



ODISHA POWER TRANSMISSION CORPORATION LIMITED

(A Govt. of Odisha undertaking)

CIN – U40102OR2004SGC007553

REGD. OFFICE: JANPATH, BHUBANESWAR-751022,

OFFICE OF THE DGM (ELECT) E.H.T. (O & M) DIVISION: BHUBANESWAR

QRS.NO. 3R-1(S), GRIDCO COLONY, PO: BHOINAGAR, BHUBANESWAR-22

PHONE NO.2542287, e-Mail – ehm.div.bbs@optcl.co.in

TENDER SPECIFICATION NO: 01/2018-19

OF

EHT (O&M) DIVISION, BHUBANESWAR

FOR

**“SUPPLY AND ERECTION OF TUBULAR STREET LIGHT POLES ALONG WITH
SUPPLY AND FIXING OF 90 WATT LED BASED STREET LIGHT FITTINGS COMPLETE
WITH CABLE, PIPE AND ALL OTHER ACCESSORIES FOR GRID SUB-STATION
CHANDAKA”**

COST OF TENDER DOCUMENT

Rs.2000/- + 12% GST = Rs.2,240.00 /-



ODISHA POWER TRANSMISSION CORPORATION LTD

(A Govt. of Odisha undertaking)

CIN – U40102OR2004SGC007553

REGD. OFFICE: JANPATH, BHUBANESWAR-751022,

OFFICE OF THE DEPUTY GENERAL MANAGER (ELECT)

E.H.T. (O & M) DIVISION: BHUBANESWAR

QRS.NO. 3R-1(S), GRIDCO COLONY,

PO: BHOINAGAR, BHUBANESWAR-22

PHONE NO.2542287, e-Mail – ehm.div.bbs@optcl.co.in

TENDER SPECIFICATION FOR TENDER CALL NOTICE NO. 01/2018-19

OF EHT (O&M) DIVISION, BHUBANESWAR

- | | |
|---|--|
| 1. SECTION-I | Instruction to tenderers |
| 2. SECTION-II | General Terms and Conditions of Contract. |
| 3. SECTION-III | Technical Specification. |
| 4. SECTION-IV | Price Schedule |
| 5. SECTION-V | Annexures |
| 6. Price of tender document | Rs. 2000/-+ 12 % GST =Rs 2,240.00 /-
(Rupees Two thousand two hundred and forty only)
By Cash / By Bank draft to be drawn in favour of EHT (O&M) Division, OPTCL, Bhubaneswar.
(Non-Refundable) |
| 7. COMMENCEMENT OF SALE OF TENDER PAPER | 04.09.2018 (10.30AM to 5 P.M.) |
| 8. LAST DATE OF SALE OF TENDER PAPER | 24.09.2018 (10.30AM to 5 P.M.) |
| 9. LAST DATE & TIME OF RECEIPT OF TENDER PAPER | 25.09.2018 Up to 3P.M. |
| 10. DATE & TIME OF OPENING OF TENDER | 25.09.2018 at 3.30 P.M. |

SECTION-I

INSTRUCTION TO TENDERERS

1. The bidders are requested to read in detail the “Instruction to Bidder” “General terms and conditions” and “Technical Specification” before filling the Tender documents. There are five sections in this Tender Specification.
2. **TENDERS:**
 - a) Experienced contractors having HT/MV contractor license issued by Govt. of Odisha / Govt. of India / Railways / Military for the work *“Supply and erection of tubular street light poles along with supply and fixing of 90 watt LED based street light fittings complete with cable, pipe and all other accessories for Grid sub-station Chandaka”* make having valid Pan card, GST registration and clearance certificate are only eligible to participate in the tender.
 - b) Bidders must submit their bids in duplicate with original signature.
 - c) Tender must be submitted in sealed envelopes, super scribed as **Supply and erection of tubular street light poles along with 90 watt LED based street light fittings for Grid sub-station Chandaka against this office OTCN No: 01/2018-19 due on Dt. 25.09.2018 for opening at 3.30 P.M** and addressed to **Deputy General Manager, EHT (O&M) Division, Bhubaneswar**. Bidder should not write their name or Agency name on the body of the sealed envelope which may make the offer liable for rejection. The tender shall be received by this office up to 3.00 P.M Dt.25.09.2018. The tenders will be opened on the same day at 3.30 PM in presence of the bidders or their authorized representative if any.
 - d) Tender shall be submitted either in person or by Registered post with A.D/courier service. Any other means of delivery shall not be accepted. **Detailed postal address with PIN, phone No./ E-Mail ID must be mentioned in the application requesting for Tender document and on the Tender Bid.** The Tender submitted in person is to be dropped in the Tender Box. The Tender received after due date and time will not be considered. The authority will not be responsible for receipt of Tender after due date and time due to postal delay or any other reasons.
 - e) Conditional offers will not be accepted.
 - f) If the last date of receipt of tender and its opening is a holiday, it will be received and opened on the next working day in same time.
 - g) **Bidders shall quote for all items. Quotation for individual or part items will not be entertained.**
 - h) The bidders shall sign on all pages of the tender document as a token of acceptance of all terms and conditions thereof and submit his quotations therein.
3. **EARNEST MONEY DEPOSIT (EMD):** The tender must be accompanied by 1% (one percent) of the tendered value (TOTAL including taxes) as EMD in shape of **Bank Draft** drawn in favour

of **EHT (O&M) Division, OPTCL, Bhubaneswar, Payable at Bhubaneswar**. The EMD of successful Tenderers will not be adjusted towards security deposit and shall be refunded on written request after receipt of security deposit. The EMD of all unsuccessful Tenderers shall be refunded on written request after finalization of Tender. No interest shall be paid on E.M.D.

4. **FORFEITURE OF E.M.D.:**

- a) In the event the successful Tenderers failing to accept the work order and supply the materials as per the technical specification EMD so deposited shall be forfeited.
- b) Any deviation from the terms and conditions of the contract awarded, may also lead to forfeiture of EMD without any notice.
- c) **The EMD not claimed for refund within a period of one year from the date of issue of purchase / work orders, shall be forfeited**

5. **INFORMATION OF COMPETITORS:** Bidders have the right to know information on competitors only at the time of opening of the bids. No further information on competitors shall be provided at any other point/stage of the tender without prejudice to Right to Information Act 2005.

6. **OPENING OF TENDERS :**

- a) Copy of PAN Card and GST Registration number & clearance certificate and valid HT/MV Contractor license should be enclosed with the tender, which should be valid on the date of opening of the tender. **The Tenderers may be asked to produce all original documents for verification any time after the bid opening. If any Tenderer fails to produce the same his tender shall be out rightly rejected.**
- b) Tenderers themselves or their authorized representatives (possessing authorization letter in original) shall be allowed to attend opening event of the tender.

7. The purchaser may alter the quantities of materials / volume of work at the time of placing orders. Orders may also be split up among more than one tenderer if necessary in the interest of OPTCL. **Only those who have purchased the tender specification in the name of their firm from this office can submit their tender. Tenders submitted by others will be rejected.**

8. The Tenderers may please note that the Word 'item' in the paragraph shall mean the materials / equipment as specified in the 'Tender Specification'. In case of deviations, the decision of the purchaser shall be final.

9. **The DGM, EHT(O&M) Division Bhubaneswar reserves the right to reject the lowest or any other tender or all tenders without assigning any reason what so ever.**

10. Tenders should be prepared neatly and without any overwriting and corrections. Erasures and other changes shall bear the dated initial of the person signing the tender.

11. In the event of discrepancy or arithmetical error in the schedule of price, the decision of the purchaser shall be final and binding on the tenderer.

12. The tenderers are advised to visit the site and make them acquainted with the site condition before submission of tender.
13. For evaluation, the price mentioned in words shall be taken if there is any difference in figure and words in the price bid.
14. **The tenderers are required to MENTION the name of the manufacturer for supply of each item quoted by them as per Part A of Price Schedule. The quoted price must be supported by the technical literature and the company price list, where ever applicable.**
15. All other Terms and Conditions of OPTCL purchase rules shall be applicable.
16. **The tenders shall be out rightly rejected if they do not comply with the following requirements.**
 - a) Tenderers should have purchased the relevant specification from the office of the Deputy General Manager, EHT (O&M) Division, Bhubaneswar.
 - b) Tenders shall be submitted in person or by Registered post with A.D/Courier service. Tenders received after due date and time will be summarily rejected.
 - c) Tenders shall not be submitted telegraphically or by FAX.
 - d) Tenders shall be accompanied with the Bank draft towards prescribed earnest money deposit.
 - e) Tenders shall be kept **valid for a minimum of 120 days** from the date of opening of the tender.
 - f) The tender shall not be conditional.
 - g) The registered bidders shall have to mention the item wise manufacturer's name and description of items under Part –A of Price Schedule thereof in their tender.
 - h) There must not be any violation to the terms & conditions set forth and provided in the tender specification.
 - i) Non submission of the following documents:
 - i) Copies of I.T. Pan card
 - ii) Valid GST registration certificate
 - iii) Copy of valid HT/MV contractor license
 - iv) Original EMD in shape of cash deposited in this office / D.D. / Pay order.
 - j) The tenderer shall confirm to the technical specification at Section - III and submit the signed copy of the technical specification along with completely filled detailed specification of street light along with the bid documents.

Sd/-

**DEPUTY GENERAL MANAGER
EHT (O&M) DIVISION, BHUBANESWAR**

SECTION-II

GENERAL TERMS AND CONDITIONS OF CONTRACT

- 1. SCOPE OF CONTRACT:** The scope of contract covers *Supply and erection of tubular street light poles along with supply and fixing of 90 watt LED based street light fittings complete with cable, pipe and all other accessories for Grid sub-station Chandaka* with supply of all required materials as per the technical specification and price schedule at Section-IV with transport to different sites by the contractor at his own cost. The scope also covers supply of all materials those are not covered in the specification but may be required at the time of execution, labour, T&P, transportation & mobilization to site to complete the work in all respect.
- 2. MANNER OF EXECUTION:-** The work is to be executed by following the standard civil / electrical engineering procedure and as per instruction of the site engineer and technical specification of this tender. The contractor shall have to provide the tubular Street Light Poles along with cross arm, Light fittings along with Surge Protection Device, HDPE pipes, different sized cables, MCBs, earthpits and all other required materials which are not included in the scope of the work but may be required at the time of execution for satisfactory completion of the job. All material, T&P and labour are to be supplied by the contractor. The material to be used for this work shall confirm to the relevant IS and as per the technical specification and satisfaction of the site in-charge.
- 3. PRICE:** The bidders are advised to quote their rates as per price schedule Section-V .The price should be firm and shall include the cost of all the materials, labour, transportation of all the materials to site including mobilization to complete the work in all respect and also shall cover all incidental expenses towards execution of works including T&P etc. Taxes if any to be specified.
- 4. COMPLETION PERIOD:** The work shall be completed within **60 days** from the date of issue of work order along with supply and fixing of all materials as per specification and as per the direction of the Engineer-in-charge.
- 5. EXTENSION OF TIME:** If the work completion is delayed due to any reason beyond the control of supplier, the supplier shall without delay give notice to the purchaser in writing for an extension of time with detail justification. The purchaser on receipt of such notice may agree to extend the contract delivery date if reasonable but without prejudice to other terms and conditions of this contract.
- 6. VALIDITY:** Price with terms and conditions of the offer shall be valid for a minimum period of **120 days** from the date of opening of tender failing which their tenders will be rejected.
- 7. INSURANCE:** Insurance of materials is to be done by the supplier at his own cost. The responsibility of delivery of the materials at destination in good condition rests with the supplier. Any claim with the insurance company Railway authority/Road transport authorities arising due to loss or damage in transit has to be settled by the supplier. The supplier shall undertake free

replacement of materials damaged or lost which will be reported by the consignee within 30 days of the receipt of the materials at destination without waiting for the settlement of the claims with the carriers and underwriters.

- 8. TERMS OF PAYMENT:** 100% payment with taxes and duties will be paid after completion of the work in all respect which shall be certified by the executing officer subject to approval of guarantee certificate and availability of funds.
- 9. PAYING OFFICER & CONSIGNEE:** DGM EHT (O&M) Division, Bhubaneswar shall be the paying officer for the work carried out in Chandaka Grid Substation and AGM, In-Charge of Chandaka Grid Substation shall be the Consignee and supervising officer.
- 10. PENALTY FOR DELAY IN COMPLETION:** If the work is not completed within the scheduled completion period as stipulated under Clause No.4 (Section-II) of this tender specification or any extension granted thereto, the purchaser shall recover from the supplier the penalty for a sum of half percent (i.e. 0.5 percent) of the contract price for each calendar week or part thereof of delay. However the total amount of penalty shall not exceed 5% (five percent) of the cost of undelivered items.
- 11. GUARANTEE PERIOD:** The Supply & Installation work by the contractor as per contract specification should be guaranteed for satisfactory, trouble free operation and against any defects, in materials & the workmanship for a period of 18 months from the date of completion of the contract or 12 months from the date on which transmission lines/Sub-stations equipment has been put to service, whichever is earlier. The above guarantee certificate shall be furnished in triplicate to the undersigned for approval along with contract completion certificate of consignee. Any defects noticed during the period shall be rectified/replaced by the bidders at its own cost, without any financial burden to OPTCL.
- 12. GST REGISTRATION CERTIFICATE, PAN CARD & HT/MV CONTRACTOR LICENSE (wherever applicable) :** Self attested legible Xerox copies of Income Tax PAN Card, GST Registration Certificate, valid on the date of opening of the tender, and authorized dealership certificate (wherever applicable) should be submitted along with tenders without which tender will be rejected at the time of opening. If required, the firm may be asked to produce original documents for verification any time after opening of the tender. Those who fail to produce the same and found not to be valid on the date of opening of the tender, their tenders will be rejected.
- 13. TEST CERTIFICATE:** The test certificates of the street light, light pole etc. as per the technical specification (Section-III) and stipulation of relevant Indian Standard shall be submitted along with the tender.
- 14. SUBMISSION OF PROOF REGARDING MANUFACTURER'S CERTIFICATE/ AUTHORISED DEALERSHIP CERTIFICATE, PRICE LIST OF THE**

MANUFACTURER, PAST EXPERIENCE OF EXECUTION OF ORDER, PERFORMANCE CERTIFICATE, TECHNICAL LITERATURE AND DRAWING: Self attested legible Xerox copies of necessary Manufacturer's certificate, valid authorized dealer certificate, Manufacturer's Price list and technical literature etc. should be furnished along with the tender. If required, the firms may be requested to produce such original certificates for verification. Past experience of execution of Purchase Orders needs to be furnished by the bidders. The tender shall be accompanied with dimensional drawing and technical literature, manuals if any.

15. COMPENSATION:- The contractor shall be fully responsible for paying compensation, if any under the Workmen Compensation Act on account of workmen deployed by him. OPTCL will no way be responsible for payment of any compensation.

16. FREE REPLACEMENT: Free replacement of materials lost/damaged due to transit shall be made immediately on receipt of the intimation from the consignee / Paying Officer without waiting for settlement of the claim of bidders with Railway / Lorry / Insurance Company.

17. SECURITY - CUM - PERFORMANCE DEPOSIT: Security Deposit-cum-Performance Guarantee amounting to 10% of the contract value **valid up to two months after the guarantee period** shall be deposited within 10 days (Ten days of placement of Purchase order in the shape of DD/Composite B.G. from a Nationalized Bank, having a place of business in Bhubaneswar, drawn in favour of EHT (O&M) Division, OPTCL, Bhubaneswar which will be refunded after two months of completion of the Guarantee period on written request subject to approval of guarantee certificate. The B.G. format will be issued by the purchaser during the placement of the work order. In the event of any breach or default in all or any condition of Purchase Order, security deposit will be forfeited. In case the security amount is not deposited, the same shall be deducted from the bill of the supplier.

18. STANDARDS: The materials offered shall confirm to relevant IS.

19. QUANTITY VARIATION: The quantity of the work may undergo revision at the time of placement of orders.

20. JURISDICTION OF COURT: For the purpose of jurisdiction of Court in the event of any dispute shall be deemed to have entered into any Court of law at Cuttack to which the jurisdiction of Odisha High Court extends and it is hereby expressly agreed that neither party shall be competent to bring a suit in regard to the matter covered by this purchase at any place outside in State of Odisha.

21. SAFETY PRACTICE:- The Bidder must be followed the OPTCL safety Rule while performing the Installation work (if required). The workmen must be provided with safety equipment by the contractor while performing the works .No deviation will be allowed and the Divisional head has got any power to stop the work at any time on the breach of safety practice after getting intimation from consignee.

22. EMPLOYMENT / LIABILITY:- The Bidder shall be solely and exclusively responsible for engaging the workmen. All workmen engaged by the bidder shall be on his pay roll and paid by him. The company will have no liability what so ever concerning the workmen of the bidder. The Bidder shall indemnify OPTCL against all loss or damage arising out of or in the course of his employing persons or out of his relations with his employees. The Bidder shall make regular and full payment of all wages and allowances to its workers/ employees. The bidder shall be directly responsible for any disputes arising between him and his employees and keep the officer-in-charge (OPTCL) indemnified against losses, damages or claims arising thereof including any workmen compensation etc.

23. TAXES & DUTIES:-The income tax and any other statutory taxes if any shall be deducted at the prevailing rates. GST / OB & OC will be paid as applicable by Govt. Rule.

Sd/-
DEPUTY GENERAL MANAGER
EHT (O&M) DIVISION, BHUBANESWAR

SECTION- III
TECHNICAL SPECIFICATION

Part-A			
Sl. No.	Description	Unit	Qty.
1	<p>Supply and erection of Galvanized octagonal pole, which shall be single pole section. There shall not be any circumferential weld joint. The pole shall be hot deep galvanized as per I.S.-2629 I.S.-2633/I.S.-4799 standard with average coating thickness of 70micron. The galvanization shall be done in single Deeping. The pole shall be bolted on precast foundation with a set of four foundation bolts for greater rigidity. The galvanized mounting single armed bracket shall be supplied along with the pole for installation of the luminaries as per the design. The pole shall have door of approximate 500mm length at the elevation of 500mm from the base plate. The door shall be vandal resistant and shall be weather proof to ensure the safety of inside connection. The door shall be flush with the extension surface and shall have suitable locking arrangement with 4pin loop in loop out system with 06 amps MCB & connector arrangement. There shall be suitable arrangement for the purpose of earthing, Cable gland at bottom of suitable size for entry & exit of 16 Sq. mm, 3 and ½ core, armoured aluminium cable. The poles shall be adequately strengthened at location of door to compensate for loss in section.</p> <p>Specification of pole: Height of pole: 7Mtr., Top Dia: 104mm, Bottom Dia: 160mm, thickness:3mm, Base plate dimension:(LxBxT) 275mmx275mmx16mm, Foundation of pole Steel grade EN-8, Bolt Size-(NoxDia) 4x24mm, Pitch Circle dia: 270mm, Projected bolt length: 125mm, Single arm designer bracket length: 1Mtr. Long.</p> <p>**500 mm to 1500 mm long or suitable size as per design of the company (galvanized as above) single cross arm made out of G.I tubular pipes class B of suitable size and welded fit to the top of above pole and MS plate for rigidity between cap and pipe with provision of passing electrical cable from the pole to the end of cross arm for connection of street light LED luminaries.</p>	Nos	10
2	<p>Supply & fixing of lighting fixture of 90watt LED street light (Make-Havells/ Crompton/ Phillips/ Surya/ Pyrotech) having power coated pressure dia cast Aluminium housing clear toughened glass having following specification. LED LM80 certified high power LED, Lens: Suitable secondary lens for better light distribution, Gear: Integral electronic constant current driver of min 85% efficiency, Internal wiring: Teflon insulated, Cu Conductor, Hardware: SS& MS Zinc plated & passivated , Ingress Protection: IP 66 and above, Lumen Maintenance: 50,000 Hrs @ L70, Operating Temperature: 10° C to 50° rated Voltage: 240V, 50Hz AC, Wattage: 90±10%, Current: ,0.43A, PF:<10%, Lumen: 7700Lm, Efficiency:>85Lm/W, CCT:5700K, CRI:>70, Weight: 4.Kg. Protections: Open & Short Circuit protection, reverse polarity operation & Surge protection.</p>	Set	10
3	<p>Supply, delivery, laying, testing complete as required and as per the direction of engineer in charge of 3.5 x 16 Sq. mm Aluminum armored PVC cable with its protection 40 mm dia HDPE (H) pipes with excavation of 750 mm deep cable trench in all kinds of soil and rock (other than granite) and back filling with Excavated soil from panel to pole to pole as before. The cables shall have ISI marking and name of the manufacturer on the body of the cable.</p>	Mtr	110
4	<p>Supply & fixing of 2.5Sq. mm x 3Core PVC Insulated Flexible Copper wire to light fitting. The wires shall have ISI marking and name of the manufacturer on the body of the cable.</p>	Mtr	120
5	<p>Supply of 4 pole 63A MCB of any reputed make (Legrande / L&T / Schneider / C&S).</p>	No	1

Part -B

Sl. No.	Description	Uom	Qty.
1	Excavation of pole pit in all kind of soil including rock of all verity of size 1600mm with filling of sand to a height of 300mm and then laying foundation of reinforced cement concrete (1:2:4) of 600mmX 600 mmX900 mm high with granite metal of nominal size 20mm to 25mm including side shuttering and grouting of foundation bolts and supply and erection of pole as required including provision for passage of cables and finishing the surface with 1:4 ratio cement plaster finished smooth over RCC surface, painting two coat of paint with weather proof cement paint over one coat of primer and carriage of excavated materials with 5Kms lead by mechanical means cost, conveyance, royalty, taxes etc. all complete as per the OPWD specification and direction of Engineer-in-Charge(Approximately(1cum)/set).	Sets	10
2	Breaking of existing concrete foundation for replacement /renovation work as per the instruction of Engineer in-charge(Including supply of T&P ,Labour etc necessary for the work) = 0.1 X 0.75 X 15 = 1.125 Cum	Cum	1.125
3	Foundation and reinforcement : Supply of all materials ,good quality planks ,ballas ,shuttering ,supply of good quality 20mm machine broken granite chips , good quality river sand and concreting wirh M-150 grade concrete in ratio (1:1.5:3) with cost of cement and without steel 0.1 X 0.75 X 15 = 1.125 Cum	Cum	1.125
4	Excavation (depth upto 0.650 mtr) & back filling with sand / loose soil for laying of cable as per instruction of Engineer-In-Charge and disposal of surplus excavated earth (after back filling) and laying and termination of cable (0.65mtr x 0.75mtr x 85mtr) = 41.43 cum.	Cum	41.43
5	Supply, Installation, Testing & Commissioning of GI Coil (8SWG/ 115 Turn) Earthing including excavation of earth pit in all kind of soil or rock, filling with bentonite powder, connection to earthing stud bolts of the pole complete including supply of all material, labor & T&P.	Nos	10
6	Installation / Fitting of 63Amp 4 Pole MCB in the AC Panel available at site including cutting of the panel, making holes through drill machine, welding, etc.	No	1

Sd/-

**DEPUTY GENERAL MANAGER
EHT (O&M) DIVISION, BHUBANESWAR**

DETAILED TECHNICAL SPECIFICATION FOR 90 W LED STREET FITTING IN COMPLETE SHAPE:

INPUT VOLTAGE: 150-300 V AC (SINGLE PHASE)

POWER CONSUMPTION: 90 WATT INCLUDING DRIVER

FIXTURE: ALUMINIUM EXTRUSION HEAT SINK HOUSING

COVER: BOTH SIDE UV POLYCARBONATE CLEAR COVER LENS

LENS: 55 TO 60 DEGREE SECONDARY OPTICAL LENS

MAKE OF LED: CREE, NICHIA ,OSRAM AND PHILLIPS LUMILEDS

LED USE: DISCRETE CERAMIC HIGH POWER LED

MAKE OF LENS: LEDIL

COLOUR: COOL WHITE 5300 TO 6000K

LUMINAS FLUX: NOT LESS THAN 7700 LUMEN

POWER FACTOR :> 0.9

PROTECTION: IP-66

EFFICIENCY:>=85 Lumen/W.

CRI>70

SURGE PROTECTION: INTERNAL 4 KV IN DRIVER +5 KV EXTERNAL SPD .

POLE ENTRY/ RETRO FITTING : SUITABLE FOR FIXING IN EXISTING LIGHTING POLE (30 MM TO 55MM DIA WITH BRACKET AND LOCKING BOLT & NUT..

CONFIRMATION TO STANDARDS: Should confirm to IS:16106-2012 & LM 80 Test report from NABL/GOVT. Approved Lab Adhered By the Manufacturer

(LUMINARY MANUFACTURE HAS TO SUBMIT AUTHORISATION CERTIFICATE FROM LED CHIP MANUFACTURE LIKE (CREE,NICHIA AND PHILIPS LUMILEDS)

**DETAILED SPECIFICATION SHEET FOR 90W LED BASED STREET LIGHT TO BE
FURNISHED BY THE TENDERERS.**

1. Name of the contractor with detailed postal address & Phone No.:
2. Input Voltage-
3. Power consumption-
4. Fixture-
5. Size-
6. Cover-
7. Lens-
8. Make of LED-
9. Colour-
10. Luminous flux-
11. Power factor-
12. Driver-
13. Protection-
14. Surge protection-
15. Mounting-
16. End cap-

Date :

Signature of the Tenderer with Seal

Place :

SECTION IV

PRICE SCHEDULE

SUPPLY AND ERECTION OF 7 NOS. OF 90 WATT STREET LIGHT WITH POLE AT GRID SUB-STATION, SALIPUR

PART-A							
Sl. No.	Description	Unit	Qty.	Unit Prices	GST	Unit landing price with GST	Total landing price
1	<p>Supply and erection of Galvanized octagonal pole, which shall be single pole section. There shall not be any circumferential weld joint. The pole shall be hot deep galvanized as per I.S.-2629 I.S.-2633/I.S.-4799 standard with average coating thickness of 70micron. The galvanization shall be done in single Deeping. The pole shall be bolted on precast foundation with a set of four foundation bolts for greater rigidity. The galvanized mounting single armed bracket shall be supplied along with the pole for installation of the luminaries as per the design. The pole shall have door of approximate 500mm length at the elevation of 500mm from the base plate. The door shall be vandal resistant and shall be weather proof to ensure the safety of inside connection. The door shall be flush with the extension surface and shall have suitable locking arrangement with 4pin loop in loop out system with 06 amps MCB & connector arrangement. There shall be suitable arrangement for the purpose of earthing, Cable gland at bottom of suitable size for entry & exit of 16 Sq. mm, 3 and ½ core, armoured aluminium cable. The poles shall be adequately strengthened at location of door to compensate for loss in section.</p> <p>Specification of pole: Height of pole: 7Mtr., Top Dia: 104mm, Bottom Dia: 160mm, thickness:3mm, Base plate dimension:(LxBxT) 275mmx275mmx16mm, Foundation of pole Steel grade EN-8, Bolt Size-(NoxDia) 4x24mm, Pitch Circle dia: 270mm, Projected bolt length: 125mm, Single arm designer bracket length: 1Mtr. Long.</p> <p>**500 mm to 1500 mm long or suitable size as per design of the company (galvanized as above) single cross arm made out of G.I tubular pipes class B of suitable size and welded fit to the top of above pole and MS plate for rigidity between cap and pipe with provision of passing electrical cable from the pole to the end of cross arm for connection of street light LED luminaries.</p>	Nos	10				
2	<p>Supply & fixing of lighting fixture of 90watt LED street light (Make-Havells/ Crompton/ Phillips/ Surya/ Pyrotech) having power coated pressure dia cast Aluminium housing clear toughened glass having following specification. LED LM80 certified high power LED, Lens: Suitable secondary lens for better light distribution, Gear: Integral electronic constant current driver of min 85% efficiency, Internal wiring: Teflon insulated, Cu Conductor, Hardware: SS& MS Zinc plated & passivated , Ingress Protection: IP 66 and above, Lumen Maintenance: 50,000 Hrs @ L70, Operating Temperature: 10° C to 50° rated Voltage: 240V, 50Hz AC, Wattage: 90±10%, Current: ,0.43A, PF:<10%, Lumen: 7700Lm, Efficiency:>85Lm/W, CCT:5700K, CRI:>70, Weight: 4.Kg. Protections: Open & Short Circuit</p>	Set	10				

	protection, reverse polarity operation & Surge protection.					
3	Supply, delivery, laying, testing complete as required and as per the direction of engineer in charge of 3.5 x 16 Sq. mm Aluminum armored PVC cable with its protection 40 mm dia HDPE (H) pipes with excavation of 750 mm deep cable trench in all kinds of soil and rock (other than granite) and back filling with Excavated soil from panel to pole to pole as before. The cables shall have ISI marking and name of the manufacturer on the body of the cable.	Mtr	110			
4	Supply & fixing of 2.5Sq. mm x 3Core PVC Insulated Flexible Copper wire to light fitting.	Mtr	120			
5	Supply of 4 pole 63A MCB of any reputed make	No	1			
6	PART-A Total =					

Part-B					
Sl. No.	Description	Uom	Qty.	Rate / Unit	Total Amount (in Rs)
1	Excavation of pole pit in all kind of soil including rock of all verity of size 1600mm with filling of sand to a height of 300mm and then laying foundation of reinforced cement concrete (1:2:4) of 600mmX 600 mmX900 mm high with granite metal of nominal size 20mm to 25mm including side shuttering and grouting of foundation bolts and supply and erection of pole as required including provision for passage of cables and finishing the surface with 1:4 ratio cement plaster finished smooth over RCC surface, painting two coat of paint with weather proof cement paint over one coat of primer and carriage of excavated materials with 5Kms lead by mechanical means cost, conveyance, royalty, taxes etc. all complete as per the OPWD specification and direction of Engineer-in-Charge(Approximately(1cum)/set).	Sets	10		
2	Breaking of existing concrete foundation for replacement /renovation work as per the instruction of Engineer in-charge(Including supply of T&P ,Labour etc necessary for the work) = 0.1 X 0.75 X 15= 1.125 Cum	Cum	1.125		
3	Foundation and reinforcement : Supply of all materials ,good quality planks ,ballas ,shuttering ,supply of good quality 20mm machine broken granite chips , good quality river sand and concreting wirh M-150 grade concrete in ratio (1:1.5:3) with cost of cement and without steel = 0.1 X 0.75 X 15= 1.125 Cum	Cum	1.125		
4	Excavation (depth upto 0.650 mtr) & back filling with sand / loose soil for laying of cable as per instruction of Engineer-In-Charge and disposal of surplus excavated earth (after back filling) and laying and termination of cable (0.65mtr x 0.75mtr x 85mtr) = 41.43 cum.	Cum	41.43		
5	Supply, Installation, Testing & Commissioning of GI Coil (8SWG/ 115 Turn) Earthing including excavation of earth pit in all kind of soil or rock, filling with bentonite powder, connection to earthing stud bolts of the pole complete including supply of all material, labor & T&P.	Nos	10		
6	Installation / Fitting of 63Amp 4 Pole MCB in the AC Panel available at site including cutting of the panel, making holes through drill machine, welding, etc.	No	1		
Total					
GST @18%					
Total Part-B					
G. Total Part-A + B					
PART - C					

In words: (.....
.....) Only

Signature of the Tenderer with Seal

Date:

SECTION –V

ANNEXURE-I

ABSTRACT OF TERMS AND CONDITIONS

(This performa should be filled with all information and should be furnished along with the tender)

1(a)	Cost of Tender Document: OPTCL Money Receipt No. & Date / D.D No & Date.	
1(b)	Earnest money deposit (deposited in shape of Bank Draft/Pay Order/Bankers Cheque): (a) Name of the Bank: (b) Amount deposited: (c) Bank Draft No. & Date:	
2	Whether Attested copy of valid MV/HT contractor License furnished or not.	Yes/No
3	Bidders' past experience including user's performance certificate furnished or not	Yes/No
4	Security-cum-Performance Guarantee (Whether agreeable to OPTCL terms)	Yes/No
5	Guarantee:- Whether agreeable to OPTCL's terms.	Yes/No
6.	Whether agreeable to furnish Composite B.G. in case his tender be successful	Yes/No
7.	Terms of payment:- Whether agreeable to OPTCL's terms or not	Yes/No.
8.	Nature of price:- FIRM	Yes/No
9.	Penalty:- Whether agreeable to OPTCL's terms or not	Yes/No
10.	Validity: - Whether agreeable to OPTCL's terms or not	Yes/No
11.	Whether recent type test certificates for 90W LED Street Light and Galvanised Tubular Poles from any Government approved laboratory are furnished or not.	Yes/No
12.	Whether materials are ISI/ISO marked.	Yes/No
13.	Furnished Manufacturer's name and its trademark for 90W LED Street Light and Galvanized Tubular Poles.	Yes/No
14.	Copy of GST Registration & clearance Certificate furnished	Yes/No
15.	Copy of PAN furnished:	Yes/No
16.	Technical literature & manufacturer's price list furnished	Yes/No
17.	Detailed technical specification for 90W LED street light	Yes/No
18.	Whether declaration form duly filled in furnished or not.	Yes/No.
19.	Agreed to all terms and conditions of the tender specification	Yes/No

(Strike off whichever is not applicable)

Signature of the Tenderer with Seal

Date:

Place:

ANNEXURE-II
BIDDER'S INFORMATION

SL NO	The bidder shall furnish general information in the following format	
	NAME OF THE BIDDER	
1	Address:-	
2	City	
3	Pin Code	
4	Contact person's Name :-	
5	Telephone No. office & Residence:-	
6	FAX No:-	
7	EMAIL:-	
9	GST REGISTRATION NO.	
10	PAN NO.	

Signature of the Tenderer with Seal

Date:

Place: