ceramic glazed wall & Floor tiles conforming to IS: 15622 (6 to 7mm thick) of approved make in all colours, shades of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry including pointing in white cement mixed with pigment of matching shade complete.**		
	Total	**sqm**	**551.37**
28	Providing and Laying non-pressure (NP3) RCC socket & spigot pipes with rubber gasket joint including testing of joints.		
	Total	**sqm**	**96.00**

29	**Carrying out the resistivity survey by VES methodusing Schlumberger configuration for locating the proper spot for drilling of tube well with in the selected habitation, including Photography, interpretation of resistivity data and submission of report in the desired format along with resistivity necessary graph, photographs and readings.**		
	Total	**each**	**1.00**
30	**Drilling of perfectly vertical bore hole of a diameter suitable to receive 200mm nominal diameter casing pipe upto desired depth below ground level inclusive of the labour charges for transporting, lowering and fixing of 200mm nominal diameter M,S./G.I./U.P.V.C. casing pipe inside the bore hole including all works pertaining to drilling such as transportation, installation and removal of drilling machine etc. complete.in all types of collapsible strata consisting of soils, clays, sand, moorum, gravel, boulders etc.**		
	privioius bill QTY . MB. PAGE		**142.00**
	This Bill Qty. MB 222 pageNo.		0.00
	Total	**meter**	**142.00**
31	**Supply of I.S.I. marked G.I. casing pipe (Plain) medium class in 4 to 7 meters length one end fitted with socket as per I.S. 1239 (Part-1 & Part-2) 1992 with IVth revision (Up-to-date amendments) 150mm dia**		
	Total	**meter**	**50.00**

32	**Supplying & Installation of Energy efficiant five star BEE rating ISI Marked required capacity of Three Phase, 50 Hz, 415V, deep well submersible pump Steel body, suitable for 6"tube well with Control Panel Starter suitable for Submersible pump with dry run protection, single phase preventer, connections, including clamps, bore cap etc. as required as per specifications but excluding pipe and connection cable.7.5 H.P. with 15 stages, Head Mt. 138-60 Discharge LPM 60-270**		
	Total	**each**	**1.00**
33	**Supplying and laying of submersible flat cable ISI marked 3/4 core copper wire of suitable size with proper clamping of approved make. 6.0 Sq.mm.multi strand**		
	privioius bill QTY . MB. PAGE		**180.00**
	This Bill Qty. MB 222 pageNo.		0.00
	Total	**meter**	**180.00**
34	**Providing, Laying and Jointing non-pressure (NP4) RCC socket & spigot pipes with rubber gasket joint including testing of joints. [Conforming to IS ; 458-1988, ISI marked laying as per IS 783:1985)**		
	privioius bill QTY . MB. PAGE		**45.20**
	This Bill Qty. MB 222 pageNo.		0.00
	Total	**each**	**45.20**

35	**Providing, laying, Jointing & field testing of High Density Polyethylene pipes, (HDPE) confirming to IS 4984/ 14151/12786/ 13488 with necessary jointing material like mechanical connector or jointing pipes by heating to the ends of pipes with the help of Teflon coated electric mirror/ heater to the required temperature and then pressing the ends together against each other, to form a monolithic & leak proof joint by thermosetting process. It may be required to be done with Jacks/Hydraulic Jacks/ But fusion machine. (50mm & above fusion jointed & below 50mm mechanical jointed)75 mm dia**		
	privioius bill QTY . MB. PAGE		**142.50**
	This Bill Qty. MB 222 pageNo.75		0.00
	Total	**each**	**142.50**
36	**Capacity per pump 10 m3/hour 30 mtr Head (1 Set = 1 W+1SB)**		
	privioius bill QTY . MB. PAGE		**1.00**
	This Bill Qty. MB 222 pageNo 75		0.00
	Total	**each**	**1.00**
37	**18mmcementplasterintwocoatsunderlayer12mmthickcement plaster1:5(1cement:5coarsesand)andatoplayer6mm thickcementplaster1:3(1cement:3coarsesand)finished rough with sponge.**		
	privioius bill QTY . MB. PAGE		**520.73**
	This Bill Qty. MB 222 pageNo.76		142.4
	Total	**each**	**663.09**
38	**Providingandapplyingplasterofparisputtyof2mmthicknessove r plastered surface to prepare the surface even and smooth complete**		
	privioius bill QTY . MB. PAGE		**445.54**
	This Bill Qty. MB 222 pageNo		0.00
	Total	**sqm**	**445.54**

38	Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre. of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour.		
	privioius bill QTY . MB. PAGE		**307.80**
	This Bill Qty. MB 222 pageNo		
	Total	**sqm**	**307.80**
38	Finishing walls with Acrylic Smooth exterior paint of required shade:		
	New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm).		
	privioius bill QTY . MB. PAGE		**1554.79**
	This Bill Qty. MB 222 pageNo		
	Total	**sqm**	**1554.79**

39	**Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easilyflor tiles 600x1200 Glazed Vitrified tiles Matt/Antiskid finish of size**		
	privioius bill QTY . MB. PAGE		**278.10**
	This Bill Qty. MB pageNo.		0.0
	Total	**sqm**	**278.10**
40	**Providing and laying vitrified floor-tiles Full Body Design Homogenous Body matt/rustic finish in different size with water absorption less than 0.05% and conforming to IS:15622 of approved make in all colours& shades, 1st quality/ premium quality in flooring laid on 20mm thick cement mortar 1:4(1cement :4sand) including grouting the joints with white cement and matching pigments etc. complete**		
	(c) Size 600X600 mm thickness 11-12mm (to be used heavy duty indoor areas of non residencial buildings only such as schools, hostels, libraries hospitals, institutions, offices etc.)		
	privioius bill QTY . MB. PAGE		**74.70**
	This Bill Qty. MB pageNo.		0.0
	Total	**sqm**	**74.70**

41	**Providing and laying digital print random design(PGVT)/(GVT) vitrified tiles in different sizes with water absorption less than 0.05% and conforming to IS:15622 of approved make in all colours& shades, 1st quality / premium in skirting, riser laid our 12mm thick cement mortar 113 including grouting the joints with white cement and matching pigments etc. complete**		
	For skirting, risers etc. glossy/ rustic /stain/matt finished in all colours and shades		
	Size 600X1200 mm thickness 11-12mm		
	privioius bill QTY . MB. PAGE		**145.39**
	This Bill Qty. MB 222 pageNo.		0.00
	Total	**sqm**	**145.39**
41	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths interlocked together through their entire length and jointed together at the end by end locks mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete including the cost of providing and fixing necessary 27.5cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS : 4454 Part-I. and M.S. top cover of required thickness for rolling shutters.		
	80x1.25mm M.S. laths with 1.25 mm thick top cover.		
	privioius bill QTY . MB. PAGE		**9.86**
	This Bill Qty. MB 222 pageNo.		
	Total	**sqm**	**9.86**

42	Providing and laying below ground unplasticised PVC pipe to with stand working pressure of 4 kg/cm2 soild waste pipes confirming to IS:13592 and IS:4985 including jointing with seal ring confirming to IS :5282 leaving 10mm gap for thermal expansion all necessary fittings etc. complete. Excavation to be paid seperataly.		
	110 mm diameter OD		
	privioius bill QTY . MB. PAGE		**59.30**
	This Bill Qty. MB 222 pageNo.		
	Total	Rm	**59.30**
42	**Digging holes in ordinary soil and refilling the same with the excavated earth mixed with manure or sludge in the ratio of 2:1 by volume (2 parts of stacked volume of earth after reduction by 20% : 1 part of stacked volume of manure after reduction by 8%) flooding with water, dressing including removal of rubbish and surplus earth, if any with all leads and lifts (cost of manure, sludge or extra good earth if needed to be paid for separately) :**		
	Holes 45 cm dia, and 45 cm deep		
	privioius bill QTY . MB. PAGE		**5170.00**
	This Bill Qty. MB 222 pageNo. 92		**0.00**
	Total		**5170.00**
43	**Holes 30 cm dia, and 30 cm deep**	**each**	
	privioius bill QTY . MB. PAGE		6104.00
	This Bill Qty. MB 222 pageNo. 92		0.00
	Total		**6104.00**
44	**Holes 60 cm dia, and 60 cm deep**	**each**	
	privioius bill QTY . MB. PAGE		420.00
	This Bill Qty. MB 222 pageNo. 92		0.00
	Total		**420.00**
45	**Providing and displaying of Croton Duck Foot (Elite) having ht. 60 cm to 75 cm with 4 to 5 branches, well developed, fresh and healthy colorful leaves in 25 cm size of Earthen pot/Plastic pot & as per direction of the officer-in-charge**		

	privioius bill QTY . MB. PAGE		**55.00**
	This Bill Qty. MB 222 pageNo. 92		0.00
	Total	**each**	**55.00**
43	**Shrubs-: Tabernaemontana Coronia, Allamanda, Plumbago, Raphis Palm, Ixora Singaporensis, Plumeria dwarf, Acalypha Red/Green.**		
	privioius bill QTY . MB. PAGE		**25.00**
	This Bill Qty. MB 222 pageNo. 93		0.00
	Total	**each**	**25.00**
44	**Providing and stacking of Tecoma stans of height 90-105 cm. bushy in big size HDPE bag as per direction of the officer-in-charge**		
	privioius bill QTY . MB. PAGE		**135.00**
	This Bill Qty. MB 222 pageNo. 93		0.00
	Total	**each**	**135.00**
45	**Providing and Displaying Zinnia hybrid double in different colour well developed fresh & healthy 30 to 45 cm ht. (3 to 4 in each pot) full bloom in 25 cm Earthen Pot/Plastic Pot and as per direction of the officer-in-charge.**		
	privioius bill QTY . MB. PAGE		**150.00**
	This Bill Qty. MB 222 pageNo. 93		0.00
	Total	**each**	**150.00**
46	**Providing and Displaying Gerbera Hybrid, well developed, with fresh and healthy foliage, fully blooms in 25 cm Earthen Pot/Plastic Pot and as per direction of the officer-in-charge**		
	privioius bill QTY . MB. PAGE		**40.00**
	This Bill Qty. MB 222 pageNo. 93		0.00
	Total	**each**	**40.00**
47	**Providing and stacking of Euphorbia pulcherrima (dark red double bracts) well branched of height 60-75 cm. in earthen pots of size 25 cm as per direction of the officer-in-charge.**		
	privioius bill QTY . MB. PAGE		**55.00**
	This Bill Qty. MB 222 pageNo. 93		0.00
	Total	**each**	**55.00**
48	**Providing and Displaying Marigold jaffri orange/yellow/Russet colour well developed with fresh & healthy foliage with 40 to 50 flowers in bloom specimen plant 60 to 75 cm ht in 25 cm Earthen Pot/Plastic Pot and as per direction of the officer-in-charge**		
	privioius bill QTY . MB. PAGE		**110.00**
	This Bill Qty. MB 222 pageNo. 93		0.00

		each	110.00
49	Providing and displaying of Aglaonema Butterfly having ht.30 cm 10 to 12 fresh, healthy and attractive colorful leaves, well developed in 25 cm size Earthen pot/Plastic pot & as per direction of the officer-in-charge.		
	privioius bill QTY . MB. PAGE		95.00
	This Bill Qty. MB 222 pageNo. 93		0.00
	Total	each	95.00
51	Providing and stacking of plant Mogra of height 25 to 30 cm., 2 to 3 branch in earthen pots of size 20 cm Earthen Pot/Plastic Pot and as per direction of the officer-in-charge		
	privioius bill QTY . MB. PAGE		1450.00
	This Bill Qty. MB 222 pageNo. 93		
	Total	each	1450.00
52	Providing and stacking of Hamelia patens of height 90-105 cm. bushy in big size HDPE bags as per direction of the officer-in-charge		
	privioius bill QTY . MB. PAGE		700.00
	This Bill Qty. MB 222 pageNo. 94		0.00
	Total	each	700.00
53	Providing and stacking of Chlorophytum (Green), full of leafy suckers in 15 cm size of Earthen Pot/Plastic Pot & as per direction of the officer-in-charge		
	privioius bill QTY . MB. PAGE		500.00
	This Bill Qty. MB 222 pageNo. 94		0.00
	Total	each	500.00
54	Providing and Displaying Kochia well developed fresh & healthy 30 to 45 cm ht. lush green well shaped in 25 cm Earthen Pot/Plastic Pot and as per direction of the officer-in-charge		
	privioius bill QTY . MB. PAGE		200.00
	This Bill Qty. MB 222 pageNo. 94		0.00
	Total	each	200.00
55	9.8 Providing and stacking of Jasmine grandiflorum (chameli) of height 30 cm to 45 cm. in 20 cm size of Earthen pots / Plastic pots & as per direction of the officer-in-charge. .		
	privioius bill QTY . MB. PAGE		500.00
	This Bill Qty. MB 222 pageNo. 94		0.00
	Total	each	500.00

56	**Providing and stacking of Tabernaemontana coronaria (Chandni single) veriegated of height 105-120 cm., multibranched, bushy in big size HDPE bag as per direction of the officer-in-charge.**		
	privioius bill QTY . MB. PAGE		**700.00**
	This Bill Qty. MB 222 pageNo. 94		0.00
	Total	**each**	**700.00**
57	**Providing and Displaying Vinca different colour 6 to 8 well developed branch in full bloom stacked with green painted Bamboo stick in 25 cm Earthen Pot/Plastic Pot and as per direction of the officer-in-charge.**		
	privioius bill QTY . MB. PAGE		**150.00**
	This Bill Qty. MB 222 pageNo. 94		0.00
	Total	**each**	**150.00**
58	**Providing and Displaying Gazania hybrid in different colour well developed with fresh & healthy foliage with full bloom in 25 cm Earthen Pot/Plastic Pot and as per direction of the officer-in-charge.**		
	privioius bill QTY . MB. PAGE		**150.00**
	This Bill Qty. MB 222 pageNo. 94		0.00
	Total	**each**	**150.00**
59	**Providing and stacking of Tabernaemontana divaricata (Chandni double) of height 90-105 cm., bushy in big size HDPE bag as per direction of the officer-in-charge.**		
	privioius bill QTY . MB. PAGE		**700.00**
	This Bill Qty. MB 222 pageNo. 94		0.00
	Total	**each**	**700.00**
60	**Providing and stacking of spider lily height 90-105 cm., bushy in big size HDPE bag as per direction of the officer-in-charge.**		
	privioius bill QTY . MB. PAGE		**1050.00**
	This Bill Qty. MB 222 pageNo. 95		0.00
	Total	**each**	**1050.00**

62	**ProvidingandfixingAngleironpost&strutofrequiredsizeincludi ng bottomtobesplitandbentatrightangleinoppositedirectionfor10 cm length and drilling holes upto 10 mm dia. etc. complete.**		
	privioius bill QTY . MB. PAGE		**720.20**
	This Bill Qty. MB 222 pageNo. 95		0.00
	Total	**kg**	**720.20**
63	**Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge. External work 25 mm**		
	20mm Dia		
	privioius bill QTY . MB. PAGE		**65.75**
	This Bill Qty. MB 222 pageNo. 95		
	Total	**meter**	**65.75**
64	**Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge. External work. 20 mm**		
	20mm Dia		
	This Bill Qty. MB 222 pageNo.		**10.50**
	This Bill Qty. MB 222 pageNo. 95		0.00
	Total	**meter**	**10.50**
	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge. External work 25 mm		
	25mm Dia		

	privioius bill QTY . MB. PAGE		**180.69**
	This Bill Qty. MB 222 pageNo. 95		
	Total	**meter**	**180.69**
	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge. External work 25 mm		
	25mm Dia		
	privioius bill QTY . MB. PAGE		**22.50**
	This Bill Qty. MB 222 pageNo. 95		
	Total	**meter**	**22.50**
	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work including cutting chases and making good the walls etc.		
	32mm Dia		
	privioius bill QTY . MB. PAGE		**38.00**
	This Bill Qty. MB 222 pageNo. 95		
	Total	**meter**	**38.00**

65	**Providing and Laying Mexican/Zyosia carpet grass Turf with earth 50mm to 60mm thickness on existing ground prepared with proper level and ramming with tools wooden (Durmuth) and then rolling the surface with light roller make the surface smoothen and light watering with sprinkler and maintenance for 30 days or more till the grass establishes properly, as per direction of Engineer-in-Charge.**		
	privioius bill QTY . MB. PAGE		**6188.84**
	This Bill Qty. MB 222 pageNo.96		
	Total	**sqm**	**6188.84**
67	**Steel work in built up M.S. tubular section (round,squareor rectangularHollowtubeetc.) trusses/frame work etc./railing work etc. in cluding cutting, hoisting fixing in position and applying a priming coat of approved steel primer, welded and bolted includings pecial shaped washers etc. complete.**		
	privioius bill QTY . MB. PAGE		**7627.94**
	This Bill Qty. MB 222 pageNo.96		0.00
	Total	**kg**	**7627.94**
68	**Providing&fixingUVstabilisedfiberglassreinforcedplastic sheetroofinguptoanypitchincludingfixingwithpolymercoated 'J'or'L'hooks,bolts&nuts8mmdia.G.Iplain/bitumenwashers completebutexcludingthecostofpurlins,rafters,trussesetc.The sheetsshallbemanufactureduotof2400TEXpanelrovigs incorporatingminimum0.3%Ultra-violetstabiliserinresinsystem underapproximately2400psiandhotcured.Theyshallbeof uniformpigmentationandthicknesswithoutairpocketsandshall conformtoIS10192andIS12866.Thesheetsshallbeopaqueor translucent, clear or pigmented, textured or smooth as specified**		
	privioius bill QTY . MB. PAGE		**218.00**
	This Bill Qty. MB 222 pageNo.96		0.00
	Total	**Sqm**	**218.00**

69	**Structural nsteelworkriveted,boltedorweldedinbuiltupsections,trussesand framedwork,includingcutting,hoisting,fixing inpositionandapplyingaprimingcoatofapprovedsteelprimerall complete**		
	privioius bill QTY . MB. PAGE		**163.80**
	This Bill Qty. MB 222 pageNo.97		0.00
	Total	**kg**	**163.80**
70	**Transportation By Mechanical means including loading, unloading and stacking where ever necessary**		
	v) For a lead upto 2 Km		
	privioius bill QTY . MB. PAGE		**6608.29**
	this bill Qty		
	Total	**Cum**	**6608.29**
70			
71	**Centering and shuttering including strutting, propping stretching etc. complete for and removal of form work by sheet plate or ply wood shuttering for :**		
	Columns, Pillars, Piers, Abutments, Posts and Struts.		
	privioius bill QTY . MB. PAGE		**72.28**
	this bill Qty		5.28
	Total	**Cum**	**77.56**
72	**Centering and shuttering including strutting, propping stretching etc. complete for and removal of form work by sheet plate or ply wood shuttering for :**		
	privioius bill QTY . MB. PAGE		**130.50**
	this bill Qty		0.00
	Total	**kg**	**130.50**

73	Providing and fixing in position roof tile under lay using 12mm thick(minimum) Moisture/fire Resistance heavy duty fibre cement board(High Pressure Steam Cured) Type A,Category 4 conforming to IS 14862:2000, fixed on Steel frame work of 610mmx610mm or 610mmx1220mm grid by counter sunk stainless screw @ 300mm C/C all complete as per the drawings. The boards are to be fixed on the frame work in staggered manner keeping a uniform gap of 2mm.Finally, the roof tile like Shingles/Mangalorian Tiles etc may be laid on the board substrate by sealing the joints properly with filler material or sealant to ensure no leakage through joints. All complete as per drawings, specification and as per direction of Engineer-in-Charge. Note - MS Section structure and roof tile like Shingles/Mangalorian Tiles etc cost will be paid seprately.		
	privioius bill QTY . MB. PAGE		**84.00**
	this bill Qty		
	Total	**kg**	**84.00**
74	Providing & fixing pressed clay tile (Mangalore tile) 20 mm nominal hickness and of approved size and as per approved pattern ceiling on steel frame work complete (steel frame work to be paid separately).		
	privioius bill QTY . MB. PAGE		**186.37**
	this bill Qty		0.00
	Total	**sqm**	**186.37**
75	Providing & laying pressed clay tile ridge (Mangalore tile) of 20mm thickness of approved pattern ceiling over steel frame work complete (steel frame work to be paid separately).		
	privioius bill QTY . MB. PAGE		**13.36**
	this bill Qty		0.00
	Total	**sqm**	**13.36**

76	Providing sand faced plaster upto 10meter hight above ground level concrete or brick masonry surfaces intwo coats, base coat of 13 mm thick in cement mortar 1:4 (1 cement: 4 sand), clearing the surface by combing it and finishing coat of 8 mm. thick in cement mortar 1:3 (1 cement: 3 sand) and taking out surface grains by mechanical arrangement or applying second coat by mechanical means including cost of all material, labour, and T and P including all lead, lift and scaffolding etc. complete.		
	21mm sand faced plaster		
	privioius bill QTY . MB. PAGE		**245.01**
	this bill Qty		0.00
	Total	**sqm**	**245.01**
77	Providing and fixing 16mm thick gang saw cut mirror polished premoulded and prepolished) machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edge to give high gloss finish etc. complete at all levels.		
	Area of slab over 0.50 sqm.		
	privioius bill QTY . MB. PAGE		**209.18**
	this bill Qty		0.00
	Total	**sqm**	**209.18**
78	Providing and fixing white vitreous china European Wall hung Anti germ Fluoro-Polymer Coated water closet of approved shape with soft closing seat cover, and 7.2 litre Low level slim dual flushing, PP (Poly Propylene) made 80 mm thick concealed flushing cistern, flushing capacity 3 litre/6 litre, with all fittings and fixtures complete including cutting and making good the wall and floors wherever required.		

	Anti germ Fluoro-Polymer Coated (Nano coating) Wall hung water closet Size 350 X 360 X 545mm with solid poly propelyne made soft closing seat cover (Premium Range)		
	privioius bill QTY . MB. PAGE		**6.00**
	this bill Qty		0.00
	Total	**Each**	**6.00**
79	White Vetrious China made Flat Back Anti germ Fluoro-Polymer Coated **Urinal** (Inbuilt spreaders, Inbuilt Bottle trap and inbuilt ceramic Waste coupling) Size 710 X 480 X300 mm with sensor (Premium Range)		
	White Vetrious China made Flat Back Anti germ Fluoro-Polymer Coated Urinal (Inbuilt spreaders, Inbuilt Bottle trap and inbuilt ceramic Waste coupling) Size 710 X 480 X300 mm with sensor (Premium Range)		
	privioius bill QTY . MB. PAGE		**6.00**
	this bill Qty		0.00
	Total	**Each**	**6.00**
80	White Vetrious China Anti germ Fluoro-Polymer Coated **Wash Basin** Size 190x600x435mm with wall mounted pressmatic pillar cock auto closing system (decol technology). (Premium Range)		
	White Vetrious China Anti germ Fluoro-Polymer Coated Wash Basin Size 190x600x435mm with wall mounted pressmatic pillar cock auto closing system (decol technology). (Premium Range)		
	privioius bill QTY . MB. PAGE		**7.00**
	this bill Qty		0.00
	Total	**Each**	**7.00**
80	Providing and fixing 8mm thick frosted safety glass Urinal partition size 900mm height and 450mm width, fixed with C P brass bracket of appropriate size i/c cutting and making good the wall and floors wherever required with all fittings and fixtures etc. complete.(Premium Range)		
	privioius bill QTY . MB. PAGE		**5.00**
	this bill Qty		

	Total	**Each**	**5.00**
80	Providing and fixing bevelled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.		
	privioius bill QTY . MB. PAGE		**3.15**
	this bill Qty		
	Total	**sqm**	**3.15**
81	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100mm sand cast Iron P or S trap, UPVC P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required :		
	White Vitreous china Orissa pattern W.C. pan of size 580x440mm with integral type foot rests.		
	privioius bill QTY . MB. PAGE		**1.00**
	this bill Qty		0.00
	Total	**Each**	**1.00**

81	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS : 1285, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and paneling to be paid for separately) :		
	privioius bill QTY . MB. PAGE		**38.08**
	this bill Qty		15.32
	Total	**Kg**	**53.40**
82	Providing and fixing in position best Indian (bonut size 24mm, ceramic disc size 19mm and min. body thickness 2mm, nickel plating 0.10 micron and chrome plating 0.3 micron, quarter turn) **2- way Bib Cock** .(Premium Range)		
	privioius bill QTY . MB. PAGE		**7.00**
	this bill Qty		0.00
	Total	**Each**	**7.00**
83	Providing and fixing in position best Indian Health Faucet with 8mm dia 1 meter long Flexible Tube and wall bracket with N. R. V. (non-return wall).(Premium Range Sanitary Ware)		
	privioius bill QTY . MB. PAGE		**6.00**
	this bill Qty		0.00
	Total	**Each**	**6.00**

84	Boring, Providing and installing cast in situ single under reamed piles of specified diameter and length in M 20 cement concrete, excluding the cost of steel reinforcement but including the cost of boring, cement concrete, all complete. (Length of pile for payment shall be measured upto to the bottom of pile cap):		
	300 mm dia piles		
	privioius bill QTY . MB. PAGE		**25.19**
	this bill Qty		2.00
	Total	**meter**	**27.19**
84	Man hole with above specifications having inside size **90x80** cm and 60 cm deep including C.I. cover with frame (light duty) 450x600 mm clear opening as per IS : 1726 : 1991.		
	privioius bill QTY . MB. PAGE		**3.00**
	this bill Qty		0.00
	Total	**sqm**	**3.00**
85	Man hole with above specifications having inside size 450x450mm and 900mm deep including SFRC square Man hole Cover and frame (medium Duty) 450mmx 450mm complete.		
	privioius bill QTY . MB. PAGE		**5.00**
	this bill Qty		0.00
	Total	**sqm**	**5.00**
86	Man hole with above specifications having inside size 600x450mm and 900mm deep including SFRC square Man hole Cover and frame (medium Duty) 450mmx 450mm complete.		
	privioius bill QTY . MB. PAGE		**1.00**
	this bill Qty		0.00
	Total	**sqm**	**1.00**
87	Extra for providing full edge moulding to 16mm thick marble stone counters, Vanities etc. including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer- in- Charge		
	privioius bill QTY . MB. PAGE		**1163.04**
	this bill Qty		
	Total	**sqm**	**1163.04**

87	Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters using following hinges.		
	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.		
	privioius bill QTY . MB. PAGE		**23.52**
	this bill Qty		0.00
	Total	**sqm**	**23.52**
88	Topiary:-- Ficus Benjamina, Hamelia patens, Kochia Burning Bushes.		
	privioius bill QTY . MB. PAGE		**40.00**
	this bill Qty		
	Total	**Each**	**40.00**
89	Shrubs-: Tabernaemontana Coronia, **Allamanda**, Plumbago, Raphis Palm, **Ixora Singaporensis**, Plumeria dwarf, Acalypha Red/Green.		
	privioius bill QTY . MB. PAGE		**750.00**
	this bill Qty		
	Total	**Each**	**750.00**
90	Providing and Displaying Poinsettia dwarf multi head, having 25 to 30 cm ht., with 5 to 7 branches with fully different coloured top with fresh & healthy foliage well developed in 20 cm Earthen Pot/Plastic Pot and as per direction of the officer-in-charge.		
	privioius bill QTY . MB. PAGE		**400.00**
	this bill Qty		
	Total	**Each**	**400.00**
91	Providing and stacking of **Ficus panda** of height 90-105 cm. with 10-12 branches and healthy foliage, well formed in cement pots of size 30 cm as per direction of the officer-in-charge.		
	privioius bill QTY . MB. PAGE		**350.00**
	this bill Qty		0.00

	Total	**Each**	**350.00**
92	Providing and Displaying **Vinca** different colour 6 to 8 well developed branch in full bloom stacked with green painted Bamboo stick in 25 cm Earthen Pot/Plastic Pot and as per direction of the officer-in-charge.		
	privioius bill QTY . MB. PAGE		**1000.00**
	this bill Qty		**0.00**
	Total	**Each**	**1000.00**
93	Providing and stacking of Azadirachta indica (Neem) of height 120-130cm in big polybag of size 25 cm as per direction of the officer-in-charge.		
	privioius bill QTY . MB. PAGE		**30.00**
	this bill Qty		
	Total	**Each**	**30.00**
94	Providing and stacking of Nauclea cadamba (Kadam) of height 150-165 cm. in big poly bag of size 25 cm as per direction of the officer-in-charge.		
	privioius bill QTY . MB. PAGE		**40.00**
	this bill Qty		
	Total	**Each**	**40.00**
95	Providing and stacking of Tabebuia sp. of height 150-165 cm. in big polybags of size 25 cm as per direction of the officer-in-charge		
	privioius bill QTY . MB. PAGE		**30.00**
	this bill Qty		
	Total	**Each**	**30.00**
96	Providing and stacking of Largerstroemia indica of height 90-105 cm. multibranched in poly bags of size 25 cm as per direction of the officer-in-charge.		
	privioius bill QTY . MB. PAGE		**60.00**
	this bill Qty		
	Total	**Each**	**60.00**
97	Providing and stacking of Saraca indica (Sita Ashok) of height 105-120 cm. in big poly bags of size 25 cm as per direction of the officer-in-charge.		
	privioius bill QTY . MB. PAGE		**30.00**

	this bill Qty		
	Total	**Each**	**30.00**
98	Providing and stacking of Jacaranda mimosifolia of height 150-165 cm. in big poly bags of size 25 cm as per direction of the officer-in-charge		
	privioius bill QTY . MB. PAGE		**40.00**
	this bill Qty		0.00
	Total	**Each**	**40.00**
99	Bakul Treee		
	privioius bill QTY . MB. PAGE		**60.00**
	this bill Qty		
	Total	**Each**	**60.00**
100	Rudraksha tree		
	privioius bill QTY . MB. PAGE		**60.00**
	this bill Qty		
	Total	**Each**	**60.00**
101	African Tulip tree		
	privioius bill QTY . MB. PAGE		**60.00**
	this bill Qty		
	Total	**Each**	**60.00**
102	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level		
	Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate.		
	privioius bill QTY . MB. PAGE		**0.00**
	this bill Qty		6.44
	Total	**Cum**	**6.44**
	Providing & fixing of PS- Ultra, Pop up spray head bodies, having features an encased plastic 'cage' to provide unmatched resistance to grit,with high efficiency ADJUSTABLE nozzle capable of covering 1.2M -5.2m at 1.0 - 2.1 Bars, pressur. Additionally Two-piece ratchet mechanism, Features is Precision controlled flush at pop-down clears debris from unit, Construction of time-proven UV_resitant plastic.		
	privioius bill QTY . MB. PAGE		**0.00**
	this bill Qty		40.00
	Total	**Each**	**40.00**

	Providing & Fixing of SJ- 512, 1/2" Pop up Connecting Four Elbow Swing joint Assembly. The fittings shall be made of UV resistant thermo plastic.		
	privioius bill QTY . MB. PAGE		
	this bill Qty		**40.00**
	Total	**Each**	**40.00**
	Providing and fixing of PP service saddle of varying size.1/2'		
	privioius bill QTY . MB. PAGE		**0.00**
	this bill Qty		40.00
	Total	**Each**	**40.00**
	Providing and fixing 25 mm thick shutters for cup board etc. :		
	Panelled or panelled & glazed shutters of :		
	1st class teak wood including nickel plated bright finished M.S. piano hinges with necessary screws.		
	privioius bill QTY . MB. PAGE		**0.00**
	this bill Qty		5.70
	Total	**Sqm**	**5.70**
	Providing and fixing magnetic catcher in cupboard / ward robe shutters including fixing with necessary screws etc. complete (Best make of approved quality)..		
	Double strip (horizontal type).		
	privioius bill QTY . MB. PAGE		**0.00**
	this bill Qty		12.00
	Total	**Each**	**12.00**
	Providing and fixing ISI marked stainless steel handles with necessary screws etc. complete :		
	125 mm		
	privioius bill QTY . MB. PAGE		**0.00**
	this bill Qty		12.00
	Total	**Each**	**12.00**

	Preparation of mounds of various size and shape by available excavated /supplied earth in layers not exceeding 20 cm in depth, breaking clods, watering of Each layer, dressing etc. lead upto 50 metre and lift upto 1.5 m complete as per direction of Engineer-in-Charge.	cum	
	privioius bill QTY . MB. PAGE		**0.00**
	this bill Qty		12289.04
	Total	**Sqm**	**12289.04**
	Providing and fixing ISI marked stainless steel sliding door bolts with nuts and screws etc. complete:		
	300x16 mm		
	privioius bill QTY . MB. PAGE		**0.00**
	this bill Qty		24.00
	Total	**Each**	**24.00**
	Anti termite treatment of lawn area through premise 30.50% I P. one liter premise diluted in 499 liters water and applying solution @ 1.00 litre solution per sqm lawn or bed area.(two application) i/c cost of chemical)and as per direction of officer-in-charge.and as per direction of officer-in-charge.	sqm	
	privioius bill QTY . MB. PAGE		**0.00**
	this bill Qty		4335.82
	Total	**Each**	**4335.82**
	Treatment of soil under existing floors using chemical emulsion @ one liter per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the existing floor : With Chlorpyriphos/Lindane E.C. 20% with 1% concentration.	sqm	
	Total	**Each**	**52.48**
99	Wall art work (2D/3D painting) – Providing and painting 2D/3D wall painting including all material and labour complete as per engineer in charge.		
			50.30
	Total	**Each**	**50.30**

100	Wall art work with Mandna wall painting including all material and labour complete as per engineer in charge.	**Each**	**79.18**

Annexure J-2

Neelkanth Van Electrical Asset List			
Sr. No.	**Item Description**	**UOM**	**Qty**
1	Post Top lantern 25 Watt LED , color temp 3000-6500K	Each	44
2	Flood Light , 120 Watt , Color temp 3000-6500K	Each	9
3	Architechtural RGB type under water flood light 20 to 25 Watt	Each	38
4	Decorative designer Poles , 3 Mtr, Height	Each	10
5	Architechtural Monochrome type Step light LED fixtures	Each	25
6	Bollard LED 8-10 Watt	Each	35
7	LED type tree up lighters 15-20 Watt	Each	10
8	Stand mounted LT Panel 63 Amp TPN MCB Incomer	Each	1
9	Modular Switch Boxes 8 module	Each	2
10	Modular Switch Boxes 12 module	Each	2
11	Water Fountain	Each	1

Annexure K-1

Neelkanth marg (R18) Road		
Description	**Unit**	**Upto Date Qty.**
Dismantling of flexible pavements and disposal of dismantled materials up to a lead of 1000 meter, stacking serviceable and unserviceable materials separately and as per relevant clauses of section-200. (Ref. Spacification 2012 part 3 roads and bridges) Bituminous courses	Cum.	
Qty of TMB pg		22.80
Total Qty.		22.80
Dismantling of flexible pavements and disposal of dismantled materials up to a lead of 1000 meter, stacking serviceable and unserviceable materials separately and as per relevant clauses of section-200. (Ref. Spacification 2012 part 3 roads and bridges) Granular courses	Cum.	
Qty b/f from TMB		1952.95
Total Qty.		1952.95
Dismantling of cement concrete pavement i/c breaking in to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials up to a lead upto 1000 meter, stacking serviceable and unserviceable materials separately and as per relevant clauses of section-200 (Ref. Specification 2012 part 3 roads and bridges). Concrete Pavement	Cum.	
Qty of TMB pg		**2722.93**
Total Qty.		**2722.93**
Demolishing cement concrete manually/by mechanical means including disposal of material within 50 meters lead as per direction of Engineer-in-charge.	Cum.	
Qty of TMB pg		489.20
Total Qty.		**489.20**
Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 meters lead as per direction of Engineer-in-	Cum.	
Qty of TMB pg		6550.28
		0.00
Total Qty.		**6550.28**

Description	Unit	Upto Date Qty.
Demolishing brick work manually/by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 meters lead as per direction of Engineer-in-In Cement Mortar	Cum.	
Qty of TMB pg		591.98
Qty b/f from MB pg		0.00
Total Qty.		**591.98**
Excavation in all kinds of soil for drainage work by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5m in width including disposal of excavated earth, lead upto 50m and lift..upto 1.5m, disposed earth to be levelled and neatly dressed.	Cum.	
Qty of TMB pg		19636.68
		0.00
Total Qty.		**19636.68**
Extra for every additional lift of 1.5m or part there of over item 18.1 to 18.3	Cum.	
Qty of TMB pg		21701.03
qty b/f MB pg		0.00
Total Qty.		**21701.03**
Providing and laying cement concrete grade 1:3:6 with 40mm graded crushed stone aggregate, (M-10 nominal mix) including the cost of centering and shuttering. Compacting with appropriate method, finishing and curing and as per relevant clauses of section.603.	Cum.	
Qty of TMB pg		571.16
		0.00
Total Qty.		**571.16**
Reinforcement for RCC work including straightening, cutting, bending, placing in position and binding including cost of binding wire upto all height and level including wastage etc completeTMT (Thermo-Mechanically Treated Bars)	kg	

Description	Unit	Upto Date Qty.
Qty of TMB pg		591024.84
		472.46
Total Qty.		**591497.30**
Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work including concrete laying, cost of centering, shuttering, finishing and including Admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in- charge. M-20 grade design mix reinforced cement concrete by using 405 kg. of cement per cum of concrete. All work up to plinth level excluding the cost of reinforcement.		
RCC Grade M25	Cum.	
Qty of TMB pg		4126.48
Qty b/f from MB pg		0.00
Total Qty.		**4126.48**
Centering and shuttering including strutting, propping etc. and removal of form for : Suspended floors, roofs, landings, balconies and access platform		
Qty of TMB pg		1551.00
		0.00
Total Qty.		**1551.00**
Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement. including Admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. M-25 grade reinforced cement concrete by using 410 kg. of		
Qty of TMB pg		2495.34
Qty b/f from MB pg		2.88
Total Qty.		**2498.22**

Description	Unit	Upto Date Qty.
Earth work in Excavation for pipe trench in all kinds of soil and and WBM in areas including dressing, watering and ramming and disposal of Excavated earth lead upto 50 meters and lift upto 1.5m, disposal earth to be leveled, neatly dressed.	Cum.	
Qty of TMB pg		5141.46
Qty b/f from MB pg		0.00
Total Qty.		5141.46
Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 mtr and more	Cum.	
Qty of TMB pg		23866.13
Qty b/f from MB pg		0.00
Total Qty.		23866.13
Loading and unloading of Excavated & Dismantled stone boulder / stone aggregates / sand / kanker / moorum/ Sand. (Placing tipper at loading point,152loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip)		
Transportation of material		
For a lead upto 1 Km.	Cum.	
Qty of TMB pg		2150.00
Total Qty.		**2150.00**
For a lead upto 3 Km.	Cum.	
Qty of TMB pg		12670.00
Total Qty.		**12670.00**
For a lead upto 5 Km.	Cum.	
Qty of TMB pg		4246.00
Total Qty.		**4246.00**
Beyond 5 Kms. and upto 10 Kms. (Add for every 1 Km)	Cum.	
Qty of TMB pg		6219.00
Total Qty.		6219.00

Description	Unit	Upto Date Qty.
Construction of granular sub-base by providing coarse graded material, spreading in uniform layers with on prepared surface, mixing by mix in place method at OMC, and compacting with vibratory roller to achieve the desired density, complete in all respect and as per relevant clauses of section-400.	Cum.	
Qty of TMB pg		649.51
Total Qty.		649.51
Earth work in Excavation by Mechenical Means (Haydrulic Excavator) / Manual means over area (exceeding 300mm depth,1.5 m in width or 10 Sqm on plan) including dressing of sides and ramming of bottoms lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50m.	Cum.	
Qty of TMB pg		4532.90
Qty b/f from MB pg		0.00
Total Qty.		4532.90
Supplying and filling in plinth under floors including, watering, ramming consolidating and dressing complete.	Cum.	
Qty of TMB pg		607.09
		0.00
Total Qty.		607.09
Boring, Providing and installing cast in situ single under reamed piles of specified diameter and length below pile cap in M 35 cement concrete, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and the length of the pile to be embedded in pile cap etc. all complete. (Length of pile for payment shall be measured upto to the bottom of pile cap) :	meter	
Qty of TMB pg		2529.00
		0.00
Total Qty.		2529.00

Description	Unit	Upto Date Qty.
Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering. All work up to plinth level. Cement Concrete grade M-10 (Nominal Mix) with 20 mm maximum size of stone aggregate.	Cum.	
Qty of TMB pg		551.81
Qty b/f from MB pg		0.00
Total Qty.		551.81
Centering and shuttering including strutting, propping etc. and removal of form for : Foundations, footings, bases of columns, etc. for mass concrete up to plinth level.	sqm	
Qty of TMB pg		872.63
Qty b/f from MB pg		0.00
Total Qty.		872.63
Providing and laying in position machine batched machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work including pumping of concrete to site of laying but excluding the cost of centering shuttering finishing and reinforcement. including Admixtures in recommended proportions as per IS 9103 to accelerate retard setting of concrete improve workability without impairing strength and durability as per direction of Engineer-in-charge. M-30 grade reinforced cement concrete by using 420 kg. of cement per cum of concrete. All work up to floor 2 level.	Cum.	
Qty of TMB pg		76.08
Total Qty.		76.08
Filling with moorum for pipe bedding or over the pipe including supply of moorum.	Cum.	
Qty of TMB pg		283.20
		0.00
Total Qty.		283.20

Description	Unit	Upto Date Qty.
Providing and Laying non-pressure (NP4) RCC socket & spigot pipes with rubber gasket jointi ncluding testing of joints. [Conforming to IS ;458-1988, ISI marked laying as per IS 783:1985)	meter	
450mm		
Qty of TMB pg		249.00
		0.00
Total Qty.		249.00
Providing and Laying non-pressure (NP4) RCC socket & spigot pipes with rubber gasket jointi ncluding testing of joints. [Conforming to IS ;458-1988, ISI marked laying as per IS 783:1985)	Meter	
900mm		
Qty of TMB pg		140.00
		0.00
Total Qty.		140.00
Providing laying jointing and field testing of high-density polyethylene Pipes (Hdpe) confirming to IS 4984/14151/12786/13488 with necessary jointing material like mechanical connector or jointing Pipes by heating to the ends of pipes with the help of Teflon coated electric mirror heater to the required temperature and then pressing the ends together against each other to form a monolithic and league group joined by thermosetting process	Meter	
Qty of TMB pg		245.00
Total Qty.		245.00
.		
Providing laying jointing and field testing of high-density polyethylene Pipes (Hdpe) confirming to IS 4984/14151/12786/13488 with necessary jointing material like mechanical connector or jointing Pipes by heating to the ends of pipes with the help of Teflon coated electric mirror heater to the required temperature and then pressing the ends together against each other to form a monolithic and league group joined by thermosetting process	Meter	
Qty of TMB pg		265.00

Description	Unit	Upto Date Qty.
Qty b/f from MB pg		0.00
Total Qty.		265.00
Providing and Laying non-pressure (NP4) RCC socket & spigot pipes with rubber gasket jointi ncluding testing of joints. [Conforming to IS ;458-1988, ISI marked laying as per IS 783:1985)	meter	
700mm Dia		
Qty of TMB pg		52.50
Total Qty.		52.50
Column 5.0mtr Height as per approved Design & Drawing.	**Each**	
Previous Qty		39.00
Qty b/f from MB pg		0.00
Total Qty.		39.00
Excavation for roadway in soil including loading in truck for carrying of cut earth to embankment site with all lifts and lead upto 1000 meters and as per relevant clauses of section-300.		
Qty of TMB pg		1033.91
Qty b/f from MB pg		0.00
Total Qty.		1033.91
Construction of Embankment/Sub grade/ earth shoulders, as per clause 305 & its sub-clauses. Where required but with approved materials/soil like morrum CBR value not less then 7% i/c all lead & lifts i/c excavation, cost of watering, compaction and maintenance of surface during construction to ensure shedding & preventing ponding of water (clause 305.3.6) shaping & dressing (clause 305.3.7), finishing etc. complete but excluding scarifying existing granular/bituminous road surface vide clause 305.6.		
Qty of TMB pg		6180.35
Qty b/f from MB pg		0.00
Total Qty.		6180.35

Description	Unit	Upto Date Qty.
Crusher Run Macadam Base (Providing crushed stone aggregate, depositing on a prepared surface by hauling vehicles, spreading and mixing with a motor grader, watering and compacting with a vibratory roller to clause 410 to form a layer of sub-base/Base)		
Qty of TMB pg		655.74
Qty b/f from MB pg		15.43
Total Qty.		671.17
Construction of dry lean cement concrete Sub-base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table of MORTH Specifications 600-1, cement content not to be less than 200 kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with paver with electronic sensor/mechanical paver, compacting with 8-10 tonnes vibratory roller, finishing and curing and as per relevant clauses of section-603.		
Qty of TMB pg		596.37
Qty b/f from MB pg		2.88
Total Qty.		599.25

Description	Unit	Upto Date Qty.
Construction of dowel jointed, plain cement concrete pavement in M-40 grade concrete over a prepared sub base with 43 or higher grade cement, maximum size of coarse aggregate not exceeding 25 mm, mixed in a batching and mixing plant as per approved mix design, transported to site, laid with a fixed form or slip form paver with electronic sensor, spread, compacted and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealant, debonding strip, placing of dowel bar and tie rod, admixtures as approved, curing compound, finishing to lines and grades as per approved drawings as per IRC-15 2002 and as per relevant clauses of section-602 of of MORTH specifications complete but excluding cost of steel in dowel bar & tie rod etc..		
Qty of TMB pg		911.90
Qty b/f from MB pg		10.29
Total Qty.		922.19
Add extra in Item No.- 6.3 & 6.5 above for the cost of steel in dowel bar and tie rod etc. required as per design.		
32 mmMild Steel dowel bars		
32mm Dowel Bar		
Qty of TMB pg		6.91
Total Qty.		6.91
Tor steel tie rod		
Qty of TMB pg		0.30
Total Qty.		0.30
Centering and shuttering including strutting, propping etc. and removal of form for :		
Wall (any thickness including attached pillars, butteress, plinth and string coursees etc.)		
Qty of TMB pg		3713.85

Description	Unit	Upto Date Qty.
Qty b/f from MB pg		11.54
Total Qty.		3725.39
Centering and shuttering including strutting, propping etc. and removal of form for :		
Lintels, beams, plinth beams, girders, bressumers and cantilevers.		
Qty of TMB pg		461.61
		0.00
Total Qty.		461.61
Centering and shuttering including strutting, propping etc. and removal of form for :		
Columns, Pillars, Piers, Abutments, Posts and Struts.		
Qty of TMB pg		1097.51
Qty b/f from MB pg		0.00
Total Qty.		1097.51
Centering and shuttering including strutting propping etc.and removal of form for : Weather shade, Chajjas, corbels etc., including edges	Sqm	
Qty of TMB pg		241.39
		0.00
Total Qty.		241.39
Labour only for Laying and Jointing non presuure (NP4) RCC Socket and Spigot pipes with rubber gasket joint including testing of joints		
1200mm Dia		
Qty of TMB pg		30.00
Total Qty.		30.00
Labour only for Laying and Jointing non presuure (NP4) RCC Socket and Spigot pipes with rubber gasket joint including testing of joints		
1800mm Dia		
Qty of TMB pg		90.00
Total Qty.		90.00

Description	Unit	Upto Date Qty.
Flooring with Cobble stone of approx. Size 125x125x75 mm (thick) laid on 25 mm average thick cement mortar 1:3 (1 cement : 3 Coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the stone, laid in approved pattern complete in all respect as per direction of Engineer-in-charge.		
Qty of TMB pg		4314.03
Qty b/f from MB pg		739.04
Total Qty.		5053.07
Providing and laying autoclaved aerated cement blocks masonry with 100mm thick AAC blocks in super structure above plinth level up to floor II level in cement mortar 1:4 (1 cement : 4 coarse sand) The rate includes providing and placing in position 2 Nos. 6 mm dia M.S. bars at every third course of masonry work.	**Cum**	
Qty of TMB pg		66.60
Qty b/f from MB pg		0.00
Total Qty.		66.60
Boring, providing and installing bored cast-in-situ reinforced cement concrete pile of specified diameter and length below the pile cap M 35 in cement concrete, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with, bentonite solution and temporary casing of appropriate length for setting out and removal of same and the length of the pile to be embedded in the pile cap etc. all complete, including removal of excavated earth with all lifts and leads (Length of pile for payment shall be measured upto bottom of pile cap).	**Mtr**	
300mm Dia		
Qty of TMB pg		120.00
Total Qty.		120.00

Description	Unit	Upto Date Qty.
18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement: 5 coarse sand) finished with a top layer 6mm thick cement plaster 1:6 (1 cement: 6 fine sand).	Sqm.	
Qty of TMB pg		523.98
Qty b/f from MB pg		0.00
Total Qty.		523.98
Providing laying jointing and field testing of high-density polyethylene Pipes (Hdpe) confirming to IS 4984/14151/12786/13488 with necessary jointing material like mechanical connector or jointing Pipes by heating to the ends of pipes with the help of Teflon coated electric mirror heater to the required temperature and then pressing the ends together against each other to form a monolithic and league group joined by thermosetting process 50mm Dia	Metre	
Qty of TMB pg		200.00
Qty b/f from MB pg		-
Total Qty.		200.00
UNPLASTICIZED PVC PIPES & FITTINGS FOR POTABLE WATER SUPPLY	RM	
6Kg/Cm2		
Qty of TMB pg		104.91
Qty b/f from MB pg		-
Total Qty.		104.91
	Sqm.	
150 x 100 mm size P type.		
Qty of TMB pg		25.00
Qty b/f from MB pg		-
Total Qty.		25.00
Rebaring of TMT bars by drilling hole & embedding bars of different diameter using epoxy grouting compound including all tools and tackles complete.	Per 100 mm	
8mm dia bar 10 mm dia hole		
Qty of TMB pg		0.00
Qty b/f from MB pg		-
Total Qty.		0.00

Description	Unit	Upto Date Qty.
10mm dia bar 12 mm dia hole		
Qty of TMB pg		8160.00
Qty b/f from MB pg		
Total Qty.		8160.00
12mm dia bar 16 mm dia hole		
Qty of TMB pg		5758.00
Qty b/f from MB pg		0.00
Total Qty.		5758.00
16mm dia bar 20 mm dia hole		
Qty of TMB pg		0.00
Qty b/f from MB pg		
Total Qty.		0.00
40 mm thick rubbed local Flag stone flooring over 20 mm (average) thick base of cement mortar 1:5 (1 cement :5 coarse sand) with joints 3mm thick, side buttered with cement mortar 1:2 (1 cement : 2 stone dust) admixed with pigment to match the shade of stone and pointing with same mortar (minimum size of kota stone 0.25 sqm)	Sqm	
Red sand stone		
Qty of TMB pg		50.40
Qty b/f from MB pg		0.00
Total Qty.		50.40
Steel work in built up tubular trusses including cutting, hoisting fixing in position and applying a priming coat of approved steel primer, welded and bolted including special shaped washers etc. complete.	kg	
Hot finished welded type tubes.		
Qty of TMB pg		5460.90
Qty b/f from MB pg		0.00
Total Qty.		5460.90
Providing and fixing expansion hold fasteners on C.C. /R.C.C. surface backing including drilling necessary holes and the cost of bolt etc complete.	Each	
Wedge expansion type		
Fastener with threaded dia 12 mm.		
Qty of TMB pg		110.00
Qty b/f from MB pg		0.00
Total Qty.		110.00

Description	Unit	Upto Date Qty.
Providing and fixing in wall lining MDF board medium density fibre board IS: 14587:1998 marked, Pre-laminated one side decorative lamination and other side balancing lamination, with necessary fixing arrangement and screws etc. complete.Wall lining with Prelaminated fibre board	Sqm	
12 mm thick		
Qty of TMB pg		35.20
Qty b/f from MB pg		0.00
Total Qty.		35.20
Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS : 1285, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and paneling to be paid for separately) :	Kg	
For fixed portion -Powder coated aluminium (minimum thickness of powder coating 50 micron)		
Qty of TMB pg		259.01
Qty b/f from MB pg		73.77
Total Qty.		332.77

Description	Unit	Upto Date Qty.
Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS : 1285, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and paneling to be paid for separately) :	Kg	
labour rate		
Qty of TMB pg		36.16
Qty b/f from MB pg		0.00
Total Qty.		36.16
Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS : 1285, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and paneling to be paid for separately) :	Kg	

Description	Unit	Upto Date Qty.
For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of PVC / neoprene gasket required (Fittings shall be paid for separately). -Powder coated aluminium (minimum thickness of powder coating 50 micron)		
Qty of TMB pg		32.37
Qty b/f from MB pg		34.85
Total Qty.		67.21
Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS : 1285, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and paneling to be paid for separately) :	**Kg**	
labour rate		
Qty of TMB pg		8.09
Qty b/f from MB pg		0.00
Total Qty.		8.09

Description	Unit	Upto Date Qty.
Providing and fixing 12mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of Engineer-in-charge	**Sqm**	
Pre-laminated particle board with decorative lamination on one side and balancing lamination on other side.		
Qty of TMB pg		45.78
Qty b/f from MB pg		5.40
Total Qty.		51.18
Providing and fixing 12mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of Engineer-in-charge	**Sqm**	
labour rate		
Qty of TMB pg		2.70
Qty b/f from MB pg		0.00
Total Qty.		2.70
providing & fixing glazing in aluminium door, window etc.	**Sqm**	
with float glass panes of 4.0mm thickness		
Qty of TMB pg		43.19
Qty b/f from MB pg		12.84
Total Qty.		56.02
Providing fixingaluminium roundshapehandleofouterdia100mmwithSSscrewsetc.completeasperdirectionofEngineer-in-charge	Each	
Powdercoatedminimumthickness50micronaluminium.		
Qty of TMB pg		2.00
Qty b/f from MB pg		0.00
Total Qty.		2.00

Description	Unit	Upto Date Qty.
ProvidingandfixingIS:3564markedAluminiumdiecastbodytubulartypeuniversalhydraulicdoorcloserwithnecessaryaccessoriesandscrewsetc. complete.	Each	
Qty of TMB pg		2.00
Qty b/f from MB pg		0.00
Total Qty.		2.00
ProvidingandfixingIS:12817markedstainlesssteelbutthinges(heavyweight) with stainless steelscrews etc.complete:	Each	
100x60x2.50mm		
Qty of TMB pg		6.00
Qty b/f from MB pg		0.00
Total Qty.		6.00
Providing and fixing Ist quality ceramic glazed wall tiles conforming to IS : 15622 (6 to 7mm thick) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	Sqm	
Qty of TMB pg		6.86
Qty b/f from MB pg		79.91
Total Qty.		86.76
Providing and laying Ceramic glazed floor tiles 300x300 mm (9 to 10 mm thick) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick Cement Mortar 1:4 (1 Cement : 4 Coarse sand) including pointing the joints with white cement and matching pigment etc., complete.	Sqm	
Qty of TMB pg		2.27
Qty b/f from MB pg		20.73
Total Qty.		22.99

Description	Unit	Upto Date Qty.
Providingandfixing16mmthickgangsawcutmirror polished premoulded and prepolished) machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) with joints treated with white cement,mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edge to give high gloss finish etc. complete at all levels.	Sqm	
Granite of any colour and shade-Area of slab upto 0.50 sqm		
Qty of TMB pg		2.65
Qty b/f from MB pg		0.00
Total Qty.		2.65
Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS 13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required : Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS 13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required :	Each	
610x460 mm bowl depth 200 mm.		
Qty of TMB pg		1.00
Qty b/f from MB pg		0.00
Total Qty.		1.00
Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete	SQM	
Qty of TMB pg		102.85
Qty b/f from MB pg		312.34
Total Qty.		415.18

Description	Unit	Upto Date Qty.
New work (two or more coats) including a coat of approvedsteel primer bu excluding a coat of mordant solution.Finishing walls with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications : Two or more coats applied @ 1.25 ltr/10 sqm. over and including one coat of Special primer applied @ 0.75 ltr/10 sqm.	sqm	
Qty of TMB pg		102.85
Qty b/f from MB pg		312.34
Total Qty.		415.18
Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plane and brass threaded fitting i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.	Meter	
Internal work - Exposed on wall.		
15 mm nominal outer dia .Pipes.		
Qty of TMB pg		45.00
Qty b/f from MB pg		0.00
Total Qty.		45.00
Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plane and brass threaded fitting i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.	Meter	
Internal work - Exposed on wall.		
25 mm nominal outer dia .Pipes.		
Qty of TMB pg		52.00
Qty b/f from MB pg		35.00
Total Qty.		87.00

Description	Unit	Upto Date Qty.
Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plane and brass threaded fitting i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.	Meter	
Internal work - Exposed on wall.		
40 mm nominal outer dia .Pipes.		
Qty of TMB pg		51.00
Qty b/f from MB pg		0.00
Total Qty.		51.00
ProvidingandfixingC.P.brassbibcockofapprovedqualityconformingto IS:8931	Each	
15mm nominal bore		
Qty of TMB pg		4.00
Qty b/f from MB pg		3.00
Total Qty.		7.00
ProvidingandfixingC.P.brassstopcock(concealed)ofstandarddesignandofa pprovedmakeconformingtoIS:8931.	Each	
15mm nominal bore		
Qty of TMB pg		5.00
Qty b/f from MB pg		5.00
Total Qty.		10.00
Providing and fixing white vitreous china pedestal type water closet (European type W.C.pan)with seat and lid, 10 litre low level white P.V.C. flushing cistern with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and loors wherever required:	Each	
W.C.pan with ISI marked white solid plastic seat and lid		
Qty of TMB pg		1.00
Qty b/f from MB pg		1.00
Total Qty.		2.00

Description	Unit	Upto Date Qty.
Providing and fixing wash basin with C.I. brackets,15 mm C.P.brass pillar taps,32mmC.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require :	Each	
White Vitreous China Flat back wash basin size 550x400 mm with single 15mm C.P.brass pillar tap.		
Qty of TMB pg		1.00
Qty b/f from MB pg		5.00
Total Qty.		6.00
WhiteVitreousChinaFlatbackwashbasinsize450x300mmwith single 15mmC.P.brasspillartap.	each	
Qty of TMB pg		1.00
Qty b/f from MB pg		0.00
Total Qty.		1.00
Providingandfixingwhitevitreouschinapedestalforwashbasincompletelyre cessedatthebackforthereceptionofpipes andfittings.	each	
Qty of TMB pg		1.00
Qty b/f from MB pg		0.00
Total Qty.		1.00
12 mm cement plaster 1:2 (1 cement: 2 stone dust)	Sqm	
Qty of TMB pg		200.31
Qty b/f from MB pg		0.00
Total Qty.		200.31
Providing and laying Plain/Reinforced cement concrete (mixed in concrete mixture) in open foundation including form work shuttering etc. complete as per drawing and technical specifications and as per relevant clauses of sections 1500, 1700 & 2100 with . PCC Grade M20 with 20 mm maximum size of aggregate	Cum	
Qty of TMB pg		255.39
Qty b/f from MB pg		0.00
Total Qty.		255.39

Description	Unit	Upto Date Qty.
Providing and Laying non-pressure (NP4) RCC socket & spigot pipes with rubber gasket jointi ncluding testing of joints. [Conforming to IS ;458-1988, ISI marked laying as per IS 783:1985)	meter	
600mm		
Qty of TMB pg		42.50
		0.00
Total Qty.		42.50
In Grating Frames Guard Bars	Kg	
Qty of TMB pg		3217.55
		665.84
Total Qty.		3883.39
Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc.above plinth level and up to floor two level excluding cost of centering, shuttering and reinforcement etc.M20	Cum	
Qty of TMB pg		12.92
		0.00
Total Qty.		12.92
Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete	Sqm	
Qty of TMB pg		210.82
		312.34
Total Qty.		523.15
Finishing walls with Acrylic Smooth exterior paint of required shade.	Sqm	
Qty of TMB pg		210.82
		312.34
Total Qty.		523.15
Providing & fixing in position RCC manhole cover .450x900 mm rectangular manhole cover without frame	Nos	
Qty of TMB pg		202.00
Qty b/f from MB pg		42.42

Description	Unit	Upto Date Qty.
Total Qty.		244.42
Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface (Providing and laying of ho applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 .The finished surface to be level, uniform and free from streaks and holes and as per	**Sqm**	
Qty of TMB pg		108.91
Qty b/f from MB pg		0.00
Total Qty.		108.91
Drilling of perfectly vertical bore hole of a diameter suitable to receive 200mm nominal diameter casing pipe upto desired depth below ground level inclusive of the labour charges for transporting, lowering and fixing of 200mm nominal diameter M,S./G.I./U.P.V.C. casing pipe inside the bore hole including all works pertaining to drilling such as transportation, installation and removal of drilling machine etc. complete.	**Mtr**	
in all types of collapsible strata consisting of soils, clays, sand, moorum, gravel, boulders etc.		
Qty of TMB pg		0.00
Qty b/f from MB pg		98.50
Total Qty.		98.50
Supply of I.S.I. marked G.I. casing pipe (Plain) medium class in 4 to 7 meters length one end fitted with socket as per I.S. 1239 (Part-1 & Part-2) 1992 with IVth revision (Up-to-date amendments		
150mm Dia		
Qty of TMB pg		0.00
Qty b/f from MB pg		28.00
Total Qty.		28.00

Description	Unit	Upto Date Qty.
Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations: (a) Applying a slurry coat of neat cement using 2.75 kg/sqm. of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300mm height including cleaning the surface before treatment. (b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs (c) After two days of proper curing applying a second coat of cement slurry using 2.75kg/sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in- charge. (d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top	Sqm	
With average thickness of 120mm and minimum thickness at khurra as 65 mm.	-	
Qty of TMB pg		0.00
Qty b/f from MB pg		196.98
Total Qty.		196.98
Providing, laying and jointing socket & spigot centrifugally cast (Spun) Ductile Iron pressure pipes with inside cement mortar lining (class K-7) conforming to IS 8329/2000 with suitable Rubber Gasket (Push on) joints as per IS:5382/85 including testing of joint (laying conforming to IS 12288 : 1987)	Mtr	
150mm Dia	-	
Qty of TMB pg		0.00
Qty b/f from MB pg		300.00
Total Qty.		300.00

Description	Unit	Upto Date Qty.
Stone tile work for wall lining upto 10 m height with special adhesive over 12mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) including pointing in white cement with an admixture of pigment to match the stone shade.		
8mm thick (mirror polished and machine cut edge)		
Granite stone of any colour and shade.	sqm	
Qty of TMB pg		0.00
Qty b/f from MB pg		7.65
Total Qty.		7.65
Providing and fixing stainless steel English (Capital) and Hindi letters in standard pattern bellow type made with 1.20 mm thick stainless steel (ASI Grade- 304) Depth of letter shall not be less than 30mm and rate includes welding/soldering of joints polishing, buffing and fixing on the wall, plate and beam surface at any height with necessary nut and bolts/fastener wherever is required complete as per direction of Engineer-in-Charge.	Per Letter per CM Height	
Qty of TMB pg		0.00
Qty b/f from MB pg		372.00
Total Qty.		372.00
2D/3D Painting Work.	sqm	
Qty of TMB pg		0.00
Qty b/f from MB pg		157.50
Total Qty.		157.50
SUBMERSIBLE OPENWELL PUMPS:		
The pump shall be provided with a lifting devise of pull chain & G.I. heavy class rising main of 7.5m length including interconnecting piping		
Submersible pump connector unit with rubber diaphragm and bend, vertical Flexible discharge pipe with required unions/flanges and 15 m cable etc. as per requirement complete in all respects.		

Description	Unit	Upto Date Qty.
Electrical Starter panels complete with O/L Relay with Single phasing preventer feature, earth leakage relay, ON-OFF and Trip Indicating lamps, contactors contacts for Building Automation System, interlocking, level controller with operational mode as one pump working at low level, both pumps at high level with a hooter alarm and cut off at dry level and capable to communicate with BMS System through potential free contacts for indication of pump On/Off/Trip with provision of remote on/off.t, cascade operation, working / standby selection, etc. suitable for the motor H.P. as specified below and with provision for remote P.B. on/off complete as required.		
All accessories shall be in vendor's scope and the relevant quotes shall be submitted by the vendors		
Capacity per pump 5 m3/hour 25 mtr Head (1 Set = 1 W+1SB)	**Set**	
Qty of TMB pg		0.00
Qty b/f from MB pg		1.00
Total Qty.		1.00
Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350mm and 340x410x265mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :	Nos	
One urinal basin with 5 litre white P.V.C. automatic flushing cistern		
Qty of TMB pg		0.00
Qty b/f from MB pg		3.00
Total Qty.		3.00

Description	Unit	Upto Date Qty.
Providing and placing on at all floor levels high design HDPE (polyethylene) water storage tank ISI : 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	**Ltr**	
Qty of TMB pg		0.00
Qty b/f from MB pg		1000.00
Total Qty.		1000.00
Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required	**Each**	
White Vitreous china Orissa pattern W.C. pan of size 580x440mm with integral type foot rests		
Qty of TMB pg		0.00
Qty b/f from MB pg		2.00
Total Qty.		2.00
Providing and fixing 16mm thick gang saw cut mirror polished premoulded and prepolished) machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edge to give high gloss finish etc. complete at all levels.	**Sqm**	
Granite of any colour and shade		
Area of slab UP TP 0.50 sqm.		
Qty of TMB pg		0.00
Qty b/f from MB pg		73.37

Description	Unit	Upto Date Qty.
Total Qty.		73.37
Providing and fixing at all height false ceiling including providing and fixing of frame work made of special sections power pressed from M.S. sheet and galvanised in accordance with zinc coating of grade 350 as per IS : 277 and consisting of angle cleats of size 25mm wide x 1.6mm thick with flanges of 22mm and 37mm at 1200mm centre to centre one flange fixed to the ceiling with dash fastener 12.5mm diax40mm long with 6mm dia bolts to the angle hangers of 25x25x0.55mm of required length, and other end of angle hanger being fixed with nut and bolts to G.I. channels 45x15x0.9mm running at the rate of 1200mm centre to centre to which the ceiling section 0.5mm thick button wedge of 80mm with tapered flanges of 26mm each having clips of 10.5mm at 450mm centre to centre shall be fixed in a direction perpendicular to	Sqm	
G.I. channel with connecting clips made out of 2.64mm dia 230mm long G.I. wire at every junction including fixing the gypsum board with ceiling section and peri meter channels 0.5mm thick 27mm high having flanges of 20mm and 30mm long,		
the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450mm centre to centre with 25mm long drive-all screws		

Description	Unit	Upto Date Qty.
@ 230mm interval including jointing and fixing to a flush finish of tapered and square edges of the board with recommended filler, jointing tapes, finisher and two coats of primer suitable for board as per manufactures specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed all complete as per drawing and specification and direction of the Engineer in Charge but excluding the cost of painting with :		
12.5 mm thick tapered edge gypsum board conforming to IS: 2095-Part I.		
Qty of TMB pg		0.00
Qty b/f from MB pg		74.56
Total Qty.		74.56
Providing and laying polished vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption's less than 0.08% and conforming to IS : 15622 of approved make in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc., complete.	Sqm	
Size of Tile 60x60 cm x 10 mm		
Qty of TMB pg		0.00
Qty b/f from MB pg		77.75
Total Qty.		77.74

Description	Unit	Upto Date Qty.
Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work including cutting chases and making good the walls etc.	Mtr	
20 mm nominal outer dia .Pipes.		
Qty of TMB pg		0.00
Qty b/f from MB pg		37.50
Total Qty.		37.50
25 mm nominal outer dia .Pipes.		
Qty of TMB pg		0.00
Qty b/f from MB pg		21.00
Total Qty.		21.00
Providing and fixing brass stop cock of approved quality :	Each	
15 mm nominal bore 0.40kg		
Qty of TMB pg		0.00
Qty b/f from MB pg		2.00
Total Qty.		2.00
20 mm nominal bore 0.75kg		
Qty of TMB pg		0.00
Qty b/f from MB pg		2.00
Total Qty.		2.00
Providing and laying below ground unplasticised PVC pipe to with stand working pressure of 4 kg/cm2 soild waste pipes confirming to IS:13592 and IS:4985 including jointing with seal ring confirming to IS :5282 leaving 10mm gap for thermal expansion all necessary fittings etc. complete.	Mtr	
110 mm diameter OD		
Qty of TMB pg		0.00
Qty b/f from MB pg		25.00

Description	Unit	Upto Date Qty.
Total Qty.		25.00
Providing and laying below ground unplasticised PVC pipe to with stand working pressure of 4 kg/cm2 soild waste pipes confirming to IS:13592 and IS:4985 including jointing with seal ring confirming to IS :5282 leaving 10mm gap for thermal expansion all necessary fittings etc. complete.	Mtr	
110 mm diameter OD		
Qty of TMB pg		0.00
Qty b/f from MB pg		0.00
Total Qty.		0.00
Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters using following hinges.	Sqm	
35mm thick including ISI marked stainless steel butt hinges with necessary screws.		
Qty of TMB pg		0.00
Qty b/f from MB pg		6.51
Total Qty.		6.51
Providing and fixing aluminium tower bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete :	Each	
200x10 mm		
Qty of TMB pg		0.00
Qty b/f from MB pg		6.00
Total Qty.		6.00

Description	Unit	Upto Date Qty.
Providing and fixing aluminium sliding door bolts ISI marked anodised (anodic coating not less than grade Ac 10 as per IS:1868) transparent or dyed to required colour or shade with nuts and screws etc. complete:	Each	
300x16 mm		
Qty of TMB pg		0.00
Qty b/f from MB pg		12.00
Total Qty.		12.00
Providing and fixing aluminium handles ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete :	Each	
125mm for door		
Qty of TMB pg		0.00
Qty b/f from MB pg		12.00
Total Qty.		12.00

Annexure K-2

R-18 Road Electrical Asset List

Sr. No.	Item Description	Unit	Total InstalledQuantity
1	Providing and laying HDPE pipe with three concentric layers viz. outer layer, middle layer and inner layer with ribs. The outer layer shall be made of HDPE material in red colour, middle layer shall be made of HDPE in translucent (natural) and the inner ribbed layer of solid permanent lubricant (PLB) i.e. Silicone.	Meter	994.00
2	Supplying and installing Double wall corrugated pipes (DWC) of HDPE (IS 14930 Part II -marked) for cable laid under ground with necessary connecting sockets/ couplings,tees of same material and at required depth upto 90cm. below road/ground surface,including excavation, back filling with excavated material with ramming and making the surface good.	Meter	
3	63.00mm outside dia.		3511.00
4	110.00mm outside dia.		928.00
5	Earthing with G.I. Earth plate 600mm X 600mm X 6mm thick including accessories and providing masonary encloser in cement mortor, cover plate having locking arrangment on the top and G.I. watering pipe 20mm dia 2.7 meter long etc. (but without charcoal or coke and salt) complete as required.	Each	4.00
6	Earthing with Copper Earth plate 600mm X 600mm X 3mm thick including accessories and providing masonary encloser in cement mortor, cover plate having locking arrangment on the top and G.I. watering pipe 20mm dia 2.7 meter long etc. (but without charcoal or coke and salt) complete as required.	Each	2.00
7	Add Extra for using salt and charcoal / coke for G.I. Plate or Copper plate earth electrode as required including excavation & refilling.	Each	6.00
8	Supplying and laying 25mm X 6mm G.I. strip at 0.5 meter below ground level as strip earth electrode including soldering etc. as required.	Meter	43.00
9	Providing & fixing 25mm X 5mm copper strip in 40mm dia G.I.pipe from earth electrode as required.	Meter	88.00
10	Supply, Installation, Testing and Commissioning 11kV, 500 KVA, Outdoor Package / compact Sub- Station (in compliance IEC 62271-202) shall be consisting of following :	Each	1.00
11	25 mm dia ISI marked, PVC conduit	mtrs	966.50

Sr. No.	Item Description	Unit	Total InstalledQuantity
12	32 mm dia ISI marked, PVC conduit	mtrs	722.70
13	3.5Cx150 Sq.mm cable (With outer sheath of extruded HDPE material and insulation screen having additional feature of water sweellable tape for water ingress protection.)	Meter	860.00
14	Supply, Installation, Testing and Commissioning of decorative pole with total height of 4 to 5 Mtrs .Single/Double Arm as per direction given by Engineer-In-Charge.	Each	40.00
15	Landscape decorative post LED fixtures of heritage appearance with with colour temperature as per site requirement of following maximum wattages.	Each	**80.00**
16	Linear monochrome type LED fixtures with with beam angle and colour temperature as per site requirement of following maximum wattages:60 to 80 W	Each	**225.00**
17	Architechtural monochrome type flood light LED fixtures with with beam angle and colour temperature as per site requirement of following maximum wattages. 90 to 110W	Each	**125.00**

Sr. No.	Item Description	Unit	Total InstalledQuantity
18	Flexible LED strip light IP 67, monochrone with colour temperature as per site requirement complete with driver of following wattages:10 - 15 watt per meter	Each	**250.00**
19	Supply, Installation, Testing and Commissioning of termination of Al. conductor, armoured, XLPE insulated, PVC sheathed, 1.1KV cable with double compression chrome plated brass cable gland and heavy duty tubular lugs of following size:3.5Cx150 Sq.mm cable	Each	**10.00**
20	Supply, installation, testing and commissioning of indoor termination of 11KV cable with heat shrinkable termination kit complete with lugs and other accessories for 3Cx 300 Al conductor armoured, XLPE insulated cable.	Each	3.00
21	Supply of XLPE Insulated power cable (conforming IS- 7098) 1100 Volt grade/Heavy duty power cable conforming to IS 1554-1100 Volts grade , 2 core /3½ core/4 coreISI MARKED with Alu. Stranded /solid conductor	Mtr	
22	ARMOURED 4 CORE		
23	10 Sq.mm.(XLPE)		604.00
24	ARMOURED 4 CORE		
25	25 Sq.mm.(XLPE)		403.00
26	ARMOURED 3.5 CORE		
27	35 Sq.mm.(XLPE)		175.00
28	Supplying and drawing single core PVC insulated cable FR with copper multi strand conductor ISI marked in existing rigid conduit in surface or concealed as per specification.		
29	2.5 Sq mm cable		
30	3 X 2.5 sq mm	Mtr	2940.00

Sr. No.	Item Description	Unit	Total InstalledQuantity
31	LUGS:-		
32	Supplying and fixing cramping type Alum. lugs as per I.S.S. Specification suitable for following size of cable with Alu /Copper solid/stranded conductor evently cramped with high/pressure tool and connected to switch gear/Bus/M.C.C.B./ M.C.B. etc. as required complete.For		
33	Conductor Size-		
34	6mm to 16 Sq.mm	Each	320.00
35	Supplying & fixing pin terminal lugs as per ISS specification suitable for cable evently cramped with high pressure tool & connection to switch gear terminal.		
36	Copper Lugs Pin Type		
37	a. Upto 16 Sq.mm Conductor Size	Each	240.00
38	CABLE LAYING		
39	Laying of one number PVC insulated and PVC sheathed power cable of 1:1 kV grade of size not exceeding 25 Sq.mm in the existing RCC Hume/Stone/Ware/G.I. pipe as required.	Mtr	860.00
40	SINGLE POLE (SP)		
41	6 Amp to 32 Amp Rating	Each	40.00
42	Supplying and fixing flood light with high power LED of 1 to 3 W each assembled on single MCPCB, system lumens output with efficacy>90 lm/W. luminiare having color temp 6500K & 50000 burning hrs life with minimum @ L 70, The colour rendering index of LED light should be more than 70. Luminiare comprises of driver, PF 0.95 & surge protection 3KV. Housing made of pressure die cast aluminium with heat resistant flat glass, IP65 protection. Submission LM 80-08 Form LED Source Manufacturer & LM79-08 / IS16106 from NABL approved lab. Manufacturer manadatory i/c connection lead, testing etc to complete the job. 2 Yrs Guarantee certificate from manufacturer		
43	150W	Each	6.00
44	Supplying and Fixing of approved make modular type metal box with modular frame/ base plate and cover plate including fixing in concealed /surface excluding switch socket etc. as required for:		
45	12 Module	Each	6.00

Sr. No.	Item Description	Unit	Total InstalledQuantity
46	WIRING IN CONCEALED RIGID PVC CONDUIT (HEAVY DUTY) SYSTEM WITH MODULER ACCESSORIES		
47	Point wiring including metallic switch box, sheet, switche, socket, lamp holders/ceiling roses etc with 1.5 Sq. mm. PVC insulated cable FR with copper multi strand conductor ISI marked in concealed rigid P.V.C. conduit (HMS) ISI Marked of suitable size and 1.5 Sq. mm. PVC insulated copper earth continuity conductor of green colour inside conduit including painting etc. as required as per specification for :-		
48	Light Point/Fan Points.		
49	a) Short point	Each	6.00
50	b) Medium point	Each	6.00
51	Supplying and Drawing single core PVC insulated cable FR with copper multi strand conductor ISI marked in existing rigid conduit in surface or concealed as per specification		
52	1.5 Sqmm		
53	3X1.5 Sqmm	Meter	0.00
54	Supply and fixing of recessed mounting type Led light fixture, LED of 1 to 3 W each assembled on single MCPCB, having color temp 6500K & having 50000 burning hrs life with minimum @ L 70, system lumen output should be minimum with efficacy>80lm/W. LED driver, PF 0.95 & THD < 20%. The colour rendering index of LED light should be more than 70. Housing made of CRCA with glare free diffused polycarbonate cover. Submission LM 80-08 Form LED Source Manufacturer & LM79-08 / IS16106 from NABL approved lab. Manufacturer manadatory i/c connection wire, testing etc. to complete the job. 2 Yrs Guarantee certificate from manufacturer.		
55	Led luminiare 2' X 2', 36W, 4-6.5K	Each	12.00

Sr. No.	Item Description	Unit	Total InstalledQuantity
56	Supply, installation, testing and commissioning of outdoor weather proof type street lighting control feeder panel for smart controls, made from 14/16 SWG MS galvanised powder coated sheet or SMC material complete with mounting stand / clamps. The feeder pillar should provide following functionalities related to remote switching and monitoring of individual LED street lights: i) Should be capable of controlling of upto 15 KVA street lighting load distributed in three or single phase. The wattage of each street light will be 40 to 150 watts. ii) It should be complete with all required switching and protecting devices, contactors, timers, relays, sensors, controller, Gateway, remote wireless communication devices, wiring, pipe earthing, surge protection device, required software, web server, hosting, etc. iii) The feeder pillar should perform at least following	Each	3.00
57	Supply, Installation, Testing and Commissioning11kV, 500 KVA, Outdoor Package / compact Sub- Station (in compliance IEC 62271-202) shall beconsisting of following :as per tender	Each	1

Annexure L-1

NAME OF WORK	"Investigation, survey, detailed design and execution of retrofitting & reconstruction of roads consisting of up- gradation, augmentation, retrofitting of existing water supply, house connection of drinking water supply, underground storm water drains & retrofitting of existing open storm water surface drains, construction of footpath, utility ducts, underground electrification with allied infrastructure, road markings, traffic signage in ABD area under Ujjain Smart City Project" Package-3A" # R-22#,R-25 Road		
Sr. No.	Description	Unit	Qty.
1	3	4	5
1	Providing and Laying non-pressure (NP4) RCC socket & spigot pipes with rubber gasket jointi ncluding testing of joints. [Conforming to IS ;458-1988, ISI marked laying as per IS 783:1985)		
	600mm dia		
		Meter	269.70
	700mm dia		
		Meter	225.70
	800mm dia		
		Meter	215.40
	1000mm dia		
		Meter	32.60
	1100mm dia		
		Meter	57.90
	1200mm dia		
		Meter	76.40
	1400mm dia		
		Meter	148.70
	1600mm dia		
		Meter	82.20
	1800mm dia		
		Meter	580.30
2	Supplying and filling in plinth under floors including, watering, ramming consolidating and dressing complete.		
	Moorum/Hard copra		
		cum	1350.78

Sr. No.	Description	Unit	Qty.
3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering. All work up to plinth level.		
	Cement concrete grade M-10 (Nominal Mix) with 20 mm maximum size of stone aggregate		
		cum	1308.72
4	Reinforcement for R.C.C. work including straightening cutting bending placing in position and binding including cost of binding wire upto floor two level including all wastage etc. complete.		
	Thermo-Mechanically Treated bars.		
		Kg.	428366.84
5	Centering and shuttering including strutting propping etc.and removal of form for :		
a	Foundations footings bases of columns etc. For mass concrete.		
		Sqmt	2252.67
b	Wall (any thickness including attached pillars, butteress, plinth and string coursees etc.)		
		Sqmt	10484.68
c	Suspended floors, roofs, landings, balconies and access platform.		
		Sqmt	1683.80
d	Lintels, beams, plinth beams, girders, bressumers and cantilevers.		
		Sqmt	1166.03
e	Columns, Pillars, Piers, Abutments, Posts and Struts.		
		Sqmt	644.79

Sr. No.	Description	Unit	Qty.
6	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement. including Admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. M-25 grade reinforced cement concrete by using 410 kg. of cement per cum of concrete. All work up to floor 2 level.		
	Qty. Wide MB No 335 P No. 73	Cum	3794.14
7	Providing, laying, Jointing & field testing of High Density Polyethylene pipes, (HDPE) confirming to IS 4984/ 14151/ 12786/ 13488 with necessary jointing material like mechanical connector or jointing pipes by heating to the ends of pipes with the help of Teflon coated electric mirror/ heater to the required temperature and then pressing the ends together against each other, to form a monolithic & leak proof joint by thermosetting process. It may be required to be done with Jacks/Hydraulic Jacks/ But fusion 8kg/sqcm		
	400 mm dia		
		Rm	802.00
8	Providing, laying and jointing socket & spigot centrifugally cast (Spun) Ductile Iron pressure pipes with inside cement mortar lining (class K-9) conforming to IS 8329/2000 with suitable Rubber Gasket (Push on) joints as per IS:5382/85 including testing of joint (laying conforming to IS 12288 : 1987)		
	400mm diameter		
		Rm	0.00

Sr. No.	Description	Unit	Qty.
9	Construction of Embankment/Sub grade/ earth shoulders, as per clause 305.1.1 inclusive of operation necessary as per clause 305 & its sub-clauses, Where required but with approved materials obtained from excavation for road construction (vide clause 301.3.11) i/c consolidating the original ground by rolling as directed by the Engineer-in-charge but with a maximum of 6 passes of 8-10 tonne roller & i/c compaction and maintenance of surface during construction to ensure shedding & preventing ponding of water (clause 305.3.7), finishing i/c all lifts but excluding scarifying existing granular/bituminous road surface vide clause 305.6.		
		cum	965.81
10	Crusher Run Macadam Base (Providing crushed stone aggregate, depositing on a prepared surface by hauling vehicles, spreading and mixing with a motor grader, watering and compacting with a vibratory roller to clause 410 to form a layer of sub-base/Base)		
	By Mixing Plant :		
	For 53 mm maximum size		
		cum	1287.87
11	Construction of dry lean cement concrete Sub-base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table of MORTH Specifications 600-1, cement content not to be less than 200 kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with paver with electronic sensor/mechanical paver, compacting with 8-10 tonnes vibratory roller, finishing and curing and as per relevant clauses of section-603.		
		cum	1287.52

Sr. No.	Description	Unit	Qty.
12	Construction of Embankment/Sub grade/ earth shoulders, as per clause 305 & its sub-clauses, Where required but with approved materials/soil like morrum CBR value not less then 7% i/c all lead & lifts i/c excavation, cost of watering, compaction and maintenance of surface during construction to ensure shedding & preventing ponding of water (clause 305.3.6) shaping & dressing (clause 305.3.7), finishing etc. complete but excluding scarifying existing granular/bituminous road surface vide clause 305.6.		
		cum	7414.87
13	Construction of granular sub-base by providing coarse graded material, spreading in uniform layers with on prepared surface, mixing by mix in place method at OMC, and compacting with vibratory roller to achieve the desired density, complete in all respect and as per relevant clauses of section-400. for grading-III Material		
		cum	1174.99
14	Construction of dowel jointed, plain cement concrete pavement in M-40 grade concrete over a prepared sub base with 43 or higher grade cement, maximum size of coarse aggregate not exceeding 25 mm, mixed in a batching and mixing plant as per approved mix design, transported to site, laid with a fixed form or slip form paver with electronic sensor, spread, compacted and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealant, debonding strip, placing of dowel bar and tie rod, admixtures as approved, curing compound, finishing to lines and grades as per approved drawings as per IRC-15 2002 and as per relevant clauses of section-602 of of MORTH specifications complete but excluding cost of steel in dowel bar & tie rod etc..		4312.80
		cum	2145.89
15	Add extra in Item No.- 6.3 & 6.5 above for the cost of steel in dowel bar and tie rod etc. required as per design.		
	Mild Steel dowel bars		
		mt	26.54

Sr. No.	Description	Unit	Qty.
16	Tor steel tie rod		
		mt	1.16
17	Flooring with Cobble stone of approx. Size 125x125x75 mm (thick) laid on 25 mm average thick cement mortar 1:3 (1 cement : 3 Coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the stone, laid in approved pattern complete in all respect as per direction of Engineer - in-charge		
		Sqm	6156.17
18	Construction of dowel jointed, plain cement concrete pavement in M-30 grade concrete over a prepared sub base with 43 grade cement maximum size of coarse aggregate not exceeding 25 mm, mixed in a batching and mixing plant as per approved mix design, transported to site, laid with a fixed form or slip form paver with spreading the concrete by shovels, rakes compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealant, debonding strip, placing of dowel bar,tie rod admixtures as approved, curing compound, finishing to lines and grades as per approved drawings as per IRC-15 2002 and as per relevant clauses of section-602 of specifications complete but excluding cost fo steel in dowel ber & tie rod etc.		
		cum	371.49
19	I.S.I. marked UPVC casing pipe confirming to IS 4985/1988 (Volume I Item No. 17.26.4 UADD SOR 2012)		
	Screen pipes with ribs 200mm dia		
		Meter	762.95
20	Boring, Providing and installing cast in situ single under reamed piles of specified diameter and length below pile cap in M35 cement concrete, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and the length of the pile to be embedded in pile cap etc. all complete. (Length of pile for payment shall be measured upto to the bottom of pile cap) :		

Sr. No.	Description	Unit	Qty.
	300 mm dia piles		
		meter	0.00
21	Brick work with chimeny brick of class designation 40 in superstructure above plinth level upto floor 2 level including the cost of scaffolding in :		
	Cement mortar 1:6 (1 cement : 6 coarse sand)		
		cum	136.77
22	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement: 5 coarse sand) finished with a top layer 6mm thick cement plaster 1:6 (1 cement: 6 fine sand).		
		sqmt	0.00
23	Road Gully Chambers :- Construction of Brick masonry road gully chambers with brick work in cement mortar 1:5 (1 cement: 5 fine sand) and 12mm plaster 1:3 including foundation in cement concrete grade M-5 (Nominal Mix) with stone aggregate 40mm nominal size		
	Chamber 50x 45 x 60 cm with 500x450 mm horizontal with frame.		
		Each	35.00
24	Providing and laying at or near ground level factory made kerb stone of M 25 grade cement in position to the required line, level and curvature jointed with cement mortar 1:3 (1 cement: 3 coarse sand) including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm) including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).		
		CUM	19.90
25	6 mm cement plaster of mix:		
	1:3 (1 cement : 3 fine sand)		
		SQM	2377.38

Sr. No.	Description	Unit	Qty.
26	Providing and laying polished vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption's less than 0.08% and conforming to IS : 15622 of approved make in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc., complete.		
	Size of Tile 60x60 cm x 10 mm		
		SQM	129.27
27	Providing and fixing 16mm thick gang saw cut mirror polished premoulded and prepolished) machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edge to give high gloss finish etc. complete at all levels.		
	Granite of any colour and shade		
	Area of slab over 0.50 sqm.		
		SQM	192.99
28	Providing and laying flamed finish Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing , curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge : a) Flamed finish granite stone slab Jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent.		
		SQM	109.71

Sr. No.	Description	Unit	Qty.
29	Manufacturing and supply of specials made out of M.S. steel plate or HR coil conforming to IS 3589- 2001 or its latest revision/amendment, 5mm to 6mm thick plate in shapes and sizes required as per site conditions including cost of steel plate & other electrical & mechanical material, including Submerged Arc welded, including cost of transportation, loading and unloading complete approved by Engineer-in-Charge. (This is applicable only when standard special are not available).		
		Kg	6197.01
30	Labour for laying in position socket & spigot Ductile Iron (k-9) pressure pipes. [Conform to IS 12288:1987]		
	350 mm dia.		
		RM	180.00
	400 mm dia.		
		RM	493.00
31	Jointing DI pipes class k-7 and k-9 including testing of joints and cost of jointing materials (rubber ISI marked Gasket (push on) joint as per IS-5382/85 and soap solution etc.)		
	350 mm dia.		
		Each	30.00
	400 mm dia.		
		Each	82.00
32	Carriage of Material by Mechanical transport including loading unloading & stacking etc		
	R.C.C., Pipes, Steel Pipes, ACP pipes, CI & DI Pipes		
	350 mm dia.@ 5KM Distance		
		Per Tonne	0.43
	400 mm dia.		
		Per Tonne	3.50
33	Providing, laying and jointing socket & spigot centrifugally cast (Spun) Ductile Iron pressure pipes with inside cement mortar lining (class K-9) conforming to IS 8329/2000 with suitable Rubber Gasket (Push on) joints as per IS:5382/85 including testing of joint (laying conforming to IS 12288 : 1987)		
	350 mm diameter		

Sr. No.	Description	Unit	Qty.
		RM	110.00
34	Providing & fixing of Cast iron double flanged sluice valves as per I.S.:14846-2000 fitted with cast iron cap including jointing & testing with cost of jointing material such as bolts, nuts, rubber insertions etc. all complete		
	400 mm dia		
		Nos	5.00
	250 mm dia		
		Nos	1.00
	100mm dia		
		Nos	1.00
35	Providing & laying Ductile iron Mechanical joint collar with follower glands conforming to IS-9523/2000 having dimension as per table 24 of IS 9523/2000 in the nominal diameter/sizes with external bitumen coating and internal cement mortar lining. (laying conforming to IS 12288 : 1987)		
	400 mm dia		
		Nos	18.00
	350 mm dia		
		Nos	6.00
	250 mm dia		
	Qty. Wide MB No 335 P No. 93	Nos	1.00
	100mm dia		
		Nos	1.00
36	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing and staircase railing including applying a priming coat of approved steel primer.		
	M.S. tube.		
		kg	18698.58

Sr. No.	Description	Unit	Qty.
37	Providing, laying, Jointing & field testing of High Density Polyethylene pipes, (HDPE) confirming to IS 4984/ 14151/ 12786/ 13488 with necessary jointing material like mechanical connector or jointing pipes by heating to the ends of pipes with the help of Teflon coated electric mirror/ heater to the required temperature and then pressing the ends together against each other, to form a monolithic & leak proof joint by thermosetting process. It may be required to be done with Jacks/Hydraulic Jacks/ But fusion 8kg/sqcm		
	160mm dia		
		Rmt	51.75
38	Providing and laying below ground unplasticised PVC pipe to with stand working pressure of 4 kg/cm2 soild waste pipes confirming to IS:13592 and IS:4985 including jointing with seal ring confirming to IS:5282 leaving 10mm gap for thermal expansion all necessary fittings etc. complete.		
A	110 mm diameter OD		
		meter	108.78
B	160 mm diameter OD		
		meter	43.95
39	Providing and laying autoclaved aerated cement blocks masonry with 100mm thick AAC blocks in super structure above plinth level up to floor II level in cement mortar 1:4 (1 cement : 4 coarse sand) The rate includes providing and placing in position 2 Nos. 6 mm dia M.S. bars at every third course of masonry work.		
		Cum	185.34
40	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work including cutting chases and making good the walls etc.		

Sr. No.	Description	Unit	Qty.
	20 mm nominal outer dia .Pipes.		
		Meter	67.05
	25 mm nominal outer dia .Pipes.		
		Meter	39.06
	32 mm nominal outer dia .Pipes.		
		Meter	76.22
41	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations: (a) Applying a slurry coat of neat cement using 2.75 kg/sqm. of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300mm height including cleaning the surface before treatment. (b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer -in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs (c) After two days of proper curing applying a second coat of cement slurry using 2.75kg/sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge. (d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer -in- charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry		
	Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture.		
		Sqm	174.57

Sr. No.	Description	Unit	Qty.
42	Designing, Providing, Supplying & Installing GFRC at site as per drawing and site requirements/measurements made up of white cement, silica sand or glass fibre (Zirconium >16%), plasticizers & polymers as per approved finish, with sealers & hardware's required, all in accordance with the manufacture's specification and conforming to Indian standards, along with submission of the shop drawing for approval, complete in all respect with all leads and lifts. The minimum surface mass of GFRC shall be 20 kg/m2		
	Column - Base, Capital Shaft		
		Sqm	92.70
	Finials/ Brackets		
		Nos	40.00
	Domes/Shikhars		
		Sqm	231.12
43	Supplying and stacking of good earth at site including royalty and carriage up to 1 km (earth measured in stacks will be reduced by 20% for payment).		
		Cum	328.70
44	Supplying and stacking sludge at site including royalty and carriage up to 1 km (sludge measured in stacks will be reduced by 8% for payment).		
		Cum	105.98
45	Mixing earth and sludge or manure in proportion specified or directed.		
		Cum	434.69
46	Filling mixture of earth and sludge or manure in the desired proportion in trenches, flooding with water and leveling (cost of supplying earth and sludge or manure and mixing excluded).		
		Cum	433.65

Sr. No.	Description	Unit	Qty.
47	Providing and laying Neelgiri/Mexican grass turf with earth 50mm to 60mm thickness of existing ground prepared with proper level and ramming with tools wooden (Dhurmos) and than rolling the surface with light roller make the surface smoothen and light waterning with sprinkler and maintenance for 30 days or more till the grass establish properly, as per direction of officer-in-charge.		
		Sqm	114.69
48	12 mm cement plaster finished with a floating coat of neat cement of mix :		
	1:3 (1 cement: 3 fine sand)		
		sqm	1756.25
49	Add or deduct for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.		
		Meter	1019.14
50	Steel work welded in built up sections/ framed work includingcutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.		
	In gratings, frames, guard bar, ladder, railings, brackets, gatesand similar works.		
		Kg	4882.49
51	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50mm including strengthening with 4mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge.		
		Sqm	531.24
52	Finishing walls with Acrylic Smooth exterior paint of required shade.		
	New work (Two or more coat applied @ 1.67 ltr/ 10 sqm over and including base coat of water proofing cement paint applied @ 2.20kg/10 sqm)		
		Sqm	1526.00

Sr. No.	Description	Unit	Qty.
53	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plane and brass threaded fitting i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall.		
	40 mm nominal outer dia .Pipes.		
		Meter	32.76
54	Providing and placing on at all floor levels high design HDPE (polyethylene) water storage tank ISI : 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.		
		Ltr	8000.00
55	Providing and laying Ceramic glazed floor tiles 300x300 mm (9 to 10 mm thick) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick Cement Mortar 1:4 (1 Cement : 4 Coarse sand) including pointing the joints with white cement and matching pigment etc., complete.		
		Sqm	111.41
56	Providing and fixing Ist quality ceramic glazed wall tiles conforming to IS : 15622 (6 to 7mm thick) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete.		
		Sqm	318.47

Sr. No.	Description	Unit	Qty.
57	Providing and fixing stone slab table rubbed, edges rounded and polished of size 75x50 cm deep and 1.8 cm thick fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) as per direction of Engineer-in- charge and finished smooth.		
	Granite Stone of approved shade.		
		Sqm	9.74
58	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps,32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require :		
	White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap.		
		Each	16.00
59	Providing and fixing stainless steel English (Capital) and Hindi letters in standard pattern bellow type made with 1.20 mm thick stainless steel (ASI Grade-304) Jindal or equivalent. Depth of letter shall not be less than 30mm and rate includes welding/soldering of joints polishing, buffing and fixing on the wall beam surface at any height with necessary nut and bolts/fasterner wherever is required complete as per direction of Engineer-in-charge.		
		Per letter per cm hight	626.00
60	Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters using following hinges.		
	35mm thick including ISI marked stainless steel butt hinges with necessary screws.		
		Sqm	30.87
61	Providing and fixing ISI marked stainless steel handles with necessary screws etc. complete :		
	125 mm		
		EACH	38.00

Sr. No.	Description	Unit	Qty.
62	Providing and fixing aluminium handing floor stopper ISI marked anodised (anodic coating not less than grade Ac 10 as per IS: 1868) transparent or dyed to required colour or shade with necessary screws etc. complete:		
	Single rubber stopper		
		EACH	19.00
63	Providing and fixing ISI marked stainless steel sliding door bolts with nuts and screws etc. complete :		
	300x16mm		
		EACH	38.00
64	Providing and fixing ISI marked stainless steel tower bolt black finish, (Barrel type) with necessary screws etc. complete :		
	200x10mm		
		EACH	19.00
65	Labour rate for Item No. 11.46 to 11.46.2		
		Sqm	93.35
66	Providing and laying 60 mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine ith strong vibratory compaction and of approved size and design/shape laid in required colour and pattern over and including 50 mm thick compacted bed of course sand, filling the joints with coarse sand etc. all complete as per the direction of Engineer-in-charge.		
		Sqm	526.86
67	Rebaring of TMT bars by drilling hole & embedding bars of different diameter using epoxy grouting compound including all tools and tackles complete.		
	12 mm dia bar 16 mm dia hole		
		Per 100 mm	704.00
68	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:		
	Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture.		
		Sqm	729.77

Sr. No.	Description	Unit	Qty.
69	Providing and planting different variety of plants of approved quality and sizes as mentioned including making pits of required size at site, refilled with B.C. Soil mixture manuring and pesticide etc. complete (to be paid separately) including watering and 90 days maintenance from the date of final bill as per direction of Engineer-in-Charge complete in all respect (B.C. Mixture paid separately).		
	Bahunia Tomentosa, Beloperone Species, Caselpinnia Pulcherima, Bird of Paradise, Callandra Emarginata, Callandra Hybrida, Cassia Bi flora, Cassia Laevigata, Cestrum Nocturnum, Dombeya Mastersii, Euphorbia Caracasana, Euphorbia Pulcherima, Excorea bi color, Excorea tri color, Ficuas Blackii, Ficus Reginold, Ficus Panda, Gardenia, Gulphinia, Jasminoides, Hamelia Pattens, Heliconia, Hibiscus Rosasinensis, Hibiscus Verigated, Hibiscus Viceroy, Jatropha Multifida, Largestomia Indica, Malpighia Coccigera, Murraya Exotica, Murraya Koeniggi, Murraya Sambucum, Mussaenda Erythrophylla, Nerium Oleander, Nyctanthus Arbortristis, Plumbego Capensis, Putranjeeva Roxburghii, Tabernaemontana Coronaria, Tabernaemontana Divaricata, Tecoma Gaudi Chaudi, Tecoma Stans, Thevetia Nerifolia, Thuja Compacta and equivalent plants. (height 75-90cm)		
		Sqm	1052.92
70	Providing and stacking of Saraca indica (Sita Ashok) of height 105 -120 cm. in big poly bags of size 25 cm as per direction of the officer-in-charge.		
		Each	30.00
71	Providing and stacking of Euphorbia caracasana (bronze colour leaves) of height 90-105 cm., bushy in big size HDPE bag as per direction of the officer-in-charge.		
		Each	30.00
72	Providing and stacking of Bauhinia blakeana (Kachnar) of height 120 -150 cm. in big poly bags of size 25 cm as per direction of the officer-in-charge.		
		Each	30.00
73	Providing and stacking of Bassia latifolia (Mahua) of height 90-105 cm. in big polybag of size 25 cm as per direction of the officer-in-charge.		

Sr. No.	Description	Unit	Qty.
		Each	30.00
74	Providing and stacking of Delonix regia (Gulmohar) of height 150 -165 cm. in big poly bags of size 25 cm as per direction of the officer-in-charge.		
		Each	30.00
75	Stone tile work for wall lining upto 10 m height with special adhesive over 12mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) including pointing in white cement with an admixture of pigment to match the stone shade		
	8mm thick (mirror polished and machine cut edge)		
	Raj Nagar plain white marble/ Udaipur green marble/ Zebra black marble.		
		Sqm	13.01
76	Providing and fixing, in position concealed G.I. section for wall paneling using board of required thickness fixed on the 'W' profile (0.55mm thick) having a knurled web of 51.55mm and two flanges of 26mm each with lips of 10.55 mm placed @ 610mm C/C in perimeter channel having one flange of 20mm and another flange of 30mm with thickness of 0.55mm and web of length 27mm. Perimeter channel is fixed on the floor and the ceiling with the nylon sleeves @ 610mm C/C with fully threaded self- tapping drywall screws. Board is fixed to the 'W' profile with 25 mm countersunk ribbed head screws @ 200mm C/C., all complete as per the drawing & directions of engineer-in-charge the joints of the boards are finished with specially formulated jointing compound and 48mm wide jointing tape to provide seamless finish.		
	Non -asbestos multipurpose cement board reinforced with cellulose fibre manufactured through autoclaving process (high pressure steam cured) as per IS 14862 with suitable fibre cement screw.		
	8 mm thick		
		Sqm	55.63
77	Providing and fixing white vitreous china water closet squatting pan (Indian type)		
	Orissa pattern W.C. pan of size 580x440 mm		
		Each	6.00

Sr. No.	Description	Unit	Qty.
78	Providing and fixing white vitreous china pedestal type (European type/ wash down type) water closet pan.		
		Each	10.00
79	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350mm and 340x410x265mm sizes respectively.		
		Each	14.00
80	Providing and applying 1.5 mm thick (in two coat) white cement based wall putty of best quality, over plastered surface to prepare the surface even and smooth complete.		
		Sqm	168.83
81	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade:		
		Sqm	168.83
82	Constructing brick masonry moudlar brick class designation 40 manhole in cement mortar 1:4 (1 cement : 4 sand) R.C.C. top slab with Cement concrete grade M-20 (Nominal Mix with 20mm maximum size of stone aggregate), 20 cm thick foundation concrete grade M-7.5 (Nominal Mix with 40mm maximum size of stone aggregate) inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 sand) finished with floating coat of neat cement and making channels in cement concrete grade M-15 (Nominal Mix with 20mm maximum size of stone aggregate) as per standard design. The sizes of manhole and manhole covers as detailed below.		
	Manhole inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :		
		Each	2.00

Sr. No.	Description	Unit	Qty.
83	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS : 1285, fixed with rawl plugs and		
	For fixed portion.		
	Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)		
		Kg	61.28
84	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be p		
	With float glass panes of 5.50 mm thickness		
		Sqm	4.60
85	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931		
	15 mm nominal bore 0.40kg		
		Each	26.00
86	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.		
	15 mm nominal bore.		
		Each	28.00
87	Boring, Providing and installing cast in situ single under reamed piles of specified diameter and length below pile cap in M20 cement concrete, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and the length of the pile to be embedded in pile cap etc. all complete. (Length of pile for payment shall be measured upto to the bottom of pile cap) : 300 mm dia piles		
		Meter	246.00
88	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of require shape and approved quality.		
	Rectangular shape 600x450 mm internal dimensions		
		Each	38.00

Sr. No.	Description	Unit	Qty.
	Non Sor extra item		
89	T connection		
		Nos	3.00
90	M.S Special fitting as per site condation.		
		kg	6197.01

Annexure L-2

R-22 & 25 Electrical Asset List

Sr. No.	Item Description	Unit	Total Qty.
2	Supply, Installation, Testing and Commissioning of, 33KV(E), 3C x 300 Sq. mm. Al. conductor, armoured, XLPE insulated cable having outer sheath of extruded HDPE material and insulation screen having additional feature of water sweelable tape for water ingress protection. The cable will be laid in readymade underground trench / duct / pipe etc as per site requirement. The other cable specifications should conform to IS: 7098 Part -2, 2011 with up to date amendment. The item includes providing of necessary clampsand hardware for cable laying.	Mtr	2014.00
3	Supply, installation, testing and commissioning of indoor termination of 33KV cable with heat shrinkable termination kit complete with lugs and other accessories for 3Cx 300 Al conductor armoured, XLPE insulated cable.	Each	4.00
4	Supply, installation, testing and commissioning of outdoor termination of 33KV cable with heat shrinkable termination kit complete with lugs and other accessories for 3Cx 300 Al conductor armoured, XLPE insulated cable.	Each	4.00
5	Supply, installation, testing and commissioning of straight through joint of 33KV cable with heat shrinkable straight through termination kit complete with lugs and other accessories for 3Cx 300 Al conductor armoured, XLPE insulated cable.	Each	2.00
6	Supply, Installation, Testing and Commissioning of, 11KV(E), 3C x 300 Sq. mm. Al. conductor, armoured, XLPE insulated cable having outer sheath of extruded HDPE material and insulation screen having additional feature of water sweelable tape for water ingress protection. The cable will be laid in ready made underground trench / duct / pipe etc as per site requirement. The other cable specifications should conform to IS: 7098 Part -2, 2011 with up to date amendment. The item includes providing of necessary clamps and hardware for cable laying.	Mtr	4533.00
7	Supply, installation, testing and commissioning of indoor termination of 11KV cable with heat shrinkable termination kit complete with lugs and other accessories for 3Cx 300 Al conductor armoured, XLPE insulated cable.	Each	50.00
8	Supply, installation, testing and commissioning of Outdoor termination of 11KV cable with heat shrinkable termination kit complete with lugs and other accessories for 3Cx 300 Al conductor armoured, XLPE insulated cable.	Each	10.00
9	with 2 mtr. Pipe of 80 mm outer dia, 40 mm inner dia and 14 mm terminal dia, in soft rock/marshy soil with 25 kg (one bag) back filling compound	Each	37.00
10	Supplying and laying 50mm X 6mm G.I. strip at 0.5 metre below ground level / surface as strip earth electrode including jointing etc. as required.	Mtr	194.00
11	3.5Cx150 Sq.mm cable (With outer sheath of extruded HDPE material and insulation screen having additional feature of water sweellable tape for water ingress protection.)	Mtr	3702.00
12	4 Cx 10 Sq.mm cable	Mtr	1461.00
13	4 Cx 6 Sq.mm cable	Mtr	2478.00
14	Supply, Installation, Testing and Commissioning 11kV, 500 KVA, Outdoor Package / compact Sub- Station (in compliance IEC 62271-202) shall be consisting of following :	Each	2.00
15	Supply, Installation, Testing and Commissioning 11kV, 315 KVA, Outdoor Package / compact Sub- Station (in compliance IEC 62271- 202) shall beconsisting of following :	Each	1.00
16	Supply, installation, testing and commissioning of SF6 insulated 11KV , 630A, outdoor type, non extensible, non motorised Ring Main Unit having three nos. load break isolators suitable for termination of 11KV cable on each isolator.	Each	2.00
17	Supply, installation, testing and commissioning of SF6 insulated 11KV, 630A, outdoor type, non extensible, non motorised Ring Main Unit having four nos. load break isolators suitable for termination of 11KV cable on each isolator.	Each	3.00
18	TYPE -B :- Rating of incomer MCCB TPN 100A, 25 KA (Adjustable thermal O/L with Ics=100% Icu). Outgoings 32A 25KA SP MCCB 24Nos. & 25A 25KA SP MCCB 24Nos.	Each	6.00
19	Supplying and installing double wall corrugated pipes (DWC) of HDPE (IS 14930 Part-I marked) for cable laid underground with necessary connecting sockets / couplings, test below road / ground surface, including excavation, backfilling with excavated material with ramming and making the surface good.		
	63mm Dia	Mtr	6608.00
	110mm Dia	Mtr	1458.00

20	Dismantling of existing HT overhead powersystem lines complete with all associated items like poles, conductors, insulators, overhead cables, wires, stay , studs, MS structure, transformers, AB sw, DO fuse, LA, LT box, street lights, switching box etc and depositing the same in MPPKVVCL / UMC stores. (Note associated LT line will have to be dismantled under this item, no separate cost will be paid for this)	Km	3.00
21	Dismantling of existing LT overhead power system lines complete with all associated items like poles, conductors, insulators, overhead cables, wires, stay, studs, MS structure, LA, LT box, street lights, switching box etc and depositing the same in MPPKVVCL /UMC stores. (Note associated LT line will have to be dismantled under this item, no separate cost will be paid for this)	Km	3.00
22	Supply of decorative Pole -The Pole is made out of M.S. Grooved and plain round tubular Pipe sections having steps as shown in the attached drawing. The bottom section of the pole is of 108 mm diameter and middle section is 82 mm diameter and the top part is 76 mm diameter which is not . Both the sections are joined together by means of swaging and welded joints. A base plate of dimension 450 mm x450mmx 15 mm thick is joined with the pole at the bottom through welded joints. A cast iron pedestal of 1000 mm height is fitted on the pole at bottom by grub screw fixing. cast-iron embellishments are also fitted between two sections of grooved tubular sections as shown in attached drawing. A service window is provided in bottom section of pole to accommodate a 6 amp MCB & connector for mains connections . The Pole & the cast iron embellishments should be machined & polished properly to get the smooth finish. The pole should be duly pretreated by shot blasting process and painted in P.U. Paint in approved colour shade. The coating on the pole shall pass a minimum of 300 salt spray hours and should have minimum 90 microns DFT . The total height of the pole will be 3000 mm to 4500mm shall be approved by engineer in charge	Each	52.00
23	Supply, installation testing & commissioning of Decorative heritage appearance Hanging / post top LED type luminaire made out of Spun aluminium , the diffuser shall be of PMMA / clear poly carbonate . The decorative luminaire shall be of wattage 35 TO 40 LED, 100 Lum/watt min., with separate driver placed integrally in street light housing Driver should be of THD <10% and power factor above 0.95 .H igh power Led of above 1watt should be used of make Cree/Nichia/Lumiled/Osram/Seoul. Lenses should be used to give required optics. Ingress protection of optical chamber shall be IP-65 . The Luminaire body shall be painted with exterior grade of Poly- urethane /Polyester coating in required colour shade. The fixture should be complete with suitable bracket, mounting accessories. as approved by Engineer In charge	Each	104.00
25	Flexible LED strip light IP 67, monochrone with colour temperature as per site requirement complete with driver of following wattages:**10-15 watt per meter**	Mtr	300.00
26	Linear monochrome type LED fixtures with beam angle and color temperature as per site requirement of following maximum wattages: **60 to 80W**	Each	30.00
27	Providing and erecting 9mtrs. High hot galvanized octagonal poles with bottom of 155mm A/F, top 70mm A/F made from 3mm thick HT plate & 260x260x16mm base plate with 1500mm long decorative sword type double arm bracket complete erected in an approved manner on provided foundation. Suitable size & type of foundation bolts. 4 nos. bolts type M20x750mm 'J' type foundation bolts (EN8 grade)	Each	44.00
28	Designing & casting with M-20 cement concrete foundation suitable for 9 mtrs. Octagonal poles considering the safe soil bearing capacity at site as 10 T/sqm at 2 mtrs. Depth including excavation, foundation nut bolts in an approved manner.	Each	44.00
	Road No-25		
29	Supply, Installation, Testing and Commissioning of, 33KV(E), 3C x 300 Sq. mm. Al. conductor, armoured, XLPE insulated cable having outer sheath of extruded HDPE material and insulation screen having additional feature of water sweelable tape for water ingress protection. The cable will be laid in readymade underground trench / duct / pipe etc as per site requirement. The other cable specifications should conform to IS: 7098 Part -2, 2011 with up to date amendment. The item includes providing of necessary clampsand hardware for cable laying.	Mtr	578.00
30	Supply, installation, testing and commissioning of indoor termination of 33KV cable with heat shrinkable termination kit complete with lugs and other accessories for 3Cx 300 Al conductor armoured, XLPE insulated cable.	Each	2.00
31	Supply, installation, testing and commissioning of outdoor termination of 33KV cable with heat shrinkable termination kit complete with lugs and other accessories for 3Cx 300 Al conductor armoured, XLPE insulated cable.	Each	2.00

32	Supply, Installation, Testing and Commissioning of, 11KV(E), 3C x 300 Sq. mm. Al. conductor, armoured, XLPE insulated cable having outer sheath of extruded HDPE material and insulation screen having additional feature of water sweelable tape for water ingress protection. The cable will be laid in ready made underground trench / duct / pipe etc as per site requirement. The other cable specifications should conform to IS: 7098 Part -2, 2011 with up to date amendment. The item includes providing of necessary clamps and hardware for cable laying.	Mtr	1900.00
33	Supply, installation, testing and commissioning of indoor termination of 11KV cable with heat shrinkable termination kit complete with lugs and other accessories for 3Cx 300 Al conductor armoured, XLPE insulated cable.	Each	26.00
34	Supply, installation, testing and commissioning of outdoor termination of 11KV cable with heat shrinkable termination kit complete with lugs and other accessories for 3Cx 300 Al conductor armoured, XLPE insulated cable.	Each	6.00
35	3.5Cx300 Sq.mm cable (With outer sheath of extruded HDPE material and insulation screen having additional feature of water sweellable tape for water ingress protection.)	Mtr	478.00
36	3.5Cx150 Sq.mm cable (With outer sheath of extruded HDPE material and insulation screen having additional feature of water sweellable tape for water ingress protection.)	Mtr	251.00
37	with 2 mtr. Pipe of 80 mm outer dia, 40 mm inner dia and 14 mm terminal dia, in soft rock/marshy soil with 25 kg (one bag) back filling compound	Each	17.00
38	Supply, Installation, Testing and Commissioning 11kV, 315 KVA, Outdoor Package / compact Sub- Station (in compliance IEC 62271- 202) shall beconsisting of following :	Each	1.00
39	Supply, installation, testing and commissioning of SF6 insulated 11KV, 630A, outdoor type, non extensible, non motorised Ring Main Unit having four nos. load break isolators suitable for termination of 11KV cable on each isolator.	Each	2.00
40	TYPE -B :- Rating of incomer MCCB TPN 100A, 25 KA (Adjustable thermal O/L with Ics=100% Icu). Outgoings 32A 25KA SP MCCB 24Nos. & 25A 25KA SP MCCB 24Nos.	Each	2.00
42	4 Cx 10 Sq.mm cable	Mtr	789.00
43	4 Cx 6 Sq.mm cable	Mtr	785.00
44	33KV VCB Panel	Each	1.00
45	63 mm outside dia Dwc Pipe	Mtr	1478.00
46	110 mm outside dia Dwc Pipe	Mtr	280.00
47	Providing and erecting 9mtrs. High hot galvanized octagonal poles with bottom of 155mm A/F, top 70mm A/F made from 3mm thick HT plate & 260x260x16mm base plate with 1500mm long decorative sword type double arm bracket complete erected in an approved manner on provided foundation. Suitable size & type of foundation bolts. 4 nos. bolts type M20x750mm 'J' type foundation bolts (EN8 grade)	Each	40.00
48	Supply and fixing street light with high power LED of 3 to 6 Watt each on existing bracket assembled on single MCPCB and additional unique peanut lens on each LED, system lumens output with efficacy>120 lm/Watt. luminiare having color temp upto 6500K & 50000 hrs.burning life with minimum @ L 70, The colour rendering index of LED light should be more than 70. Luminiare comprises of driver, PF> 0.95 & surge protection 10KV. Housing made of pressure die cast aluminium with heat resistantflat glass, IP65 protection. 120Watt, color temp 3000-6500k as required.	Each	139.00

Annexure M-1

Ruda sagar project

Description	Unit	Qty.
Clearing & removal of water hyacinth (Jal Kumbi) including beads, thick and thorny jungle, drying and removing them outside the project area including all lead & lift to stack in available land, dry the same and burn as per instructions of Engineer – In Charge.	Sqm	
		18372.51
		175664.76
Total Qty.		**194037.27**
Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth upto 30 cm measured at a height of1 m above ground level and removal of rubbish upto a distance of 50 meter outside the periphery of the area cleared	100 Sqm	
		49.70
Total Qty.		**49.70**
Earth work in excavation for foundation, trenches for pipes / cables or drains etc. by mechanical means / manual means (exceeding 30cm in depth.) including ramming of bottom, dressing of sides, disposal of excavated earth including of all lift and lead upto 50m. Disposed earth to	Cum.	
		270476.31
		13.87
Total Qty.		**270490.18**
Extra rates for quantities of works, executed in difficult conditions: (The extra percentage rate is applicable in respect of each item but limited to quantities of work executed in these difficult conditions). UADD Vol II 2.15.1 In or under water and/or liquid mud, including pumping out water as required.(All water that may accumulate in excavations during the progress of the work from seepage, (not due to the negligence of the contractor), shall be bailed, pumped out or otherwise removed. The contractor shall take adequate measures for bailing and/or from excavations and/or pumping out water from excavations and construct diversion channels, bunds, sumps, etc) (20% extra of the rate of each item. The extra percentage in rate is applicable to quantities	cum	
Total Qty.		**0.00**

Description	Unit	Qty.
Supplying and filling in plinth under floors including, watering, ramming consolidating and dressing complete. Moorum/Hard copra	cum	
		1418.56
		77.72
Total Qty.	cum	**1496.28**
Brick work with chimeny brick of class designation 40 in superstructure above plinth level upto floor 2 level including the cost of scaffolding in :		
		120.07
		6.87
Total Qty.	cum	**126.94**
Half brick masonry with of class designation 40 insuper structure above plinth level up to floor 2 level including the cost of scaffolding. Cement mortar 1:3 (1 cement : 3 coarse sand)		
Cement mortar 1:4 (1 cement : 4 coarse sand)		
		42.69
Total Qty.	Sqm	**42.69**
Brick work with well burnt chimney bricks in bulls patenttren chki In ,crushing strength not less than 25kg/sqc m an water absorption not more than 20% in foundation and plinth		
		5.46
Total Qty.	Cum	**5.46**
12 mm cement plaster of mix : 1:4 (1 cement: 4 sand)		
		1381.24
		61.24
Total Qty.	Sqm	**1442.48**
6 mm cement plaster of mix : 1:4 (1 cement: 4 sand)		
		170.76
Total Qty.	Sqm	**170.76**
Extra for lining out plaster to imitate stone or concrete blocks walling	Sqm	
		113.62
Total Qty.		**113.62**

Description	Unit	Qty.
Filling by available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	cum	
		29087.40
Total Qty.		29087.40
Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering All work up to plinth level. Cement concrete grade M-10 (Nominal Mix) with 20 mm maximum size of stone aggregate	cum	
		440.59
		1.20
Total Qty.		441.79
Providing and laying in position machine batched and machine mixed and machine vibrated design mix cement concrete of M-25 grade mixed in a concrete mixer of not less than 0.2 cum capacity and approporiate weigh batcher using approved mix design, for reinforced cement concrete work including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement. including Admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. Upto Plinth level	cum	
		139.70
		9.98
Total Qty.		149.68
Above Plinth upto floor 2 level	cum	
		103.64
Total Qty.		103.64
Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding upto floor level including cost of binding wire, wastage and over laps upto 12mm horizontal/ inclined position of reinforcement bars in slab and beams, plinth, chajjas, lintels, upto 4.5m vertical length of reinforcement in wall columns (over laps shall be provided as per requirement of IS : 13920: IS 456 &	kg	
		20864.66
		923.11
Total Qty.		21787.77

Description	Unit	Qty.
Excavation for driven and exit pit as per site requirement for pushing/ pulling of HDPE/DWC / PVC-O pipe in trenchless technology, with proper protection at sides with shoring sheets/ wooden planks and ISMB's, maintaining, back filling, necessary dewatering.In all type of soil , Moorum: More than 3.0m and upto 4.50m	No.	
		1.00
Total Qty.		1.00
Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete:	Kg	
		1040.00
Total Qty.		1040.00
Joining of two lakes by Push Tinneling including the laying of 1200mm Dia NP4 pipe.	Rm	
		82.50
Total Qty.		82.50
Centering and shuttering including strutting, propping stretching etc. complete for and removal of form work by sheet plate or ply wood shuttering for :	Sqm	
Foundations, footings, bases of columns, etc. For mass concrete.		
		146.56
		6.16
Total Qty.	Sqm	152.72
Wall Shuttering		
		931.17
		24.54
Total Qty.	Sqm	955.71
Lintels, beams, plinth beams, girders, bressumers and cantilevers.		
		615.51
		23.52
Total Qty.	Sqm	639.03
Columns, Pillars, Piers, Abutments, Posts and Struts.		
		109.12
		22.80
Total Qty.	Sqm	131.92

Description	Unit	Qty.
Suspended floors, roofs, landings, balconies and access platform.		
		203.11
		17.64
Total Qty.	Sqm	220.75
Demolishing cement concrete manually/by mechanical means including disposal of material within 50 meters lead as per direction of Engineer-in-charge 1:3:6 or richer mix	cum	
		17.61
Total Qty.		17.61
Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 meters lead as per direction of Engineer-in-charge.	cum	
		891.70
Total Qty.		891.70
Demolishing brick work manually/by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 meters lead as per direction of Engineer-in- In Cement Mortar	cum	
		239.81
Total Qty.		239.81
Providing and laying gabion structures for erosion control, river training works and protection works with wire crates of size 2 m x 1 m x 0.3 m each divided into 1m compartments by cross netting, made from 4 mm galvanised steel wire @ 32 kg per 10 sqm having minimum tensile strength of 300 Mpa conforming to IS:280 and galvanizing coating	cum	
		1983.25
Total Qty.		1983.25
Providing and Laying of a geotextile filter between pitching and embankment slopes on which pitching to be laid to prevent escape of the embankment material through the voids of the stone pitching/cement concrete blocks as well as to allow free movement of water without	Sqm	
		1094.35
Total Qty.		1094.35

Description	Unit	Qty.
Transportation By Mechanical means including loading, unloading and stacking where ever necessary	cum	
Excavated earth		
1 km or Part thereof		
	cum	924.94
Total Qty.		924.94
2 km or Part thereof		
	cum	33794.28
Total Qty.		33794.28
3 km or Part thereof		
	cum	5461.90
Total Qty.		5461.90
4 km or Part thereof		
		96495.94
Total Qty.	cum	96495.94
5 km or Part thereof		
	cum	77999.01
Total Qty.		77999.01
	cum	25882.64
Total Qty.		25882.64
Excavation for roadwork in soil with hydraulic excavator including cutting and loading in tippers, trimming bottom and side slopes, inaccordance with requirements of lines, grades and cross sections, and transporting to the embankment location with all lifts and lead upto 1000m as per relevent clauses of section-300 of specification.	cum	
		2292.12
Total Qty.		2292.12
Kotastone 25mm thick flooring over 20mm (average thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of+B134theslabincludingrubbingandpolishingcompletewith baseof1:4cementmortar(1cement:4coursesand)(minimumsize	Sqm	
		87.35
Total Qty.		87.35
	cum	

Description	Unit	Qty.
40 mm thick machine rubbed stone flooring over 20 mm (average) thick base of cement mortar 1:5 (1 cement :5 coarse sand) with joints 3mm thick, side buttered with cement mortar 1:2 (1 cement : 2 sand) admixed with pigment to match the shade of stone and pointing with same mortar	Sqm	
Red Sand Stone		
		62.61
Total Qty.		62.61
Construction of Embankment/Sub grade/ earth shoulders, as per clause 305 & its sub-clauses, Where required but with approved materials/soil like morrum CBR value not less then 7% i/c all lead & lifts i/c excavation, cost of watering, compaction by	cum	
		3274.96
Total Qty.		3274.96
Crusher Run Macadam - Providing & laying crushed stone aggregate, on a prepared surface , spreading and mixing with a motor grader, watering and compacting with a vibratory roller as per clause 407 of the specifications.	cum	
		232.58
Total Qty.		232.58
Construction of Dry lean cement concrete Sub-base over a prepared sub grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 26.5mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per MORTH Specifications Table 600-1, cement content not to be less than 150 kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with paver with electronic sensor/mechanical paver, compacting with 8-10 tonnes vibratory roller, finishing and curing and as per	cum	
		32.45
Total Qty.		32.45
Construction of dowel jointed, plain cement concrete pavement in M-40 grade concrete over a prepared sub base with 43 or higher grade cement, coarse and fine agreegate conforming to IS:383 maximum size of coarse aggregate not exceeding 25 mm, mixed in a batching and mixing plant as per approved mix design, transported to site, laid with a fixed form or slip form paver with electronic sensor, spread, compacted and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, sealant	cum	
		123.62

Description	Unit	Qty.
Total Qty.		123.62
Add extra in Item No.- 6.2 & 6.3 above for the cost of steel in dowel bar and tie bar etc. required as per design	MT	
		0.02
Total Qty.		0.02
Providing and laying Pitching on slopes laid over prepared filter media including boulder apron laid dry in front of toe of embankment complete as per drawing and Technical specifications and as per relevant clauses of section 2500. Stone/Boulder (min. wt. - 40 Kg)	cum	
		284.83
		73.98
Total Qty.		358.81
Supplying and installing Double wall corrugated pipes (DWC) of HDPE (IS 14930 Part II -marked) for cable laid under ground with necessary connecting sockets/ couplings,tees of same material and at required depth upto 90cm. below road/ground surface,including excavation, back filling with excavated material with ramming and making the surface good.	Meter	
50.00mm outside dia.		
		285.20
Total Qty.		285.20
110.00mm outside dia.		
		101.00
Total Qty.	Meter	101.00
Pumping out water couses by springs, tides or river seepage, broken water Main or drain or well or the like	KL	
		165016.00
Total Qty.		165016.00
Providing and laying 80mm thick factory made cement concrete inter locking paver block of M-40 grade made by block making machine with strong vibratory compaction and of approved size and	Sqm	
		508.80
Total Qty.	Sqm	508.80

Description	Unit	Qty.
Painting Steel work with Deluxe Multi Surface Paintto give an even shade. Two or more coat applied @0.90ltr/10sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand or manufacture	Sqm	
		588.46
		41.28
Total Qty.	**Sqm**	**629.74**
Cleaning & Repairing of Existing Hume Pipes Connecting 2 Lake.	RM	
		132.00
Total Qty.		**132.00**
Cleaning of Silt, sludge brick bats, polythene bags, garbage etc. from chocked sewer manholes / sewer drains & Nallahs/ wet well of SPH/ Anaerobic & Facultative Pond of		
		1407.40
Total Qty.		**1407.40**
Extra rate for depth 1.5 m to 3m or part		
		1407.40
Total Qty.		**1407.40**
Extra rate for depth 3m to 4.5 m or part		
		1407.40
Total Qty.		**1407.40**
Transportation By Mechanical means including loading, unloading and stacking where ever necessary Manure or sludge- 6 km		
		1407.40
Total Qty.		**1407.40**
Planting permanent hedges including digging of trenches, 60 cm wide and 45 cm deep, refilling the excavated earth mixed with compost/manure, (compost/manure will be paid separately) and supplying and planting hedge plants (lemon, doranta, Red ive, clerodendron, pedilanthus etc at 30 cm	Meter	
		2426.00
Total Qty.		**2426.00**
Supplying, stacking and spreading of good earth for plantation at site including royalty and carriage (earth measured in stacks will be reduced by 20% for payment.	Cum	
		2471.49
Total Qty.		**2471.49**

Description	Unit	Qty.
Supplying, stacking and spreading compost/manure from approved source, (manure measured in stacks will be reduced by 8% for payment)	Cum	
		229.14
Total Qty.		**229.14**
Providing and stacking of Ficus religiosa (Peepal) of height 150-165 cm. in big poly bags of size 30 cm as per direction of the officer-in-charge.		
		2.00
Total Qty.	No.	**2.00**
Providing and stacking of Bassia latifolia (Mahua) of height 90-105 cm. in big polybag of size 25 cm as per direction of the officer-in-charge.		
		2.00
Total Qty.	No.	**2.00**
Providing and stacking of Eugenia jambolana (Jamun) of height 150-165cm. in big poly bags of size 25 cm as per direction of the officer-in-charge		
		3.00
Total Qty.	No.	**3.00**
Providing and stacking of Ficus bengalensis (Bargad) of height 120-135 cm. in big poly bags of size 25 cm as per direction of the officer-in-charge.		
		1.00
Total Qty.	No.	**1.00**
Water Lilly, Pennicitum, Russelia, Canna		
		1326.00
Total Qty.	No.	**1326.00**
Sowing of Vetiver grass over the edges of soil bund to prevent soil erosion at the time of flooding.		
		250.00
Total Qty.	No.	**250.00**
Grassing with 'Doob' grass including watering and maintenance of the lawn for 30 days or more till the grass forms a thick lawn free from weeds and fit for mowing.(if needed good earth shall be paid separately). In rows 7.5 cm apart in either direction		
		41.31

Description	Unit	Qty.
Total Qty.	100 Sqm	41.31
Preparation of mounds of various size and shape by available excavated /supplied earth in layers not exceeding 20 cm in depth, breaking clods, watering of Each layer, dressing etc. lead upto 50 metre and All lift complete as per direction of Engineer-in-Charge		
		256.06
Total Qty.		256.06
Providingand Laying Mexican/Zyosiacarpet grass Turf with earth 50mm to 60mm thickness on existing ground prepared with proper level and ramming with tools wooden (Durmuth) and then rolling the surface with light roller make the surfaces moothen and light watering with sprinkler and maintenance for 30days or more		
		596.22
Total Qty.		596.22
Steel work in built up M.S. tubular section (round, square or rectangular Hollow tube etc.) trusses/frame work etc./ railing work etc. including cutting, hoisting fixing in position and applying a priming coat of approved steel primer, welded and bolted including special shaped washers etc. complete.		
		3895.65
		395.51
Total Qty.	Kg	3895.65
Steel work in built up M.S. tubular section (round, square or rectangular Hollow tube etc.) trusses/frame work etc./ railing work etc. including cutting, hoisting fixing in position and applying a priming coat of approved steel primer, welded and bolted including special shaped washers etc. complete.		
		687.25
Total Qty.	Kg	687.25
Applying one coat of cement primer of approved brand and manufacture on wall surface : Cement primer.		
		1555.18
		61.24
Total Qty.	Sqm	1616.42

Description	Unit	Qty.
Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre. of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour.		
		272.00
		72.84
Total Qty.	Sqm	344.84
Finishing walls with water proofing cement paint of required shade - New work (Two or more coats applied @ 3.84 kg/10 sqm).		
		1131.82
Total Qty.	Sqm	1131.82
Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade New work (Two or more coats applied @ 1.43 ltr/ 10 sqm. over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm).		
		193.08
Total Qty.	Sqm	**193.08**
Providing and fixing 16mm thick gang saw cut mirror polished premoulded and prepolished) machine cut for kitchen platforms, vanity counters, window sills, facia sand similar locations of required size of approved shade, colour and texture laid over 20mm thick basecement mortar 1:4 (1cement:4coarsesand) withjointstreatedwithwhitecement,mixedwithmatching pigment,epoxytouchups,includingrubbing,curing,mouldingan		
Area of slab over 0.50 sqm		
		19.28
Total Qty.	Sqm	**19.28**
Granite work gang saw cut (polished and machine cut) of thickness 18mm for wall lining (venee rwork), backing filled with a grout of average 12mm thick in cement mortar 1:3 (1cement: 3sand) including pointing with white cement mortar 1:2 (1white cement: 2marble dust)with an admixture of pigment to match the marble shade: (To be secured to the backing by means of cramps, which shall be paid for separately).		
Fine granite dark Black/dark Red/ White with self design/ pattern/ crystals of other colors of glitter.		

Description	Unit	Qty.
		23.82
Total Qty.	**Sqm**	**23.82**
Stone tile work for wall lining upto 10m height with special adhesive over 12mm thick bed of cement mortar1:3 (1cement:3 coarsesand)including pointing in white cement with an admixture of pigment to match the stone shade.		
		9.91
Total Qty.	**Cum**	**9.91**
Providing & fixing of precast reinforced cement concrete manhole cover and frame including cost of transporting at site and all material etc. complete..560 x 560 mm heavy duty		
		20.00
Total Qty.	**Each**	**20.00**
Providing & fixing of precast reinforced cement concrete manhole cover and frame including cost of transporting at site and all material etc. complete. 560 x 900 mm size extra heavy duty		
		3.00
Total Qty.	**Each**	**3.00**
Providing and applying 1.0 mm thick white cement based wall putty of best quality, over plastered surface to prepare the surface even and smooth complete.		
		272.00
Total Qty.	**Sqm**	**272.00**
Providing and laying 60mm thick factory made cement concrete interlocking paver block of M-30 grade reflective type rubber modulded glossy colour paving block made by block making machine with strong vibratory compaction and of approved size and shape laid in required colour and pattern over and including 50mm thick compacted bed of stone dust/sand filling the joints with sand etc. all complete as per the direction of Engineer in charge including locking edges wherever required with cement concrete M15 grade or cement mortor 1:3 with pigment of required shade to match		
		758.61
Total Qty.	**Sqm**	**758.61**

Description	Unit	Qty.
Providing and laying vitrified floor tiles (without Soluble salt) or printed (with soluble salt) Nano polished (Glossy finish) in different sizes with water absorption less than 0.05% and conforming to IS : 15622 of approved make in all colours & shades, Ist quality/ premium		
		84.91
		7.83
Total Qty.	Sqm	84.91
Providing and fixing Ist quality ceramic glazed wall tiles conforming to IS : 15622 (6 to 7mm thick) of approved make in all colours, shades of any size as approved by Engineer-in-Charge in skirting, risers of steps and		
		83.61
Total Qty.	Sqm	83.61
Providing and laying Ceramic glazed floor tiles 300x300 mm or more (6 to 7 mm thick)of 1st quality conforming to IS:15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20mm thick Cement Mortar 1:4 (1 Cement : 4 Coarse sand) including pointing the joints with white cement and matching pigment etc., complete.		
		15.58
Total Qty.	Sqm	15.58
Providing and laying vitrified floor tiles (without soluble salt) or printed (with soluble salt) Nano polished (Glossy finish) in different sizes with water absorption less than 0.05% and conforming to IS : 15622 of approved make in all colours & shades, Ist quality/ premium quality in skirting laid on 12mm thick cement mortar 1:4 (1 cement : 4 sand) including grouting the joints with white cement and matching		
		10.47
Total Qty.	Sqm	10.47
Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters using following hinges.		

Description	Unit	Qty.
35 mm thick including ISI marked Stainless Steel butt hinges with		
		17.21
Total Qty.	Sqm	17.21
Providing and fixing ISI marked stainless steel sliding door bolts with nuts and screws etc. complete:		
		7.00
Total Qty.	No.	7.00
Providing and fixing ISI marked stainless steel door latches with screws etc. complete :		
		7.00
Total Qty.	No.	7.00
Providing and fixing bright finished brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles with		
		3.00
Total Qty.	No.	3.00
Providing and fixing ISI marked stainless steel handles with necessary screws etc. complete :		
		14.00
Total Qty.	No.	14.00
Providing and fixing aluminium hanging floor door stopper ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade with necessary screws etc. complete.		
		8.00
Total Qty.	No.	8.00
Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps,32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require :		
		3.00
Total Qty.	No.	3.00
Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms. - 15 mm nominal bore.		
		5.00
Total Qty.	No.	5.00
A. Providing & fixing PTMT grating of approved quality and colour. Circular type.		
		5.00
Total Qty.	No.	5.00

Description	Unit	Qty.
Providing and fixing white vitreous china European Wall hung Anti germ Fluoro-Polymer Coated water closet of approved shape with soft closing seat cover, and 7.2 litre Low level slim dual flushing, PP (Poly Propylene) made 80 mm thick concealed flushing cistern, flushing capacity 3 litre/6 litre, with all fittings and fixtures complete including cutting and making good the wall and floors wherever required.		
		1.00
Total Qty.	No.	1.00
Providing and fixing white vitreous china water closet squatting pan (Indian type) P or S trap, complete including cutting and making good the walls and floors wherever required :		
		3.00
Total Qty.	No.	3.00
Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete.		
		3.00
Total Qty.	No.	3.00
Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350mm and 340x410x265mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :	Each	
		2.00
Total Qty.	No.	2.00
Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS 13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required :	Each	
		1.00
Total Qty.	No.	1.00

Description	Unit	Qty.
Providing, Laying and jointing non-pressure (NP2) RCC socket & spigot pipes with rubber gasket joint including testing of joints. 250 mm dia	No.	
		62.50
Total Qty.	No.	62.50
Providing, laying, jointing & testing of following P.V.C. pipes with solvent cement joint for 6, 8 and 10 kg/ sq. cm. pressures including testing of joints, cost of jointing materials etc. complete in all respect 110 mm dia.	Rm	
		39.40
Total Qty.	No.	39.40
Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plane and brass threaded fitting i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.Internal work - Exposed on wall.		
15 mm nominal outer dia .Pipes.	Meter	
		12.70
20 mm nominal outer dia .Pipes.	Meter	
		2.00
25 mm nominal outer dia .Pipes.	Meter	
		4.50
32 mm nominal outer dia .Pipes.	Meter	
	Meter	14.50
Providing and fixing Chlorinated Poly vinyl Chloride (CPVC)pipes, having themal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. External work	Meter	
32 mm nominal outer dia .Pipes.	Meter	
		6.20
40 mm nominal outer dia .Pipes.	Meter	
		6.20

Description	Unit	Qty.
Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations: (a) Applying a slurry coat of neat cement using 2.75 kg/sqm. of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300mm height including cleaning the surface before treatment. (b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with		
		101.71
Total Qty.	No.	101.71
Providing and placing on terrace at all floor polyethylene water storage tank ISI:12701 marked with cover and suitable locking arrangement and making necessary holes for in let, out let and over flow pipes but without fittings and the base support for tank.		
		1000.00
Total Qty.	No.	1000.00
Steel work welded in built up sections/framed work including cutting,hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. Instringers, treads, landings etc. of stair cases including use of chequered plate wherever required, all complete.		
		1985.05
Total Qty.	No.	1985.05
Construction of Pathway with Black basalt stone 50mm thick with Cement mortar (1 Cement: 2 coarse sand).		
		15.58
Total Qty.	Cum	15.58
Newwork(Twoormorecoatapplied@1.67ltr/10sqmoverand including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm).		
		85.40
Total Qty.	Sqm	85.40
Dismantle/remove existing electrical and light poles including cables [exposed or buried] and disposal away from site		
		26.00

Description	Unit	Qty.
Total Qty.	No.	26.00
Digging holes in ordinary soil and refilling the same with the excavated earth mixed with manure or sludge in the ratio of 2:1 by volume (2 parts of stacked volume of earth after reduction by 20% : 1 part of stacked volume of manure after reduction by 8%) flooding with water, dressing including removal of rubbish and surplus earth, if any with all leads and lifts (cost of manure, sludge or extra good earth if needed to be paid for separately) :		
Holes 30 cm dia, and 30 cm deep.		
		1420.00
Total Qty.	No.	1420.00
Holes 45 cm dia, and 45 cm deep.		
		79.00
Total Qty.	No.	79.00
Holes 60 cm dia and 60 cm deep.		
		149.00
Total Qty.	No.	149.00
Providing and stacking of Ficus panda of height 45-60 cm. with 6-7 branches and healthy foliage in p.bag of size 25 cm as per direction of the officer-in-charge.	each	
		45.00
Total Qty.	No.	45.00
Water Lilly, Pennicitum, Russelia, Canna		
		552.00
Total Qty.	No.	552.00
Providing and stacking of Nerium oleander (kaner) of height 60-75 cm. with 5-6 branches in poly bags of size 25 cm as per direction of the officer-in-charge.	each	
		357.00
Total Qty.	No.	357.00
Providing and displaying of Croton Golden plant, having ht. 45 cm to 60 cm with 2 to 3 branches, well developed, fresh and healthy foliage in 25 cm size of Earthen pot/Plastic pot as per direction of the officer-in-charge	each	
		267.00
Total Qty.	No.	267.00
Providing and stacking of Hibiscus rosasinensis of height 60-75 cm. with 5-6 branches in p.bag of size 25 cm as per direction of the officer-in-charge.		
		144.00

Description	Unit	Qty.
Total Qty.	No.	144.00
Providing and stacking of Bauhinia purpurea (Kachnar) of height 150-165 cm. in big poly bags of size 25 cm as per direction of the officer-in-charge.	each	
		7.00
Total Qty.	No.	7.00
Providing and stacking of Michelia champa (Golden Champa) of height 90- 105 cm. in earthen pots of size 25 cm as per direction of the officer-in-charge.		
		12.00
Total Qty.	No.	12.00
Providing and stacking of Ficus bengalensis (Bargad) of height 120-135 cm. in big poly bags of size 25 cm as per direction of the officer-in-charge	each	
		60.00
Total Qty.	No.	60.00
Providing and stacking of Phyllanthus emblica (Amla) of height 150-165 cm. in Big HDPE Bag as per direction of the officer-in- charge.		
		21.00
Total Qty.	No.	21.00
Providing and stacking of Azadirachta indica (Neem) of height 120-130cm in big polybag of size 25 cm as per direction of the officer-in-charge	each	
		6.00
Total Qty.	No.	6.00
Providing and stacking of Chlorophytum (Green), full of leafy suckers in 15 cm size of Earthen Pot/Plastic Pot & as per direction of the officer-in-charge.		
		79.00
Total Qty.	No.	79.00
Providing and fixing stainless steel English (Capital) and Hindi letters in standard pattern bellow type made with 1.20 mm thick stainless steel (ASI Grade- 304) Depth of letter shall not be less than 30mm and rate includes welding/soldering of joints polishing, buffing and fixing on the wall, plate and beam	per letter per cm height	
		1340.00
Total Qty.		1340.00
Sluice Gate Square type as per IS 13349, Size 800X800 mm. Cast Iron Wall Thimble mounted,Manually operated, CL-PL : 5.50 Meter,Class – I, Flush Bottom Closure	Nos	
		1.00
Total Qty.		1.00

Description	Unit	Qty.
For shutters of doors, windows & ventilators including providing and fixing hinges/pivots and making provision for fixing of fittings wherever required including the cost of PVC/neo prene gasket required (Fittings shall be paid for	Kg	
		128.88
Total Qty.		**128.88**
Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM Rubber neoprene gasket etc. complete as per the architectural drawing sand	Sqm	
		9.03
Total Qty.		**9.03**
Introducing Indian carps	Nos	
		50000.00
Total Qty.		**50000.00**
Supply & Installation of Thatch roofing for Dhyan Kuti at Chota Rudrasagar. The Roofing is a traditional roofing method that involves using dry vegetation such as straw, water reed, & sarkanda grass. Strong thatched roofing with sakanda leaves including Balli rafters 5 to 8cm dia at average 80cm c/c and purlins of bamboo of 4 to 5cm dia at average 30 cm c/c and cover with polythene and 3 layer thached roof of		
		149.34
Total Qty.	Sqm	**149.34**
Providing and liping wall floor and plinth with mud mix with cowdung.		
		318.94
Total Qty.	Sqm	**318.94**
Bougainvillea		
		200.00
Total Qty.		**200.00**
Alestonia saptparni		
		50.00
Total Qty.		**50.00**
Ran bhendi tree		
		50.00
Total Qty.		**50.00**

Description	Unit	Qty.
Typha Grass		
		600.00
Total Qty.		**600.00**
Umbrela plant or Elephentiar		
		600.00
Total Qty.		**600.00**
Canna		
		200.00
Total Qty.		**200.00**
Vernonia creeper		
		1073.00
Total Qty.		**1073.00**
Tecoma gaudichaudi		
		559.00
Total Qty.		**559.00**
Bulletwood tree		
		2.00
Total Qty.		**2.00**
China Berry		
		4.00
Total Qty.		**4.00**
Mango		
		49.00
Total Qty.		**49.00**

Description	Unit	Qty.
Neem Tree		
		4.00
Total Qty.		**4.00**
Jack Fruit		
		2.00
Total Qty.		**2.00**
Vetiver Grass		
		200.00
Total Qty.		**200.00**
Wall art work (2D/3D Painting) - Providing and painting 2D/3D Painting including all material and labour complete as per Engineer-In-Charge	sqm	
		137.69
Total Qty.		**137.69**
Mandna as approved in MRIDA Project	sqm	
		1800.00
Total Qty.		**1800.00**

Annexure M-2

Chota Rudra Sagar Electrical Asset List			
Sr. No.	Item discription	UOM	QTY
1	Integral Post top lanterns 25 Watt LED, color temp 3000-6500k as required.	Each	127
2	Bollard LED 8-10 Watt height > 700mm, color temp 3000-6000k.	Each	52
3	Flexible LED strip 24Watt/25Watt - 5 M outdoor cove light W/O driver IP65	Each	50
4	Power supply 25Watt/30Watt for LED strip IP65	Each	4
5	Decorative designer poles 3 meter Height	Each	118
6	LED type tree up lighters with all acessories beam angle and colour temperature as per site requiement of 15-20W	Each	40
7	Architechtural monochrome type step light LED fixtures with with beam angle and colour temperature as per site requirement of following maximum wattages. 15 to 20W	Each	48
8	Supply, installation, testing and commissioning of stand mounted panel made of 16 SWG GI sheet, Single door and duly pretreated and power coated to make it weather proof. The panel shall have 1 Nos.63 Amp TPN MCB incomer, 4 no . of 25 A DP and 6 No. of 6A MCB for outgoing. , 1 No 0-24 Hr electro-mechanical time switch with memory feature, of suitable rating so that whole street lights get switched ON automatically at pre decided time. Complete with locking arrangement. The panel should be supplied with suitable GI stand.	Each	1
9	Supply and fixing of LED tube rod comprising of LED tube with non integral / integral driver, 6500K color temp having 40000 burning hrs life with minimum @ L 70, system lumen output should be minimum with efficacy > 80 lm/W. LED driver PF 0.95 & THD < 20%. The colour rendering index of LED light should be more than 70.Submission LM 80-08 Form LED Source Manufacturer & LM79-08 / IS16106 from NABL approved lab. Manufacturer mandatory I/c connection wire, testing etc.to complete the job. 2 Yrs Guarantee certificate from 1 X 18/20/22W, Non Integral with driver	Each	3
10	Supplying and fixing surface mounting LED down lighter, LEDof 1 to 3 W each assembled on single MCPCB, having colortemp 6500K & having 50000 burning hrs life with minimum@ L 70, system lumen output should be minimum withefficacy>80lm/W. LED driver PF 0.95 & THD - 20%. Thecolour rendering index of LED light should be more than 70.Housing made of CRCA powder coated frame with glare freediffused polycarbonate cover. Submission LM 80-08 FormLED Source Manufacturer & LM79-08 / IS16106 from NABLapproved lab. Manufacturer mandatory. I/c connection wire,testing etc. to complete the job. 2 Yrs Guarantee certificate from manufacturer. 15 W , 180/200mm	Each	23
CCTV systems Rudra Sagar			
E. CCTV Systems			
Sl.No	Item discription	UOM	Upto Date QTY.

11	IP bullet camera-Supply, installation testing and commissioning of the IP bullet camera shall be equipped with a 1/3" 4MP progressive scan CMOS imager to capture full HD 1080p (25/30 fps)/2688 × 1520 (20fps) images, a 3.6 mm fixed lens, and a waterproof (IP66) IK10 impact-resistant camera housing. As a true day/night solution, the camera shall use Smart IR technology and provide up to 98 ft (30 m) of IR illumination. The camera shall accept PoE (802.3af) or 12 V DC power input.min. Illumination :-0.08 lux color @ F2.0 (Color, 1/3s, 30 IRE),0 lux B/W with IR LEDs on @ F2.0) video compression :-H.265 +, noise reduction: 3DNR.backlight compensation - True WDR 120DB. angle of view :- 104°/87° (H), 57°/48° (V),UL listed	Each	13
12	16 channel NVR with 1 SATA	Each	1
13	24 port PoE switch with 4 SFP ports	Each	3
14	Providing &fixing of 4 TB hard disk	Each	1
15	CCTV colour monitor ,32" flat LED colour monitors.	Each	1
16	12U cabinet 600X600X500, wall mounting with 6 point 5 Amp. socket power supply strip and fan, tray	Each	6
17	5 KVA (1 phase input & 1 phase output For 60 minute backup, min. 8000 VAH	Each	1
E. PA Systems			
18	Supply, installation, testing and commissioning of 15W outdoor speaker (IP66) with max SPL1M/1W 110dB. Frequency response of 500Hz-5KHz with a dispersion angle of 140 deg. The speaker should have tapings at 15W/7.5W	Each	13
19	Supply, installation, testing and commissioning of 480W power amplifier with 100.70V speaker OP, combination XLR/RCA line in line out connectors. Speaker OP short circuit protection (with require mounting arrangement)	Each	1

Annexure N-1

ASSET DETAILS - SHIKHAR DARSHAN

S.N.	Description of Item	UNIT	QTY
1	Centering and shuttering including strutting, propping etc.and removal of form for :		
	Foundations, footings, bases of columns, etc. For mass concrete.		
			1244.40
	THIS BILL		
			21.93
	TOTAL QTY	**SQM**	**1266.33**
2	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering All work up to plinth level.		
	Cement concrete grade M-15 (Nominal Mix) with 20 mm maximum size of stone aggregate		
			1279.71
			5.91
	TOTAL QTY	**CUM**	**1285.62**
3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering All work up to plinth level.		
	Cement concrete grade M-10 (Nominal Mix) with 20 mm maximum size of stone aggregate		
			695.56
			6.55
	TOTAL QTY	**CUM**	**702.10**

S.N.	Description of Item	UNIT	QTY
4	Providing and laying integral cement based treatment for water proofing on horizontal surface at all depth below ground level for under ground structures as directed by Engineer-in-Charge and consisting of : (i) Ist layer of 22mm to 25mm thick approved and specified rough stone slab over a 25mm thick base of cement mortar 1:3 (1 cement :3 coarse sand) mixed with water proofing compound conforming to IS:2645 in the recommended proportion over the leveling course (leveling course to be paid separately). Joints sealed and grouted with cement slurry mixed with water proofing compound. (ii) 2nd layer of 25mm thick cement mortar 1:3 (1 cement: 3 coarse sand) mixed with water proofing compound in ecommended proportions. Finishing top with stone aggregate of 10mm to 12mm nominal size spreading @ 8 cudm/sqm thoroughly embedded in the 2nd layer.		
			2396.99
	TOTAL QTY	**SQM**	**2396.99**
5	ReinforcementforR.C.C.workincludingstraightening,cutting,bending,placinginpositionandbindinguptofloorlevelincludingcostofbindingwire,wastageandoverlapsupto12mmhorizontal/inclinedpositionofreinforcementbarsinslabandbeams,plinth,chajjas,lintels,upto4.5mverticallengthofreinforcementinwallcolumns(overlapsshallbeprovidedasperrequirementofIS:13920;IS456&SP:34) etc. complete.		
	Thermo-Mechanically Treated bars. (Fe 500 D or more)		
			298136.86
			1066.31
	TOTAL QTY	**KG**	**299203.17**

S.N.	Description of Item	UNIT	QTY
6	Providing and laying in position machine batched and machine mixed and machine vibrated design mix cement concrete of M-25 grade mixed in a concrete mixer of not less than 0.2 cum capacity and approporiate weigh batcher using approved mix design, for reinforced cement concrete work including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement. including Admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge.		
			1721.17
	TOTAL QTY	**CUM**	**1721.17**
7	Centering and shuttering including strutting, propping etc.and removal of form for :		
	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc		
			1762.88
			8.02
	TOTAL QTY	**SQM**	**1770.90**
8	Providing and laying integral cement based treatment for water proofing on the vertical surface by fixing specified stone slab 22 mm to 25mm thick with cement slurry mixed with water proofing compound conforming to IS:2645 in recommended proportions with a gap of 20mm (minimum) between stone slabs and the receiving surfaces and filling the gaps with neat cement slurry mixed with water proofing compound and finishing the exterior of stone slab with cement mortar 1:3 (1 cement : 3 coarse sand) 20mm thick with neat cement punning mixed with water proofing compound in recommended proportion		
	complete at all levels and as directed by Engineer-in-charge :		
			661.19
	TOTAL QTY	**SQM**	**661.19**

S.N.	Description of Item	UNIT	QTY
9	Centering and shuttering including strutting, propping etc.and removal of form for :		
	Columns, Pillars, Piers, Abutments, Posts and Struts.		
			1362.06
	TOTAL QTY	**SQM**	**1362.06**
10	Providing and laying in position machine batched and machine mixed and machine vibrated design mix cement concrete of M-25 grade mixed in a concrete mixer of not less than 0.2 cum capacity and approporiate weigh batcher using approved mix design, for reinforced cement concrete work including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement. including Admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge.		
	Above Plinth upto floor 2 level		
			1017.96
	TOTAL QTY	**CUM**	**1017.96**
11	Brick work with fly ash lime bricks (FALG Bricks) conforming to IS:12894- 2002, class designation 75 Kg/CM (average compressive strength) in superstructure above plinth level up to floor 2 level including the cost of scaffolding:		
	Cement mortar 1:4 (1 cement : 4 coarse sand)		
		CUM	256.47
			3.67
	TOTAL QTY	**CUM**	**260.13**
12	Supplying and filling in plinth under floors including, watering, ramming consolidating and dressing complete.		
	Moorum/Hard copra		
		CUM	2229.40
			21.84
	TOTAL QTY	**CUM**	**2251.24**

S.N.	Description of Item	UNIT	QTY
13	Unplasticised PVC pipe Below ground - Providing and laying below ground unplasticised PVC pipe to with stand working pressure of 4 kg/cm2 soild waste pipes confirming to IS:13592 and IS:4985 including jointing with seal ring confirming to IS :5282 leaving 10mm gap for thermal expansion all necessary fittings etc. complete. Excavation to be paid seperataly.		
	200 mm diameter OD (min. wall thickness 4.9mm)		
		METER	62.30
			13.60
	TOTAL QTY	**METER**	**75.90**
14	Cement concrete 1:3:6 all-round unplasticised PVC pipesProviding and laying cement concrete 1:3:6 (1 cement: 3 sand: 6 graded stone aggregate 20 mm nominal size) all-round PVC. pipes including bed concrete as per standard design:		
	200 mm diameter PVC. Pipe		
		METER	62.30
			13.60
	TOTAL QTY	**METER**	**75.90**
15	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion. (i) Single socketed pipes.		
	110 mm diameter		
		METER	72.90
	TOTAL QTY	**METER**	**72.90**
16	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion. (i) Single socketed pipes.		
	Coupler		
	110 mm		
		EACH	15.00
	TOTAL QTY	**EACH**	**15.00**

S.N.	Description of Item	UNIT	QTY
17	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion. (i) Single socketed pipes.		
	Bend 87.5°		
	110 mm		
		EACH	24.00
			2.00
	TOTAL QTY	**EACH**	**26.00**
18	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion. (i) Single socketed pipes.		
	Single Tee without door		
	110x110x110		
		EACH	36.00
	TOTAL QTY	**EACH**	**36.00**
19	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion. (i) Single socketed pipes.		
	Shoe		
	110 mm		
		EACH	1.00
			2.00
	TOTAL QTY	**EACH**	**3.00**
20	Providing and fixing uPVC trap of self cleaning design complet. Including cost of cutting and making good the wall and floors.		
	100 mm inlet and 75 mm outlet		
		EACH	34.00
	TOTAL QTY	**EACH**	**34.00**

S.N.	Description of Item	UNIT	QTY
21	Constructing Brick masonry rectangular manhole in cementmortar 1:4(1cement:4 fine sand) common Burnt Clay Brick or fly ash bricks, of compressive strength not less than 75 Kgf/ cm2 RCC top slab Cement Concrete 1:2:4 (Nominal Mix) with stone aggregate 20mm nominal size, 20 cm thick foundation in cement concrete 1:3:6 (Nominal Mix) with stone aggregate 40mm nominal size, inside & outside plastering minimum 12 mm thick with cement mortar 1:3 (1 cement:3 coarse sand) finished with a floating coat of neat cement and making channels in Cement Concrete 1:2:4 (Nominal Mix) with stone aggregate 20mm nominal size including finishing the channel to shape, including providing and fixing footrest, manhole cover and frame etc. complete. (only excavation as per actual shallbe paid separately), Depth of manhole shall be considered as the verticaldistance from top of the manhole cover to the outgoing invert of main drain channel. (for reference purposeuse Drawing No. 11)		
	Man hole with above specifications having inside size 90x80cm and 45 cm deep including C.I. cover with frame (light duty)450x600 mm clear opening as per IS : 1726 : 1991.		
		EACH	3.00
			1.00
	TOTAL QTY	**EACH**	**4.00**
22	40 mm thick fine dressed stone flooring over 20 mm (average) thick base of cement mortar 1:3 (1cement : 3 coarse sand) with joints finished flush with cement mortar 1:3.		
	White sand Stone - 40 mm thick		
	PREVIOUS QTY BF FROM TMB PAGE NO 74	SQM	22.817
	TOTAL QTY	**SQM**	**22.817**

S.N.	Description of Item	UNIT	QTY
23	Providing and fixing M.S. Tubular frames for doors, windows, ventilators and cupboard with any section made of 1.60mm or 1.25mm thick M.S. Sheet, joints mitred and welded and grinded finish with profiles required size with 15x3mm lugs 10cm long embedded in cement concrete M-10 (Nominal Mix with 20mm maximum size of stone aggregate) blocks 15x10x10cm or with wooden plugs and screws or rawl plugs and screws or with fixing clips or with bolts and nuts as required including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primers.		
	Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.		
	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.		
		KG	465.24
	TOTAL QTY	**KG**	**465.24**
24	Centering and shuttering including strutting, propping etc.and removal of form for :		
	Stairs, (excluding landings) except spiral- staircases.		
			124.32
	TOTAL QTY	**SQM**	**124.32**
25	Centering and shuttering including strutting, propping etc.and removal of form for :		
	Suspended floors, roofs, landings, balconies and access platform.		
			1549.87
	TOTAL QTY	**SQM**	**1549.87**
26	Centering and shuttering including strutting, propping etc.and removal of form for :		
	Lintels, beams, plinth beams, girders, bressumers and cantilevers		
			2208.88
			102.37
	TOTAL QTY	**SQM**	**2311.26**

S.N.	Description of Item	UNIT	QTY
27	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :		
	Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate.		
			400.00
			17.91
	TOTAL QTY	**CUM**	**417.91**
28	Extra for shuttering in circular work or any other geometrical shape (20% of respective centering and shuttering items).		
	Lintels, beams, plinth beams, girders, bressumers and cantilevers		
			481.24
	TOTAL QTY	**SQM**	**481.24**
29	Foundations, footings, bases of columns, etc. For mass concrete.		
			11.93
	TOTAL QTY	**SQM**	**11.93**
30	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc		
			960.93
	TOTAL QTY	**SQM**	**960.93**
31	Extra for additional height of suspended floors, roofs, landing, beams & balconis in centering, shuttering where ever required with adequate bracing, propping etc. including cost of de-shuttering and decentering at all levels, over a height of 4.2 m, for every additional height of 1meter or part thereof. (Plan area to be measured)		
			211.57
	TOTAL QTY	**SQM**	**211.57**

S.N.	Description of Item	UNIT	QTY
32	Providing and laying Autoclaved Aerated Concrete (AAC) blocks masonary, using AAC blocks (Size length 300, 400, 500, 600 Height200, 250, 300 Width 100, 150, 200, 250mm)conforming to IS 2185 PART-3, having compressive strength not less than 3 Mpa (Grade H) in super structure, blocks jointed with cement mortar 1:6 (1 cement: 6 sand) or with polymer modified cement mortar as per ASTM 1660-09, applied in uniform thickness of 2 to 3 mm in horizontal and verticals joints using special trowel, polymer modified mortar having minimum compressive strength and minimum splitting tensile strength of not less than 5 MPa and 0.34 MPa respectively as per ASTM international standard including raking out joints. The surface of masonary units (AAC- Block) should be slightly moist prior to application of jointing mortar. Block should be gently pressed down using a rubber mallet to expel out entrapped air and the masonary shall be carried for even days for cement mortar and two days for polymer modified mortar. Ist layer of masonary block shall be placed on perfectly leveled surface, which if required, shall be leveled with M-20 cement concrete at plinth or floor level. Masonary shall have 75mm thick RCC band with M-20 cement concrete and 2 bars of 8mm dia. Such bands shall be spaced at interval of 1.8 meter in vertical direction. RCC bands shall be measured with AAC block masonary. Rates include all materials including steel bars wastage, scaffolding and all labour etc. complete upto floor two level :		
	AAC Masonary in polymer modified mortar		
	THIS BILL		
			45.39
	TOTAL QTY	**CUM**	**45.39**
33	Centering and shuttering including strutting, propping etc.and removal of form for :		
	Weather shade, Chajjas, corbels etc., including edges		
			11.72
	TOTAL QTY	**SQM**	**11.72**

S.N.	Description of Item	UNIT	QTY
34	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations:(a) Applying a slurry coat of neat cement using 2.75 kg/sqm. of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300mm height including cleaning the surface before treatment.Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs(c) After two days of proper curing applying a second coat of cement slurry using 2.75kg/sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-incharge.(d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofingcompound conforming to IS : 2645 and		
	approved by Engineer-incharge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3mm deep.The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. All above operations to be done in order and as directed and specified by the Engineer-in- Charge :		
	With average thickness of 120mm and minimum thickness at khurra as 65 mm.		
			1631.94
	TOTAL QTY	**SQM**	**1631.94**

S.N.	Description of Item	UNIT	QTY
35	6 mm cement plaster of mix :		
	1:3 (1 cement: 3 fine sand)		
			2373.36
			14.31
	TOTAL QTY	**SQM**	**2387.67**
36	12 mm cement plaster of mix :		
	1:4 (1 cement: 4 fine sand)		
			309.79
	TOTAL QTY	**SQM**	**309.79**
37	Providing and applying 1.0 mm thick (in two coat) white cement based wall putty of best quality, over plastered surface to prepare the surface even and smooth complete.		
			2670.96
	TOTAL QTY	**SQM**	**2670.96**
38	Granite work gang saw cut (polished and machine cut) of thickness 18mm for wall lining (veneer work), backing filled with a grout of average 12 mm thick in cement mortar 1:3 (1 cement : 3 sand) including pointing with white cement mortar 1:2 (1 white cement : 2 marble dust) with an admixture of pigment to match the marble shade: (To be secured to the backing by means of cramps, which shall be paid for separately).		
	Area of Slab Over 0.50 Sqm		
	Course granite light Black/ light Red/ off White with self design/ pattern/ crystals of other colour of glitter.		
			1283.08
			117.14
	TOTAL QTY	**SQM**	**1400.22**
39	Fixing glazed/ Ceramic/ Vitrified floor tiles with cement based high polymer modified quick-set tile adhesive (Water based) conforming to IS: 15477 , using 5kg. adhesive per sqm of tile area, in average 3mm thickness with fixing material.		
			1904.01

S.N.	Description of Item	UNIT	QTY
			522.17
	TOTAL QTY	**SQM**	**2426.17**
40	Extra for providing full edge moulding to 16mm thick marble stone counters, Vanities etc. including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer in- Charge.		
	Granite work.		
			5198.03
			1899.14
	TOTAL QTY	**MTR**	**7097.17**
41	Providing and laying gang saw cut 18 mm thick, mirror polished premoulded (wherever required) and pre polished machine cut granite stonework in flooring of required size shape of approved shade, color and texture in flooring laid over 20 mm thick base of cement mortar 1:4 (1 Cement: 4 sand) including grouting the joints with white cement mixed with matching pigments epoxy touch ups etc. complete as per direction of Engineer-in-Charge.		
	Area of slab over 0.50 Sq.m.		
	Coarse grained granite light Black/light Red/ off White or equivalent with self design/ pattern/crystals of other colors of glitter		
			3118.15
			370.05
	TOTAL QTY	**SQM**	**3488.20**
42	Add extra for polishing on granite work		
	Leather Finish Polish		
			2665.80
			120.25
	TOTAL QTY	**SQM**	**2786.05**

S.N.	Description of Item	UNIT	QTY
43	Providing and laying digital print random design(PGVT)/(GVT) vitrified tiles in different sizes with water absorption less than 0.05% and conforming to IS:15622 of approved make in all colours& shades, 1st quality/ premium quality including grouting the joints with white cement and matching pigments etc. complete For floor glossy/ rustic /stain/matt finished laid on 20mm thick cement mortar 1:4 (1 cement:4sand)		
	Size 800X800mm thickness 11-12mm		
			707.13
	TOTAL QTY	**SQM**	**707.13**
44	Providing and fixing white vitreous china Flat Back Anti germ Fluoro-Polymer Coated urinal (Inbuilt spreaders, Inbuilt Bottle trap and inbuilt ceramic Waste coupling)with sensotronic concealed type flushing valve for urinal complete set with installation box with control cock complete including painting of fittings and brackets, cutting and making good the wall and floors wherever required .		
	White Vetrious China Anti germ Fluoro-Polymer Coated Urinal Size 670 X 330 X325 mm with sensotronic concealed type flushing valve for urinal complete set with installation box with control cock. (Premium Range)		
			10.00
	TOTAL QTY	**EACH**	**10.00**
45	Providing and fixing white vitreous china European Wall hung Anti germ Fluoro-Polymer Coated water closet of approved shape with soft closing seat cover, and 7.2 litre Low level slim dual flushing, PP (Poly Propylene) made 80 mm thick concealed flushing cistern, flushing capacity 3 litre/6 litre, with all fittings and fixtures complete		
	including cutting and making good the wall and floors wherever required.		
	Anti germ Fluoro-Polymer Coated (Nano coating) Wall hung water closet Size 350 X 360 X 545mm with solid poly propelyne made soft closing seat cover (Premium Range)		
			8.00
	TOTAL QTY	**EACH**	**8.00**

S.N.	Description of Item	UNIT	QTY
46	Providing and fixing cramps of required size & shape in RCC/ CC/ brick masonary backing with cement mortar 1:2 (1 cement :2 coarse sand) including drilling necessary hole in stones and embedding the cramp in the hole (fastener to be paid separately).		
	Stainless steel cramps.		
			442.80
	TOTAL QTY	**KG**	**442.80**
47	Providing and fixing expansion hold fasteners on C.C. /R.C.C. brick masonary surface backing including drilling necessary holes and the cost of bolt etc complete.		
	Fastener with threaded dia 12 mm.		
			2788.00
	TOTAL QTY	**EACH**	**2788.00**
48	Providing and laying digital print random design(PGVT)/(GVT) vitrified tiles in different sizes with water absorption less than 0.05% and conforming to IS:15622 of approved make in all colours& shades, 1st quality/ premium quality including grouting the joints with white cement and matching pigments etc. complete		
	For floor glossy/ rustic /stain/matt finished laid on 20mm thick cement mortar 1:4 (1 cement:4sand)		
	Size 600X1200 mm thickness 11-12mm		
			301.50
	TOTAL QTY	**SQM**	**301.50**
49	Providing and laying vitrified floor-tiles Full Body Design Homogenous Body matt/rustic finish in different size with water absorption less than 0.05% and conforming to IS:15622 of approved make in all colours& shades, 1st quality/ premium quality in flooring laid on 20mm thick cement mortar 1:4(1cement :4sand) including grouting the joints with white cement and matching pigments etc. complete In light colour and shades as ivory, beige blanco, grey etc.		
	(b) Size 600X600mm thickness 9-10mm		
			215.04

S.N.	Description of Item	UNIT	QTY
	TOTAL QTY	**SQM**	**215.04**
50	Providing and fixing 16mm thick gang saw cut mirror polished premoulded and prepolished machine cut Granite of approved shade, colour and texture of Granite Door frame. in cement mortar 1:3 (1 cement :3 sand) including pointing with an admixture of pigment to match the shade including fixing of granite stone door frame with epoxy resin based adhesive including secured to the backing by means of cramps, drilling of hole with rawl plugs and screws 75mm long cleaning etc. complete. Including rubbing, curing, moulding and polishing edges to give high glossy finish and drilling of hole for fixing stainless steel hings, aldrop, towerboltetc complete at all levels as per instruction of Engineer-in-Charge.		
	Granite Door frame for 200mm thick wall Thickness.		
			23.62
	TOTAL QTY	**RM**	**23.62**
51	Providing and fixing white vitreous china type Anti germ fluoro-polymer coated counter top wash basin with 15 mm C. P. wall mounted pressmatic Pillar cock auto closing system (decol technology), 32 mm C.P. brass waste coupling length 130mm and 32 mm C.P. brass bottle trap size 200x300mm i/c cutting and making good the wall and floors wherever required all fittings and fixtures etc. complete.		
	White Vetrious China Anti germ Fluoro-Polymer Coated Wash Basin Size 190x600x435mm with wall mounted pressmatic pillar cock auto closing system (decol technology). (Premium Range)		
			12.00
	TOTAL QTY	**EACH**	**12.00**
52	SteelworkinbuiltupM.S.tubularsection(round,squareorrectangularHollowtubeetc.)trusses/frameworketc./railingworketc.includingcutting,hoistingfixinginpositionandapplyingaprimingcoatofapprovedsteelprimer,weldedandboltedincludingspecialshaped washers etc. complete.		
	Hot finished welded type tubes.		
			1711.40

S.N.	Description of Item	UNIT	QTY
			192.27
	TOTAL QTY	**kg**	**1903.67**
53	Structuralsteelworkinsinglesectionfixedwithorwithoutconnectingplateincludingcutting,hoisting,fixinginpositionandapplyingapriming coat of approved steel primer all complete.		
			45.03
			2922.07
	TOTAL QTY	**kg**	**2967.10**
54	JHAROKHA		
	stone thickness 50 mm to 450 mm , design as per attached drawings.		
			7.00
	TOTAL QTY	**EACH**	**7.00**
55	Stone work (machine cut edges) for wall lining etc. (veneer work) backing filled with a grout of 12mm thick cement mortar 1:3 (1 cement: 3 coarse sand) including pointing in white cement mortar 1:2 (1 white cement: 2 Marble dust) with an admixture of pigment matching the stone shade : (To be secured to the backing by means of cramps which shall be paid separately) :		
	White sand stone - Exposed face machine cut and table rubbed with rough backing.		
			610.94
	TOTAL QTY	**SQM**	**610.94**
56	Stone work (machine cut edges) for wall lining etc. (veneer work) backing filled with a grout of 12mm thick cement mortar 1:3 (1 cement: 3 coarse sand) including pointing in white cement mortar 1:2 (1 white cement: 2 Marble dust) with an admixture of pigment matching the stone shade : (To be secured to the backing by means of cramps which shall be paid separately) :		

S.N.	Description of Item	UNIT	QTY
	White sand stone - Exposed face machine cut and table rubbed with rough backing.		
			27.55
	TOTAL QTY	**SQM**	**27.55**
57	Carving work as per drawing design and as per instruction of enginee in charge and consultant on Bansi Pahadpur pink stone (Carving Depth Varies 10 mm to 30 mm) including cost of stone with all fixing acceseries		
			327.12
	TOTAL QTY	**SQM**	**327.12**
58	Providing and fixing stainless steel cramps of required size and shape for anchoring stone wall lining to the backing or securing adjacent stones in stone wall lining in cement mortar 1:2 (1 cement : 2 coarse sand) including making the necessary chases in stone and holes in walls wherever required.		
			590.07
	TOTAL QTY	**KG**	**590.07**
59	Providing and fixing Glass mosaic tiles at finished plain wall surface of size 20 mm x 20 mm x 4 mm in all colour, design, fixing in customize design as per direction of Engineer-in- Charge. The glass mosaic tiles to be fixed on the wall surface with the help of approved adhesive applied at the rate of 2.5 kg per sqm and grouting of the same. The rate is inclusive of all operation, material and required pattern approved by Engineer-in-Charge:		
			148.30
	TOTAL QTY	**SQM**	**148.30**

S.N.	Description of Item	UNIT	QTY
60	12.46ProvidingandFixingofskylightsconsistingofMulticell/tightcellPolycarbonatePanelSystemofapprovedcolour,16mmthick(minimum)havinguniformincolorwithanintegralTightCellcoreconstructednottoexceed4mmx4mminacrosssection,VerticalStandingSeammanufactured atbothsidesofthepanel.Snaponconnectortointerlockthepanelsshallhaveagriplockdoubletoothlockingmechanismtoensuremaximumuplift capabilityandshallbeofsamecolorasthatofpanel.Panelshallbefactorysealed/endweldedpanelswithadditionalEndcap/AluminiumUProfile(millfinish)forends.Panelshallbecoextrudedwithspecialantiglarecompoundand UVprotected.ThefullsystemshallbefittedonMSpurlinsperpendiculartodirectionofsheetingwithpurlinspacingasspecifiedbyManufacturer.Therateincludescostofalltheoperations,labourandallmaterialsandtests(asapplicable)involvedsuchasboltsnutsandscrewsetc.andlabourforcuttingbendingtorequiredprofile,necessaryscaffolding,hoistinginpositionetc.forpropercompletionoftheworketc.completeaspersspecificationdrawingsanddirectionofEngineerincharge.Finishedsurfaceareaofroofingfixedoversteeltublarstructureshallbemeasuredforpayment.MStabularframework shall be measured separately for payment.be measured separately for payment.		
			120.02
	TOTAL QTY	**SQM**	**120.02**
61	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc. including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete i/c fixing the railing with necessary accessories and stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge. (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.)		
			505.34
			318.78

S.N.	Description of Item	UNIT	QTY
	TOTAL QTY	**KG**	**824.11**
62	Providing and fixing aluminium work for doors, windows,ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS : 1285, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and paneling to be paid for separately) :		
	For fixed portion		
	Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)		
			258.37
			122.91
	TOTAL QTY	**KG**	**381.28**
63	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS : 1285, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and paneling to be paid for separately) :		

S.N.	Description of Item	UNIT	QTY
	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of PVC / neoprene gasket required (Fittings shall be paid for separately).		
	Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)		
			307.61
			24.01
	TOTAL QTY	**KG**	**331.62**
64	Providing and fixing glazing in aluminium door, window,ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in- charge (Cost of aluminium snap beading shall be paid in basic item):		
	With float glass panes of 5.5 mm thickness		
			57.65
			17.28
	TOTAL QTY	**SQM**	**74.93**
65	ProvidingandfixingflyproofwiregauzetowindowsclerestorywindowsanddoorswithM.S.Flat15x3mmandnutsandboltscomplete.		
	Stainlesssteel(grade304)wiregauzeof0.5mmdiawireand1.4mm aperture on both sides.		
			26.57
			4.16
	TOTAL QTY	**SQM**	**30.73**
66	Extra for stone work sunk or moulded in cornices.		
			1792.19
	TOTAL QTY	**per meter per cm girth**	**1792.19**

S.N.	Description of Item	UNIT	QTY
67	Supplying and stacking of good earth specific useful for plantation at site including royalty if any and carriage (earth measured in stacks will be reduced by 20% for payment).		
			97.84
			44.33
	TOTAL QTY	**CUM**	**142.17**
68	Extra for fixing marble/granite stone over and above corresponding basic item,in facia and drops of width upto 150mm with epoxy resin based adhesive including cleaning etc. complete.		
			381.25
			524.75
	TOTAL QTY	**RM**	**905.99**
69	Granite stone work 18mm thick of any colour in riser of steps, skirting, dado and pillars laid on 12 mm average thick cement mortar 1:3 (1 cement:3 sand) and jointed with white cement slurry mixed with pigment to match the shade of slab.		
			27.46
			81.25
	TOTAL QTY	**SQM**	**108.71**
70	Kotastoneslabs25mmthickinrisersofsteps,skirting,dadoandpillarslaid on12mm(average)thickcementmortar1:3(1cement3coarsesand)and jointedwithgreycementslurrymixedwithpigmenttomatchtheshade of the slabs, including rubbing and polishing complete.		
			21.74
	TOTAL QTY	**SQM**	**21.74**
71	Rebaring of TMT bars by drilling hole & embedding bars of different diameter using epoxy grouting compound including all tools and tackles complete.		
	12 mm dia bar 16 mm dia hole		
			108.00
	TOTAL QTY	Per 100mm	**108.00**

S.N.	Description of Item	UNIT	QTY
72	Providing and fixing 16mm thick gang saw cut mirror polished premoulded and prepolished machine cut Granite of approved shade, colour and texture of Granite Door frame. in cement mortar 1:3 (1 cement :3 sand) including pointing with an admixture of pigment to match the shade including fixing of granite stone door frame with epoxy resin based adhesive including secured to the backing by means of cramps, drilling of hole with rawl plugs and screws 75mm long cleaning etc. complete. Including rubbing, curing, moulding and polishing edges to give high glossy finish and drilling of hole for fixing stainless steel hings, aldrop, towerboltetc complete at all levels as per instruction of Engineer-in-Charge.		
	Granite Door frame for 100mm thick wall Thickness.		
			51.235
	TOTAL QTY	RM	**51.235**
73	Providing and fixing 16mm thick gang saw cut mirror polished premoulded and prepolished machine cut Granite of approved shade, colour and texture of Granite Door frame. in cement mortar 1:3 (1 cement :3 sand) including pointing with an admixture of pigment to match the shade including fixing of granite stone door frame with epoxy resin based adhesive including secured to the backing by means of cramps, drilling of hole with rawl plugs and screws 75mm long cleaning etc. complete. Including rubbing, curing, moulding and polishing edges to give high glossy finish and drilling of hole for fixing stainless steel hings, aldrop, towerboltetc complete at all levels as per instruction of Engineer-in-Charge.		
	Granite Door frame for 200mm thick wall Thickness.		
			79.86
	TOTAL QTY	RM	**79.86**

S.N.	Description of Item	UNIT	QTY
74	Providing and fixing factory made integral PVC flush door shutter made from rigid PVC foam sheet (Single Extruded) with density not less than 600 kg/cum, conforming to IS: 2380 part 14 for screw holding strength with Celluka finish surfaces on both sides at the manufacturing process itself, manufactured by an ISO : 9001 -2000 certified company.		
	28 to 30 mm thick plain solid PVC flush door shutter		
			18.00
	TOTAL QTY	SQM	**18.00**
75	Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) non- decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters using following hinges.		
	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.		
			23.63
	TOTAL QTY	SQM	**23.63**
76	Providing & Fixing decorative high pressure laminated sheet of plain / wood grain in gloss / matt / suede finish with highdensity protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S including cost ofadhesive of approved quality.		
	1.0 mm thick		
			47.26
	TOTAL QTY	SQM	**47.26**
77	Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of shutters (over all area of door shutter to be measured).		
			23.63
	TOTAL QTY	SQM	**23.63**
78	Providing and fixing ISI marked stainless steel handles with necessary screws etc. complete :		
	125 mm		

S.N.	Description of Item	UNIT	QTY
			56.00
	TOTAL QTY	EACH	**56.00**
79	Providing and fixing ISI marked stainless steel tower bolt black finish, (Barrel type) with necessary screws etc. complete :		
	150x10 mm		
			28.00
	TOTAL QTY	EACH	**28.00**
80	Providing and fixing ISI marked stainless steel door latches with screws etc. complete :		
	250x20x6 mm		
			24.00
	TOTAL QTY	EACH	**24.00**
81	Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc. complete.		
			52.00
	TOTAL QTY	EACH	**52.00**
82	Providing and fixing ISI marked stainless steel sliding door bolts with nuts and screws etc. complete :		
	300x16 mm		
			24.00
	TOTAL QTY	EACH	**24.00**
83	Providing and fixing 8mm thick frosted safety glass Urinal partition size 900mm height and 450mm width, fixed with C P brass bracket of appropriate size i/c cutting and making good the wall and floors wherever required with all fittings and fixtures etc. complete.(Premium Range)		
			8.00
	TOTAL QTY	EACH	**8.00**
84	Providing and fixing glazing in aluminium door, window,ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in- charge (Cost of aluminium snap beading shall be paid in basic item):		
	With float glass panes of 4.0 mm thickness		
			18.06

S.N.	Description of Item	UNIT	QTY
			6.59
	TOTAL QTY	SQM	**24.64**
85	Addextraforprovidingandfixingfroastedglassinsteadoffloat glass		
	With glass panes of 4.0 mm thickness		
			18.06
	TOTAL QTY	SQM	**18.06**
86	3 mm thick alumminium composite pannel material consisting of 2.5 mm thick FR grade mineral core sandwiched between two alumminium sheets (each 0.25mm thick)		
			12.48
			5.04
	TOTAL QTY	SQM	**17.51**
87	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work including cutting chases and making good the walls etc		
	20 mm nominal outer dia .Pipes.		
			42.10
			80.20
	TOTAL QTY	METER	**122.30**
88	25 mm nominal outer dia .Pipes		
			23.00
			23.20
	TOTAL QTY	METER	**46.20**
89	32 mm nominal outer dia .Pipes.		
			59.15

S.N.	Description of Item	UNIT	QTY
	TOTAL QTY	METER	**59.15**
90	Providing and placing on terrace at all floor polyethylene water storage tank ISI : 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.		
			2000.00
	TOTAL QTY	LITER	**2000.00**
91	Providing and fixing CPVC gate valve with knob of approved quality.		
	40 mm nominal bore		
			1.00
			5.00
	TOTAL QTY	EACH	**6.00**
92	Constructing Brick masonry rectangular manhole in cementmortar 1:4(1cement:4 fine sand) common Burnt Clay Brick or fly ash bricks, of compressive strength not less than 75 Kgf/ cm2 RCC top slab Cement Concrete 1:2:4 (Nominal Mix) with stone aggregate 20mm nominal size, 20 cm thick foundation in cement concrete 1:3:6 (Nominal Mix) with stone aggregate 40mm nominal size, inside & outside plastering minimum 12 mm thick with cement mortar 1:3 (1 cement:3 coarse sand) finished with a floating coat of neat cement and making channels in Cement Concrete 1:2:4 (Nominal Mix) with stone aggregate 20mm nominal size including finishing the channel to shape, including providing and fixing footrest, manhole cover and frame etc. complete. (only excavation as per actual shall be paid separately), Depth of manhole shall be considered as the verticaldistance from top of the manhole cover to the outgoing invert of main drain channel. (for reference purposeuse Drawing No. 11)		
	Man hole with above specifications having inside size 120x90 cm and 90 cm deep including C.I. cover with frame (medium duty) 500 mm clear opening as per IS 1726 : 1991.		

S.N.	Description of Item	UNIT	QTY
			3.00
	TOTAL QTY	EACH	**3.00**
93	Add/ deduct for variation of depth of man holes given at item 17.2		
			6.82
	TOTAL QTY	METER	**6.82**
94	Providing and fixing in position best Indian (bonut size 24mm, ceramic disc size 19mm and min. body thickness 2mm, nickel plating 0.10 micron and chrome plating 0.3 micron, quarter turn) 2-way Bib Cock .(Premium Range)		
			8.00
	TOTAL QTY	EACH	**8.00**
95	Providing and fixing in position best Indian Health Faucet with 8mm dia 1 meter long Flexible Tube and wall bracket with N. R. V. (non-return wall).(Premium Range Sanitary Ware)		
			8.00
	TOTAL QTY	EACH	**8.00**
96	Providing and fixing in position best Indian C. P. brass made Shower Arm Length 300mm (nickel plating 0.10 micron and chrome plating 0.3 micron). (Premium Range)		
			3.00
	TOTAL QTY	EACH	**3.00**
97	Providing and fixing in position best Indian (bonut size 24mm, ceramic disc size 19mm, nickel plating 0.10 micron and chrome plating 0.3 micron, quarter turn) 3-in1 Wall Mixer .(Premium Range Sanitary Ware)		
			3.00
	TOTAL QTY	EACH	**3.00**
98	Providing and fixing in position best Indian shower rose 150mm dia, body and face chrome plated, brass made body, Silicon based Rubbit cleaning nozzles.(Premium Range)		
			3.00

S.N.	Description of Item	UNIT	QTY
	TOTAL QTY	EACH	**3.00**
99	Providing and fixing in position best Indian (bonut size 24mm, ceramic disc size 19mm and min. body thickness 2mm, nickel plating. 10 micron and chrome plating 0.3 micron, quarter turn) Angular stop cock. (Premium Range)		
			2.00
	TOTAL QTY	EACH	**2.00**
100	Providing and fixing Stainless Steel AISI304 (18/8)kitchen sink as per IS13983 with C.I.bracket sand stainless steel plug40mm including painting of fitting sand brackets,cutting and making good the walls wherever required :		
			2.00
	TOTAL QTY	EACH	**2.00**
101	Providing and fixing in position best Indian, quarter turn wall mounted sink cock (bonut size 24mm, ceramic disc size 19mm and min. nickel plating 0.10 micron and chrome plating 0.3 micron). (Premium Range)		
			2.00
	TOTAL QTY	EACH	**2.00**
102	Providing and fixing stainless steel English (Capital) and Hindi letters in standard pattern bellow type made with 1.20 mm thick stainless steel (ASI Grade- 304) Depth of letter shall not be less than 30mm and rate includes welding/soldering of joints polishing, buffing and fixing on the wall, plate and beam surface at any height with necessary nut and bolts/fastener wherever is required complete as per direction of Engineer-in-Charge.		
			863.00
	TOTAL QTY	per letter per cm height	**863.00**
103	Add extra for polishing on granite work		
	Flamed Finish Polish		
			46.65
	TOTAL QTY	SQM	**46.65**

S.N.	Description of Item	UNIT	QTY
104	Crusher Run Macadam - Providing & laying crushed stone aggregate, on a prepared surface , spreading and mixing with a motor grader, watering and compacting with a vibratory roller as per clause 407 of the specifications.		
	By Mix in Place Method		
	For 37.5 mm maximum size		
			75.00
	TOTAL QTY	cum	**75.00**
105	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion. (i) Single socketed pipes.		
	110 mm diameter		
			29.00
			12.15
	TOTAL QTY	RM	**41.15**
106	Construction of dry lean cement concrete Sub- base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table of MORTH Specifications 600-1, cement content not to be less than 200 kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with paver with electronic sensor/mechanical paver, compacting with 8-10 tonnes vibratory roller, finishing and curing and as per relevant clauses of section-603.		
			36.35
	TOTAL QTY	CUM	**36.35**

S.N.	Description of Item	UNIT	QTY
107	Construction of dowel jointed, plain cement concrete pavement in M-40 grade concrete over a prepared sub base with 43 or higher grade cement, coarse and fine agreegate conforming to IS:383 maximum size of coarse aggregate not exceeding 25 mm, mixed in a batching and mixing plant as per approved mix design, transported to site, laid with a fixed form or slip form paver with electronic sensor, spread, compacted and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealant, debonding strip, placing of dowel bar and tie rod, admixtures as approved, curing compound, finishing to lines and grades as per		
	approved drawings as per IRC-15 2011 and as per relevant clauses of section-602 of of MORTH specifications complete but excluding cost of steel in dowel bar & tie rod etc..		
			70.42
			19.22
	TOTAL QTY	CUM	**89.64**
108	Add extra in Item No.- 6.3 & 6.5 above for the cost of steel in dowel bar and tie rod etc. required as per design.		
	Mild Steel dowel bars		
			0.03
	TOTAL QTY	MT	**0.03**
109	BRACKET (Average thickness of stone 200mm, design as per attached drawings)		
	BR 01		
			20.00
	TOTAL QTY	EACH	**20.00**
110	CHHATRI		
	stone thickness 50 mm to 450 mm , design as per attached drawings.		
	CHH 01/A Multipurpose Hall Lobby		
			4.00

S.N.	Description of Item	UNIT	QTY
	TOTAL QTY	EACH	**4.00**
111	Providingandlaying60mmthickfactorymadecementconcreteinterlockingpaverblockofM30gradereflectivetyperubbermoduldedglossycolourpavingblockmadebyblockmakingmachinewithstrongvibratorycompactionandofapprovedsizeandshapelaidinrequiredcolourandpatternoverandincluding50mmthickcompactedbedofstonedust/sandfillingthejointswithsandetc.allcompleteasperthedirectionofEngineerinchargeincludinglockingedgeswhereverrequiredwithcementconcreteM15gradeorcementmortor1:3withpigmentofrequiredshadetomatchthecolour/shadeofblockincludingcostoflabour, material , etc. all complete.		
			55.84
	TOTAL QTY	SQM	**55.84**
112	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion. (i) Single socketed pipes.		
	75mm diameter		
			48.10
	TOTAL QTY	RM	**48.10**
113	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion. (i) Single socketed pipes.		
	Bend 87.5°		
	75 mm		
			5.00
	TOTAL QTY	EACH	**5.00**
114	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion. (i) Single socketed pipes.		
	Shoe (Plain		
	75 mm Shoe		
			10.00

S.N.	Description of Item	UNIT	QTY
	TOTAL QTY	EACH	**10.00**
115	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand or manufacture		
			146.04
	TOTAL QTY	SQM	**146.04**
116	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plane and brass threaded fitting i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall.		
	40 mm nominal outer dia .Pipes.		
			163.96
	TOTAL QTY	RM	**163.96**
117	Providing and fixing CPVC gate valve with knob of approved quality.		
	25 mm nominal bore		
			3.00
	TOTAL QTY	EACH	**3.00**
118	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plane and brass threaded fitting i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall.		
	50 mm nominal outer dia .Pipes.		
			26.95
	TOTAL QTY	RM	**26.95**

S.N.	Description of Item	UNIT	QTY
119	Filling the gap in between aluminium frame & adjacent RCC/ Brick/ Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete.		
	50 mm nominal outer dia .Pipes.		
			343.90
	TOTAL QTY	RM	**343.90**
120	Finishing walls with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :		
	Two or more coats applied @ 1.25 ltr/10 sqm. over and including one coat of Special primer applied @ 0.75 ltr/10 sqm.		
			2683.15
	TOTAL QTY	SQM	**2683.15**
121	Supplying, stacking and spreading compost/manure from approved source, (manure measured in stacks will be reduced by 8% for payment)		
			58.17
	TOTAL QTY	CUM	**58.17**
122	Mixing & spreading earth and manure in proportion as specified or directed		
			142.75
	TOTAL QTY	CUM	**142.75**
123	Flooding the ground with water including making kiaries and dismantling the same. (Rate 102 per 100sqm)		
			581.71
	TOTAL QTY	SQM	**581.71**
124	Fine dressing of the ground (Rate 113 per 100sqm)		
			581.71
	TOTAL QTY	SQM	**581.71**

S.N.	Description of Item	UNIT	QTY
125	Anti termite treatment of lawn/planting area through premise 30.50% I P. one liter premise diluted in 499 liters water and applying solution @ 1.00 litre solution per sqm lawn or bed area.(two application) i/c cost of chemical)and as per direction of officer-in-charge.and as per direction of officer-in-charge.		
			581.71
	TOTAL QTY	SQM	**581.71**
126	Providing and laying Neelgiri/Mexican grass turf with earth 50mm to 60mm thickness of existing ground prepared with proper level and ramming with tools wooden (Dhurmos) and than rolling the surface with light roller make the surface moothen and light waterning with sprinkler and aintenance for 30 days or more till the grass establish Properly, as per direction of officer-in-charge.		
			229.29
	TOTAL QTY	SQM	**229.29**
127	Duranta Golden, having ht.15 to 20 cm bushty shape with fresh and healthy leaves in 15 cm size of Earthen Pot / Plastic Pot.		
			8260.00
	TOTAL QTY	EACH	**8260.00**
128	Ixora Coccinea		
			1020.00
	TOTAL QTY	EACH	**1020.00**
129	Mogra -Jasminum sambac		
			826.00
	TOTAL QTY	EACH	**826.00**
130	Euphorbia milli hybrid variety, having ht.30 cm to 45 cm with multi branch, full bloom, fresh and healthy leaves in 20 cm size of Earthen Pot / Plastic Pot.		
			310.00
	TOTAL QTY	EACH	**310.00**

S.N.	Description of Item	UNIT	QTY
131	Wadelia Trilobata --- Wadelia trilobata,full of leaves in 15 cm size of Earthen Pot / Plastic Pot.		
			7500.00
	TOTAL QTY	EACH	**7500.00**
132	Eranthemum spp		
			1340.00
	TOTAL QTY	EACH	**1340.00**
133	Construction of Pathway with Black basalt stone 50mm thick with Cement mortar (1 Cement :2 coarse sand).		
	near kund side		
	PREVIOUS QTY BF FROM TMB PAGE NO 92		111.20
	TOTAL QTY	sqm	**111.20**

Annexure N-2

Sikhar Darshan & EEE Electrical Asset list			
Sr.No.	Description of Items	Unit	QTY.
1	TPN DB 4 way (8+12)	Each	6
2	TPN DB 6 way (8+18)	Each	2
3	Vertical TPN DB 6 way (8+24)	Each	1
4	Fan Regulator 450 Watt	Each	155
5	Ceiling Fan (Energy Saver 50 W)-1200 mm Sweep	Each	155
6	Exhaust Fan 300mm sweep	Each	5
7	20 meter highmast lighting system suitable to install up to 10No.200 W LED flood light and control .	Each	1
8	LED tube with non integral/ integral driver , 6500K color temp1 X 18/20/22W, Integral	Each	10
9	LED downlighter 7 W/8 W. 100/150mm	Each	40
10	LED downlighter 15W, 180/200mm	Each	475
11	Integral post top lantern LED fitting 40 watt.	Each	136
12	Flood light with high power LED of 1 to 3W each assembled on single MCPCB ,200W	Each	10
13	Flexible LED strip 72Watt/75Watt - 5 M outdoor light W/O driver IP65	Each	20
14	Power supply 72Watt/75Watt for LED strip IP65	Each	10
15	IP65 of surface/recessed ceiling mounted 15W deep LED downlighter fixture.	Each	36
16	9W recess deep uplight	Each	42
17	RGB DMX controller having 24V/48V DC input maximum 300W.	Each	1
18	1m long linear LED uplighter . 30W	Each	44
19	Decorative recessed wall mounted 6W Asymmetric LED step light 4"x4".	Each	160
20	Decorative surface wall mounted LED 3"X3" fixture ,3W LED	Each	120
21	LED RGB/RGBW flood lighting luminaire for facade lighting 90W	Each	6
22	LED RGB/RGBW flood lighting luminaire for facade lighting 30W	Each	4
23	Spike /uplighter , 6 Watt	Each	20
24	Spike /uplighter , 12 Watt	Each	35
25	Spike /uplighter , 18 Watt	Each	52
26	3 Mtr.Decorative Cast Iron Pole . (Without LED Light)	Each	68
27	Instant outline 10W/pm flexible LED direct view diffuse	Meter	120
28	SPLIT AC (inverter model, Cooling only) 1.5 TR star rating 3 star	Each	6
29	Hot water storage water heater 15 Ltr. (5 Star rating- standing losses ≤ 0.419 kWh/24 hrs/45°C)	Each	3
30			0
31	Led luminiare 2' X 2', 36W, 4-6.5K	Each	4
32	1 HP with 7-8 stages, head metre 61-18, discharge LPM 25-90	Each	2
33	2 HP with 7-8 stages, head metre 56-16, discharge LPM 65-205	Each	2
34	Fountain for Kothi Teerth	Each	1
35	Fountain for Sikhar Darshan	Each	1

Annexure O-1

EMERGENCY ENTRY EXIT PROJECT			
S.N.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**
1	CrusherRunMacadam-Providing &layingcrushed stoneaggregate,onapreparedsurface,spreadingandmixingwithamotorgrader,wateringandcompactingwithavibratoryrollerasperclause407ofthe specifications. For 53 mm maximum size	CUM	224
2	Centering and shuttering including strutting, propping stretching etc. complete for and removal of form work by sheet plate or ply wood shuttering for :	SQM	445
	Foundations, footings, bases of columns, etc. For mass concrete.		
3	Centering and shuttering including strutting, propping stretching etc. complete for and removal of form work by sheet plate or ply wood shuttering for :	SQM	2782
	Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc		
4	Centering and shuttering including strutting, propping stretching etc. complete for and removal of form work by sheet plate or ply wood shuttering for :	SQM	992
	Columns, Pillars, Piers, Abutments, Posts and Struts.		
7	Suspended floors, roofs, landings, balconies and access platform.with water proof ply 12mm thick (As per Revised Drawing Running Bill quantity)	SQM	1415
8	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	SQM	1236
9	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : Cement concrete grade M-15 (Nominal Mix) with 20 mm	CUM	815
10	Brick work with chimeny brick of class designation 40in superstructure above plinth level upto floor 2 level including the cost of scaffolding in : Cement mortar 1:4 (1 cement : 4 coarse sand)	CUM	172

11	Providing and laying integral cement based treatment for water proofing on horizontal surface at all depth below ground level for under ground structures as directed by Engineer-in-Charge and consisting of : (i)Ist layer of 22mm to 25mm thick Kota rough stone slab over a 25mm thick base of cement mortar 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound conforming to IS:2645 in the recommended proportion over the leveling course (leveling course to be paid separately). Joints sealed and grouted with cement slurry mixed with water proofing compound. (ii)2nd layer of 25mm thick cement mortar 1:3 (1 cement: 3 coarse sand) mixed with water proofing compound in ecommended proportions. (iii)Finishing top with stone aggregate of 10mm to 12mm nominal size spreading @ 8 cudm/sqm thoroughly embedded in the 2nd layer. (with 5 years guarantee)	SQM	1599
12	Providing and laying integral cement based treatment for water proofing on the vertical surface by fixing rought kota specified stone slab 22 mm to 25mm thick with cement slurry mixed with water proofing compound conforming to IS:2645 in recommended proportions with a gap of 20mm (minimum) between stone slabs and the receiving surfaces and filling the gaps with neat cement slurry mixed with water proofing compound and finishing the exterior of stone slab with cement mortar 1:3 (1 cement : 3 coarse sand) 20mm thick with neat cement punning mixed with water proofing compound in recommended proportion complete at all levels and as directed by Engineer-in-charge : (with 5 year Service guarantee).	SQM	345

13	Providing and laying in position machine batched and machine mixedand machine vibrated design mix cement concrete of M-25 grade mixed in a concrete mixer of not less than 0.2 cum capacity and approporiate weigh batcher using approved mix design, for reinforced cement concrete work including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement. including Admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-incharge.(As per Revised Drawing Running Bill quantity)		
	Upto plinth Level	CUM	1210
	Above Plinth upto floor 2 level	CUM	650
14	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding upto floor level including cost of binding wire, wastage and over laps upto 12mm horizontal/ inclined position of reinforcement bars in slab and beams, plinth, chajjas, lintels, upto 4.5m vertical length of reinforcement in wall columns (over laps shall be provided as per requirement of IS : 13920; IS 456 & SP :34) etc. complete.		
	Thermo-Mechanically Treated bars. (Fe 500 D or more)	KG	133569
15	Steel work in built up M.S. tubular section (round, square or rectangular Hollow tube etc.) trusses/frame work etc./ railing work etc. including cutting, hoisting fixing in position and applying a priming coat of approved steel primer, welded and bolted including special shaped washers etc. complete.		
	Hot finished welded type tubes.	KG	11448

16	Providing and fixing of Glass Fiber Reinforced Concrete (GFRC) material in approved size, pattern, Design, thickness and color: Providing and fixing of Glass Fiber Reinforced Concrete (GFRC) material in approved size, pattern, Design, thickness and color. Glass Fibres: The mix shall contain powermix machine cut and mixed glass fibres content of 3 to 5 % by weight of mix. Alkali resistant, with a minimum zirconia content of 16 percent, 25 to 50 mm long, specifically produced for use in GRC is to be done with white cement of grade-53 or higher should be made manufactured by JK Cement / Birla cement, Quartz, Fine Silica Sand, Alkali Resistant Glass Fiber manufactured by Sant Gobain, Nippon or Owens corning or equivalent to be used, super plasticizers and polymers manufactured by BASF, Sika, MYK Schomburg or equivalent. The material casting should take place in Syn thetic Rubber | FRP Mould. Compressive strength of 35-55 N/mm2.The Fixing of Jaali should be Dry Fixing i.e. to be done with GIFastners, dash fasteners, Self screw and pins on RCC Columns or M. S. Fabrication work as specified etc. complete. Item includes all materials, labour, necessary tools & plants, required scaffolding, shuttering, transportation, all loading & unloading, all specified hardware for fixing the		
		SQM	605
17	Removal of rust, existing coatings, mill scale, dirt, oil, grease, and other contaminants from steel sections/stone surface using Micro sand with the help of pressure pump.		
		SQM	1422
18	Granite work gang saw cut (polished and machine cut) of thickness 18mm for wall lining (veneer work), backing filled with a grout of average 12 mm thick in cement mortar 1:3 (1 cement : 3 sand) including pointing with white cement mortar 1:2 (1 white cement : 2 marble dust) with an admixture of pigment to match the marble shade: (To be secured to the backing by means of cramps, which shall be paid for separately).		
	Area of Slab Over 0.50 Sqm		
19	Fine granite dark Black/dark Red/ White with self design/ pattern/ crystals of other colors of glitter. Area of slab upto 0.50 Sqm		
		SQM	5

20	Fixing glazed/ Ceramic/ Vitrified floor tiles with cement based high polymer modified quick-set tile adhesive (Water based) conforming to IS: 15477 , using 5kg. adhesive per sqm of tile area, in average 3mm thickness with fixing material		
		SQM	5
21	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations: (a) Applying a slurry coat of neat cement using 2.75 kg/sqm. of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300mm height including cleaning the surface before treatment. (b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs (c) After		
		SQM	188
22	Providing, Laying & Jointing of DWC (double wall corrugated) PE Pipes of renowned duly tested inclusive of all cost of inspection charges, transpotation charges, transit insuranse, loading/ unloading and stacking at site/ store etc, complete.		
	200mm / 238 mm	Meter	137
	300 mm / 345 mm	Meter	260
	400 mm / 480 mm	Meter	313
23	6 mm cement plaster of mix : 1:3 (1 cement: 3 fine sand)		
		SQM	1116

24	15mmcementplasteronroughsideofsingleor halfbrickwallfinishedwithafloatingcoatofneat cement of mix : 1:4 (1 cement : 4 sand)		
		SQM	1368
25	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling		
	12.5 mm thick tapered edge gypsum board		
	Gypsum moisture resistant board.	SQM	1435

26	Providing and FixingofskylightsconsistingofMulticell/tightcell PolycarbonatePanelSystemofapprovedcolour,16mmthick (minimum)havinguniformincolorwithanintegralTight-Cellcore constructednottoexceed4mmx4mminacrosssection,Vertical StandingSeammanufacturedatbothsidesofthepanel.Snap-on connectortointerlockthepanelsshallhaveagrip-lockdoubletooth lockingmechanismtoensuremaximumupliftcapability andshallbe ofsamecolorasthatofpanel. Panelshallbefactorysealed/end weldedpanelswithadditionalEnd-cap/AluminiumU-Profile(mill finish)forends.Panelshallbeco-		
		Sqm	137
27	Providing and laying water proofing treatment on roofs of slabs by applying cement slurry mixed with water proofing cement compound consisting of applying: (a) after surface preparation, first layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. (b) laying second layer of Fibre glass cloth when the first layer is still green. Overlaps of joints of fibre cloth should not be less than 10 cm. (c) third layer of 1.5 mm thickness consisting of slurry of cement @ 1.289 kg/sqm mixed with water proofing cement compound @ 0.670 kg/sqm and coarse sand @1.289 kg/sqm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken upto 30cm on parapet wall and tucked into groove in parapet all around.		
		Sqm	1201

28	Providing and laying gang saw cut 18 mm thick, mirror polished premoulded (wherever required) and pre polished machine cut granite stonework in flooring of required size shape of approved shade, color and texture in flooring laid over 20 mm thick base of cement mortar 1:4 (1 Cement: 4 sand) including grouting the joints with white cement mixed with matching pigments epoxy touch ups etc. complete as per direction of Engineer-in-Charge.		
	Coarse grained granite light Black/light Red/ off White or equivalent with self design/ pattern/crystals of other colors of glitter		
		Sqm	2589
29	Providing & fixing of cast iron & ms fabricated decorative ornamental grill , partition, gates, railing, arches, brackets, benches, customised items & crown etc. as per drawings of make Dwarka India / Puja Industries / Gopi Intercast. instructions and Specifications- 1 - Cast iron material must follow FG-150 grade(as per isi specification) having hardness 135 to 165 BHN. 2 - Colour finishing - all parts must be first sand blasted or shot blasted to expose the metal surface than use epoxy primer for prevent the rust after than use again epoxy top coat for extra metal look in require antique shed with top coating of UV base clear lacquer to protect colour from UV rays i/c. cutting and fixing of members by nut bolts, welding with Co2 / M.IG, grinding, smmoth finishing, transportation, labour, tools and plants etc. complete as per direction of Engineer-in-charge. 3 - All cast iron parts must have thickness of 22 to 30 mm (as per drawings), assembaled with 50x50 ms pipe & 25x25 square bar as required as per design & gate's having sliding arangements for opening and closing and it must be fitted with crown. & welded with co2/mig welding process & fully grinded for best finish.		
		Kg	15735
30	Fine grained granite dark Black/dark Red/ White or equivalent with self design/ pattern/crystals of other colors of glitter		
		Sqm	16
31	Add extra for polishing on granite work		
	Leather Finish Polish	Sqm	2690

32	Extra forprovidingfulledgemouldingto16mmthickmarblesto ne counters,Vanitiesetc. Including machinepolishingtoedgetogive highglossfinishetc. Complete asper design approved by Engineer-in-Charge.		
	Granite Work	Sqm	2321
33	Filling by available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.		
		Sqm	399
34	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :		
	Cement concrete grade M-10 (Nominal Mix) with 40 mm maximum size of stone aggregate	Sqm	208
35	Providing and laying digital print random design(PGVT)/(GVT) vitrified tiles in different sizes with water absorption less than 0.05% and conforming to IS:15622 of approved make in all colours& shades, 1st quality / premium in skirting, riser laid our 12mm thick cement mortar 113 including grouting the joints with white cement and matching pigments etc. complete		
	Size 600X1200 mm thickness 11-12mm	Sqm	63
36	Providing and fixing aluminium work for doors, windows,ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make		
	For flx Portion	Kg	11
	Powder coated aluminium (minimum thickness of powder coating 50 micron)		
37	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of PVC / neoprene gasket		
	Polyester powder coated aluminium (minimum	Kg	401
38	Providing and fixing glazing in aluminium door, window,ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in- charge (Cost of aluminium snap beading shall be paid in basic item):		
	With float glass panes of 5.50 mm thickness	Sqm	55

39	40 mm thick machine rubbed stone flooring over 20 mm (average) thick base of cement mortar 1:5 (1 cement :5 coarse sand) with joints 3mm thick, side buttered with cement mortar 1:2 (1 cement : 2 sand) admixed with pigment to match the shade of stone and pointing with same mortar.		
	Red sand stone	Sqm	147
40	Vitrified floor tiles full body skirting, riser. Providing and laying vitrified floor-tiles Full Body Design Homogenous Body matt/rustic finish in different size with water absorption less than 0.05% and conforming to IS:15622 of approved make in all colours& shades, 1st quality/ premium quality in skirting, riser laid on 12mm thick cement mortar 1:4(1cement :4sand) including grouting the joints with white cement and matching pigments etc. complete		
	Light Colour, In light colour and shades as ivory, beige blanco, grey etc.		
	(b) Size 600X600mm thickness 9-10mm	Sqm	100
41	Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters using following hinges.		
	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	Sqm	30
42	Providing & Fixing decorative high pressure laminated sheet of plain / wood grain in gloss / matt / suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S including cost of adhesive of approved quality.		
	1.0 mm thick	Sqm	30

43	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M-30 grade reflective type rubber modulded glossy colour paving block made by block making machine with strong vibratory compaction and of approved size and shape laid in required colour and pattern over and including 50mm thick compacted bed of stone dust/sand filling the joints with sand etc. all complete as per the direction of Engineer in charge including locking edges wherever required with cement concrete M15 grade or cement mortor 1:3 with pigment of required shade to match the colour /shade of block including cost of labour, material , etc. all complete.		
		Sqm	592
44	Providing and fixing mineral fibre false ceiling tiles at all heights of size 595X595mm of approved texture, design and pattern. The tiles should have Humidity Resistance (RH) of 99%, Light Reflectance > 85%, Thermal Conductivity k = 0.052 - 0.057 w/m K, Fire Performance as per (BS 476 pt - 6 &7)in true horizontal level suspended on interlocking T- Grid of hot dipped all round galvanized iron section of 0.33 mm thick (galvanized @120 gsm) comprising of main T runners of 15x32 mm of length 3000 mm, cross T of size 15x32mm of length 1200 mm and secondary intermediate cross T of size 15x32 mm of length 600 mm to form grid module of size 600x600 mm suspended from ceiling using galvanized mild steel item (galvanised@80gsm) 50 mm long 8mm outer diameter M-6 dash fasteners, 6 mm diameter fully threaded hanger rod up to 1000 mm length and L-shape level adjuster of size 85x25x2 mm, spaced at 1200 mm centre to centre along main 'T'. The system should rest on periphery walls /partitions with the help of GI perimeter wall angle of size24x24X3000 mm made of 0.40 mm thick sheet, to be fixed to the wall with help of plastic rawl plug at 450 mm centre to centre & 40 mm long dry wall S.S. screws. The exposed bottom portion of all T-		
	With 16 mm thick beveled tegular mineral fibre false ceiling tile (NRC 0.55 to 0.6		
		Sqm	147

45	Providing and fixing 16mm thick gang saw cut mirror polished premoulded and prepolished machine cut Granite of approved shade, colour and texture of Granite Door frame. in cement mortar 1:3 (1 cement :3 sand) including pointing with an admixture of pigment to match the shade including fixing of granite stone door frame with epoxy resin based adhesive including secured to the backing by means of cramps, drilling of hole with rawl plugs and screws 75mm long cleaning etc. complete. Including rubbing, curing, moulding and polishing edges to give high glossy finish and drilling of hole for fixing stainless steel hings, aldrop, towerboltetc complete at all levels as per instruction of Engineer-in-Charge.		
	Granite Door frame for 200mm thick wall Thickness.		
		Meter	84
46	Stone Cladding work for elevation		
	Stone cladding work in Bansi Pahadpur pink stone, Best Quality Stone, as approved by Engineer-in-charge and consultant, with specific design and as per drawings upto any height,with necessary scaffolding / centering etc. as provided in tender document and as per requirement of items and measurement from site. Stone Carving depth 15mm to 30 mm varies as per design including sunk and moulding works. Other moulding, grooves, cornices, sculpture, etc. work as per drawings, backing filled with grout of cement mortar 1:3(1 cement : 3 sand) minimum 12mm thick, including pointing in white cement mortar 1:2 (1 cement : 2 marble dust) with an admixture of pigment matching the stone shade, to be secured to backing by means of Stainless Steel cramps/anchor/fastner of required size and shape anchoring stone wall linning to the backing or securing adjacent stone in stone wall linning in cement mortar 1:2(1 cement : 2 sand) including making necessary chases in stone and holes in wall/RCC where ever required including epoxy (Araldite etc.) wherever required.		
47	COLUMN WORK, stone thickness 40mm to 150 mm , design as per attached drawings.		
		Sqm	62
48	JHAROKHA, stone thickness 50 mm to 450 mm , design as per attached drawings.		

		Nos.	2
49	**BRACKET** (Average thickness of stone 200mm, design as per attached drawings)		
	BR 01		
		Sqm	10
50	RAILING (150mm thick stone one side carved as per attached picture design)		
		Sqm	0
51	Hand Carving, Only Carving work as per drawing design and as per instruction of enginee in charge and consultant on Bansi Pahadpur pink stone (Carving Depth Varies 10 mm to 30 mm) (cost of stone is paid seperately)		
		Sqm	89
52	Providing and fixing 16mm thick gang saw cut mirror polished premoulded and prepolished) machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edge to give high gloss finish etc. complete at all levels.		
	Granite of any colour and shade		
	Area of slab over 0.50 sqm.		
		Sqm	50
53	Kota stone 25mm thick flooring over 20mm (average)thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete with base of 1:4 cement mortar(1cement:4 coursesand) (minimum size of kota stone 2.0 sqft)		
		Sqm	205

54	Providingandfixingstainlesssteel(Grade304)railingmadeof Hollowtubes,channels, platesetc.includingwelding,grinding, buffing,polishingandmakingcurvature (whereverrequired)and fittingthesamewithnecessarystainlesssteelnutsandbolts completei/cfixingtherailingwithnecessaryaccessoriesandstainless steel dash fasteners, stainlesssteelboltsetc.,ofrequiredsize,on thetopofthefloororthesideofwaistslabwith suitable arrangementasperapprovalofEngineer-in-charge.(for paymentpurposeonly weightofstainlesssteel members shallbe consideredexcludingfixingaccessoriessuchas nuts, bolts,fasteners etc.)		
		Kg	236
55	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete:		
		Kg	2159
56	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS 13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required :		
	Kitchen sink with drain board		
	510x1040 mm bowl depth 250mm.		
		Nos	1
57	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion.(i) Single socketed pipes.		
	75mm diameter		
		Nos	78
	110mm diameter		
		Nos	78

58	Providing and fixing white vitreous china European Wall hung Anti germ Fluoro-Polymer Coated water closet of approved shape with soft closing seat cover, and 7.2 litre Low level slim dual flushing. PP (Poly Propylene) made 80 mm thick concealed flushing cistern, flushing capacity 3 litre/6 litre, with all fittings and fixtures complete including cutting and making good the wall and floors wherever required.		
	Anti germ Fluoro-Polymer Coated (Nano coating) Wall hung water closet size 360 x 570 x 360mm with solid poly propelyne made, soft closing seat cover (Premium Range)		
		Each	4
59	Providing and fixing PTMT grating of approved quality and colour.		
	Circular type.		
	125 mm nominal dia with 25 mm waste hole.		
		Each	8
60	Providing and fixing in position best Indian shower rose 150mm dia, body and face chrome plated, brass made body, Silicon based Rubbit cleaning nozzles.(Premium Range)		
		Each	4
61	Providing and fixing in position best Indian, quarter turn table mounted sink mixer (bonut size 24mm, ceramic disc size 19mm and min. nickel plating0.10 micron and chrome plating 0.3 micron). (Premium Range)		
		Each	4
62	Stone work(machine cut edges) for wall lining etc. (veneer work) up to any height backing filled with a grout of 12mm thick cement mortar 1:3 (1 cement:3 sand) including pointing in white cement mortar 1:2 (1white cement :2 marble dust)with an admixture of pigment matching the stone shade : (To be secured to the backing by means of clamps which shall be paid for separately)		
	White sand stone - Exposed face machine cut and table rubbed with rough backing.		
	40mm Thk		
		Sqm	150.842

63	providing and fixing stainless steel cramps of required size and shape for anchoring stone wall lining in cement mortar 1:2 (1 cement : 2 sand) including making the necessary chases in stone and holes in walls wherever required		
		Kg	114.000
	Wheatheric protection layer on plain stone		
64	Plain stone work should have coated in two or more coat of clear lacquar of pidilite / k2 / Nippon make.The process of coating should be followed : (i) cleaning of stone , (ii) Rubbing and polishing of stone, (iii) first coat of clear lacquar and after drying of this coat second coat of clear lacquar shall be applied.All this coating of clear lacquar shall be done with spray paint machine. All work shall be done in satisfactory manner and as per instructions of engineer in charge and consultant.		
		Sqm	212.875
65	Finishing walls with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications		
		Sqm	1368.260
66	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge. External work		
	32 mm dia		
		Rmt	67.000
	50 mm dia		
		Rmt	67.000
67	Centering and shuttering including strutting, propping stretching etc. complete for and removal of form work by sheet plate or ply wood shuttering for :		
	Stairs (Excluding landing) except spiral stair case	Sqm	86.000

68	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing :		
	Rectangular shape 453x357mm	Each	3.000
69	Providing and fixing in position best Indian C. P. Brass made (0.3 micron Chrome and 10 micron Nickel plated) Soap Dispenser with Metallic Bottle. (Premium Range)		
	Soap dispenser	Each	3.000
70	Providing and fixing in position best Indian C. P. Brass made (0.3 micron Chrome and 10 micron Nickel plated) Single Towel Rail 600 mm long. (Premium Range)		
	Towel rail 600 mm	Each	3.000
71	Providing and fixing in position best Indian C. P. Brass made (0.3 micron Chrome and 10 micron Nickel plated) Toilet paper holder with Flap. (Premium Range)		
	Toilet paper holder	Each	3.000
72	Providing and fixing in position best Indian C. P. Brass made (0.3 micron Chrome and 10 micron Nickel plated) Soap Dish Holder. (Premium Range)		
	Soap dish holder	Each	3.000
73	3 seat Sofa	Nos.	4.000
74	2 seat Sofa	Nos.	2.000
75	Single Seater Sofa	Nos.	8.000
76	Chair/Single Seater Sofa	Nos.	6.000
77	Centre Table for 3 seater sofa	Nos.	4.000
78	Centre Table for 2 seater sofa	Nos.	4.000

79	Carpet/rugs for front room	Nos.	3.000
80	Carpet/rugs for Rear room	Nos.	3.000
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101	Wash Basin	Nos.	4.000
102	Hand Faucet	Nos.	4.000
103	Wall Mixer	Nos.	4.000
104	Bib Cock	Nos.	4.000
105	Pillar cock	Nos.	4.000
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45	Filter Plant Kothi tirth kund (self priming)	
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Annexure P-2

S.No	Location	Tube Light White	Warb White	LED Light Sqare	LED Lamp 50W	LED Light Round	COB	F.Light 100W	F.Light 150W	F. Light 200W	Jhoomer Light	Wall Fan	Fan	Exjust Fan	Cooler	Jamo Cooler	AC
1	Vishram Dham	62											31	23	0	2	
2	Vishram Dham to sabhamer	16															
3	marbhal Galiyara	41											26				
4	Sabhamadpam	5	10				18	4			41		20		1	2	
5	KotiThrith	6							3								
6	Suryamukhi								4	1							
7	Musium			15									9		1	2	
8	Nigam Ramp (Nandi Hall)	28											10			1	
9	Nandi Hall	10				10				6						1	
10	GarbhaGrah			28					1				2	1			
11	Abhishek Isthal	9											4			3	
12	Ganesh Mandapam	20											9			1	
13	Nagada Gate	4											1				
14	Tanal New Shade Parisar		54						7		50		29				
15	Kartik Manpam	28											11			1	
16	Kartik Manpam Ramp	13											2				
17	Facility to Tanal 01	33		39									32				
18	VFC Zig Zag	27											12			1	
19	Toilet	12											3	4			
20	Water Cooler k Pass	32											12			1	
21	Mahakal Control Room	12										1	6				5
22	Control Room Ramp	18		3									2				
23	Gate NO 1	6										1					
24	Locker Room 1 NO	3											2			1	
25	Lekha shakha	10											8		2		1
26	Niman Shakha	2											1		1		
27	Audit Shakha	4											3				1
28	Purana Store	4											4				
29	Lekha shakha Strrier	7											1				
30	Central R O Plant	2											1		1		
31	Tanal Chhat	12			2								10			2	
32	Kother OutSide	6											3		2		
33	Kother																
34	Green Room No.01					9							3	1			2
35	Green Room No.02					9							3	1			2
36	Green Room No.03					9							3	1			1
37	Newdya Room															1	
38	Green Room OutSide					13							6				
39	Stemies					62							6				
40	New Abhishek esthal			125									56	6			
41	Toilet			20													
42	EEE					165			1				58				
43	Ro Plant Bada Ganesh	7											2				
44	Help Dask Gate No. 04	2											1		1		
45	250 Ticket Counter Gate No	2											2		1		
46	250 Ticket Counter Informt	2											1		1		
47	250 Ticket Counter Informt I	2											1		1		
48	Vishram Dham Entry Point	5														1	
49	Shikhar Dhrshan Entry Point					33							4				
50	Annketra Copun Counter	2											1		1		
51	Daan Counter	3											1		1		
52																	
	Total	548	69	255	2	345	18	21	26	7	91	12	458	42	18	24	16

Annexure Q-1

Mahakal Temple Electrical Asset List			
Sr. No.	Item Description	Unit	Installed Qty.
1	Supply, Installation, testing and Commissioning of 18W-25W Uplighter with system efficacy of 100Lumen/Watt with Housing material made of pressure die cast Aluminium/stainless steel ring housing. Luminaire should have surface mounted option. Min IP66, IK06 protection Luminaire Connections Integral male/female waterproof connectors. Fixture shall equip with mechanical impact of minimum IK06. Fixture should be provided with Five years warranty with System life of minimum 50,000hrs.P.F. >=0.95 and THD <=15%. Luminaire should be available with option of CCT-5700deg K/4000deg K/3000degK/2400k and beam angles 10-20deg/30-40 deg.	No's	370
2	Supply, Installation, testing and Commissioning of IP66 Linear 40W-50W RGBW grazer, 1000-1200mm length. Fixture housing should be made of Extruded Aluminium body with corrosion resistance powder coating Luminaire should be available with option of CCT-5700deg K/4000deg K/3000degK/2400k and beam angle of 20-30deg/50-60deg Min IP66 ingress & IK06 Protection for, Minimum Lumens > 1200Lm The Fixture is Provided with DMX driver. Fixture should be available with Five Years warranty, System Life class 50,000 hrs. PF>0.9 and THD <=10%	No's	48
3	Supplying, Installation, testing and Commissioning of IP66 Linear 20W-30W grazer, 500-600 mm. Fixture Housing should be made of Extruded Aluminium body with corrosion resistance powder coating. Luminaire should be available with option of CCT-5700deg K/4000deg K/3C00degK/2400k and beam angle of 20-30/40-50/60-70 deg beam angles. Min IP66 & IK06 Protection for Fixture. Minimum System Lumens > 1600 Lumen @3000K. Fixture should be available with Five Years warranty, System Life class 50,000 hrs.PF >=0.9 and THD <=10%.	No's	24
4	Supply, Installation, testing and Commissioning of IP66 Linear 35W-45W grazer 1200 mm, Fixture housing should be made of Extruded Aluminium body with corrosion resistance powder coating .Luminaire should be available with option of CCT-5700deg K/4000deg K/3000degK/2400k and beam angle of 20-30/50-60 deg .Min IP66 & IK06 Protection for Fixture. System Lumens >3000 Lumens @ 3000K.Fixture should be available with Five Years warranty. System Life class 50,000 hrs.PF >=0.9 and THD <=10%.	No's	20
5	Supply, Installation, testing and Commissioning of LED Flood light 160-200 W mono colors with pressure die-cast Aluminium housing, with Min IP66 & IK06 level protection. Minimum system lumen output should be >9000Lumens @3000K for reference beam angle25-30deg.Light Colors 5700degK/4000degK/3000degK/2400K, light beam angles, 10deg /30 deg/40 deg. Luminaire Connections Integral male/female. Fixture should be available with Five Years warranty, System Life class 50,000 hrs.PF >=0.9 and THD <=10%.	No's	8
6	Supply, Installation, testing and Commissioning of LED Flood light 270-300 W RGBW with pressure die-cast Aluminium housing, System lumens minimum >11000Lumens. Min IP66 & IK06 level protection. Luminaire Connections Integral male/female. Fixture should be available with Five Years warranty, System Life class 50,000 hrs.PF >=0.9 and THD <=10%. Luminaire should have options of beam angles of 5°-8°/10°-15°/20°-25°/40°-45°/60°-65° deg.	No's	34
7	Supply, Installation, testing and Commissioning of LED Flood light 90-110 W with mono colors with pressure die-cast Aluminium housing, with Min IP66 & IK06 level protection. Light Colors 5700degK/4000degK/3000degK/2400K, light beam angles, 10deg /30 deg/40 deg. Luminaire Connections Integral male/female. Fixture should be available with Five Years warranty, System Life class 50,000 hrs.PF >=0.9 and THD <=10%.	No's	18

8	Supply, Installation, testing and Commissioning of LED flexible IP66, 24V DC power based LED strip light with required Aluminium housing and diffuser. Minimum of 10w to 15w per meter of led strip and appropriate IP66 outdoor type led driver to be used to drive the led strip. Housing of profile should be made of aluminium. Minimum lumen package should be 90Lumens per watt and above for led flexible strip light. Min IP66 Ingress Protection for flexible strip and IP67 for Driver. External IP66 Silicon Potted driver for ensuring better reliability and safety. Light Colors 4000 deg K/3000 deg K.PF >=0.9 and THD <=10%.	No's	470
9	SITC of IP 54 AC LIGHTING PANEL indoor type, wall mounted, double door with lockable arrangement, off white color, LED indicating lamps for incomer: I/c. 32A 4P MCCB (25kA) - 1no. 32A 4P contactor, 24hrs. Timer, O/G: 10A 3P MCB (9kA) 5 nos. (Including 1 no. spare). One voltage stabilizer/power safe of 130-240 volts range, surge protection device, power safe, provision for keeping DMX controller, including minimum three earthing works incl.all accessories.	No's	1
10	Supply, Installation, Testing and Commissioning of DMX Controller Input Power DC 12-24V input, 100-240V, 24VDC plug-in power adaptor included Power supply. Housing is made of Polycarbonate, Surface mount or DIN-rail mountable,), Output Six 3-pin terminal sockets Connections Two piece compression screw terminals IP20, Interior applications, Protection Rating	No's	2
11	Supply, Installation, Testing and Commissioning of controller with Single DMX ports control up to 340 light addresses/DALI (Digital Addressable Lighting Interface) lighting protocol with scene Programming and Installation and Circuit Modules, Works as a stand-alone or computer driven controller, Secure Digital (SD) card drive for flexible show storage, USB 2.0 interface for downloading shows and configuring from attached PC or Mac, Simple installation and wiring is required, Flexible, adaptable mounting options are expected, Should be provided with light show authoring software, Direct line voltage power supports 100 - 240 VAC Six configurable effects	No's	2
12	P/Laying P.V.C. / XLPE insulated & P.V.C. sheathed suitable unarmored cable of 1.1 KV grade with Copper conductor of IS: 1554 P-I / IS:7098 PI of Group 1 of approved make including laying on surface in pvc conduit pipe by means of screws. Rag bolts, MSU clamps, as per approved spacing., making necessary connection, testing etc. as required of size from each light to panel for supply purpose 1.5 sq mm 3 core	meter	2000
13	Supply of XLPE insulated power cable (Conforming IS 7098) 1100 Volt Grade/Heavy Duty Power Cable conforming to IS 1554 1100 V grade, 2 Core/3.5 Core/4 Core ISI Marked with Aluminum Stranded/Solid conductor		
14	ARMOURED 4 CORE X 10 SQ MM	meter	1500
15	ARMOURED 4 CORE X 16 SQ MM	meter	1000
16	Supplying and drawing 4 pair shielded, 0.5 mm PVC.Insulated copper conductor un-armored Cat-6 computer cable FR in existing surface / concealed, steel / PVC. Conduit/Casing-N-Capping as required.	meter	3000
17	Supplying and erecting earth pit of minimum bore dia 150 mm size, approved make safe earthing electrode consisting pipe in pipe technology as per IS 3043-1987 made of corrosion free GI pipes having outer pipe dia of 50 mm having 80-200 micron galvanizing, inner pipe dia of 25 mm having 20-250 micron galvanizing, connection terminal dia of 12 mm with constant OHMIC value surrounded by highly conductive compound with high charge dissipation suitable for effective and maintence free earthing. With 3 mtr. Pipe in normal soil with 50 kg (two bag) back filling compound	No's	14

18	Supply, Testing & Commissioning of 25KVA Servo stabilizer Air Cooled Outdoor type in an enclosure as per specs below. The output voltage shall be maintained at 415V, 3 Phase, 4 Wire with applicable tolerance as per IS. Three Phase Input and Three Phase Output Input Voltage: 360V-460V AC, Output Voltage: 415V AC with Over Voltage, Under voltage, Overcurrent, Earth fault, phase failure relays, Single phase preventer Surge protection device, with Under/Over voltage cut off, With overload protection, with short circuit protection, Input & Output 4P MCCB Manual bypass LCD Display & 98% Efficiency	No's	3
19	DMX cables with following specification RS-485, (1 pr) 24 AWG (7x32) TC, PE/PVC, Foil+TC Braid Shld, CM, 1200.One 24 AWG pair stranded (7x32) tinned copper conductors, polyethylene insulation, twisted pairs, overall Beldfoil® (100% coverage) + tinned copper braid shield (90% coverage), 24 AWG stranded tinned copper drain wire, PVC jacket.	Meter	3000
20	Supply, Installation, Testing and Commissioning of Ethernet Keypad	No's	4
21	Supply, Installation, Testing and Commissioning of Ethernet Switch 8/16	No's	2

Annexure R-1

Name of work :- Survey, Design, Widening & Reconstruction of Existing Selected Roads including Construction and Retrofitting of Utilities in Ujjain (Four Roads Package)			
Assets List			
Sr No	**Description**	**Unit**	**Quantity**
1	Centering and shuttering including strutting,proppings tretching etc. complete for and removalof formwork by sheetplate or plywood shuttering for	Cum	
	Foundations, footings, bases of columns, etc. For mass concrete.		
	Total Qty.		407.89
2	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering All work up to plinth level.	Cum.	
	Cement concrete grade M-10 (Nominal Mix) with 20 mm maximum size of stone aggregate		
	Total Qty.		414.29
3	Providing and laying in position machine batched and machine mixed and machine vibrated design mix cement concrete of M-25 grade mixed in a concrete mixer of not less than 0.2 cum capacity and approporiate weigh batcher using approved mix design, for reinforced cement concrete work including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement. including Admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge.	Cum.	
	Total Qty.		747.37
4	Providing and laying in position machine batched and machine mixed and machine vibrated design mix cement concrete of M-25 grade mixed in a concrete mixer of not less than 0.2 cum capacity and approporiate weigh batcher using approved mix design, for reinforced cement concrete work including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement. including Admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge.	Cum.	
	Total Qty.		13.82
5	Providing M-35 grade concrete instead of M-25 grade BMC.	Cum.	
	Total Qty.		186.06

Sr No	Description	Unit	Quantity
6	Construction of Embankment/Sub grade/ earth shoulders, as per clause 305 & its sub-clauses, Where required but with approved materials/soil like morrum CBR value not less then 7% i/c all lead & lifts i/c excavation, cost of watering, compaction and maintenance of surface during construction to ensure shedding & preventing ponding of water (clause 305.3.6) shaping & dressing (clause 305.3.7), finishing etc. complete but excluding scarifying existing granular/bituminous road surface vide clause 305.6	CUM	
	Total Qty.		7086.86
7	Providing and laying of Filter media with granular materials/stone crushed aggregates satisfying the requirements laid down in clause 2504.2.2.of MORTH specifications to a thickness of not less than 600mm with smaller size towards the soil and bigger size towards the wall and provided over the entire surface behind abutment,wing wall and return wall to the full height compacted to a firm condition complete as per drawing and technical specification.	CUM	
	Total Qty.		210.00
8	Providing weep holes in Brick masonry/Plain/Reinforced concrete abutment, wing wall/return wall with 100 mm dia AC/PVC/HDPE pipe, extending through the full width of the structure with slope of 1V :20H towards drawing foce. Complete as per drawing and Technical specifications and as per clause 2706 of specifications.	meter	
	Total Qty.		328.53
9	Centering and shuttering including strutting,proppings tretching etc. complete for and removalof formwork by sheetplate or plywood shuttering for	Sqm	
	Walls(anythickness)includingattachedpilasters,butteresses,plinth and string courses etc		
	Total Qty.		1917.56
10	Centering and shuttering including strutting,proppings tretching etc. complete for and removalof formwork by sheetplate or plywood shuttering for	Sqm	
	Suspended floors, roofs, landings, balconies and access platform.		
	Total Qty.		288.93

Sr No	Description	Unit	Quantity
11	Centering and shuttering including strutting,proppings tretching etc. complete for and removalof formwork by sheetplate or plywood shuttering for	Sqm	
	Lintels, beams, plinth beams, girders, bressumers and cantilevers		
	Total Qty.		1372.35
12	Centering and shuttering including strutting, propping stretching etc.complete for and removal of form work by sheet plate or plywood shuttering for :	sqm	
	for Columns, Pillars, Piers, Abutments, Posts and Struts.		
	Total Qty.		64.00
13	Providing, Laying and Jointing non-pressure (NP4) RCC socket & spigot pipes with rubber gasket joint including testing of joints.	Meter	
	Total Qty.		216.00
14	Providing & fixing of precast reinforced cement concrete manhole cover and frame including cost of transporting at site and all material etc. complete 560 x 900 mm size extra heavy duty	Each	
	Total Qty.		2.00
15	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M-30 grade reflective type rubber modulded glossy colour paving block made by block making machine with strong vibratorycompactionandofapprovedsizeandshapelaidinrequired colourandpatternoverandincluding50mmthickcompactedbedofstone dust/sandfillingthejointswithsandetc.allcompleteasperthedirection ofEngineerinchargeincludinglockingedgeswhereverrequiredwith cementconcreteM15gradeorcementmortor1:3withpigmentof requiredshadetomatchthecolour/shadeofblockincludingcostof labour, material , etc. all complete.	KG	
	Total Qty.		2704.54
16	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding upto floor level including cost of binding wire, wastage and over laps upto 12mm horizontal/ inclined position of reinforcement bars in slab and beams, plinth, chajjas, lintels, upto 4.5m vertical length of reinforcement in wall columns (over laps shall be provided as per requirement of IS : 13920; IS 456 & SP : 34) etc. complete.	kg	
	Thermo-Mechanically Treated bars. (Fe 500 D or more)		
	Total Qty.		163291.85

Sr No	Description	Unit	Quantity
17	Crusher Run Macadam- Providing & laying crushed stone aggregate, on a prepared surface, spreading and mixing with a motor grader, watering and compacting with a vibratory roller as per clause 407 of the specifications. (B) By Mixing Plant : i) For 53 mm maximum size	cum	
	Total Qty.		1194.01
18	Providing and laying in position machine batched and machine mixed and machine vibrated design mix cement concrete of M-25 grade mixed in a concrete mixer of not less than 0.2 cum capacity and approporiate weigh batcher using approved mix design, for reinforced cement concrete work including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement. including Admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge.	cum	
	Total Qty.		27.54
19	Providing and laying Plain/Reinforced cement concrete in sub-structure as per drawing and technical specifications and as per relevant clauses of sections 1500, 1700 & 2200	cum	
	Total Qty.		262.47
20	Construction of Dry lean cement concrete Sub-base over a prepared sub grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 26.5mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per MORTH Specifications Table 600-1, cement content not to be less than 150 kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with paver with electronic sensor/mechanical paver, compacting with 8-10 tonnes vibratory roller, finishing and curing and as per relevant clauses of section- 601.	cum	
	Total Qty.		599.07
21	40 mm thick fine dressed stone flooring over 20mm (average) thick base of cement mortar 1:3(1cement:3 coarse sand) with joints finished flush with cement mortar 1:3. Red sand stone	cum	
	Total Qty.		295.76

Sr No	Description	Unit	Quantity
22	Construction of dowel jointed, plain cement concrete pavement in M-40 grade concrete over a prepared sub base with 43 or higher grade cement, coarse and fine agreegate conforming to IS:383 maximum size of coarse aggregate not exceeding 25 mm, mixed in a batching and mixing plant as per approved mix design, transported to site, laid with a fixed form or slip form paver with electronic sensor, spread, compacted and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealant, debonding strip, placing of dowel bar and tie rod, admixtures as approved, curing compound, finishing to lines and grades as per approved drawings as per IRC-15 2011 and as per relevant clauses of section-602 of of MORTH specifications complete but excluding cost of steel in dowel bar & tie rod etc..	cum	
	Total Qty.		1402.50
23	Add extra in Item No.- 6.3 & 6.5 above for the cost of stell in dowel bar and tie rod etc. required as per design.	MT	
	Mild Steel dowel bars (0.500mtr long, 32 mm dia, 300mm c/c)		
	Total Qty.		15.12
24	Add extra in Item No.- 6.3 & 6.5 above for the cost of stell in dowel bar and tie rod etc. required as per design.	MT	
	Tor steel tie rod		
	Total Qty.		1.06
25	Providing, laying, jointing & testing of following P.V.C. pipes with solvent cement joint for 6, 8 and 10 kg/ sq. cm. pressures including testing of joints, cost of jointing materials etc. com plete in all respect.		
	110 mm dia.	meter	
	TOTAL		230.00
26	160 mm dia.	meter	
	TOTAL		310.00
27	Providing and laying in position following PVC bends suitable for 6, 8 and 10 Kg/Sq. cm. pressure pipes.		
	160 mm dia.	nos	
	TOTAL		17.00
28	Providing and laying in position following PVC Tees, suitable for 6, 8 and 10 Kg/Sqcm. Pressure pipes.		

Sr No	Description	Unit	Quantity
	110 mm dia.	nos	
	TOTAL		4.00
29	160 mm dia.	nos	
	TOTAL		3.00
30	Providing and laying in position following PVC end Cap (plugs) suitable for 6, 8 and 10 Kg/Sq cm. Pressure pipes.		
	110 mm dia.	nos	
	TOTAL		4.00
31	160 mm dia.	nos	
	TOTAL		3.00
32	Providing and laying in position PVC coupler suitable for 6, 8 and 10 Kg/Sq. cm. Pressure pipes.		
	110 mm dia.	nos	
	TOTAL		11.00
33	160 mm dia.	nos	
	TOTAL		13.00
34	Providing & fixing of Cast iron double flanged sluice valves as per I.S.:14846-2000 fitted with cast iron cap including jointing & testing with cost of jointing material such as bolts, nuts, rubber insertions etc. all complete		
	110 mm dia.	nos	
	TOTAL		1.00
35	150 mm dia.	nos	
	TOTAL		1.00
36	Providing and laying in position Cast Iron Flange spigot (Adopter).		
	110 mm dia.	nos	
	TOTAL		11.00
37	150 mm dia.	nos	
	TOTAL		11.00
38	Filling by available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m	CUM	
	TOTAL		272.71
39	Providing, fitting and fixing mild steel railing complete as per drawing and Technical Specification and as per relevant clauses of section 1900 and 2700.	Meter	

Sr No	Description	Unit	Quantity
	TOTAL		108.80
40	Brick work with chimeny brick of class designation 40 in superstructure above plinth level upto floor 2 level including the cost of scaffolding in :	cum	
	TOTAL		29.66
41	12 mm cement plaster of mix :	sqm	
	TOTAL		395.82
42	painting two coats on concrete surface after filling the surface with synthetic enamel paint in all shades as per relevant clauses of section-800&I.R.C.-67 including cost of paint etc. complete	sqm	
	TOTAL		133.65
43	Providingandapplying2.5mmincludingreflectorisingglassbeds@250 gmspersqmareathickroadmarkingstrips(retro-reflective)ofspecified shade/colourusinghotthermoplasticmaterialbyfully/semiautomatic thermoplasticpaintapplicatormachinefittedwithprofileshoe,glass beadsdispenser,propanetankheaterandprofileshoeheater,drivenby experiencedoperatoronroadsurfaceincludingcostofmaterial,labour,T&P,clean ingtheroadsurfaceofalldirt,seals,oil,greaseandforeignmaterialetc.completeas perdirectionofEngineer-in-chargeandasperclause803of MORTH.	sqm	
	TOTAL		137.97
44	Providing and fixing 16mm thick gang saw cut mirror polished premoulded and prepolished) machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edge to give high gloss finish etc. complete at all levels. Granite of any colour and shade	sqm	
	TOTAL		14.63
45	Boring. Providing and installing cast in situ single under reamed piles of specified diameter and length below pile cap in M 35 cement concrete, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and the length of the pile to be embedded in pile cap etc. all complete. (Length of pile for payment shall be measured upto to the bottom of pile cap) :	Meter	

Sr No	Description	Unit	Quantity
	400 mm dia piles		
	Total Qty.		1590.00
46	Stone tile work for wall lining upto 10 m height with special adhesive over 12mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) including pointing in white cement with an admixture of pigment to match the stone shade.	sqm	
	TOTAL		12.74
47	Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	kg	
	TOTAL		690.37
48	Steel work in built up M.S. tubular section (round, square or rectangular Hollow tube etc.) trusses/frame work etc./ railing work etc. including cutting, hoisting fixing in position and applying a priming coat of approved steel primer, welded and bolted including special shaped washers etc. complete.	kg	
	TOTAL		1145.77
49	Providing and fixing of name plate for offices name of Stainless steel plate 304 grade of 1.50mm thick, including writing with computerized vinayle sheet letters of required size including fixing at required placed with studs, screws and rawl plugs etc. compete as per direction of Engineer- in-Charge.	sqm	
	TOTAL		0.76
50	Providing and fixing stainless steel English (Capital) and Hindi letters in standard pattern bellow type made with 1.20 mm thick stainless steel (ASI Grade- 304) Depth of letter shall not be less than 30mm and rate includes welding/soldering of joints polishing, buffing and fixing on the wall, plate and beam surface at any height with necessary nut and bolts/fastener wherever is required complete as per direction of Engineer-in-Charge.	per letter per cm height	
	TOTAL		518.00
51	Boring, Providing and installing cast in situ single under reamed piles of specified diameter and length in M 20 cement concrete, excluding the cost of steel reinforcement but including the cost of boring, cement concrete, all complete. (Length of pile for payment shall be measured upto to the bottom of pile cap):	meter	

Sr No	Description	Unit	Quantity
	300 mm dia piles		
	TOTAL		131.40
52	Providing and laying Autoclaved Aerated Concrete (AAC) blocks masonary, using AAC blocks (Size length 300, 400, 500, 600 Height 200, 250, 300 Width 100, 150, 200, 250mm) conforming to IS 2185 PART-3, having compressive strength not less than 3 Mpa (Grade H) in super structure, blocks jointed with cement mortar 1:6 (1 cement : 6 sand) or with polymer modified cement mortar as per ASTM 1660-09, applied in uniform thickness of 2 to 3 mm in horizontal and verticals joints using special	cum	
	ACC Masonary in polymer modified mortar		
	TOTAL		22.48
53	Providing and fixing G.I. chain link fabric fencing of required width and mesh size including strengthening with 2mm dia wire or nuts, bolts and washers as required complete with posts of specified material and of standard design placed and embedded in cement concrete blocks 45x45x60cm of mix 1:5:10 (1cement :5 sand :10 graded stone aggregate 40mm nominal size) every 15th post, last but one end post and corner post shall be strutted on both sides and end post on one side only and struts embedded in cement concrete blocks 70x45x50cm of the same mix, as per the direction of Engineer- incharge. (Cost of post, painting, earthwork and CC to be paid separately)	SQM	
	TOTAL		37.30
54	Half brick masonry with of class designation 40 in super structure above plinth level up to floor 2 level including the cost of scaffolding.	SQM	
	TOTAL		10.70
55	White washing with lime to give an even shade: New work (three or more coats)	SQM	
	TOTAL		358.36
56	Finishing walls with Acrylic Smooth exterior paint of required shade:)New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm).	SQM	
	TOTAL		737.32

Sr No	Description	Unit	Quantity
57	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plane and brass threaded fitting i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall.	Meter	
	25 mm nominal outer dia .Pipes.		
	TOTAL		55.00
58	Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.	KG	
	TOTAL		2318.80
59	Providing and Ficing carbon steel galvanised dash fastener of 10 mm dia double threaded 6.8 grade(Yeild Strength 480 N/mm2), Counter sunk head, comprising of 10 mm dia polyamide PA6 grade sleeve, including drilling of hole in frame, concrete/masonary etc.as per direction of EnC	Each	
	TOTAL		1240.00
60	Solar powered Road Marker (Solar Stud) Supplying and fixing solar raised Pavement markers made of polycarbonate moded body with circular shape, solar powered, LED self illumination in active mode, 360 degree illumination and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face in passive mode. The marker shall support a load of 20000 kg tested in accordance to ASTM d 4280, The marker should be resistant to dust and water ingress according to IP 65 STANDARDS AND SHOULD WITHSTAND TEMPERATURES IN THE RANGE OF 0 C TO 70 C color of lighting could be provided in red or yellow (amber) as per requirement and typical frequency of blinking is 1Hz.	Each	
	TOTAL		200.00

Annexure R-2

Four Road Electrical Asset List			
Sr. No.	Description	Unit	Installed Total Qty
1	Supply, Installation, Testing and Commissioning of termination of Al. conductor, armoured, XLPE insulated, PVC sheathed, 1.1KV cable with double compression chrome plated brass cable gland and heavy duty tubular lugs of following size:		
2	4 Cx 6 Sq mm cable	Mtrs	1116
3	Supply, installation, testing and commissioning of outdoor type feeder pillar panels suitable for AC 440v, 50HZ supply, fabricated with 14 gauge galvanised steel sheet duly pre-treated and pure polyester thick powder coated and pure polyester thick powder coated 80 micron thickness using siemens grey colour shade no.RAL-7032/any other colour shade no.RAL-7032/Any other colour if required by cubical formation, compartmentalized in form with front open able doors. The door shall be provided with concealed hinges and with brazing wherever required to avoid deformation and shall be earthed. All the door shall have heavy duty door locks, and shall be sealed with neoprene gaskets. the feeder pillar shall be IP 55, outdoor type weather, dust and vermin proof having canopy type tapered roof self-standing type as per approved GA Diagram. Panels shall have lifting hooks and base channel of size 50x40x6 mm. The feeder pillar shall be complete with bus bars, wiring cabling of proper ratings (not less than 1.5 times the rating of respective switchgears, control gear etc.) for inter connection between switch gear, control gear, metering, safety relays, indicators etc. as per the approved single line diagram. the feeder pillar shall have proper arrangement for termination of all incoming and outgoing cables. all the bus bars shall be supported on epoxy supports and shall be insulated with colour coded heat shrinkable sleeves. Feeder pillar shall be as per the space available at site. It shall have earthing bolts at both sides inter connected with 50x5 mm al earthing bus along width of feeder pillar. NOTE :- The GA drawing for panel should be approved by consultant/ engineer in charge before fabrication. The feeder pillar shall have space and proper arrangements for installation of incoming and outgoing MCCBs with R,Y,B LED type indicating lamps. HRC fuse bases, MCBs etc. Complete with interconnection provisions with providing wiring and bus bars with required hardware,sleeves,ferrules,supporters,locks etc. Panel shall have proper space and arrangements for termination of incomer loop in loop out cables, outgoing service cables, with proper offsets in bus bars for cable terminations. The feeder pillar		
4	TYPE -B		
5			
6	Rating of incomer MCCB TPN 100A, 25 KA (Adjustable thermal O/L with Ics=100%Icu). Outgoings 32A 25KA SP MCCB 24Nos. & 25A 25KA SP MCCB 24Nos. Note: The width of feeder pillar should be as minimum as possible, preferably not more than 800mm		5
7	Supplying and installing double wall corrugated pipes (DWC) of HDPE (IS 14930 Part-I marked) for cable laid underground with necessary connecting sockets / couplings, test below road / ground surface, including excavation, back filling with excavated material with ramming and making the surface good		
8	50 mm outside dia	Mtr	1170
9	110 mm outside dia	Mtr	1240
10			
11	Supply, Installation, Testing and Commissioning of decorative pole with total height of 4 to 5 Mtrs as per road dimensions and as per directions of engineer in charge.The Pole should be made out of M.S. grooved round tubular Pipe sections having steps. The minimum thickness of pole should be 3mm. The bottom part of the pole should be of 114 mm diameter and top part diameter 89 mm. Both the sections should be joined together by means of welded joints. A base plate of dimension diameter 430 mm x 15 mm thick should be joined with the pole at the bottom through welded joints. A cast iron pedestal to be fitted on the pole at bottom by grub screw fixing. Cast- iron embellishments should also be fitted between two sections of grooved tubular sections as shown in attached drawing. A service window to be provided in bottom section of pole to accommodate a 6 amp MCB & connector for mains connections. The Pole & the cast iron embellishments should be machined & polished properly to get the smooth finish. The pole should be duly pre-treated and painted in P.U. Paint in approved colour shade. The pole should be supplied & Erected with Bakelite sheet with 1 No. 6A SP B curve MCB & stud type terminal block suitable for terminating the respective cable. The fitting should be connected with Copper Flexible wire of 3CX2.5 Sq mm. The item is inclusive of construction of M20 grade RCC foundation with bolts, plate and pipe. The Pole to be approved by Engineer in Charge & Architect. Product Reference Homedec Model No. HL-MSP-247 or Equivalent Bajaj or Schreder or Philips or Valmont or K-Lite makes	Each	61

Sr. No.	Description	Unit	Installed Total Qty
12	Supply, installation testing & commissioning of Decorative heritage appearance Hanging / post top LED type luminaire made out of Spun aluminium , the diffuser shall be of PMMA / clear poly carbonate . The decorative luminaire shall be of wattage 35 TO 40 LED, 100 Lum/watt min., with separate driver placed integrally in street light housing Driver should be of THD <10% and power factor above 0.95 .High power Led of above 1watt should be used of make Cree/Nichia/Lumiled/Osram/Seoul. Lenses should be used to give required optics. Ingress protection of optical chamber shall be IP-65 The Luminaire body shall be painted with exterior grade of Poly- urethane /Polyester coating in required colour shade. The fixture should be complete with suitable bracket, mounting accessories.Recomended Make : Wipro / Bajaj / Havells /Keselec Shreder /Crompton / Philips/ Neri /Disano or Equivalent as approved by Engineer In charge.		132
13	Supply, installation, testing and commissioning of outdoor weather proof type street lighting control feeder panel for smart controls, made from 14/16 SWG MS galvanised powder coated sheet or SMC material complete with mounting stand / clamps. The feeder pillar should provide following functionalities related to remote switching and monitoring of individual LED street lights: i) Should be capable of controlling of upto 15 KVA street lighting load distributed in three or single phase. The wattage of each street light will be 40 to 100 watts. ii) It should be complete with all required switching and protecting devices, contactors, timers, relays, sensors, controller, Gateway, remote wireless communication devices, wiring, pipe earthing, surge protection device, required software, web server, hosting, etc. iii) The feeder pillar should perform at least following tasks through remote PC/mobile based web application user friendly interface: Phase wise and individual remote ON/OFF switching of street lights. Monitoring of quantity and electrical parameteres of individual street light fixtures full or partially /ON/OFF of street lights. iv) In addition to this panel should be able to generate wireless command to give dimming command to the street light fixtures so that light output can be dimmed.		2
14	Supply, installation, testing and commissioning of Pole 7.5 Mtr. Ht. Poles shall be continuously tapered round conical cross section,3 mm thick, MS Galvanised, T washed, primered and painted with PU base colour of choice. The column shall also be provided with flush door at the bottom with proper strengthening to the cut-out of the door opening. Bottom diameter of pole shale be 155 to 160 mm, top diameter 70 to 75 mm and base plate dim. 275X275X16 mm. The pole shall be provided with hinged flush door at the bottom with proper strengthening to the cut-out of door opening at height of 500mm with 300x100mm size for MCB positioning. A junction / looping box with Heavy duty 3 phase connector shall be built into the pole & its Decorative Arm should be painted with PU colour of the choice of engineer in-charge.Inclusive of supply and installation of Bakelite sheet with 6A SP C curve MCB & stud type terminal block suitable for terminating the respective cable. The fitting should be connected with Copper Flexible wire of 3CX2.5 Sq.mm.The pole as well as bracket shall be painted by polyurethane (PU) paint of approved colour shades. The colour of brackets and that of the pole may be same or may be different. These shall be decided by Engineer In charge, USCL. The PU colour of the pole as well as bracket shall beguaranteed for at least 3 years from date of handing over the installation. This guarantee shall be given by the manufacture of pole in writing and shall be counter by the contractor. The contractor has to submit a certification to USCL from the manufacture of pole that the pole and its bracket will not bend, break, buckle or fall due to wind pressure in the Ujjain city area and due to weight of the fitting with control gear boxes etc.(The item is inclusive of construction of suitable M20 grade RCC foundation as per the attached specifications).		
15	With Single mm decorative bracket bracket		10
16	Earthing with G.I. Earth plate 600mm X 600mm X 6mm thick including accessories and providing masonry encloser in cement mortar, cover plate having locking arrangement on the top and G.I. watering pipe 20mm dia 2.7 Metre long etc. (but without charcoal or coke and salt) complete as required.	nos	9
17	Supplying and laying 25mm X 5mm G.I. strip at 0.5 Metre below ground level as strip earth electrode including soldering etc. as required.	Meter	500
18	Supply, Installation, Testing and Commissioning of Al. conductor, armoured, XLPE insulated, PVC sheathed, 1.1KV cable in ready made underground trench / duct / pipe etc as per site requirement. The other cable specifications should conform to IS: 7098 Part- 1,		
20	3.5Cx150 Sq.mm cable (With outer sheath of extruded HDPE material and insulation screen having additional feature of water	Meter	1000
21	Supply, installation, testing and commissioning of double pole structure comprising of 2 nos, 13 mtrs H-beam poles(37.1 kg/mtr) having 3-ph 11KV isolator , complete with 11KV pin / disc / post insulators, LA, 100x50 mm, MS cross channels, stay sets, coil earthing, ACSR 075 conductor etc, concreting etc complete in all respects suitable for terminating two nos 11KV, 3Cx240 sqmm XLPE insulated al. conductor	each	2
22	Dismantling of existing HT overhead powersystem lines complete with all associated items like poles, conductors, insulators, overhead cables, wires, stay	km	0.19
23	Soil excavation for laying of HT/LT cable at the depth of 0.9 to	meter	340

Sr. No.	Description	Unit	Installed Total Qty
24	Supplying, installing, testing and commissioning of 11/0.4 K.V. 3 Phase 50 Cycle oil immersed, naturally cooled, out door type transformer connected delta on H.T. side and star on L.T. side hand operated off load, Tap changer switch,above 100 kVA rating and diagram plate, two earthing terminal, lifting lugs, oil level guage, drain valve with plug, temperature not exceeding 50°C on load, oil conservator with drain plug, oil filling hole with plug dehydrating silica gel breather, four unidirectional roller, arcing horns, explosion vent, terminal arrangement bushing on H.V. side and cable box on LV side, first filling of oil upto desired level and transformer installing on existing structure with all Required materials arrangements as required as per IS specification.		
25	315 kVA	each	1
26	Supplying and installing Double wall corrugated pipes (DWC) of HDPE (IS 14930 Part II marked) for cable laid under ground with necessary connecting sockets/ couplings,tees of same material and at required depth upto 90cm. below road/ground surface,including excavation, back filling with excavated material with ramming and making the surface good.		
27	200.00mm outside dia	Meter	360
28	Supplying of street light with high power LED of 1 to 3 W each assembled on single MCPCB. system lumens output with efficacy>110 lm/W. luminiare having color temp 6500K & 50000 burning hrs life with minimum @ L 70, The colour rendering index of LED light should be more than 70. Luminiare comprises of driver, PF 0.95 & surge protection 4KV. Housing made of pressure die cast aluminium with heat resistant flat glass / Lens type, IP66 protection. Submission LM 80-08 Form LED Source Manufacturer & LM79-08 / IS16106 from NABL approved lab. Manufacturer manadatory i.c 50mm dia G.I. Pipe bracket upto 2 mtr. long in required angle/shape, connection lead, testing etc to complete the job. 2 Yrs Guarantee certificate from manufacturer.		
29	120W.	Eac	11
30	Point Wiring in surface rigid P.V.C. conduit system with Flush type Accessories.		
31	Pointwiringincludingmetallicswitchbox,sheet,switches,sockets,lamp holders/ceilingrosesetcwith1.5Sq.mm.PVCinsulatedcableFRwith coppermultistrandconductorISImarkedinSurfacerigidP.V.C.conduit (MMS)ISIMarkedofsuitablesizeand1.5Sq.mm.PVCinsulatedcopper earthcontinuityconductorofgreencolourinsideconduitincluding painting etc. as required as per specification for :-		
32	Light Point/Fan Points.		
33	a) Short point	Each	15
34	b) Medium point	Each	5
35	c) Long point	Each	3
36	Supplying & Installation of required capacity of single phase, 50 Hz,220V, deep well submersible pump Stainless Steel body, as per IS of approved Make, suitable for 4",6 " tube well with Control Panel Starter suitable for Submersible pump with dry run protection, connections, including clamps, bore cap etc. as required as per specifications but excluding Pipe, SS, Nylon wire rope and connection cable.		
37	1.5 H.P. with up to 6 stages, Head Mt 42-17, Discharge LPM 65-150	Each	1
38	CIRCUITWIRINGINEXISTINGCONDUIT/PVCCASING CAPPING		
39	3 X 2.5 sq mm	Meter	170
40	14.1SupplyofXLPEinsulatedpowercable(conformingIS-7098) 1100Voltgrade Heavydutypowercableconformingtol S 1554-1100Voltsgrade,2core/3)score/4corelSIMARKED with Alu. Stranded /solid conductor		
41	UNARMOURED 2 Core		
42	2.5 Sq.mm.(Heavy Duty)	Meter	70

Annexure S-1

Name of Work – Conservation & Restoration Work of Mahakal Dwar, Ujjain			
Sr. No	Unit	Description of Item	Qty
1	CUM	Dismantling the existing lime concrete layers from the floor and platform carefully without damaging the base layer and disposing the malba as per the instructions of the site engineer.	70
2(A)	SQM	Dismantling decayed plaster, new plaster work (pink layers) and cleaning the surface for plaster including disposal of rubbish to the dumping ground.Up to 3 Meters	210
2(B)	SQM	Dismantling decayed plaster, new plaster work (pink layers) and cleaning the surface for plaster including disposal of rubbish to the dumping ground.Up to 12 Meters	80
3	CUM	Dismantling of brick work in cement/ lime mortar, without causing any damage to the original structure, sorting the dismantled material, disposal of unserviceable material & staking the serviceable material with all lifts & lead of 100 metre.	90
4	CUM	Demolishing cement concrete/lime concrete manually/ by mechanical means including disposal of material within 200 metres lead as per direction of Engineer - in - charge.	120
5	SQM	Vegetation Removal in a Skilled & Careful Manner, Up to 3 Meters	180
6	CUM	Excavating Pits of Size 1000 mm x 1000 mm Depth at Specified ...	10
7(A)	SQM	Removal of Algae Deposit, Dirt, Blackening & Other Contaminants from Stone Surface ....Up To 3 Meters	340
7(B)	SQM	Removal of Algae Deposit, Dirt, Blackening & Other Contaminants from Stone Surface ....Up To 12 Meters	113
8	SQM	Removal of Algae Deposit, Dirt, Blackening from Lime Platered Surface	
		Up to 3 Meters	27
		Up to 12 Meters	20
9	SQM	Removal of Algae Deposit, Dirt, Blackening from Original Brick Surface	80
10	SQM	Removal of Enamel Paint	
11	CUM	Reconstruction of Missing & Damaged Old Brick	16
12	CUM	Consolidation of Existing Old brick Masonry	20
		Up to 3 Meters	5
		Up to 12 Meters	20
13	CUM	Reconstruction of Decorative Old Brick	
		Up to 3 Meters	1
		Up to 12 Meters	3
14	RMT	Stitching of Structural Cracks on Bricks	9
15	RMT	Stitching of Structural Cracks on Domed Ceiling	5
16	SQM	Pointing of the Brick Masonry ...	90
18	CUM	Reconstruction of basalt stone masonary in lime mortar for the walls & platforms	
		upto 3 mtrs	492.00
		upto 10 mtrs	156.00
19	SQM	Repointing of the masonry joints of old brick masonry in lime mortar 1:2:1/4 (1 lime putty : 2 fine sand: 1/4 surkhi) using small pointing tools	
		Up to 3 Meters	434
		Up to 12 Meters	164
20	SQM	Raking out joints dead mortar joints in basalt stone masonry and preparing the surface for repointing including disposal of rubbish to the dumping ground within 50 m lead (excluding the cost of scraping of plaster and replastering).	
		upto 3 meters	402
		upto 10 meters	125

Sr. No	Unit	Description of Item	Qty
21	SQM	Lime plastering the second coat upto15 mm -25 mm as per existing over the wall surfaces 1 : 2 : 1/4 lime plaster (1 lime : 2 fine sand : 1/4 surkhi) prepared by traditional practice of adding organic additives of gur, guggal, methi as per the directions of conservation architect. The work has to be carried out as per the specified conservation techniques and instructions of site supervisor during the execution of work.	
		upto 3 mtrs	105.00
		upto 12 mtrs	98.00
22	SQM	Grouting With Hydraulic	51
23	SQM	Surface Dressing of the Ground	45
24	SQM	Providing and fixing fine dressed "sandstone decorative flooring with floral pattern" with local sandstone hand dressed, of approved shade, set in pattern as given by the architect, over 30 mm thick base of lime surkhi mortar 1 : 2 including jointing finished flush with lime putty and stone powder as per directions of the site supervisor.	205.00
25	SQM	Providing and laying heavy duty cobble stones 80mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level , including cost of all materials, HOM of machineries and equipments, with all leads and lifts, loading and unloading charges , transportation cost and conveyance of all materials, labour for fixing the fixtures etc., complete for successful completion of work as per specifications at all floor levels and as directed by the Engineer-in-Charge.	499.00
26	Cum	Back Filling of the Retaining Wall as Per Provided Designs	688.00
27	CUM	Providing Plinth Protection	10
28	Cum	Lime concrete base with 25mm nominal size brick aggregate	123.00
29	NOS	Providing and fixing decorative solid grey and red stone railing with stone balusters (1 mthight carved in 15 cm x 15 cm stone)	142.00
30	SQM	Providing and fixing floral jali carved in 6 to 8 cm thick grey stone as per provided pattern by the designer	70.00
31	NOS	Providing Water Outlet Along with Khurras with Projected ...	2.00
32	NOS	Providing Grey Sand Stone Benches with Decorative Base ...	8.00
28	SQM	Providing & Fixing Double Scaffolding System on Exterior Side	502
29	SQM	Providing & Fixing Double Scaffolding System on Interior Side	156
32	NOS	Careful Technical removal and relocation of tree as per the process specified. Stacking of serviceable material and disposal of unserviceable material with al lead and lift and as per direction of the Engineer-in-Charge ; Girth up to 400 cm	3

Sr. No	Unit	Description of Item	Qty
34	cum	Loading and unloading of Excavated & Dismantled stone boulder / stone aggregates / sand / kanker / moorum/ Sand. (Placing tipper at loading point,152loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip). transportation rate of different other material in comparison with 20mm metal. excavated earth.	
	a	For a lead upto 1km	290.00
	b	For a lead upto 3km	502.00
36	meter	Dismantling G.I. pipe including excavation & refilling trenches after taking out the pipe. Upto 40mm nominal bore	50
37	cum	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering All work up to plinth level. Cement concrete grade M-10 (Nominal Mix) with 20 mm maximum size of stone aggregate	95
38	sqm	Centering and shuttering including strutting, propping etc. And removal of form for : Foundations, footings, bases of columns, etc. For mass concrete	65
39	sqm	Centering and shuttering including strutting, propping etc. And removal of form for : walls.	115
40	sqm	Centering and shuttering including strutting, propping etc. And removal of form for : lintel beams, plinth beams, girders etc.	14
41	sqm	Centering and shuttering including strutting, propping etc. And removal of form for : columns, pillars, piers etc.	170
42	Cum	Providing and laying in position machine batched, machine mixed, and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement. including Admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. M-25 grade reinforced cement concrete by using 410 kg. of cement per cum of concrete. All work up to floor 2 level.	50
43	Cum	Brick work with bricks of class designation 7.5 in superstructure upto two level in Lime mortar. 1:1:1 (1 Lime putty:1 surkhi: 1 fine sand)	20.00
46	sqm	Providing and fixing of grey basalt stone coping of 100-150mm thick base of lime mortar with joint finished flush and pointed with mortar mixed with pigment of matching colour fine dressed basalt stone.	90
47	sqm	Centering and shuttering including strutting, propping etc. And removal of form for : suspendended floor, roof etc.	163
48	sqm	Clading Work in Basalt Stone 20-25mm Thick Grey Basalt with Caliberated & All Fitings etc.	190
49	cum	Provision for Providing New Sand Stone Signage Buff Sand Stone Matching with Monument such as Location Plan, General History, Visitor Guide Line & Cultural Notice Board, Direction Signages, etc as per Approved Design & Pattern Stone Work Ashlar Sunk or Molded upto Floor Five Level in Cement Mortar 1:6 (1 Cement, 6 Coarse Sand) Including Pointing with Admixture of Pigment Matching to the Site	0.3
50	cum	Extra for Stone Work Ashlar Sunk or Molded or Sunk & Molded or Craved in Triangular or Square or Rectangular Pillar.	0.3
51	SQCM	Making Engraving Work on Stone Tablet With Floral Design, Border Design, Arch Design & Engraving of Letter of Approved Text of Signage of Different Monuments Including Inking etc. Fixing Complete.	25064

Sr. No	Unit	Description of Item	Qty
52		Providing & Fixing of Hand Carved Highly Decorated Stone Gateway with 2 Nos of Column of 1600 X150 x 150 MM, 1 Nos Top Member 1000 x 150 x 150 MM, Semi Circuler Arch 1000 X 650 X 75 MM & 1Nos Base Stone of as per Approved Design & Size (Size of Column in Sand Stone Including Fixing of the Members with Clamps & Adhesive at Requisite Location as Per Dwg & Instruction of Engineer In)	
		Chambers	2.00
53	cum	Brick Work with Bricks of Class Designation 7.5 in Foundation & Plinth in Lime Mortar 1:1:1 (1 lime Putty : 1 Surkhi :1 Fine Sand)	30
54	Kg	Reinforcement For R.C.C. Work - TMT Thermo-Mechanically Treated Bars.	2952.00
55	cum	Mixing Earth & Sludge or Manure in Proportion Specified or Directed.	19
56	sqm	Finishing Wall with Textured Exterior paint of Required Shades	205

Annexure T-1

Ornamental stone work

Description	Unit	Qty.
Stone cladding work in Bansi Pahadpur pink stone, Best Quality Stone, as approved by Engineer-in-charge and consultant, with specific design and as per drawings up to any height, with necessary scaffolding / centring etc. as provided in tender document and as per requirement of items and measurement from site. Stone Carving depth varies as per design including sunk and moulding works. Other moulding, grooves, cornices, sculpture, etc. work as per drawings, backing filled with grout of cement mortar 1:3(1 cement: 3 sand) minimum 12mm thick, including pointing in white cement mortar 1:2 (1 cement : 2 marble dust) with an admixture of pigment matching the stone shade, to be secured to backing by means of Stainless Steel cramps/anchor/fastener of required size and shape anchoring stone wall lining to the backing or securing adjacent stone in stone wall lining in cement mortar 1:2(1 cement : 2 sand) including making necessary chases in stone and holes in wall/RCC where ever equired including epoxy (Araldite etc.) wherever required. All fixing work should be executed as per instructions of engineer in charge and consultant and the traditional pattern of fixing the	**Sqm**	
Minimum Thickness of Stone 100mm &Carving 70-80mm (For Mural Wall) Including Art & Relief Work, Murals		
Supply of Stone at site		
Qty of TMB pg		1337.49
Qty b/f from MB pg		0.00
Total Qty.		1337.49
Designing sculpting, Carving, Finishing		
Qty of TMB pg		1337.49
Qty b/f from MB pg		0.00
Total Qty.		1337.49
Installation and fixing		
Qty of TMB pg		1337.49
Qty b/f from MB pg		0.00
Total Qty.		1337.49

Handing Over		
Qty of TMB pg		0.00
Qty b/f from MB pg		1337.49
Total Qty.		1337.49
Minimum Thickness of Stone 60 TO 80mm & Carving 30-40mm (For Dwar Including Art & Relief Work,		
Supply of Stone at site		
Qty of TMB pg		433.77
Qty b/f from MB pg		0.00
Total Qty.		433.77
Designing sculpting, Carving, Finishing		
Qty of TMB pg		433.77
Qty b/f from MB pg		0.00
Total Qty.		433.77
Installation and fixing		
Qty of TMB pg		433.77
Qty b/f from MB pg		0.00
Total Qty.		433.77
Handing Over		
Qty of TMB pg		0.00
Qty b/f from MB pg		433.77
Total Qty.		433.77
Column 2.0 mtr Height as per approved Design & Drawing	**Each**	
Supply of Stone at site		
Qty of TMB pg		26.00
Qty b/f from MB pg		2.00
Total Qty.		28.00
Designing sculpting, Carving, Finishing		
Qty of TMB pg		26.00
Qty b/f from MB pg		2.00
Total Qty.		28.00

Installation and fixing		
Qty of TMB pg		26.00
Qty b/f from MB pg		2.00
Total Qty.		28.00
Handing Over		
Qty of TMB pg		0.00
Qty b/f from MB pg		28.00
Total Qty.		28.00
Statue 1.20m Height (As approved byEngineer in Charge)	**Each**	
Supply of Stone at site		
Qty of TMB pg		32.00
Qty b/f from MB pg		0.00
Total Qty.		32.00
Designing sculpting, Carving, Finishing		
Qty of TMB pg		32.00
Qty b/f from MB pg		0.00
Total Qty.		32.00
Installation and fixing		
Qty of TMB pg		32.00
Qty b/f from MB pg		0.00
Total Qty.		32.00
Handing Over		
Qty of TMB pg		0.00
Qty b/f from MB pg		32.00
Total Qty.		32.00

Providing and fixing adjustable stainless steel cramps of approved quality and of required shape and size adjustable with stainless steel nuts bolts and washer (total weight not less than 260 gms) for dry stone cladding fixed on frame work at suitable location including making necessary recesses in stone slab, drilling required holes etc complete as per direction of the Engineer.	**Each**	
Qty of TMB pg		4463.00
Qty b/f from MB pg		0.00
Total Qty.		4463.00
Stone work (machine cut edges) for Wall cladding/ Veneering work up to 10 m height with 20 to 30 mm thick Pink Sand stone (Bansi Paharpur) and backing filled with a grout of 12mm thick cement mortar 1:3 (1 cement : 3 coarse sand) including pointing in white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade : (To be secured to the backing by means of cramps which shall be paid separately)	**Each**	
Qty of TMB pg		116.84
Qty b/f from MB pg		0.00
Total Qty.		116.84

Annexure U-1

Project -	Design and Construction of Overhead Water Tank (2.20 Lakh litre capacity) at Surface Parking for MRIDA	
	Detailed Bill of Quantities	QTY
Item No:	Designing as per architectural drawing (plan type) with all the related civil structure as per required appearance, permitting, construction, testing & commissioning of RCC elevated service reservoir of 2.20 Lakh Liters capacity and 12.0 mtrs. staging, comprising of columns, internal and external bracings including following works: Topographical survey and geotechnical investigation for determination of SBC.Preparation of design and drawings. Vetting of design and drawings (HA & structural) from MD / CO as per relevant IS standards and design guidelines.Approval of Design and drawings (HA & structural) from CMC, as per relevant IS standards and design guidelines.Excavation in all types of soils. Construction of foundation concrete, cement plaster with water proofing compound in the inside face of the container including earthing of the complete RMT as per relevant IS standards & specifications. Constructing the platform exposed level of bed by C.C. M-10 up to bottom Architectural treatment and plinth protection as per relevant IS standards and design guidelines.Casting of complete staging in RCC All RCC work of CBIT / ESR should be in minimum M-30 grade of concrete.Casting of vertical walls of reservoir container complete.Construction of RCC staff room with roof slab, WC and bathroom in 30 sq. m. area with internal & external sewerage & water supply system with overhead tank including connection from nearby sewer or septic tank with soak pit & water supply line. Providing external & internal electrification with standard level of illumination. All RCC construction should be done in minimum M-25 grade of concrete.Providing, lowering, laying, erecting, joining, jointing (1 which as well as horizontal positions) and fixing CI/ mech. (IS 8329 / DI pipes and sprinkler fire lines, sanitary, water & hydrant arrangement as per design.Laying, jointing testing & commissioning of CI/DI mech. (IS 9523) DI double flanged sluice / butterfly valves with gear box, hand wheel & all mounting joints, heavy duty specials and dash four bends etc. complete at site including approval by the third party inspection as per relevant IS standard.RCC valve chambers with RCC covers 30°C minimum from ground level to balcony with C.I. hand railing with epoxy paint including pins at every point and MS ladder with cage (with epoxy paint) from balcony to roof of the GST.Providing and fixing of all accessories such as lightening conductor and earthing pit, water level indicator, MS ladder (with epoxy painting) from roof to inside of riser level tank, steel railing cowle / shaft, manhole CI covers with frame complete in site including approval by the third party inspection as per relevant IS standard.Providing and supplying of G.I. handrail with epoxy paint retaining wall/wall / balcony of tank / sying, jointing testing & commissioning of temperature (RF-3) RCC water & septic tanks with rubber gasket near including testing of water proofing to IS: 456-1988. All marked, laying as per IS 783 (1985) beyond store chamber to make the disposal of sewer water to nearby drain.Painting (OBT & wall paint) should be as per direction / approval of Engineer in charge.Successful water tightness testing / hydro test of GSTT.Necessary interface required with existing works of other agencies should be as per the site requirement.Providing & fixing Electromagnetic flow meter at Inlet Testing and Commissioning.Providing & fixing fiber glass cover of required color at the top of GSTT with aluminium frame.Others works (if any) to complete the Job.All materials required for satisfactory completion of the work such as cement, steel, stone, pebbles and valves shall be procured by the contractor himself. The water retained for sanitization shall be arranged by the contractor but the retained for testing and leaked over to the department within the time period specified in the Notice inviting TENDER. 1 number flame proof metric ultrasonic water level indicator as well as mutual water level indicators, copper lightning conductor with GSS earthing copper earthing plate as per standard, CI.3 pipe railing around each vent or drain and top slab & on top of slab or drain. Stainless steel railing on inside each vent or hole, providing R.C.C. staircase from ground level to roof level, 40 No. office cum store room with slab & W.C and bathroom in 30 sqm area with sewerage system & connection from nearby sewer or septic tank with soak pit. external & internal electrification with standard level of illumination & M.S. grill gate of 2 m height if required as per planning. Construction of compound wall of overall length 160m 2½ mtrs & wicket gate, as per detailed specification.Aviation lighting with min. 3 nos mixed type pulse as per standard code of practice & LED light with standard level of illumination. Water proofing RCC chamber chambers for all valves, ventilating shafts, providing and applying three coats of bituminous paint to the structure including roof slab/Waste & White cement sands for container, epoxy painting to internal surface & any outside structure for underground parts of the structure and giving satisfactory water tightness test before inside plaster as per I.S. code. The job in includes painting the name and other details on the reservoir as per the directions of Engineer-in-charge.	1 Job

Annexure V-1

Project - Design, Supply, Installation, Commissioning of Mechanical Screens, Conveyor Belt & other Misc. Works for Outfall Junction Box at Rudra Sagar Mahakal Corridor, Ujjain (M.P.)

ASSET LIST

Description		Total As Per Contract	
S.No.	Item Name	Quantity	UOM
1	**Design, Supply, Installation, Testing and Commissioning Works**		
1.01	Mechanical Screens	2	Nos
1.02	Sluice Gates	5	Nos
1.03	Conveyor Belt	1	Nos
1.04	Plastering in C.M. 1:5-12mm thick with including cost	12	Nos
1.05	Allied Civil-Electro Mechanical-Instrumentation	1	Nos
			Total

Annexure W-1

UJJAIN DEVELOPMENT AUTHORITY

W-1

LIST OF ELECTRICAL FIXTURES IN VISITORS FACILITY CENTRE-2
MANSAROVAR BHAWAN

S.No.	Particulars	Qty
1	Celing fan ornamental	180 Nos
2	Surface mounting Type 2'X2',36W	135 Nos
3	Surface mounting Type '1X1',24W	58 Nos
4	Decorative Designer Pole 4mtr	32 Nos
5	STREET LIGHT LED 90W	25 Nos
6	Flood Light LED 90W	10 Nos
7	Flood Light LED 40W	42 Nos
8	Recessed Mounting Type LED 2'X2'36W	150 Nos
9	Post Top Lantern LED 40W	15 Nos
10	Surface Mounting LED Downlighter 7\8W	88 Nos
11	Surface Mounting LED Downlighter 15W	19 Nos
12	Recessed Mounted LED Downlighter 20W	355 Nos
13	LED Batten LED 40W	172 Nos
14	Outdoor type UP-DOWN Wall Decorative LED light 6W	12 Nos
15	Outdoor type Inground Light 18W	90 Nos
16	LED Stripe RM	1160 RM

UJJAIN DEVELOPMENT AUTHORITY

LIST OF FIXTURES IN TOILET AT VISITORS FACILITY CENTRE-2
MANSAROVAR BHAWAN (G.F. AND F.F.)

S.No.	Particulars	Qty
1	**Orrisa Pan WC**	8
2	**Wall Hung WC**	41
3	**Wash BASIN**	23
4	**URINAL POT**	28
5	**Bib Cok /2-Way Bib cok**	60
6	**Health Faucet**	33