

CORRIGENDUM- II

Date: 22.01.2018

NIT No.: - 27 USCL/2017-18; Date: 30-11-2017

Name of Work: -“Investigation, survey, detailed design and execution of retrofitting & reconstruction of roads consisting of up-gradation, augmentation, retrofitting of existing 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 UjjainSmart City Project”.

| S.no. | Clause no. | As per RfP | | | Amended/ corrected/ modified provisions | | |
|-------|--|---|---|--|---|---|--|
| | | Clause Reference | Particulars | Data | Clause Reference | Particulars | Data |
| 1 | Bid data sheet Section 2 Sl. No. 9 | Earnest Money Deposit | | Rs.50 Lakhs (Rupees Fifty-Two Lakh Only) | Earnest Money Deposit | | Rs.50 Lakhs (Rupees Fifty-Lakh Only) |
| 2 | Contract Data | 5 | Subcontracting permitted for contract value | Up to 10% by the approval of the Employer | 5 | Subcontracting permitted for contract value | Up to 25% by the approval of the Employer |
| 3 | General Conditions of the contract Clause no. 2.1 (a) | Investigation, survey, detailed design and construction work for Improvement of Roads consisting of Up gradation, Augmentation, Foot path & Cycle track works, Utility Ducts, Road Markings, Traffic signage, underground storm water drainage, shifting of electrical poles and overhead power supply lines, underground electrical cable laying with installation and commissioning of allied electrical infrastructure and other Miscellaneous works shall be done on the selected Road segments (total 25 Km length) of various road widths in ABD Area whereas retrofitting of existing open drains, retrofitting of present water supply lines shall be carried out with other Miscellaneous works. Under this tender Scope of work of contractor also include Maintenance of Tended works for Period of Five years with Preparation of Working Drawings, Procurement and Construction Basis | | | Investigation, survey, detailed design and construction work for Improvement of Roads consisting of Up gradation, Augmentation, Foot path & Cycle track works, Utility Ducts, Road Markings, Traffic signage, underground storm water drainage, shifting of electrical poles and overhead power supply lines, underground electrical cable laying with installation and commissioning of allied electrical infrastructure and other Miscellaneous works shall be done on the selected Road segments (total 25 Km length) of various road widths in ABD Area whereas retrofitting of existing open drains, retrofitting of present water supply lines shall be carried out with other Miscellaneous works. Under this | | |

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| | | | tender Scope of work of contactor also include Preparation of Working Drawings on Procurement and ConstructionBasis. |
| 4 | GCC Clause no. 2.2.2 (A) (Detailed Scope of works) | <p>The works under Contract comprises the construction of proposed improvement of roads, Junction, storm water drainage works, construction of new carriageway, construction of utility ducts, cross drains, culverts, foot path, cycle track, Traffic Signages, Road Markings, retrofitting of water supply lines and Miscellaneous works and Maintenance of Tendered works for Period of Five years</p> <p>Details and drawings given in tender document is for information purpose only and successful bidder shall undertake confirmatory survey for accuracy and completeness of data. It is in scope of successful Bidder to undertake all Site surveys, Geotechnical investigations, Underground Utility Surveying and Scanning of the roads for utility shifting, obtaining all required approvals from the relevant authorities, Carry out Design and Drawings for all the components of the work as per Employers requirement and submit the same to client for review and approval, Prepare Good for Construction Drawings, submit maintenance manual to client for approval before start of Maintenance period.</p> | <p>The works under Contract comprises the construction of proposed improvement of roads, Junction, storm water drainage works, construction of new carriageway, construction of utility ducts, cross drains, culverts, foot path, cycle track, Traffic Signages, Road Markings, retrofitting of water supply lines and Miscellaneous works.</p> <p>Details and drawings given in tender document is for information purpose only and successful bidder shall undertake confirmatory survey for accuracy and completeness of data. It is in scope of successful Bidder to undertake all Site surveys, Geotechnical investigations, Underground Utility Surveying and Scanning of the roads for utility shifting, obtaining all required approvals from the relevant authorities, Carry out Design and Drawings for all the components of the work as per Employers requirement and submit the same to client for review and approval, Prepare Good for Construction Drawings, submit maintenance manual to client for approval before start of Maintenance period.</p> <p>All the designs carried out by the Contractor shall be vetted and approved from the Govt. Engg. College, NITs or IITs before the submission for approval from USCL. No additional payment for the same shall be made to the contractor.</p> |

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| 5 | Annexure -C | Define the Similar Nature of Work. | | | | Work of Similar Nature: Road Construction/BRTS/LRTS/MRTS/Bridge Construction/Underground Duct Construction | | | |
| 6 (i) | Annexure G Details of Participation in Joint venture | PARTICIPATION DETAILS | FIRM 'A' (Leadpartner) | FIRM 'B' | FIRM 'C' | PARTICIPATION DETAILS | FIRM 'A' (Leadpartner) | FIRM 'B' | Deleted |
| | | Financial | | | | Financial | | | |
| | | Name of the Banker(s) | | | | Name of the Banker(s) | | | |
| | | Planning | | | | Planning | | | |
| | | Construction Equipment | | | | Construction Equipment | | | |
| | | Key personnel | | | | Key personnel | | | |
| | | Execution of Work (Give details on contribution of each) | | | | Execution of Work (Give details on contribution of each) | | | |
| 6 (ii) | Annexure G: Joint Venture (JV) | 7. Furnish details of participation proposed in Joint venture as below. | | | | 6(b). Furnish details of participation proposed in Joint venture as below. | | | |
| 6 (iii) | Annexure G: | For the meeting the minimum qualification criteria of experience of similar naturework, | | | | The JV partners shall jointly meet minimum qualification criteria mentioned in Annexure C | | | |

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| | Joint Venture (JV) Clause no. 8 | <p>(i) Out of 3 similar works of value not less than the amount equal to 20% of Probable Amount of Contract(PAC), at least 2 works must be done by lead partner and one work to be done by otherpartner,</p> <p align="center">Or</p> <p>(ii) Outof2similarworksofvaluenotlessthantheamountequalto30%ofPAC,atleast1(one)work must be done by lead partner and 1 (one) work to be done by otherpartner,</p> <p align="center">Or</p> <p>(iii) Incaseofonesimilarworkofvaluenotlessthantheamountequalto50%ofPAC,theleadpartner must satisfy the criteria. However, the other partner must satisfy the criteria in (i) above i.e., at least one work of value not less than the amount equal to 20% ofPAC.</p> | | | | | |
| 7 | Annexure D: Special Eligibility criteria | The bidder should have successfully completed/ substantially executed during the preceding Five years: | | | The bidder should have successfully completed/ substantially executed (at least 70% of the probable amount of the contract Value) during the preceding Five years: | | |
| 8 | Contract Data Clause no. 32 | 32 | 32.1 Mobilization and Construction Machinery Advance applicable | Yes, Mobilization and Construction Machinery Advance shall be payable. | 32 | 32.1 Mobilization and Construction Machinery Advance applicable | Not applicable |
| | | | 32.2 If yes, unconditional Bank Guarantee | As per format in Annexure S1 | | 32.2 If yes, unconditional Bank Guarantee | NA |

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| | | 32.3 If Yes Rate of Interest | As per notified bank rate on the date of inviting tender. | | 32.3 If Yes Rate of Interest | NA |
| | | 32.4 If Yes, Type and Amou nt that can be paid | 1. Mobilization advance - Not morethan 10 % of contract amount. | | 32.4 If Yes, Type and Amount that can be paid | NA |
| | | 32.5 If Yes, Recovery of Payment | Recovery of Mobilization and/or Construction Machinery advance shall commence when 10% of the Contract Amount is executed and recovery of total advance shall be done on pro-rata basis and shall be completed by the time work equivalent to 80% of the Contract Amount is executed. In addition to the recovery of principal amount, recovery of interest shall be carried out as calculated on the outstanding amount of principal at the closeofeachmonth.Theinterestshallbe accrued from the day of payment of advance and the recovery of interest shall commence when 10% of the Contract Amount is executed and shall be completed by the time work equivalent to 80% of the Contract Amount isexecuted. | | 32.5 If Yes, Recovery of Payment | NA |
| 9 | Annexure E: Civil Works Specificati on for | | | | Para to be added after sr. no. 3 Underground storm water drains to be taken under roads to be retrofitted in rest of the road lengths (87- 25=62.0 KM) existing side drains shall be repaired/ restored. For which the payment shall be made as per | |

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| | storm water drainage | | the item rates approved as per tender. For this payment shall be made on the item base approved tendered rates | | | | | | |
| 10 | Annexure E: Civil Works Specificati on for Water Supply Retrofittin g | | Para to be added after sr. no. 4 Water supply shall be improved by retrofitting in whole ABD area covered by about 87.0 KM of road length. Therefore, all the households shall be connected through the water supply distribution network with new consumer water meter connections with 24x7 assured water supply with SCADA arrangement. . | | | | | | |
| 11 | Annexure E: Civil Works Specificati on for Fibre Optic Cable and Communic ation Cable Installatio n 1.0 General | HDPE Ducts for laying Optical Fibre Cables shall be bundled in 2 bundles each of 7 pipe ducts of 38mm inner and 50 mm outer dia. Multiple Bundled PLB (Permanent solidly Lubricated Silicore) HDPE ducts provide pathways & the ability to install fibre optic cables and communicationcablesforthefibreopticnetwork,allwithinth samemulti-channelconstruction. The multiple channels enable to install OF cables for present needs and a provision for futuristic use as when demand grows. Thus, Bundled Multi Channel pathway gives maximum cost- effective builds and good return on investment for existing and future networks | | | | HDPE Ducts for laying Optical Fibre Cables shall be bundled in 2 bundles each of 7 pipe ducts of 40 mm outer dia. bundled inside a single HDPE outer sleeve for laying OFC, Multiple Bundled PLB (Permanent solidly Lubricated Silicore) HDPE ducts provide pathways & the ability to install fibre optic cables and communicationcablesforthefibreopticnetwork,allwithinth samemulti-channelconstruction. The multiple channels enable to install OF cables for present needs and a provision for futuristic use as when demand grows. Thus, Bundled Multi Channel pathway gives maximum cost- effective builds and good return on investment for existing and future networks | | | |
| 12 | Annexure E: Civil Works Specificati | S. No | Properties | Test Method | Requirements | S. No | Propertie s | Test Method | Requirement s |
| | | 3 | | | A bundle of five PLB HDPE ducts where external Sheath shall free from visual defects | 3 | | | A bundle of Seven PLB |

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|----|--|---|--|----------|---|---|--|----------|---|
| | <i>on for Fibre Optic Cable and Communication Cable Installation Standards 1.2.2</i> | | Workmans hip | Standard | like blisters, shrink holes, flaking, scratches, groove lines & surface roughness. | | Workman ship | Standard | HDPE ducts where external Sheath shall free from visual defects like blisters, shrink holes, flaking, scratches, groove lines & surface roughness. |
| | | 4 | Colour of PLB HDPE ducts in Bundle | | TheColouroftheDuctsshallbeGreen,Blue,Yello w, Red,Violet, | 4 | Colour of PLB HDPE ducts in Bundle | | TheColourofth eDuctsshallbe Green,Blue,Y ellow, Red,Violet, Brown and Grey & outer sleeve shall be of one colour either Red and Orange in total supplyas decided by the deptt. |
| 13 | Annexure E: | | | | | | | | |

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| | Specification for Fibre Optic Cable And Communication Cable Installation Material 1.3 | v.The pipe ducts shall be rodentproof. | iv. The outer sheath shall be anti - termite . | | | | |
| 14 | Annexure E: Clause no. 2.62 | The HDPE pipe shall Inner Ribbed of standard make and shall have the outer diameter as fallows. | | The HDPE pipe shall Inner Ribbed of standard make and shall have the outer diameter as fallows. | | | |
| | | S. No | Type of Cable | Outer Diameter of Pipe in mm | S. No | Type of Cable | Outer Diameter of Pipe in mm |
| | | 1 | 33 kV and 11kV | 250 | 1 | 33 kV and 11kV | 250 |
| | | 2 | LV cable | 225 | 2 | LV cable | 250 |
| | | 3 | Service Cable | 75 | 3 | Service Cable | 75 |
| 15 | Annexure E: Clause no. 2.71 (iii) | Suitable Ultra-Violet stabilizers may be used for manufacture of the HDPE pipe to protectagainstUVdegradationwhenstoredinopenforaminimumperiodof8months. | Suitable Ultra-Violet stabilizers are mandatory to be used for manufacture of the HDPE pipe to protectagainstUVdegradation. | | | | |
| 16 | Annexure E: | | Additional clause (v). is to be added as follows HDPE Virgin material sourced from GAIL or IOC or | | | | |

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| | Clause no. 2.71 | | | | | | Reliance shall only be used. No other reworked or recycled material shall be used. | | | | |
| 17 | Annexure E: Clause no. 2.73 | The Duct to be used in the in this project may vary from 250mm dia. to 75mm dia. Duct size to be used preferably for installation and laying power cables shall be 250mm, 225mm and 75mm for HT, LT and service cables respectively, but these sizes may vary as per the requirement generated at the site during laying or may be changed by engineer in charge | | | | | Duct size to be used for installation and laying power cables shall be 250mm for HT & LT Cables and 75mm for service cables respectively, but these sizes may vary as per the requirement generated at the site during laying or may be changed by engineer in charge = | | | | |
| 18 | Annexure E: Clause no. 2.73.1 | Sl. No | Description | 250 DIA | 225 DIA | 75 DIA | Sl. No | Description | 250 DIA | 75 DIA | |
| | | 1 | Outer Diameter of Pipe (mm) | 250 mm | 225 mm | 75 mm | 1 | Outer Diameter of Pipe (mm) | 250 mm | 75 mm | |
| | | 2 | Wall Thickness (mm) (Excluding rib height) | 18.8 - 21.1 mm | 16.5 2- 18.7 2 mm | 4mm | 2 | Wall Thickness (mm) (Excluding rib height) | 18.8 - 21.1 mm | 4mm | |
| | | 3 | Ovality | 5.0 mm | 4.5 mm | 2.2 mm | 3 | Ovality | 5.0 mm | 2.2 mm | |
| | | | | | | | 4 | Length | 6 or 12 M | In coil | |

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| 19 | Annexure E: Clause no. 2.8.1 | Plastic coupler: The coupler shall be used to join two HDPE pipes. It should either snap fit or Splittype | Plastic coupler: The coupler shall be used to join two HDPE pipes. It should either snap fit or Splittype or Compression Typefor electric cables. |
| 20 | Annexure-j Financial Bid | Note- Only one rate of percentage above or below or at par based on the Bill of Quantities and item wise rates given therein shall be quoted. Percentage shall be quoted in figures as well as in words. If any difference in figures and words is found lower of the two shall be taken as valid and correct rate. If the bidder is not ready to accept such valid and correct rate and declines to furnish performance security and sign the agreement his earnest money deposit shall be forfeited. In case the percentage “above” or “below” is not given by a bidder, his bid shall be treated as non-responsive. All duties, taxes, and other levies payable by the bidder shall be included in the percentage quoted by the bidder. | Note- Only one rate of percentage above or below or at par based on the Bill of Quantities and item wise rates given therein shall be quoted. Percentage shall be quoted in figures as well as in words. If any difference in figures and words is found lower of the two shall be taken as valid and correct rate. If the bidder is not ready to accept such valid and correct rate and declines to furnish performance security and sign the agreement his earnest money deposit shall be forfeited. In case the percentage “above” or “below” is not given by a bidder, his bid shall be treated as non-responsive. All duties, taxes, and other levies excluding Goods and service tax(GST) payable by the bidder shall be included in the percentage quoted by the bidder. Rate quoted by the bidder shall be excluding GST.GST shall be payable as applicable at the time of Running Account Bills by the Employer. |
| 21 | Annexure S1 | Bank Guarantee Format for Mobilization and Construction Machinery Advance | Format Deleted |
| 22 | GCC | Additional Clause of insurance to be added to GCC | 43. INSURANCE The Contractor shall provide, in the joint names of the |

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| | | | <p>Employer and the Contractor, insurance cover from the Start Date to the end of the Defects Liability Period, in the amounts and deductibles stated for the following events which are due to the Contractor's risks:</p> <ul style="list-style-type: none"> (a) loss of or damage to the Works, Plant, and Materials; (b) loss of or damage to Equipment; (c) loss of or damage to property (except the Works, Plant, Materials, and Equipment) in connection with the Contract; and (d) personal injury or death. |
| <p>23</p> | <p>Annexure O Mile Stones</p> | <p>Present Mile stones</p> | <p>Present Mile stones to be replaced by the following mile stones:</p> <p>The time allowed for carrying out the work shall be strictly observed by the contractor and shall be deemed to be essence of the contract and shall be reckoned immediately after 14 days from signing of the agreement.</p> <p>The work shall throughout the stipulated period of contract be proceeded with all due diligence keeping in view that time is the essence of the contract. The contractor shall be bound in all cases to complete the following financial target:</p> <ul style="list-style-type: none"> i. 1/6th of the whole work before 12 months of the contract period of 30 months ii. 1/2nd of the whole work before 18 months of the |

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| | | | <p align="center">contract period of 30 months</p> <p align="center">iii. 3/4th of the whole work before 24 months of the contract period of 30 months</p> <p>Note: The commencement date of the project shall be considered from the date of actual Signing date of Contract Agreement.</p> |
| 24 | Approved Makes | Addl approved make for Power Supply and ICT HDPE Ducts | Duraline, Finolex, Reliance or equivalents duly approved by the employer |
| 25 | Approved Makes | Approved make for Domestic water meters | Zenner, Itron, Dasmesh, Elster and Minolfor or equivalent make after approval of the employer |
| 26 | | Addl Serial no. 9 is to be added in the Annexure E specifications civil works on page no. 18 | 9. If case of ICT and Power Supply ducts the superior specifications mentioned under sub clauses: <u>Specification for Fibre Optic Cable And Communication Cable Installations</u> and <u>HDPE Power duct Specifications</u> wherever mentioned in the RFPshall be followed. |
| 27 | BoQ | BoQ for Water Supply line item no. 3 Unit is not mentioned | Unit for the same is RM |
| 28 | BoQ | BoQ for Water Supply line item no. 5 Unit is not mentioned | Unit for the same is RM |
| 29 | BoQ | BoQ for Laying of OFC line in ABD Area item no. 5 Unit of Measurement is mentioned SqM | BoQ for Laying of OFC line in ABD Area item no. 5 Unit of Measurement is Kg |
| 30 | BoQ | BoQ for Retrofitting of Existing Open storm water Drains item no. 5 Unit of Measurement is mentioned Ton | BoQ for Retrofitting of Existing Open storm water Drains item no. 5 Unit of Measurement is Kg |
| 31 | BoQ | BoQ for Retrofitting of Roads ABD area item no. 9 D Unit of Measurement is mentioned Ton | BoQ for Retrofitting of Roads ABD area item no. 9 D Unit of Measurement is Kg |

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| 32 | BoQ | BoQ for laying of Electrical line duct in ABD area (HDPE) Sr.no. 2 is missing due to typographical error hence mismatching Sl. No. 1 to 5 | BoQ for laying of Electrical line duct in ABD area (HDPE) Sr.no. 2 should be read for item of “Extra lift” and sl no. 2,3 and 4 should be read as S.No. 3,4 and 5 |
| <u>ELECTRICAL ITEMS</u> | | | |
| 1. | 1.0 Scope, Page 66 | The scope of this specification covers the design, manufacture, stage inspection at works, inspection and testing the finished 11 kV Three Core, stranded, compact circular, Aluminium, water blocked conductor, conductor screened with extruded semiconducting compound, water tree retardant (TR) XLPE insulated, insulation screened with extruded semi conducting compound with copper as metallic part, dry cured & dry cooled using triple extrusion through common triple cross head (single point triple extrusion), in combination with water blocking tape , cores laid up with non-hygroscopic fillers including Centre filler, PVC ST2 inner sheathed, galvanized steel strip/GI wire armoured and overall black PE ST 7 sheathed cable conforming to IS:7098 (Part-2) 1985/IEC with latest amendments and as per specification detailed. | The scope of this specification covers the design, manufacture, stage inspection at works, inspection and testing the finished 11 kV Three Core, stranded, compact circular, Aluminium, conductor screened with extruded semiconducting compound, water tree retardant XLPE insulated, insulation screened with extruded semi conducting compound with copper as metallic part, dry cured & dry cooled/Sioplas using triple extrusion through common triple cross head (single point triple extrusion), in combination with water blocking tape below copper tape , cores laid up with non-hygroscopic fillers including Centre filler, PVC ST2 inner sheathed, galvanized steel strip/GI wire armoured and overall black PE ST 7 sheathed cable conforming to IS:7098 (Part-2) 1985/IEC with latest amendments and as per specification detailed. |
| 2. | Page 66 having sub point no. 4.0 | Conductor: The cable conductor shall be made from H2 Grade Aluminium to form compacted stranded circular conductor having resistance within the limits specified in IS: 8130/1984 and any amendment thereof. The wires shall be laid up together with a suitable right hand lay. The conductor shall be water blocked using semi conducting water swellable tape over compacted conductor and shall pass the water penetration test as per IEC-60502-2. | Conductor: The cable conductor shall be made from H2 Grade Aluminium to form compacted stranded circular conductor having resistance within the limits specified in IS: 8130/1984 and any amendment thereof. The wires shall be laid up together with a suitable right hand lay. |

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| 3. | Page 67, having sub point no. 4.2 | The insulation shall be water Tree Retardant (TR) Cross Linked Polyethylene (XLPE) insulation applied by extrusion and shall conform to the following requirements: | The insulation shall be water Tree Retardant Cross-Linked Polyethylene (XLPE) insulation applied by extrusion and shall conform to the following requirements: |
| 4. | Page 67 having sub point no. 4.4 | The curing process of XLPE insulation should be dry cured and dry cooled. | The curing process of XLPE insulation should be dry cured / Sioplas cured. |
| 5. | Page 68, having sub point no. 1. | Insulation Screen: To confine electrical field to the insulation, semi-conducting XLPE shield shall be put over the insulation. The insulation shield shall be extruded in the same operation as the conductor shield and the insulation by triple extrusion and shall be as IS: 7098 Part 2, Copper Tape of 10% Overlap, water blocking tape shall be applied over the semiconducting compound. | Insulation Screen: To confine electrical field to the insulation, semi-conducting XLPE shield shall be put over the insulation. The insulation shield shall be extruded in the same operation as the conductor shield and the insulation by triple extrusion and shall be as IS: 7098 Part 2, Copper Tape of 10% Overlap, water blocking tape shall be applied over the semiconducting compound and below copper tape. |
| 6. | Bill of Quantity for electrical works, Item No. 36, page no. 196 | 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. | 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./Aluminium grooved round tubular Pipe sections having steps. The minimum thickness of pole should be 3mm. The bottom part of the pole should be of 105 to 115 mm diameter and top part diameter 85 to 95 mm. Both the sections should be joined together by means of welded joints. A base plate of dimension diameter 380 to 430 mm x 15 mm thick should be joined with the pole at the bottom through welded joints. The pole may be reinforced internally with a pipe inside if required. A cast iron pedestal to be fitted on the pole at bottom by grub |

CORRIGENDUM- II

Date: 22.01.2018

NIT No.: - 27 USCL/2017-18; **Date:** 30-11-2017

Name of Work: -“Investigation, survey, detailed design and execution of retrofitting & reconstruction of roads consisting of up-gradation, augmentation, retrofitting of existing 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 UjjainSmart City Project”.

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| | | | screw fixing. |
| 7. | Page 75, APPROVE D MAKES, Point No. 4 (LT Switchgear) | Siemens / ABB / Schneider / Legrand / L&T | Siemens / ABB / Schneider / Legrand / L&T/ C&S Electric |
| 8. | Page 38, clause 2.16 | TECHNICAL SPECIFICATION OF 11KV SF6 METAL ENCLOSED, INDOOR RING MAIN UNIT (RMU with VCB quenching) | TECHNICAL SPECIFICATION OF 11KV SF6 METAL ENCLOSED, INDOOR AND OUTDOOR (IP 54 ENCLOSURE TYPE) RING MAIN UNIT (RMU with VCB quenching and cable isolators) |
| 9 | Page No. 42, Clause 2.20 | Note: The SCADA system should be supplied complete with SCADA software and SCADA programming software and state of art PC with all required hardware and software. | Note: The wireless remote SCADA system should be supplied complete with SCADA software and SCADA based Distribution System Management software and SCADA programming software, state of art server grade PC with all required hardware and software. The SCADA system should be able to integrate all distribution substations FRTU data and should in real time monitor, analyse, control, command, measure, generate event alerts and perform load management functions. |
| 10 | | | To be uploaded with corrigendum in PDF form. However, design- drawing and estimates are for reference, contractor is supposed to carry out all sorts of investigations, design and drawings. |