



ଓଡ଼ିଶା ଶକ୍ତି ସଂଚାରଣ ନିଗମ ଲିଃ.

ODISHA POWER TRANSMISSION CORPORATION LTD.
(A Government of Odisha Undertaking)

E.H.T. (O&M) DIVISION, KESINGA

TENDER SPECIFICATION
FOR

TENDER CALL NOTICE No. - 06/2022-23

“SUPPLY OF 70 NOS. OF 150W LED FLOOD LIGHTS WITH COMPLETE FITTINGS & 5 NOS. OF 100W LED STREET LIGHTS WITH COMPLETE FITTINGS FOR DIFFERENT GSS UNDER EHT(O&M) DIVISION, KESINGA”.

PRICE - Rs.2000/- + 18% GST = Rs.2,360/-

CONTENTS

1. SECTION –I : INSTRUCTIONS TO TENDERERS.
2. SECTION –II : GENERAL TERMS & CONDITIONS OF CONTRACT.
3. SECTION –III : ABSTRACT OF TERMS AND CONDITIONS.
4. SECTION –IV : BIDDER’S INFORMATION
5. SECTION –V : PRICE BID.
6. SECTION – VI : DECLARATION FORM
7. SECTION –VII : TECHNICAL SPECIFICATION.
8. PRICE OF TENDER : Rs. 2,000 /-+ 18 % GST = 2,360/-
DOCUMENT (Rupees Two thousand Three Hundred Sixty only)
By Cash/Bank draft drawn in
favor of EHT (O&M) Division, Kesinga
(Non Refundable)
9. COMMENCEMENT OF SALE : Dt.04.11.2022
OF TENDER PAPER.
10. LAST DATE OF SALE OF : Dt.17.11.2022 (Up to 12.00 PM)
TENDER PAPER.
11. LAST DATE & TIME OF : Dt.17.11.2022 (Up to 2.00 PM)
RECEIPT OF TENDER PAPER.
12. DATE & TIME OF OPENING : Dt.17.11.2022 at 4.30 PM
OF TENDER

SECTION-I

INSTRUCTIONS TO TENDERERS

1. The bidders must read in detail the “Instructions to Tenderers”, “General terms and conditions of Contract” and “Technical Specifications” before filling the Tender documents.
2. **TENDERS:**
 - a. Bidders must submit their bids with original signature. The tenderers are required to enclose the original money receipt in support of purchase of tender paper otherwise the tender shall not be accepted.
 - b. Manufacturers, Authorized Dealers and Registered suppliers are only eligible to quote. In case of authorized dealer, necessary authorized dealership certificate should be submitted along with tender which should be valid on the date of opening of the tender.
 - c. Only those bidders who have purchased the relevant tender specification from this office can submit their tender. Tenders submitted by others will be rejected. The bidders should attach the money receipt number and date of purchase of tender specification from this Office. Bidders must submit their bid documents duly filled in our specification only.
 - d. Tender must be submitted in sealed envelope super scribed as **“SUPPLY OF 70 NOS. OF 150W LED FLOOD LIGHTS WITH COMPLETE FITTINGS & 5 NOS. OF 100W LED STREET LIGHTS WITH COMPLETE FITTINGS FOR DIFFERENT GSS UNDER EHT(O&M) DIVISION, KESINGA”** against Tender Call Notice No.06/2022-23, due on **Dt. 17.11.2022** for opening and addressed to Dy. General Manager, EHT (O&M) Division, Kesinga.
 - e. Tender shall be submitted either in person or by Registered post within the time specified in the Tender call notice. Any other means of delivery shall not be accepted. Detailed postal address with PIN, phone No./FAX No. 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. 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.
 - f. Tenders shall not be submitted telegraphically or by FAX.
 - g. Conditional offers will not be accepted.
 - h. If the last date of receipt of tender and its opening falls on a holiday, it will be received and opened on the next working day in same time.

3. **FORFEITURE OF SECURITY DEPOSIT:**

- a. In the event of successful Tenderer failing to accept the order or supply the materials as per the technical specification, S.D so deposited shall be forfeited.
- b. **The Security Deposit not claimed for refund within a period of three years after completion of contract, will be forfeited.**

4. **INFORMATION OF COMPETITORS:** Bidders have 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.

5. **OPENING OF TENDERS:**

- a. Copy of up-to-date PAN Card and GST Registration Certificate should be enclosed with the tender.
 - b. Bidders themselves or their authorized representatives (**one person only, possessing authorization letter in original**) shall be allowed to attend opening event of the tender.
6. The authority may alter the quantities of materials at the time of placing orders. Orders may also be split up among more than one tenderer if necessary in the interest of the organisation.
7. The Tenderers may please note that the word ‘item’ used in the foregoing paragraphs shall mean the materials/equipment as specified in the ‘Tender Specification’. In case of deviations, the decision of the authority shall be final.
8. The authority reserves the right to reject the lowest or any other tender or all tenders without assigning any reason what so ever.
9. Tenders should be prepared clearly and without any overwriting and corrections. Erasures and other changes shall bear the dated initial of the person signing the tender.
10. In the event of discrepancy or arithmetical error in the schedule of price, the decision of the authority shall be final and binding on the tenderers.
11. For evaluation, the price mentioned in words shall be taken, if there is any difference in figure and words in the price bid.
12. In the event of disparity of price due to tax rates, ,the comparison of price shall be made exclusive of tax and order shall be placed with tax rate as per Govt norms.

13. THE TENDERS SHALL BE LIABLE FOR REJECTION IF THEY DO NOT AGREE TO OR COMPLY WITH ANY OF THE TERMS AND CONDITIONS SET FORTH AND PROVIDED IN THE TENDER SPECIFICATION.

Sd/-

Dy. General Manager(Elect)

SECTION-II

GENERAL TERMS AND CONDITIONS OF CONTRACT

1. **SCOPE OF CONTRACT:** This specification covers “Supply of 70 Nos. of 150W LED flood lights with complete fittings and 5 Nos. of 100W LED Street lights with complete fittings for different GSS under EHT(O&M) Division, Kesinga of Phillips / Bajaj / Crompton Greaves / Havells as per the technical requirement as per section-VI. The scope of the contract shall be to deliver the material on Rail/Road transport at the destination site of OPTCL i.e at 220/132/33KV Grid Sub-station, Kesinga, The bids must be accompanied with LM 79 & 80, IP66, IK05, BIS, CE, ROHS test certificates. Luminary manufacture has to submit authorisation certificate from reputed known LED chip manufacturer like **CREE, NICHIA & PHILIPS LUMILED** etc. only without which their tender will not be entertained.
2. **PRICE:** The price should be firm and FOR destination. The price should be inclusive of packing, forwarding, freight, insurance charges, excise duty, and other taxes if any. The amount & nature of taxes should be clearly specified in the price schedule.
3. **DELIVERY:** The materials shall be supplied at 220/132/33KV Grid S/S, Kesinga within 45days from the date of issue of purchase order. The authority however reserves the right to reschedule the delivery or change of destination. Early delivery is preferable.
4. **VALIDITY:** Price with terms and conditions of the offer shall be valid for a minimum period of 90 days from the date of opening of tender.
5. **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.
6. **GENERAL REQUIREMENT:** The LED fittings must to be suitable for the purpose of switch yard lighting of various grid substations. The fittings must satisfy all the requirement as specified in the technical specification. Each unit must be accompanied with LED chip manufacturer certificate and LM 79 & LM 80 test certificates. The fittings must be water proof and dust proof as per protection certificate IP 66.
7. **TERMS OF PAYMENT:** Payment will be made with taxes and duties after delivery of materials at the respective sites subject to inspection and detailed verification, deposit of security amount & approval of guarantee & test certificate and availability of funds from Head office.
8. **PENALTY FOR DELAY IN DELIVERY:** If the supplier fails to deliver the materials within the delivery period of this tender document or any extension granted thereto, the

authority shall recover from the supplier 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. Materials will be deemed to have been delivered only when all the component parts are delivered. If certain components are not delivered in time, the supply will be treated as delayed until such time the missing/undelivered parts are delivered. The order will stand cancelled automatically after 90days of the issue of the order.

9. EXTENSION OF TIME: If the delivery of materials are delayed due to reason beyond the control of supplier, the supplier shall without delay give notice to the authority in writing for an extension of time with detail justification. The authority 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.

10. GUARANTEE PERIOD: The materials i.e. 150 Watt LED based Flood Lights with complete fittings are to be guaranteed for trouble free service for a period of 24 months from the date of supply or 18 months from the date of installation whichever is earlier. Any defect if noticed during the above guarantee period shall be replaced/ rectified by you of free of cost provided such defects are traced due to bad material, bad workmanship & faulty design etc. The guarantee period should also cover for those LEDs which are replaced/ rectified by you for a minimum period of 18 months from the date of supply. The above guarantee certificate in *triplicate* must be furnished by the successful bidders to this office for approval of the undersigned.

11. SECURITY DEPOSIT :

The successful bidder has to deposit 3% of contract value in the shape of D.D/ B.G as Security cum Performance Guarantee within 15 days from the issue of purchase order. The BG should be drawn in favour of Paying Officer of OPTCL and in the prescribed format of OPTCL. If not deposited by the bidder, the same will be deducted from the bill. The Security cum Performance Guarantee deposit amount will be refunded after successful completion of guarantee period on written request and as per the guidelines of Director (Fin), OPTCL. The Security cum Performance Guarantee deposit shall not carry any interest.

12. CONSIGNEE:

SDO, 220/132/33KV Grid S/S, Kesinga.

13. PAYING OFFICER :

Dy. General Manager(Elect), EHT(O&M) Division, Kesinga.

14. GSTIN CERTIFICATE, PAN CARD & AUTHORIZED DEALERSHIP CERTIFICATE(IF APPLICABLE) :

Attested legible photocopies of Income Tax PAN Card and GST Registration Certificate on the date of opening of the tender and authorized dealership certificate(if applicable) should be submitted along with tenders without which tender will be liable for rejection 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 liable for rejection.

15. REJECTION OF MATERIALS.

In the event any of the equipments/material supplied by the manufacturer is found defective due to faulty design, bad workmanship, bad materials used or otherwise not in conformity with the requirements of the Specification, the Purchaser shall either reject the equipment/material or ask the supplier in writing to rectify or replace the defective equipment/material free of cost to the purchaser.

The Supplier on receipt of such notification shall either rectify or replace the defective equipment/ material free of cost to the purchaser within 15 days from the date of issue of such notification by the purchaser. If the supplier fails to do so, the Purchaser may:-

- [a] At its option replace or rectify such defective equipments/materials and recover the extra costs so involved from the supplier plus fifteen percent and/or.
- [b] Terminate the contract for balance supplies, with enforcement of penalty Clause as per contract for the un-delivered goods and with forfeiture of Security cum Performance Guarantee so deposited by the Supplier.
- [c] Acquire the defective equipment/materials at reduced price, considered equitable under the circumstances.

16. RIGHT TO REJECT/ACCEPT ANY TENDER:

The purchaser reserves the right either to reject or to accept any or all tenders if the situation so warrants in the interest of the purchaser. Orders may also be split up between different Tenderers on individual merits of the Tenderer. The authority has exclusive right to alter the quantities of materials/ equipment at the time of placing final purchase order. After placing of the order, the authority may defer the delivery schedule of the materials. It may be clearly understood by the Tenderer that the authority need not assign any reason for any of the above action [s].

17. DISPATCH INSTRUCTIONS.

The equipments/ materials should be securely packed and dispatched directly to the specified site at the supplier's risk by Road Transport only after getting dispatch clearance/purchase order from the purchaser.

18. LOADING & UNLOADING OF ORDERED MATERIALS.

It will be the sole responsibility of the supplier for loading and unloading of materials both at the factory site and at the destination site/store. The Purchaser shall have no responsibility on this account.

19. FORCE MAJEURE:

The supplier shall not be liable for any penalty for delay or for failure to perform the contract for reasons of force majeure such as acts of god, acts of the public enemy, acts of Govt., Fires, floods, epidemics, Quarantine restrictions, strikes, Freight Embargo and provided that the supplier shall within Ten (10) days from the beginning of delay on such account notify the purchaser in writing of the cause of delay. The authority shall verify the facts and grant such extension, if facts justify.

20. QUANTITY VARIATION:

The quantity to be ordered may undergo revision at the time of placement of orders.

21. SUPPLIER'S RESPONSIBILITY:

Notwithstanding anything mentioned in the Specification or subsequent approval or acceptance by the Purchaser, the ultimate responsibility for design, manufacture, materials used and satisfactory performance shall rest with the Tenderers. The Supplier(s) shall be responsible for any discrepancy noticed in the documents, submitted by them along with the bid(s).

22. TEST CERTIFICATE /DEMONSTRATION:-

Necessary manufacturer certificate / test certificate in respect of the LED based floodlight fittings shall be submitted before dispatch of materials for approval. Test certificate in respect of materials should conform to relevant IS. The **LM-79** test certificate of the luminaire for the quoted model along with **LM-80** certificate of the chip should also be submitted. The driver for the floodlight is to be **BIS** certified and **ROHS, CE, UL** compliant and certificate of the same shall be provided by the tenderer.

23. Jurisdiction of the High Court of ODISHA.

Suits, if any, arising out of this contract shall be filed by either Party in a court of Law to which the jurisdiction of High court of ODISHA extends.

Sd/-

Dy. General Manager (Elect)

SECTION-III

ABSTRACT OF GENERAL TERMS AND CONDITIONS OF CONTRACT
(This Proforma 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.	
2	Manufacturer's supply experience including user's certificate furnished or not.	<i>Yes/No</i>
3	Delivery :- Whether agreeable to OPTCL's desired delivery period as indicated at in the specification	<i>Yes/No</i>
4	Guarantee:- Whether agreeable to OPTCL's terms.	Yes/No
5.	Terms of payment:- Whether agreeable to OPTCL's terms or not	Yes/No.
6.	Nature of price:- FIRM	Yes/No
7.	Penalty:- Whether agreeable to OPTCL's terms or not	Yes/No
8.	Validity: - Whether agreeable to OPTCL's terms or not	Yes/No
9.	Whether recent type test certificates from any Government approved laboratory are furnished or not.	Yes/No
10.	Whether materials are ISI/ISO marked.	Yes/No
11.	Furnished Manufacturer's name and its trademark.	Yes/No
12.	Whether registered under GST	Yes/No
13.	Whether declaration form duly filled in furnished or not.	Yes/No.

Place: -

Date: -

Signature of the Tenderer
with seal of the company

SECTION-IV
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	EMAIL:-	
7	GST REGISTRATION NO.	
8	PAN NO.	

Signature of the Tenderer
with seal of the company

SECTION-V

FORMAT OF PRICE BID FOR
TENDER CALL NOTICE No.- 6 / 2022-23

Sl No	Description of materials to be supplied	Quantity in nos.	Unit Rate in Rs.	Amount in Rs.
1	Supply of 150 W LED flood light with complete fitting.	70		
2	Supply of 100 W LED Street light with complete fitting.	5		
3	Total			
4	Taxes if any (to be specified)			
5	GRAND TOTAL Sl. No. 3 + 4 in Rs(in figure)			

- The unit rate should be inclusive of packing, forwarding, transportation and cost of insurance. Tax as specified in Sl. 4 i.e., GST

Date :

Signature of the Tenderer with Seal

Place :

SECTION-VI

DECLARATION FORM

To

The Dy.General Manager (Elect)
EHT (O&M) Division, OPTCL, Kesinga

Sub:- Tender Specification No-_____

Sir,

1. Having examined the above specification together with terms & conditions referred to therein
* I/We the undersigned hereby offer to supply the materials/equipments covered therein complete in all respects as per the specification and General conditions, at the rates, entered in the attached contract schedule of prices in the Tender.

2. * I / We hereby undertake to have the materials/equipments delivered within the time specified in the Tender.

3. * I / We hereby guarantee the technical particulars given in the Tender supported with necessary reports from concerned authorities.

4. * I/We certify to have submitted the bid by remitting D.D. / remitting the cost of tender, herewith and this has been acknowledged by your letter / receipt No. _____
Dated _____

Yours faithfully

Signature of the Tenderer
with seal of the company

[This form should be dully filled in by the tenderer)

* (Strikeout whichever is not applicable).

SECTION-VII

TECHNICAL SPECIFICATION FOR PROCUREMENT OF 150 W LED FLOOD LIGHTS WITH COMPLETE FITTINGS & 100W LED STREET LIGHT WITH COMPLETE FITTINGS:

Sl. No.	Parameter	Requirement
1	Model/CAT REF	To be quoted by the bidder
2	Rated System Wattage (Watts)	120W±5% (F.L.), 100W±5%(S.L)
3	Optical Assembly	High Power Discrete LED's with individual Lens designed to optimized application efficiency
4	Beam Angle	90° for Luminaire
5	Power Factor	≥0.95
6	Operating Voltage range (Volts)	120 - 270 VAC
7	SYSTEM CURRENT @ 240V AC	0.53A
8	Supply Frequency (Hz)	50
9	Total Harmonic Distortion (%)	<10%
10	Surge Protection (kV)	(Should strictly adhere to) 4KV inbuilt Surge protection along with 440V withstand protection in driver + Additional 10KV external SPD
11	LED Efficacy	>130 Lm/W (Manufacturer to submit proof for the same)
12	System Efficacy (lumen/watt)	≥100 Lm/W
13	Junction Temperature (Tj)	The Junction Temperature shall be <75 Deg. C at 25 Deg. C to 30 Deg. C Ambient Temperature
14	Ingress Protection (IP)	IP66
15	Mechanical Impact of the entire fitting (IK)	IK05
16	Housing	Housing with pressure Die-cast Aluminium having separate compartment for driver. The heat sink made up of extruded aluminium will be preferable.
17	Luminaire cover / glass	Heat resistant toughened glass
18	Luminaire mounting arrangement	Eye-Bolt provided for Mounting Purpose
19	Color Rendering Index (CRI)	≥75
20	Working Life for LED (@L70) (No. of hours)	Minimum 50,000 Burning Hours as per LM-80 Report
21	Color Temperature (Deg. Kelvin)	5700° to 6500°K
22	LED Drive Current (A)	Not more than 85% of the rated current carrying capacity of LED
23	Make of LED manufacturer	CREE / NICHIA / Philips Lumiled
24	Humidity (% min & max - Relative humidity)	10% to 90% RH
25	Suitability for dusty conditions	Yes
26	Operating Temperature Range	Minimum -5° To 55°
27	Driver	One No. Independent Drivers for the Luminaire

28	Driver wattage:	120W < Output Wattage ≤ 150W, 100W < Output Wattage ≤ 120W
29	Maximum Amperage of Driver	≤0.7A
30	Driver Protection	Short Circuit, Over Load, Open Circuit No - Load, EMI & Environmental
31	Driver Technical Data Sheet	Technical Data Sheet of the Driver used in the offered Luminaire to be submitted along with the Offer.
32	Driver Type	Constant Current, potted driver with internal Surge Protection of ≥4KV, CE marking & ROHS Compliant
33	Driver Efficiency	≥90%
34	Driver Compliance	1. IS 15885 (Part 2/Sec 13) as per BIS Certificate 2. The Driver should have CE marking & should be ROHS compliant.
35	Driver Lifeclass (Br. Hrs.)	>15000 Burning Hours
36	Driver Make	Inventronics / Xitanium or any other reputed make
37	Warrantee / Guarantee	As per Clause No 10 of Section II
38	LENS:	90° Secondary Optical Lens suitable for flood lights or high bay lights.
39	MAKE OF LENS:	LEDIL / KHATOD
40	Minimum Lux at height of 30 feet	The light when fitted at a height of 30 feet should produce an average luminance of 30 lux when measured perpendicularly below the fitting
	Mandatory Documents to be submitted along with Offer apart from the one mentioned above:	
1	Technical Data Sheet of the Offered Luminaire	Technical Data Sheet of the Offered Luminaire to be submitted along with the Offer.
2	Technical Data Sheet of the Driver	Technical Data Sheet of the Driver used in the Offered Luminaire to be submitted along with the Offer
3	Technical Data Sheet of the LENS	Technical Data Sheet of the LENS used in the Offered Luminaire to be submitted along with the Offer
3	LM 79 (Photometry) Report	LM-79 Report mentioning Total Lumen output, Power, Power Factor, Current in Amps, CRI & CCT of the offered Luminaire to be submitted along with the Offer.
4	LM 80 Report & Photobiological Report for LED	LM-80 Report & the Photobiological Report of the LED Chip being used in the offered Luminaire to be submitted along with the Offer.
5	Driver Certification	ROHS, CE, UL Report of Driver, BIS Certificate of the Driver

6	Report	As per requirement, all the test Certificates / reports are to be obtained from NABL Accredited LAB for the quoted Fitting , Driver & LED
---	--------	---

N.B:

- LUMINARY MANUFACTURER HAS TO SUBMIT AUTHORIZATION CERTIFICATE FROM LED CHIP MANUFACTURER LIKE CREE, NICHIA AND PHILIPS LUMILEDS AND SECONDARY OPTICAL LENS MANUFACTURER LIKE LEDIL AND KHATOD ONLY ALONG WITH TYPE TEST CERTIFICATE OF LUMINARE WITHOUT WHICH THEIR TENDERS WILL NOT BE ENTERTAINED
- ALL THE CERTIFICATES AND TEST REPORTS SHOULD BE VALID FOR THE DURATION OF TENDER OPENING TO TENDER FINALIZATION

Sd/-

Dy. General Manager(Elect)

