

TENDER DOCUMENTS
(PRICE BID)

FOR

**Turn Key Execution of LED Street Lighting System in the villages
of G.Ps under Malkangiri District of Govt. of Odisha**

Bid : Supply & Execution of LED lighting System with all its accessories in the
villages of G.Ps Under Malkangiri district of Govt. of Odisha

OFFICE OF THE PROJECT DIRECTOR, DRDA, MALKANGIRI

TELEPHONE: 06861-230409

FAX: 06861-230279

OFFICE OF THE PROJECT DIRECTOR, DRDA, MALKANGIRI

TELEPHONE: 06861-230409

FAX: 06861-230279

Tender Notice No. DRDA, 17-18/ 855 / Dt. 12-03-2018

BIDDING DOCUMENTS

OFFICE OF THE PROJECT DIRECTOR, DRDA, MALKANGIRI

TELEPHONE: 06861-230409

FAX: 06861-230279

TENDER NOTICE NO: DRDA.....8.55..... dtd12.03.2018 for below works on Total Turn Key basis for LED Street lighting System with all its accessories in villages of GPs under Malkangiri district of Govt. of Odisha.

Bid: Supply & Execution of LED Street lighting System with all its accessories in villages of GPs under Malkangiri District of Govt. of Odisha

PRICE BID

Bid-1:(PART-A)								
Price Schedule for execution of Led Lighting System with all its accessories in different villages in GPs under Malkangiri District, Govt. of Odisha on Total Turn Key basis.								
Sl. No	Particulars	Unit	Qty	Supply		Erection		Total Amount (Rs)
				Unit Rate (Rs)	Total Rate (Rs)	Unit Rate (Rs)	Total Rate (Rs)	
A	Supply and Erection of LED street light fixtures over existing pole / 8 Mtr PSC Pole with 80Watt LED Street lighting: -24.33 KM							
1	Supply and Errection of 8 Mtr long PSC Pole (max distanmce 30 Mtr) with concrete base plate	No						
2	Supply and erection of LT X LPE AB Cable (1 x 35+ 1 x 16mm2) Make.....	Mtr						
3	Supply and Erection of LED Street Light fixture (Luman output > 7100 or 80W max). System efficacy-100 luman /watt(New) Make..PHILIPS, BAJAJ, Crompton Greaves	NO						
4	Supply and Erection of LED Street light fixture (Luman output>7100 or 80W max) System efficacy-100 lumen /watt(in case of replacement) Make.....							
5	Supply and Erection of LT stay set with all accessories.	Set						
6	Single arm GI bracket with clamp and all accessories for the street light with AB connector (for street light)	Set						
7	Supply of 2C x 6 SQ MM. PVC Cable suitable for voltage level 1.1KV confirming to IS-7098 for pole wiring Make...Havells, Finolex ,Anchor, Polycab	Mtr						
8	Supply and installation of Photo Switch with timer and control circuit fitted in TP Box L & T	No						
Total Price in Rs.								

Total price :

Rs.....

(In Words :

(Units Rates quoted are inclusive of freight and insurance all taxes and duties and other levies , if any)

Signature of Tenderer

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TENDER DOCUMENTS

(TECHNICAL & COMMERCIAL BID)

FOR

Turn Key Execution of LED Street Lighting System in the villages of G.Ps under Malkangiri
District of Govt. Of Odisha

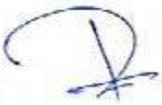
Bid:- Supply & Execution of LED lighting System with all its accessories in the villages of G.Ps
under Malkangiri district of Govt. Of Odisha

OFFICE OF THE PROJECT DIRECTOR, DRDA, MALKANGIRI

TELEPHONE No----- 06861-230409

FAX -----0608061-230279

TENDER SPECIFICATION NO. ~~XXV.III-11~~ / 8.55 / 17-18
Dt. 12.3.2018



OFFICE OF THE PROJECT DIRECTOR, DRDA, MALKANGIRI

TELEPHONE---06861-230409

FAX--06861- 230279

TENDER NOTICE NO DRDA ~~XXV~~ (11-11/17-18/No-855.....Dt. 12-3-2018

BIDDING DOCUMENTS



OFFICE OF THE PROJECT DIRECTOR, DRDA, MALKANGIRI

TELEPHONE----- 06861-230409

FAX -----060861-230279

TENDER NOTICE NO:DRDA/.....855.....dtd.....12.3.2018 for below works on Total Turnkey basis for LED Street lighting System with all its accessories in all the villages of GPs under Malkangiri district of Govt. Of Odisha.

Bid:- Supply & execution of LED lighting System with all its accessories in all the villages of G.Ps under Malkangiri district of Govt. Of Odisha.



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TENDER CALL NOTICE

OFFICE OF THE PROJECT DIRECTOR, DRDA, MALKANGIRI

TELEPHONE ----- 06861-230409

FAX ----- 06861-230279

Tender Notice No. DRDA/17-18/ XXXVIII-11 / 855 dt. 12.3.2018

Tender Call Notice for the works of the total turnkey basis towards the Supply & execution of LED Street lighting system with all its accessories in all the villages of GPs under Malkangiri District of Govt, of Odisha.

Bid:-Supply & Execution of LED lighting System with all its accessories in the villages of G.Ps under Malkangiri district of Govt. Of Odisha.

The undersigned invites sealed bids in duplicate on two part bidding system from the qualified and eligible bidders, who comply with the terms and conditions for the following works to be executed in all the villages of GPs under Malkangiri District.

Brief Description of Work	Estimated cost (Rs.in lakh.)	Earnest Money Deposit (In Rs. Lakhs)	Last date /time for submission of bids	Date and time of opening of bid	Non refundable Cost of Bid documents(In Rs)
1	2	3	4	5	6
Bid: Supply & Execution of LED lighting System with all its accessories in the villages of G.Ps under Malkangiri district of Govt. Of Odisha.	Rs.139.00 Lakh (Approx)	1% of estimated cost in shape of NSC/TDR of any Post Office / Nationalised bank Pledged in favour of PD. DRDA, Malkangiri	<u>03.04.2018</u> <u>5:00 PM</u>	<u>04.04.2018</u> <u>11:00 AM</u>	Rs.11,800/-(Rs. 10000/-+18% GST) in shape of DD/ BC Drawn in favour of PD, DRDA, Malkangiri

Sale of tender documents starts from DT 15.3.2018 from 11 AM in the office of the Project Director, DRDA, Malkangiri

Tender documents can also be downloaded from the District website www.malkangiri.nic.in
The authority reserve the right to accept or reject any or whole of the offers without assigning any reason thereof.


Project Director,
DRDA, Malkangiri
(Authorised Signature)

(P.T.O.)

DISTRICT RURAL DEVELOPMENT AGENCY, MALKANGIRI

....

Memo No. 856 /2018 Date 12.03.2018
Copy to DIO, NIC, Malkangiri for information
and necessary action. He is requested to upload the
tender call notice in District Website.


Project Director
DRDA, Malkangiri

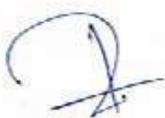
Memo No. 857 /2018 Date, 12.03.2018
Copy to the Editor, 'Samaj & Dharti'
for information. He is requested to publish the tender
call notice within the financial limit of Rs.6,000/-
(Rupees Six thousand) only .


Project Director
DRDA, Malkangiri

**SECTION -I
INVITATION FOR BIDS (IFB)
TENDER NOTIFICATION:**

DRDA/XXXVIII-11///2017-18 / 855

Date:.....12.03.2018





Tel. No :
Fax No. :
E-mail :

DISTRICT RURAL DEVELOPMENT AGENCY: MALKANGIRI

TENDER CALL NOTICE

Tender Notice No. DRDA/17-18/ 855 /Dt. 12.03.2018

1.0 Project Director, DRDA, Malkangiri invites sealed tenders from reputed Electrical Contractor with required valid MV/LT licence from the Govt of Odisha either in individual capacity or as part of a joint venture agreement/ consortium for carrying out various Electrical Installation works on "Turnkey basis" in the jurisdiction of their respective licensed area under deposit work. The bidder must fulfil all the qualification requirements as specified in clause 2.0 stated below: The sealed envelopes shall be duly super scribed as "TENDER NOTICE No:

DRDA.....855...../2017-18..... dated.....12.03.2018..... Due date of opening Dt..04.04.2018

Brief Description of Work	Estimated cost (Rs.in Lakh.)	Earnest Money Deposit (In Rs. Lakh)	Last date /time for submission of bids	Date and time of opening of bid	Non refundable Cost of Bid documents(In Rs)
1	2	3	4	5	6
Bid: Supply & Execution of LED lighting System with all its accessories in the villages of G.Ps under Malkangiri district of Govt. Of Odisha.	Rs.139.00Lakh (Approx)	1% of estimated cost in shape of NSC/IDR of any Post Office/Nationalised bank pledged in favour of PD,DRDA, Malkangiri	<u>03.04.2018</u> <u>5.00PM</u>	<u>04.04.18</u> <u>11.00AM</u>	Rs.11,800/- (Rs. 10000/-+18% GST) in shape of DD/BC Drawn in favour of PD,DRDA, Malkangiri

2.0 Bidders to be considered as eligible to bid should meet the following qualifications:

- Bidders must quote for the each complete bid separately.
- Bidders should have installed and commissioned at least following quantum of works as specified under the bid for which the bidder is submitting his bid during the last three financial years preceding to the year of tender notification (for single or combination of bid) . Bidder must enclosed copies of the relevant work order along with Client Certified copies of Final Invoices and/or Performance Certificates duly signed by the competent authority of the client and /or Final Inspection Certificate issued by Electrical Inspector in proof of having executed the desired quantum of works during the last three financial years.

Bid:

Experience on erection of LED street light fittings :.....nos

(c) Average Annual Turnover during the last three financial years preceding to the year of tender notification should be equal to or more than the estimated cost of the bid for which the bidder has submitted his bid. The bidder shall furnish audited accounts for the last three year i.e F.Y 2014-15, FY-2015-16 and FY 2016-17, evidencing their turnover requirement.

(d) Bidder shall be financially sound and stable having liquid assets as stated in the enclosed format and /or access to credit facility of not less than one fifth of estimated cost of the Bid(s) for which he has submitted the bid. Bidder shall furnish the documentary evidence to establish the financial soundness.

(e) Two or more like minded contractor (s) and/or manufacture(s) of electrical items, and/or firms having experience of erection of Lighting system & LT Overhead (OH) line work which are under scope of supply & Erection of the contractor as per this tender specification may form a joint venture /consortium, may Tie up and make agreement amongst themselves and apply against this tender specification, provided they qualify the criteria. The sample format of joint venture/consortium agreement /Under taking /Declaration Form/ Qualification required /Bought out items etc are enclosed at Section-IV of this tender specification as in Annexure-I to XI

(f) If the bidder is a joint venture/ Consortium /Tie-up , they shall comply the qualifying criteria as follows:-

- i. At least one partner shall have the stipulated previous works experience for similar quantity of completed works as stated in the qualifying criteria.
- ii. If the work experience of one partner is not meeting the entire qualifying criteria, the items wise field experience of the other partner (s) specified in the scope of work shall be added for qualifying the bid in total. However itemise fractional work experience shall not be summed up for consideration for any single item of the scope.
- iii. However, the annual turnover and liquidity figures of all partners shall be added together to determine, if the joint venture/consortium is meeting the Annual Average Turnover criteria as state in the qualifying criteria. For Tie-up cases the turnover shall be evaluated of the lead partner basis.

g) One of the partners shall be nominated as Lead Partner and the lead partner shall be authorised to incur liabilities and receive instructions for and on behalf of all partners of the joint venture/consortium and entire execution of the contract including receipt of the payments shall be done exclusively through the lead partner. This authorization shall be evidenced by submitting by a Power of Attorney signed by legally authorised signatories of all partners.

(h) All partners of joint venture/consortiums shall be liable jointly and severally for the execution of contract in accordance with the contract terms and a copy of the agreement entered into by the joint venture/consortium partners having such a provision shall be submitted with the Bid. A statement to this effect shall be included in the authorization mentioned as above as well as in the Bid form and in Contract form (in case of a successful bid).

(i) In addition to above the bidder should submit the following documents in part-I bid as qualifying terms.

- i. Valid electrical (MV/LT) licence for electrical works from the Govt. Of Odisha.
- ii. EPF & ESI registration.
- iii. PAN & TIN No
- iv. Service Tax Registration.
- v. Existing Labour License.
- vi. GST Registration.

(j) Project Director, DRDA, Malkangiri reserve the right to waive minor deviation, if they do not materially affect the capacity of the bidder to perform the contract.

3.0. Bids specification documents can be obtained from the office of the Project Director, DRDA, Malkangiri on payment of Rs/1800/- towards non-refundable cost of bid documents through Bank DD drawn in favour of purchaser payable on SBI, Main Branch, Malkangiri during office hours from 11.00 am to 5.00 pm till...03.04.2018.....

4.0 The tender documents can also be downloaded from district website www.malkangiri.nic.in In case tender papers are downloaded from these website, then the bidder has to enclose Demand draft, drawn on any scheduled Bank, payable at SBI, Main Branch, Malkangiri covering the cost of bid documents as stated above in the separate closed envelope with suitable superscription "Cost of Bid documents: Tender Notice Ref: DRDA/.....855.../2017:18.....dtd.12:03:18" This envelope should also accompany the Bid Documents.

5.0 The Bids shall be submitted and received in the office of the undersigned on all office working days up to 5.00 P.M of Dt.3:4:18..In the event the date of opening is a holiday, the next working day shall be treated as the date of opening .A pre-bid meeting will be held on Date.23.3.2018.....at 11.00 AM" This envelope should also accompany the Bid Documents

6.0 Part-I of the bid (Technical Bid) will be opened on Dated.4:4:2018.at 11.00 A.M as indicated above, In the presence of the authorized representatives of the Bidders .Bidders shall depute only one representatives to attend pre bid meeting and tender opening if they wish to be represented. The undersigned reserves the right to reject any or all tenders if the situations so warrants.

7.0 All correspondence with regard to the above shall be made to the following address:



**Project Director,
DRDA, Malkangiri**

Telephone - 068061-230409

FAX:- 06861-230279

**SECTION -II
GENERAL CONDITION FOR CONTRACT
(GCC)**

TENDER NOTIFICATION: DRDA/XXXVIII-II./.....855/2017-18
Date: 12.03.2018.....

1.0 GENERAL:-

The following works including supply of all Equipments /Materials, Erections (including Civil Works) Testing and commissioning as per the Scope detailed in the Bid Documents

2.0 SCOPE OF WORK:-

The scope shall include supply and installation of all materials & equipments to complete the LED Street Lighting works including the Guarantee Period (GP) for two years from the date of handover after successful energization of the street lights.

2.02 Bid: The detailed scope of the work shall include.

- a. Detailed survey of the proposed area/villages and route etc.
- b. Complete manufacture, including shop testing & supply of all materials /equipments from the approved vendor or from his manufacturing units.
- c. Providing Engineering drawing, data, operational manual, etc for the purchaser's approval.
- d. Receipts, storage, preservation and conservation of equipments at the site.
- e. Pre-assembly, if any, erection, testing and commissioning of all the equipments
- f. Reliability tests and performance and guarantee tests on completion of commissioning.
- g. Loading, unloading and transporting as required.
- h. Erection of LED street light fixture (Lumen output >7100, or say 80 watt maximum), system efficacy -100 lumen /watt in all the villages of G.Ps (in Malkangiri district) under Govt of Odisha.
- i. Erection of 8 mtr. New PSC pole (200 KG) Where ever necessary.
- j. Extension of LT XLPE AB Cable (1 X 35)+1x25mm²) with all its accessories as per the requirement for the successful OFF/ON control through Photo Switch with Timer.
- k. Erection of LED Street Light fixture (Lumen output >7100, or say 80 watt maximum), system efficacy-100 lumen/watt (1 no/pole)
- l. Erection of 2CX 6mm² Aluminium PVC cable for pole/LED light wiring,
- m. Installation of photo switch with timer and control circuit for street lights inside a suitable TP Box as per requirement, so that all the street lights in a village will be controlled (OFF & ON) automatically as per the scheduled timing
- n. Glowing sticker in each pole fitted with LED lights showing the name of the Project, Project cost and dates of completion the work.
- o. Submission of three copies of photo graphic evidence before execution of the work. During execution of the work and after completion of the work along with the bill.
- p. Testing and Commissioning of Light Street Lighting system.
- q. Storing before erection.
- r. Getting the complete Light Street Lighting system inspected by Electrical Inspector after successful completion of work.

3.0 DEFINITION OF TERMS

- i. The 'Contract 'means the agreement entered into between the purchaser and the Contractor as per the Contract Agreement.
- ii. "Purchaser' shall mean Project Director, DRDA, Malkangiri and shall include its legal representatives, successors and Designated Officers.

iii. "Contractor" shall mean the bidder whose bid will be accepted by the purchaser for the award of the works and shall include such successful Bidder's legal representatives, successors and permitted assigns.

iv. "Engineer in Charge" shall mean the officer appointed in writing by the Purchaser to act as Engineer from time to time for the purpose of the Contract.

v. "Specification" shall mean the specifications and Bidding Document forming a part of the Contract and such other schedules and drawings as may be mutually agreed upon.

vi. "Performance and Guarantee Test" shall mean all operational checks and tests required to determine and demonstrate capacity, efficiency and operating characteristics as specified in the Contract document.

vii. "Guarantee Period" shall mean all operational checks and tests required to determine and demonstrate capacity, replacement of defective items, efficiency, and operating characteristics as specified in the Contract Documents after completion of the work in completed shape and successful energization of street lights. This is for 2 (two) years from the date of hand over to concerned G.P in charge after the successful energization of street lights.

viii. The term "Final Acceptance"/"Taking Over" shall mean the purchaser's written acceptance of the work performed under the Contract, after successful commissioning / completion of Performance and Guarantee Tests, as specified in the accompanying Technical Specifications or otherwise agreed in the Contract.

ix. Terms and expression not herein defined shall have the same meaning as are assigned to them in the Indian Sale of goods Act (1930), failing that in the Indian Contract Act (1872) and failing that in the General Clause Act (1897) including amendments thereof, if any.

4.0 SUBMISSION OF TENDER:-

4.01. Sealed tenders in Two parts each in duplicate, each complete in all respect in the manner hereinafter specified are to be submitted to the **Project Director, DRDA, Malkangiri** on or before the date and time specified in the notice inviting the tenders. **Bids shall be submitted in duly filled condition as per formats provided in Section -III & IV.** Each copy of the bids (original and duplicate) shall be submitted in separate double sealed envelopes superscripted on each of the tender specification number and the due date of opening of the bids on the right hand top side on the envelope. On the left top side original / duplicate as is relevant shall be written.

4.02 The tenders are required to be submitted to Two parts each in separate double sealed covers.

a. Part-I : Super scribed as " **Technical and Commercial bid**" shall contain EMD Proof of payment of Bid Documents cost and Techno commercial documents.

b. Part-II : Super scribed as " **Price Bid**" .The Part-II should contain only Price bid separately for each bids of participation in duplicate in separate sealed envelope .

4.03. Fax and Telegraphic tenders shall not be accepted.

4.04 Receipt of bids/ revised bids after the cut off time and date as specified in the Tender specification shall not be permitted and such bids shall be rejected outright. The Purchaser shall not be responsible for any delay in transit in the post / courier etc. in this regard.

5.0 VALIDITY:

The offer shall be valid for a period **not less than six months from the date of bid opening.**

6.0 **PRICE:**

Bidders are required to quote firm price as per the prescribed format/ Annexure enclosed in Section-III and VI along with all complete information in duly filled condition as per format provided in Section -III & IV . The quoted price shall be firms and inclusive of all taxes, duties, freight and insurance and other Levis, if any and also include the guarantee period. Project Director, DRDA, Malkangiri shall not be liable to pay anything extra over and above the quoted price.

7.0 **RECEIPT AND OPENING OF THE BID:-**

7.01 Bids in duplicate as described under clause 4.0 shall be received in the office of the Purchaser and shall be opened on the scheduled date and time. The Purchaser's authorized representatives shall open bids in the presence of Bidders' representatives on the date and time for opening of bids as specified in the Invitation to Bid or in case any extension has been given thereto, on the extended bid opening date and time notified.

7.02 The Bidders' names, bid prices, modifications , bid withdrawals and the presence or absence of the requisite bid guarantee and such other details as the Purchaser, at its discretion , may consider appropriate will be announced at the opening . No electronic recording devises will be permitted during bid opening.

8.0 **EVALUTION OF BIDS AND AWARD OF CONTRACT:**

8.01 To assists in the examination, evaluation and comparison of Bids, the Purchaser may, at its discretion, ask the Bidder for a clarification of its Bid if required. All response to the requests for clarification shall be writing and no change in the price or substance of the Bid shall be sought, offered or permitted.

8.02 Purchaser will examine the Bids to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed , and whether the Bids are generally in order.

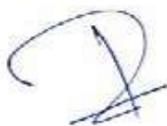
8.03 The Purchaser's evaluation of a Bid will take into account, in addition to the Bid price, the following factors, in the manner and to the extent indicated in this Clause:
(a) Work Schedule
(b) Deviations from Bidding Documents

8.04 The Purchaser will award the Contract to the successful Bidder whose Bid has been determined to be the lowest-evaluated responsive Bid based in the price quoted in the price bid in their offered BOQ and services, when the lowest bidders is not ready and/or capable to undertaken the entire work envisaged, then the Purchaser may explore the possibility of the execution of works through other bidders if they are willing to execute at L¹ rate. Such exploration shall be carried out in a sequential order starting with L² bidder then with L³ bidder and so on.

9.0 **EARNEST MONEY DEPOSIT (EMD):-**

9.01 The Tender must be accompanied by Earnest Money Deposit in shape of account payee Bank Draft drawn on any scheduled bank in favour of Project Director, DRDA, Malkangiri payable at SBI, Main Branch, Malkangiri. EMD shall be, as mentioned in the tender notice of the bid for which the bidder has submitted the bid. **Bids without EM Deposit will be rejected out rightly.**

9.02 No adjustment of any previous deposit or any amount payable from Purchaser shall be entertained for EMD. EMD amount so submitted shall not carry any interest payable to the Bidder.



- 9.03** The Earnest Money so deposited shall be forfeited:
 (a) if the Bidder:
 (i) Withdraw its bid during the period validity specified by the Bidder in the Bid Form.
 Or
 (b) The successful Bidder Fails:
 i. to sign the Contract , or
 ii. to furnish required Contract Performance Bank Guarantee.
- 9.04** The EMD of unsuccessful bidders shall be returned within 30 days from the date of finalization of the order.
- 10.0 PURCHASER'S RIGHT TO VARY QUANTITIES AT TIME OF AWARD.**
 While placing orders and/or during execution of contract , Purchaser reserve the right to increase or decrease the quantity of goods and services specified in the Schedule of requirement up to 20% of the tender quantity without any change in price or other terms and conditions.
- 11.0 INSPECTION AND TESTING:-**
- 11.01:** The Purchaser or his authorized representatives shall be entitled at all reasonable times during manufacture/installation to inspect, examine and test the materials at the contractor's premises (before and after dispatch) /erection site about workmanship of the materials to be supplied under this contract, if the said materials are being manufactured in other premises, the contractor shall provide unhindered clearance, giving full rights to the purchaser/its authorized representatives to inspect, examine and test as if the materials were being manufactured in his premises. Such inspection /examine and testing shall not relieve the contractor of his obligations to execute the contract by letter and spirit .The contractor shall give the purchaser advance notice in writing of the Date and the Place at which the materials will be ready for testing .
- 11.02:** The inspecting officer/authorized representative of the Purchaser for the entire work shall visit the work site as and when required (By the Respective Purchasing Authority) to ensure the quality of works as per the specification & approved GTP and seal firmly along with the signature as a token of proof and also ensure the same after receipt of the same at site. He will also physically ensure that all other similar items received in site complies the testing particulars and specifications as well.
- 11.03:** Pre-inspection and Post-inspection Report shall be furnished by the Electrical Technical Personnel in five cases in random basis.
- 11.04:** No materials will be dispatched from the factory premises without the permission of the Purchaser.
- 12.0 COMPLETION AND COMPLETENESS OF THE EQUIPMENT:-**
- 12.01** Time being the essence of the contract; the work shall be completed withinmonths for all the works as per the scope in the work order, **Bid: (Construction of LED Street Lighting System in all villages of GPs of Malkangiri District under Govt. Of Odisha)**
- 12.02** The work shall be treated as complete items wise (against all the specific villages in the district) when one item shall be complete in all respects with all mountings, fixtures and standard accessories which are normally supplied even though not specifically detailed in the specification .Not extra payment shall be payable for such mounting, fittings, fixtures and accessories which are needed for safe operations of the equipment as required by applicable code of the country though this might not have included in the contract .
- 12.03** Purchaser however reserves the right to re-schedule the completion period, if required.

13.0 REJECTION OF MATERIALS:-

In the event if the materials supplied by the contractor and /or the installation works are found to be defective in quality and the workmanship is poor or otherwise not in conformity with the requirement of the contract specification as per Section-V (Technical Specification) ,Purchaser shall reject such materials/services and ask the contractor to writing to replace/ rectify the defects .The contractor on receipt of such notification shall rectify or replace the defective materials and /or re-install the work already executed , free of cost and to the best satisfaction of the Purchaser, if the contractor fails to do so the Purchaser may at his option take the following actions which could be on concurrent basis.

- a) *Replace or rectify such defective materials and recover the extra cost so involved plus 25% from the Contractor.*
- b) *Terminate the contract for balance supply and erection with reinforcement of penalty as per contract.*
- c) *Forfeit the Contract Performance Bank Guarantee.*

14.0 EXPERIENCE OF BIDDERS:-

The bidders are required to furnish information regarding their experience on the following aspects as per format provided in Section-IV, Annexure-IV to VIII.:

- a) Description of similar type of work executed during the last three years with name (s) of the party(s) to whom/where supplies/ erection was made.
- b) Testing facilities available at manufacturer's works along with the list of testing equipments in compliance to the testing criteria fixed by the Purchasers in the tender.
- c) Purchase/ work orders details (P.O/ W.O No and date only) executed (construction work) during the last three year along with Electrical inspection report copies and copies of user's performance certificates.

Bids may not be considered if the past performance is found to be un-satisfactory.

15.0 CONTRACTOR TO INFORM HIMSELF FULLY:-

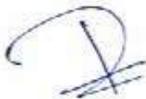
The contractor shall examine the instruction, general conditions of the contract, specifications and the schedule of quantity and delivery to satisfy himself as to all the terms and conditions and circumstances affecting the contract price. He shall quote prices according to his own judgement and shall understand that no additional cost except as quoted shall only be considered.

16.0 PATENT RIGHT:-

The contractor shall indemnify the purchase against all claims, actions, suits and proceedings for the alleged infringement any patent design or copy right protected either in country of origin or in India by the use of any equipment supplied by the contractor but such indemnity shall not cover any use of the equipment other than for the purpose indicated by or reasonable to be informed from the specification.

17.0 GUARANTEE PERIOD:-

17.01 The materials to be supplied by the contractor shall be guaranteed for satisfactory operation against defects in design and workmanship for a period of 24 months for the LED Street light fixture from the date of handing over the completed installation.



17.02 The above guarantee certificate shall be furnished in triplicate to the Purchaser for his approval. Any defects notices during the above period should be rectified by the Contractor free of cost to the purchaser provided such defects are due to faulty design, bad workmanship or bad materials used on receipt of written notice from the Purchaser.

18.0 PENALTY FOR DELAY IN COMPLETION OF CONTRACT:-

18.01 If the contractor fails to complete the works by the scheduled period of any extension granted thereby, the contractor shall be liable for payment of penalty amounting to 0.5% (half percent) of the contract price per week of un-finished works subject to the maximum of 5% (five percent) of the total contract price and subject to force majeure conditions.

18.02. Penalty amount can be realised from the proceeds of the Contract Performance Bank Guarantee, if the situation so warrants.

18.03 Extension of delivery period could be with/without levy of penalty with the discretion of purchaser.

19.0 RIGHT OF WAY:-

Right of way issues, if any, arising during execution of the works shall have no liability on the Purchaser. These issues shall be settled at the sole discretion of the Contractor.

20.0 CONTRACTOR'S DEFAULT:-

20.01 If the Contractor neglects to execute the works with due diligence and expedition or refuses or neglects to comply with any reasonable order given to him, in writing by the Engineer in connection with the works or contravenes the provisions or the contract, the Purchaser may give notice in writing to the Contractor to make good the failure, neglect or contravention complained of with the notice within thirty (30) days from the date of serving the notice, the Purchaser shall be at liberty to employ other workman and forthwith execute such part of the works as the contractor may have neglected to do or if the Purchaser think fit, to without prejudice to any other right, he may have under the Contract to take the work wholly or in part out of the Contractor's hands and re-contract with any other person or persons to complete the works or any part thereof and in that event the Purchaser shall have free use of all Contractor's equipment that may have been at the time of site in connection with the works without being responsible to the Contractor for fair wear and tear thereof and to the exclusion of any right of the Contractor over the same , and the Purchaser shall be entitled to retain and apply any balance which may otherwise be due on the Contract by him to the Contractor , or such part thereof as may be necessary , to the payment of the cost of executing the said part of works or of completing the works as the case may be. if the cost of completing of works of executing part thereof as aforesaid shall exceed the balance due to the Contractor, the Contractor shall pay such excess. Such payment of excess amount shall be independent of the liquidated damages for delay which the Contractor shall have to pay if the completion of works is delayed.



20.02 In addition, such action by the Purchaser as aforesaid shall not relieve the Contractor of his liability to pay liquidated damages for delay in completion of works.

20.03 Such action by the Purchaser as aforesaid the termination of the Contract under this clause shall not entitle the Contractor to reduce the value of the Contract Performance Guarantee not the time thereof. The Contract Performance Guarantee shall be valid for the full value and for the full period of the Contract including guarantee.

21.0 TERMINATION OF CONTRACT ON PURCHASER'S INITIATIVE:

21.01 Purchaser reserves the right to terminate the Contract either in part or in full due to reasons other than those mentioned under clause entitled "Contractor's Default". The Purchaser shall in such an event give fifteen (15) days notice in writing to the Contractor of his decision to do so.

21.02 The Contractor upon receipt of such notice shall discontinue the work on the date and to the extent specified in the notice, make all reasonable efforts to obtain cancellation of all orders and Contracts to the extent they related to the work terminated and terms satisfactory or the purchaser, stop all further sub-contracting or purchasing activity related to the work terminated and terms satisfactory or the Purchaser, stop all further sub-contracting or purchasing activity related to the work terminated, and assist Purchaser in maintenance , protection , and disposition of the works acquired under the Contract by the Purchaser. In the event of such a termination the Contractor shall be paid compensation, equitable and reasonable, dictated by the circumstance prevalent at the time of termination.

21.03 If the Contractor is an individual or a proprietary concern and the individual or the proprietor dies and if the Contractor is a partnership concern and one of the partners dies then unless the Purchase is satisfied that the legal representatives of the individual Contractor or of the proprietor of the propriety concern and in the case of partnership, the surviving partners, are capable of carrying out and completing the Contract the Purchase shall be entitled to cancel the Contract as to its in completed part without being in any way liable to payment of any compensation to the estate of deceased Contractor and/or to the surviving partners of the Contractor's firm on account of the cancellation of the contract. The decision of the Purchaser that the legal representatives of the deceased Contractor or surviving partners of the Contractor's firm cannot carry out and complete the contract shall be final and binding on the parties. In the event of such cancellation the Purchaser shall not hold the estate of the deceased Contractor and /or the surviving partners of the Contractor's firm liable to damages for not completing the Contract.

22.0 FORCE MAJEURE:-

The Contractor 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, Flood, Epidemics, Quarantine restrictions, Strikes, Freight embargos and provided that the Contractor shall within ten (10) days from the beginning of such delay notify the Purchaser in writing of the cause of delay. The purchaser shall verify the facts and grant extension as facts justify.

23.0 EXTENSION OF TIME:-

If the delivery of the equipments / materials is delayed due to reasons beyond the control of the Contractor, The contractor shall immediately inform the Purchaser in writing of his claim for an extension of time. The Purchaser on receipt of such notice may agree to extend the contract period as may be reasonable but without prejudice to other terms & condition of the contract.

24.0 SAFETY PRECAUTIONS:-

The agency shall observe all applicable regulations regarding safety at the site. Any compensation due on account of accident at site shall be to the contractors account.

25.0 STORES:-

Storing of materials from supply to the erection shall be arranged by the contractor at his own cost. No compensation shall be made by the Purchaser for any damage or loss of materials during storing, transit transportation and at the time of erection.

26.0 INSURANCE:-

(a) Contractor shall arrange adequate Transit-cum-storage –cum-erection policy and shall submit the copy of the same to the purchaser. The Policy shall initially remain valid for a period of sixty days over & above of the contractual guarantee period and shall be extended as required till handing over.

(b) Contractor shall also arrange adequate cover for his employees/ labourers engaged in the works as well as arrange third party insurance cover to indemnify any possible damages to public at large not connected with the works process. Any claims(s) pertaining to this shall be the responsibility of the Contractor.

(c) The contractor shall undertake free replacement of the materials damaged or lost during transit, which will be intimated by the consignee within 30 days of receipt of the materials at purchaser's stores.

27.0 ENGINEER IN CHARGE OF THE PROJECT:-

The Purchaser/ Project Director, DRDA, Malkangiri may authorize the concerned Executive Engineer of DISCOM/ Nodal Officer of the DISCOM under Malkangiri District and Additional P.D (Tech) DRDA, to act as the **Engineer in Charge of the Project**, who will inspect the work from time to time and submit the report to the " Purchaser" accordingly.

28.0 CONTRACT PERFORMANCE BANK GUARANTEE:-

28.01 Within 30 days of issue of the Work Order, the Contractor shall submit Contract Performance Bank Guarantee issued by scheduled Bank, in favour of the Purchaser, covering 10% of the total value of the work order.

- 28.02** In case of Joint Venture/ Consortium, Performance Bank Guarantee shall be in the name of the lead partner @ 10% of the contract price and additional @ 1% each by the joint venture partner(s) separately (or) single Bank Guarantee for (Lead partner@ 10% and each JV Partner @ 1% mentioning the name and address of the Lead & JV partner, to be submitted by the lead partner.
- 28.03** The said Bank Guarantee shall be prepared in the prescribed Proforma as attached in Section IV, Annexure-III .The Bank guarantee furnished shall be executed on Non-judicial stamp Paper worth of Rs.100/- (Rupees Hundred Only) , purchased in the name of the issuing bank, as per the prevalent rules, the Bank Guarantee so provided shall be encashable on the Bhubaneswar branch of the issuing Bank.
- 28.04** The Contract Performance Bank Guarantee shall remain valid for a period not less than 90 days over and above the guarantee period, basing on stipulated completion period in W.O towards security i.e.
- (a) For Bid:** (Supply and Execution of LED Street lighting with all accessories in all the villages of GPs under Malkangiri District): 30 days from the date of issue of the work order and acceptance thereof, filing which the work order (W.O) will be liable for cancellation without any further notice with forfeiture of E.M.D.
- 28.05** No interest shall be allowed by the Purchaser on the above Performance Security Deposit submitted by the Bidder.
- 28.06** The Contract Performance Bank Guarantee may be extended for the delay period if completion of work, if any.
- 29.0 TERMS OF PAYMENT:-**
- 29.01** 80% (Eighty Percent) of Contract price (both supply and erection) along with taxed and duties shall be paid after completion of the work (Supply and erection of LED street light fixtures as per the scope in the work order) pertaining to the specific village in the work order only as per the agreed bill of Materials within 30 days of submission of claim subject to certification by Purchaser's authorized Engineer on the basis of check points / reports involved in such items of work.
- a. Before certification of the bill, all the completed project (villages wise) will be verified jointly by the authorised Engineer or the Purchaser, i.e in the presence of the Asst Executive Engineer (of the respective Block) and Asst. Manager (Electrical)/SDO (Electrical) of the concerned DISCOM headed by the Concerned BDO and submit a "jointly Measurement Certificate" in the prescribed format (Section-VI, Annexure-B for passing of the bill of the contractor.
- b. The contractor will also submit the compliance report in duly signed condition (in detail) of the "Engineer In Charge" of the project along with the bill.
- 29.02** Balance 20% (twenty Percent) of the contract price shall be paid after completion of all works , envisaged under the package including any additions and alternation testing &

commissioning ,return of dismantled materials/un-used free supply materials, taking over certificate and entire stretch is fully ready for commercial operation .The payments shall be subjected to clearance from electrical inspectorate.

Note: *In case of jointventure/consortium all BGs shall be in the name of joint venture/consortium covering all the partners including the Lead Partner. The amount shall be 10% for lead partner and additional 1% for each of the J.V partners separately or single B.G (Lead Partner@ 10% and JV partner @ 1%) mentioning the name and address of lead and JV partner to be submitted by lead partner.*

30.0 PAYING OFFICER:-

"Project Director, DRDA Malkangiri" shall be the paying officer for the entire project".

31.0 PURCHASER'S RIGHTS:-

The Purchaser reserve the right to accept any bid or reject any or all bid cancel/withdraw invitation of bid or to vary the quantity for placement of order without assigning any reason to such decision , Such decision by the Purchaser shall be no liability.

32.0 DISPUTE RESOLUTION AND JURISDICTION:-

a) Any Disputes arising out of this contract shall be referred to the Project Director, DRDA, Malkangiri, who shall decide the case as sole arbitrator.

b) For the purpose of dispute resolution, this agreement shall be governed by the provision of arbitration and Conciliation Act, 1996.

c) All disputes shall be subjected to exclusive jurisdiction of the Courts at Malkangiri and the writ jurisdiction of Hon'ble High Court of Odisha at Cuttack.

33.0 TRANSFER AND SUB-LETTING:-

The Contractor shall not sublet, transfer, assign or otherwise part with the Contract or any part thereof, either directly or indirectly, without prior written permission of the Purchaser.

34.0 SUBMITTALS REQUIRED AFTER AWARD OR CONTRACT:-

34.1 Within 30 days of the effective date of contract, the contractor shall provide three copies of an outline programme of production, inspection; testing, delivery, survey, erection, pre-commissioning and commissioning in Bar chart from included the program and schedule of drawing etc for approval of the Purchaser.

34.02 The bar chart & part chart for each item of the work so as to complete the work in scheduled period of 3 months for Bid 1 & 2 project shall be furnished by the contractor/successful Bidder.

34.03 The periodic progress report as required by the purchaser shall be submitted by the contractor as per the format prescribed by the Purchaser/his authorized representative.

35.0 APPROVAL PROCEDURE OF SUB -VENDORS & DRAWINGS OF BOUGHT OUT MATERIALS:-

- 35.01** The contractor shall submit all drawings, documents and type test report, QAP, Name of Sub-vendor, samples (as applicable) etc, to the engineer in charge within 15 days of award of LOA for approval .if modifications to be made if such are deemed necessary, the contractor has to resubmit them for approval .If modification to be made if such are deemed necessary, the contractor has to resubmit them for approval without delaying the initial deliveries of completion of the contract work.
- 35.02** Three copies of all drawings, GTP shall be submitted for approval and three copies for any subsequent revision.
- 35.03** If the drawings will be as per the technical specifications, the competent authority of the purchaser will return the drawings & documents to the contractor marked with "Approved Stamp."

36.0 TAKING OVER:-

- 36.1** Upon successful completion of all the tests to be performed at site on equipment/ materials supplied and erected by the contractor, the supplier/the Project in charge shall issue to the contractor a "taking over Certificate" as a proof of the final acceptance of the equipment/ materials/work .The project after completion of the work shall be taken over *(in the prescribed format)* by the concerned Gram Panchayat (G.P) head for future maintenance after the Guarantee Period and payment of monthly electricity dues (after charging) thereafter .
- 36.2** The Sarapanch of the Gram Panchayat (G.P) will apply for new service connection in the Form-2 to the local officer in charge of concerned DISCOM well before schedule date of charging and deposit all the required fees for the same .However the concerned local DISCOM authority will facilitate for early completion of the departmental formalities.
- 36.3** For the satisfaction of purchaser about quality , the purchaser shall have unreserved right for arrangement of testing of equipment/ materials and the complete system independently by self or any other agency chosen by the purchaser .The contractor is expected to agree and extend necessary help during such test if necessary.

37.0 LATENT DEFECT WARRENTY:-

- 37.01** The period of Latent Defect Warranty in terms of this bidding documents, shall be limited to five (05) years from the date of completion of Guarantee period.

38.0 EMBOSSING/ PUNCHING/ CASTING/ PAINTING:-

- 38.1** The all major equipments and materials Supplied / erected under this project shall bear distinct mark of "Name of the Purchaser, PRD, WO Order no. & Date" by a way of embossing/punching/casting/painting etc. This should be clearly visible to naked eye.

SECTION-III
PRICE SCHEDULE FORMAT
SCHEDULE OF QUANTITY & PRICE

ERECTION & COMMISSIONING OF.....

(Firms shall quote the unit rate of all the items and total rates including all taxes and duties)

Sl. No	Description of the works	Unit	Quantity	Unit Supply Rate (Rs.)	Amount (Rs.)	Unit Erection Rate (Rs.)	Amount (Rs.)	Total (Rs.)
1	2	3	4	5	6=(4x5)	7	8=(4x7)	9=(7+8)
	TOTAL (Rs.)							

(Rupees in words.....)

Please refer Volume –III Bid proposal sheets enclosed with this tender specification, Bidders are required to enter their item wise rates in individual sheet of the respective packages of Bid-1.

Bidders will be permitted to only enter the item wise rates. No other modification shall be permitted. Bidders are required to sign each and every page and enclose the same in the price bid in sealed Condition; one soft copy in CD shall also be submitted in the Price Bid.

(Signature if the Bidders)

Note:

- I. Unit rate is inclusive of all taxes and duties.
- II. Any discrepancy in unit rate and amount, unit rate stands.
- III. Any column left blank shall be treated as nil/inclusive of.



SECTION –IV

ANNEXURE-1

BID PROPOSAL LETTER

Electrical Installation of Works (LED Street Lighting Project) under Project Director, DRDA, Malkangiri district.

Bidder's Name and Address :

(In case of JV/Consortium , Name of JV/Consortium)

Bid Proposal Reference :

Person to be contacted :

Designation :

Telephone No:

E-mail:

Fax No:

To,

FAX No:

Name & Address of the Purchaser's designated Officer

Dear Sir,

We the undersigned bidder have read and examined the detailed specification and bidding documents for execution of various electrical installation works and do herewith submit our bid for the following package:-

Sl. No	Name of the Purchaser	Name of the Division	Package Code Reference

We declare the following:

1.0 PRICE AND VALIDITY :

1.01 All the prices and price component (s) stated in our bid proposal are firm and not subject to any price adjustment, in line with the bidding documents and for a period of six months from the date of opening of the bids.

1.02 We do hereby confirm that our bid prices as quoted in attached schedules include all import duties and levies including licence fees lawfully payable by us on imported items and other taxes, duties and levies applicable on budget-out components, materials, equipments and other items and confirm that any such taxes, duties and levies automatically payable shall be to our account.



- 1.03 We confirm that the sales tax on Works Contract, Turnover Tax or any other similar taxes under the Sales Tax Act & GST Act as applicable, are included in our quoted bid price and there shall not be any liability on this account to the Purchasers. We understand that Purchasers shall, deduct such taxes at source as per the rules and issue TDS Certificate to us.
- 1.04 We confirm that, in our Bid price, we have considered service tax etc in line with lawful prevalent practice.
- 1.05 Price components of various items are indicated in the B.O.Q for the respective works.
- 1.06 We, having studied the bidding documents in three volumes relating to taxes & duties and hereby, declare that if any income tax, charge on income tax or any other corporate tax is attracted under the law, we agree to pay the same.
- 1.07 We agree that the entered rates and prices shall be deemed to include the full scope as aforesaid, including overheads and profits.
- 1.08 We understand that in the price schedule, if there is discrepancy between the unit price and total price, the same shall be corrected as per relevant provisions.
- 1.09 We declare that prices for items left blank in the schedules will be deemed to have been included in other items. The TOTAL for each schedule and the TOTAL of Grand summary shall be deemed to be the total price for executing the facilities and sections thereof in complete accordance with the contract, whether or not each items has been priced.
- 2.0 CONSTRUCTION OF THE CONTRACT:-**
- 2.01 We declare that we are making the offer on the basis of individual supply –cum-Erection contract on a single source responsibility basis.
- 3.0 BID SECURITY (EMD)**
- We are enclosing DD No.....dtd.....amounting to Rs.....
(Rupees Only) issued by.....bank.....branch, payable on.....
.....towards Bid Security against our above Bid. The Bid Security amount has been computed by adding the Estimated Cost of the package..... no.s for which we are submitting our bid.
- 4.0 EQUIPMENT PERFORMANCE GUARANTEE:-**
- We declare that the ratings and performance figures of the equipment to be furnishing and erected by us are guaranteed. The Guaranteed particulars of different equipments are enclosed along with our bid.
- 5.0 BID PRICING:-**
- We further declare that the prices stated in our proposal are in accordance with your Instruction of Bidders of Conditions of Contract, in GCC of the bid documents.

6.0 PRICE ADJUSTMENT:-

We declare that all the prices and price components stated in our offer are on FIRM price basis.

7.0 QUALIFICATION:-

We confirm having submitted the Qualification Data in original plus one copy, as required by you under clause 6.0 'Inviting for Bids'. Further we have filled in the information for qualification requirements. In case you required any further information in this regard, we agree to furnish the same in time.

8.0 DEVIATIONS:-

8.01 We declare that the contract shall be executed strictly in accordance with the specifications and documents except for the variations and deviations all of which have been detailed out exhaustively in the following schedules, irrespective of whatever has been stated to the contrary anywhere else in our proposal.

- a) Commercial Deviations Schedule
- b) Cost of withdrawal of Deviations on Critical
- c) Technical Deviations Schedule.

8.02 We confirm that specified stipulations of the following critical clauses are acceptable to us and no deviations/exceptions are taken on any account whatsoever in the following clause:-

- (a) Payment Terms :-
- (b) Bid Guarantee :-
- (c) Contract Performance Guarantee :-
- (d) Liquidated Damages for delay :-
- (e) Prices and Price Adjustment :-
- (f) Guarantee/Warrantees :-
- (g) Five Years Annual Maintenance Contract :-

8.03 Further, we agree that the additional conditions, deviations, if any, found in our bid proposal documents other than those stated in attached Deviation Schedules, save that pertaining to any rebates offered, shall not be given effect to.

9.0 GUARANTEE DECLARATION:-

We guarantee that the equipment offered shall meet the rating and Performance requirements stipulated in these specifications. The guarantees Declaration which shall attract levy of liquidated damages for non-performance are indicated in the relevant schedule.

10.00 BROUGHT –OUT AND SUB-CONTRACTED ITEM:-

We are furnishing herewith at appropriate Schedule, the details of all major items of supply amounting to more than 10% of our Bid Price, which were propose subletting giving detail of the name of sub-contract /sub-vendor and quantity for each item.

11.0 WORK SCHEDULE:-

If this proposal is accepted by you, we agree to submit engineering data, provide services and complete the entire work from time to time, in accordance with schedule indicated in the proposal. We fully understand that the time schedule stipulated in this proposal is the essence of the contract, if awarded. The completion schedule of the various major key phase of the work is indicated in the designated schedule.

13.0 CONTRACT PERFORMANCE GUARANTEE:-

We further agree that if our Bid is accepted we shall provide an irrecoverable Bank Guarantee towards Contract Performance Guarantee, of value equivalent to ten percent (10%) of the Contract Price initially valid up to the end of ninety (90) days after the end of the contract warranty period in the form of Bank Guarantee in your favour within 15 (fifteen) days from the date of "notice of Award of Contract" and enter into a formal agreement with you immediately thereafter.

14.0 CHECK LIST:-

We have included a check list duly filled in schedule. We understand that only this check list, commercial and technical deviation will be read out during the part-I bid opening before the bidders present.

(For Joint Venture/ Consortium only)

We, the Partners of joint venture/ consortium submitting their Bid, do agree and confirm that in case of Award of the Contract on the joint venture, we shall be jointly and severally responsible for the execution of the contract in accordance with contract terms and conditions.

We, hereby declare that only the persons or firms interested in this proposal as principal are named herein that no other persons or firms other than those mentioned herein have any interest in this proposal or in the contract to be entered into if we are awarded the contract, and that this proposal is made without any connection with any other person, firm or party likewise submitting a proposal and that this proposal is in all respect for and in good faith, without collusion or fraud.

Dated this.....day of.....20

Thanking you,

Yours faithfully,

(Signature of the Authorized Signatory)

Printed Name.....

Designation.....

Common Seal off the company.....

(To be signed by lead partner case of Joint Venture)
(s) in case of Joint Venture)

Signature of other partner

Printed Name.....

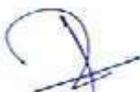
Designation.....

Date.....

Place:

(Written power of Attorney of all signatories of the bid to commit the Bidder must be enclosed with the Bid. In case of joint venture, the written Power of Attorney of all signatories from respective partners must be enclosed with the Bid.

***** Applicable case of a Bid from Joint Venture of Firms. Further, the Bid must be signed by each partner of the joint venture.**



ANNEXURE-I (A)

UNDERTAKING

Under the scope of the tender Notice/ Specification No....., we this..... do hereby undertake to execute the Project covered under the above specification on Complete turnkey basis (Supply and Erection of LED Street Lights with all accessories) and there shall be no deviation in any manner both for commercial & technical requirement as stipulated in bid documents, We understand that our price offer shall not be considered if we are found unsuitable in the minimum qualifying criteria.

(To be made in the company letter head)

Authorized Signatory and seal of the company.



ANNEXURE-IIDECLARATION FORM

TO,

The Project Director, DRDA, Malkangiri
Dist. Malkangiri Pin No764048

Sir,

Having examined the above specification together with the Tender terms and conditions referred to therein

1 – I / We the undersigned do hereby offer to supply the materials covered there on in complete shape in all respect as per the rules entered in the attached contract scheduled of prices in the tender.

2- I / We do hereby under take to have the materials delivered within the time specified in the tender.

3 – I / We do hereby guarantee the technical particulars given in the tender supported with necessary reports from concerned authorities.

4 – I / We doe hereby certify to have purchased a copy of the tender specifications by remitting Cash/ Demand Draft & this has been duly acknowledged by you in your letter No _____ Dt _____

5 -- I / We doe hereby agree to Composite Bank Guarantee in the manner specified /acceptable to P.D, DRDA. Malkangiri & for the sum as applicable to me / us as per clause No-28 of Section-II of this specification within fifteen days of issue of Letter of intent/ Purchase Order being decided in my/ us favour, failing which I/We clearly understand that the said LOI/ P.O shall be liable to be withdrawn by the purchaser.

Signed thisday of20

Yours faithfully,

(Signature of bidder with Seal of Company)

(This form should be duly filled up by the Bidder & submitted along with the original copy of the Tender)

ANNEXURE-III**PROFORMA FOR CONTRACT PERFORMANCE BANK GUARANTEE**

(To be executed on Rs. 100/- Non-judicial Stamp Paper purchased in the name of the BG issuing Bank)

This Guarantee Bond is executed this _____ day of _____ by us, _____ Bank at _____ P.O. _____ P.S. _____ Dist. _____ State _____

Whereas the Project Director, DRDA, Malkangiri, on behalf of Panchayati Raj & Drinking Water Department, Govt. Of Odisha (here in after called "Purchaser") has places Work Order No. _____ Dt. _____ (herein after called "Agreement") with M/s _____ (Lead partner) and M/s _____ (JV Partner(s))(hereinafter call "the Contractor") for supply and installation of _____ (description of the works) and whereas P.D, DRDA, Malkangiri has agreed (1) to exempt the Contractor from making payment of security deposit, (2) to release 100% payment of the cost of materials as per the said agreement and (3) to exempt from performance guarantee on furnishing by the Contractor to the P.D, DRDA, Malkangiri a composite Bank Guarantee of the value of 10% (ten Percent) of the Contract price of the said Agreement.

1. Now, therefore, in consideration of the Purchaser having agreed (1) to exempt the Contractor for making payment of security deposit, (2) to release 100% payment to the Contractor and (3) to exempt from furnishing performance guarantee in terms of the said Agreement as aforesaid, we the _____ Bank, Address _____ (code No. _____) (hereinafter referred to as "the Bank") do hereby undertake to pay to the Purchaser an amount not exceeding Rs. _____ (Rupees _____) Only against any loss or damage caused to or suffered by the Purchaser by reason of any breach by the said Contract (s) of any of the terms or conditions contained in the said Agreement.
2. We, the _____ Bank do hereby undertake to pay the amounts due and payable under the guarantee without any demur, merely on a demand from the Purchaser stating that the amount claimed is due by way of loss or damage caused to or suffered by Purchaser by reason of any breach by the said Contractor (s) of any of the terms or conditions contained in the said Agreement or by the reason of any breach by the said Contractor'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 _____) Only.
3. We, the _____ Bank also undertake to pay to the Purchaser any money so demanded notwithstanding any dispute or dispute raised by the Contractor(s) in any suit or proceeding instituted / pending before any court or Tribunal relating thereto our liability under this Agreement being absolute and irrevocable. The payment so made by us under this bond shall be valid discharge of our liability for payment there under and the Contractor(s) shall have not claim against us for making such payment.

4. We, the _____ Bank further agree that the guarantee herein contain shall remain in full force and effect during the period that would be taken for the performance of the said Agreement and it shall continue to remain in force endorsable till all the dues of the purchaser under by virtue of the said Agreement have been fully paid and its claim satisfied or discharged or till Purchaser certified that the terms and conditions of the said Agreement have been fully and properly carried out by the said Contractor(s) and accordingly discharge this guarantee and will not be revoked by us during the validity of the guarantee period.

Unless a demand or claim under this guarantee is made on us or with our _____ branch at _____ (Name ,address of the _____ branch and code No) in writing on or before _____ (date) we shall be discharged from all liability under this guarantee thereafter.

5. We, the _____ Bank further agree that the Purchaser 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 extent time of performance by the said Contractor(s) and we shall not be relived from our liability by reason of any such variation or extension being granted to the said Contractor(s) or for any forbearance act or omission on part of the Purchaser of any indulgence by the Purchaser to the said Contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would but for this provisions have effect of so reliving us.

6. The Guarantee will not be discharged due to change in the name, style and constitution of the Bank and or Contractor(s)

7. We, the _____ Bank lastly undertake not to revoke this Guarantee during its currency except with the previous consent of the Purchaser in writing.

Dated _____ the _____ day of Two thousand _____

Not withstanding anything contained herein above.

Our liability under this Bank Guarantee shall not exceed Rs. _____ (Rupees _____) Only.

Our _____ branch at _____ (Name & Address of the _____ branch) is liable to pay the guaranteed amount depending on the filing of claim and any part thereof under this Bank Guarantee only and only if you serve upon us at our _____-branch a written claim or demands and received by us at our _____ branch on or before Dt. _____ otherwise bank shall be discharged of all liabilities under this guarantee thereafter.

For _____

(Indicate the name of the Bank)

N.B:

- (1) Name of the Contractor :-
(Mention the name of JV partner(s) , if any)
- (2) No & date of the purchase order/ agreement :-
- (3) Amount of P.O :-
- (4) Name of the Materials :-
- (5) Name of the Bank :-
- (6) Amount of the Bank Guarantee :-
- (7) Name, Address and Code No. of the.....Branch of the Issuing Bank :-
- (8) Validity period or date up to which the agreement is valid :-
- (9) Signature of the Constituent Authority of the Bank with seal:-
- (10) Name & addresses of the Witness with signature:-
- (11) The Bank Guarantee shall be accepted only after getting confirmation from the respective
Banks :-



ANNEXURE-IV

FORM OF POWER OF ATTORNEY FOR JOINT VENTURE

(ON NON-JUDICIAL STAMP PAPER OF APPROPRIATE VALUE TO BE PURCHASED IN THE NAME OF JOINT VENTURE)

KNOW ALL MEN BY THESE PRESENTS THAT WE, the Partners whose details are given hereunderhave formed a joint Venture under the laws ofand having our Head Office(s) at..... (hereinafter called the "joint Venture" which expression shall unless repugnant to the context or meaning thereof , include its successors, administrators and assigns)acting through M/sbeing the Partner in-charge do hereby constitute, nominate and appoint M/s.....a company incorporated under the laws ofand having its Head Office atas out duly constitute lawful attorney (hereinafter called "Attorney" or "Authorised Representatives" or "Partner in charge") to exercise all or any of the powers for and on behalf of the joint venture in regard to specification No.....for construction of.....(name of the package) of.....(name of the <Purchaser>)(hereinafter called the "Purchaser")and the bids for which have been invited by the Purchaser, to undertake the following acts:-

- (i) To submit proposal and participate in the aforesaid Bid – Specification of the Purchaser on behalf of the "Joint Venture"
- (ii) To negotiate with Purchaser the terms and conditions for award of the contract pursuant to the aforesaid Bid and to sign the contract with the Purchaser for and on behalf of the "Joint Venture".
- (iii) To do any other act or submit any document related to the above.
- (iv) To receive, accept and execute the contract for and on behalf of the "joint Venture".

It is clearly understood that the Partner in-charge (Lead Partner) shall ensure performance of the contract(s) and if one or more Partner fail to perform their respective portion of the contract(s), the same shall be deemed to be a default by all the partners.

It is expressly understood that this power of Attorney shall remain valid binding and irrevocable till completion of the Defective of liability period in terms of the contract.

The Joint Venture hereby agrees and undertakes to ratify and confirm all the whatsoever the said Attorney/ Authorised Representatives/ Partner in-charge quotes in the bid, negotiates and signs the Contract with the Purchaser and / or proposed to act on behalf of the Joint Venture by virtue of this Power of Attorney and the same shall bind the Joint Venture as if done by itself.

IN WITNESS THERROF the Partners Constituting the Joint Venture as aforesaid have executed these presents on this.....day of.....under the Common Seal (s) their Companies.

For on behalf of
the Partners of Joint Ventures

.....
.....
.....

The Common Seal of the above Partners of the Joint Venture:

The Common Seal has been affixed there unto in the presence of :

WITNESS

1. Signature.....
Name.....
Designation.....
Occupation.....

2. Signature.....
Name.....
Designation.....
Occupation.....

ANNEXURE-V

FORM OF JOINT VENTURE / CONSORTIUM AGREEMENT

(To be executed on Non-judicial Stamp Paper of appropriate value to be Purchased in the name if joint venture)

PROFORMA OF JOINT VENTURE AGREEMENT BETWEEN.....AND -----

-----FOR BID SPECIFICATION NO.....

OF (Purchaser).

THIS Joint Venture Agreement executed on thisday ofTwo thousand andbetween M/s.....a company incorporated under the law of.....and having its Registered Office at.....(hereinafter called the "Lead Partner" which expression shall include its successor, executors and permitted assigns), M/sa company incorporated under the laws ofand having its Registered Office at(hereinafter called the "Partner" which expression shall include its successors, executors and permitted assigns) and M/s..... a company incorporated under the laws ofand having its Registered Office at(herein after called the "Partner" which expression shall include its successors, executors and permitted assigns) for the purpose of making a bid and entering into a contract (in case of award) against the specification No:.....for construction ofof (Purchaser), a company incorporated under thehaving its Registered Office at(hereinafter called the "Purchaser"

WHEREAS the Purchaser invited bids as per the above mentioned Specification for the design, manufacture, supply and erection, testing and commissioning of Equipments Materials stipulated in the bidding documents under subject Package for

AND WHEREAS Annexure- A (Qualification Requirement of the Bidder), Section, SCC, VOL-IA, forming part of the bidding, documents, stipulates that a Joint Venture of two or more qualified firms as partners, meeting the requirement of Annexure-A , Section, SCC as applicable may bid ,provided the joint Venture fulfils all other requirements of Annexure-A , Section, SCC and in such a case, the Bid shall be signed by the partners so as to legally bind all the Partners of the joint Venture , who will be jointly and severally liable to perform the Contract and all obligations hereunder.

The above clause further states that the Joint venture agreement shall be attached to the bid and the contract performance guarantee will be as per the format enclosed with the bidding document without any restriction or liability for either party.

AND WHEREAS the bid has been submitted to the Purchaser vide Proposal No dated by Lead Partner based on the Joint Venture agreement between all the Partners under these

presents and the bid in accordance with the requirements of Annexure-A (Qualification Requirements of the Bidders), Section, SCC has been signed by all the partners.

NOW THIS INDENTURE WITNESSETH AS UNDER:

In consideration of the above premises and agreements all the Partners to this Joint Venture do hereby now agree as follows:-

1. In consideration of the award of the Contract by the Purchaser to the Joint Venture partners, we, the Partners to the Joint Venture agreement do hereby agree that M/sshall act as Lead Partner and further declare and confirm that we shall jointly and severally be bound unto the Purchaser for the successful performance of the Contract and shall be fully responsible for the design, manufacture, supply, and performance of the equipment in accordance with the Contract.
2. In case of any breach of the said Contract by the Lead Partner(s) of the Joint Venture agreement, the partner(s) do hereby agree to be fully responsible for the successful performance of the contract and to carry out all the obligations and responsibilities under the contract in accordance with the requirements of the contract.
3. Further, if the purchaser suffers any loss or damage on account of any breach in the contract or any shortfall in the performance of the equipments in meeting the performance guaranteed as per the specification in terms of the contract, the Partner(s) of these presents undertake to promptly make good such loss or damages caused to the purchaser, on its demand without any demur. It shall not be necessary or obligatory for the purchaser to proceed against lead partner to these presents before proceedings against or dealing with the other partner(s).
4. The financial liability of the partners of this joint venture agreement to the purchaser, with respect to any of the claims arising out of the performance of non performance of the obligations set forth in the said Joint Venture agreement, read in conjunction with the relevant conditions of the contract shall, however, not be limited in any way so as to restrict or limit the liabilities of any of the partners of the joint venture agreement.
5. It is expressly understood and agreed between the partners to this joint venture agreement that the responsibilities and obligations of each of the partners shall be as delineated in Appendix-I(*) to be incorporated suitably by the Partners) to this agreement. It is further agreed by the partners that the above sharing of responsibilities and obligations shall not in any way be a limitation of joint and several responsibilities of the partners under this contract.
6. These Joint Venture agreements shall be construed and interpreted in accordance with the laws of India and the courts of Delhi shall have the exclusive jurisdiction in all matters arising there under.



- 7. In case of an award of a contract, with the partner to the joint venture agreement do hereby agree that we shall be jointly and severally responsible for furnishing a contract performance security from a bank in favour of the purchaser in the forms acceptable to purchaser for value of 10% of the contract price in the currency/ currencies of the contract.
- 8. It is further agreed that the joint venture agreement shall be irrevocable and shall form an integral part of the contract, and shall continue to be enforceable till the purchaser discharges the same. It shall be effective from the date first mentioned above for all purposes and intents.

IN WITNESS WHERE OF the partners to the joint venture agreement have through their authorised representatives executed these presents and affixed Common seals of their companies, on the day, months and year first mentioned above.

1. Common Seal.....of For Lead Partner
 has been affixed in my/our presence

Pursuant to the Board of Director's Signature of authorised
 Resolution dated representative)

Name.....

Signature..... Designation

Name..... Common Seal of the Company

Designation.....

.....

2. Common Seal ofFor other Partners
 has been affixed my/our presence

Pursuant to the Board of Director's Signature of authorised
 Resolution dated representative)

Name.....

Signature..... Designation

Name..... Common Seal of the Company

Designation.....

WITNESS:

1.....
.....

2.

(Signature)

(Signature)

Name.....
.....

Name.....
.....

(Official address)

(Official address)

ANNEXURE-VI (A)**LETTER OF COMPLIANCE OF QUALIFYING REQUIREMENT****(In Case of Bidder being a Single Firm)**

To

The Project Director, DRDA, Malkangiri

Dear Sir,

I/We.....(Name of Bidder)are submitting the bid as a single firm .in support of our meeting the Qualifying requirements (QR) for bidders, stipulated in this tender specification, we furnish herewith the details/documents etc. as follows.

Table –A : Previous Works Experience:

Package Quoted for	Description of Proposed Works	Tender Qty.	Qty Installed & Commissioned					Documents provided in proof of having executed the works during the relevant FY.
			Sl. No	FY	Name of the Client	WO Ref	Qty Installed	

Table –B : Average Annual Turnover:

Package Quoted for	Estimated Cost of the Package (Rs. In Lakh)	Financial Year	Turnover (Rs. In Lakh)
		Last Three Year	
		preceeding to the	
		year of tender	
Total Estimated Cost of the package quoted for		Average Turnover	

Table –C : Access to Credit Facility :

Package Quoted for	Estimated Cost of the Package (Rs. In Lakh)	Liquid Assets as on 31.10.2017		Credit Facility	
		Description	Rs. In Lakh	Description	Rs. In Lakh
		Cash in Hand		Cash Credit	
		Cash at Bank		LC	
		Fixed Deposit		Others (pl Specify)	
Total Estimated Cost of the package quoted for		Total Liquid Assets		Total credit Facility	
One fifth of the total Estimate costs as above					

Note: Continuation sheets, of like size and format, may be used as per Bidder's requirements and annexed to this Schedule.

I/We declare that we are fluffing the qualifying requirement as per clause no-2.0 Section – I, Invitation for Bids (IFB).

For & on behalf of..... (Name of the Bidder).

ANNEXURE-VI (B)**LETTER OF COMPLIANCE OF QUALIFYING REQUIREMENT****(In Case of Bidder being a Joint Venture/Consortium Firm)**

To

The Project Director, DRDA, Malkangiri

Dear Sir,

I/We.....(Name of Bidder)are submitting the bid as a single firm .in support of our meeting the Qualifying requirements (QR) for bidders, stipulated in this tender specification, we furnish herewith the details/documents etc. as follows.

Name of the members of the JV/ Consortium.

1.

2.

3.

Table –A : Previous Works Experience: Name of the Member (any one member only)

Package Quoted for	Description of Proposed Works	Tender Qty.	Qty Installed & Commissioned					Documents provided in proof of having executed the works during the relevant FY.
			Sl. No	FY	Name of the Client	WO Ref	Qty Installed	

Table -B : Average Annual Turnover: (All members of JV/Consortium taken together)

Package Quoted for	Estimated Cost of the Package (Rs. In Lakh)	Annual Turnover (Rs. In Lakh)		Annual Turnover (Rs. In Lakh)		Annual Turnover (Rs. In Lakh)	
		Name of the Member	1	Name of the Member	2	Name of the Member	3
		Financial year	Turnover (Rs. In Lakh)	Financial year	Turnover (Rs. In Lakh)	Financial year	Turnover (Rs. In Lakh)
		FY 2014-15		FY 2014-15		FY 2014-15	
		FY 2015-16		FY 2015-16		FY 2015-16	
		FY 2016-17		FY 2016-17		FY 2016-17	
		Total		Total		Total	
Total Estimated Cost of the Packages quoted for						Average Turnover	

Table –C : Access to Credit Facility: (All the members of JV/Consortium taken together)

Package Quoted for	Estimated Cost of the Package (Rs. In Lakh)	Liquid Assets as on		Credit Facility	
		Member	1	Member	1
		Description	(Rs. In Lakh)		
		Cash in Hand		Cash Credit	
		Cash at Bank		LC	
		Fixed Deposit		Others (pl Specify)	
Total Estimated Cost of the package quoted for		Total Liquid Assets		Total credit Facility	
One fifth of the total Estimate costs as above		Liquid Assets as on.....		Credit Facility	
		Member	2	Member	2
		Description	(Rs. In Lakh)		
		Cash in Hand		Cash Credit	
		Cash at Bank		LC	
		Fixed Deposit		Others (pl Specify)	
		Total Liquid Assets		Total credit Facility	
		Liquid Assets as on.....		Credit Facility	
		Total for JV	2	Total for JV	2
		Description	(Rs. In Lakh)	Description	(Rs. In Lakh)
		Cash in Hand		Cash Credit	
		Cash at Bank		LC	
		Fixed Deposit		Others (pl Specify)	
Total Estimated Cost of the package quoted for		Total Liquid Assets		Total credit Facility	
One fifth of the total Estimate costs as above					

Note:- Contribution Sheet of like size and format , may be used as per Bidder's requirement and annexed to this Schedule.

I/We declare that we are fluffing the qualifying requirement as per clause no-2.0 Section – I, Invitation for Bids (IFB).

For & on behalf of..... (Name of the Bidder).

(All members of JV/ Consortium should sign).

Details of qualification and experience of key personnel proposed for carrying out the works

Sl. No	Name of Personnel	Degree/ Diploma	Branch	Year of Passing	Past Experience				
					From	To	Name of the Employer	Position Held	Responsibilities/ Relevant experience

Date :

(Signature).....

Place:-

(Printed Name).....

(Designation).....

(Common Seal).....

- Nte : 1. *Continuation Sheet, of like size and format , may be used as per Bidder's requirement and annexed to this Schedule.*
2. *In case of Joint Venture, Separate sheet for each partner of Joint Venture should be used.*

ANNEXURE-VII**BOUGHT OUT & SUB CONTRACTED ITEMS**

Bidder's Name & Address

To

The Project Director, DRDA, Malkangiri.

Dear Sir,

We hereby furnish the details of the items/sub-assemblies amounting to more than 10% of our bid price; we propose to buy for the purpose of subject package.

Sl.No	Items description	Qty. Proposed	Be Bought	Source of Supply
1
2
3
4
5
6
7

Date :

(Signature).....

Place:-

(Printed Name).....

(Designation).....

ANNEXURE-VIIWORK COMPLETION SCHEDULE

Bidder's Name & Address

To

The Project Director, DRDA, Malkangiri
Dear Sir,

We hereby declare that the following Work Completion Schedule shall be followed by us for the purpose of subject package.

Sl.No	Description of Work	Period in Months (from the date of LOA)
1	Completion of detailed engineering	
2	Procurement of raw materials	
3	Establishment of site office	
4	Erection	
5	(a) Commencement	
	(b)Completion	
6	Commissioning	

Date :

(Signature).....

Place:-

(Printed Name).....

(Designation).....

(Common Seal)

ANNEXURE-IXCHECK LIST

Bidder's Name & Address

To

The Project Director, DRDA, Malkangiri

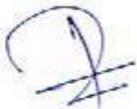
Dear Sir,

Sl.No	Items of Description	Status of the Submission of data	Remarks
1	2	3	4
1	Bid Guarantee	Yes/No	If yes please give details No, amount ,validity & date of issue
2	Qualifying Data	Yes/No	
3	Commercial Deviation	Yes/No	
4	Technical Deviation	Yes/No	
5	Cost of withdrawn of deviations	Yes/No	
6	Bid Validity	Yes/No	If yes state here the period
7	Period of Completion	Yes/No	If yes please state here the period of completion
8	Additional information offered by bidder	Yes/No	State here briefly

N.B:- The contents of this schedule will be read out during opening of Part-I Bid.

Signature of the Bidder

Date & Seal



ANNEXURE-X

PROFORMA FOR HANDED OVER BY < PURCHASER> / FOR PERFORMANCE OF ITS CONTRACT

SCHEDULE

Sl.No	Particulars of the Equipment handed over	Unit	Qty	Particulars of dispatch Documents		Value of the Equipments	Signature of the Attorney
				RR/GR/No./Date of Bill of Loading	Carrier		

For an on behalf of

M/s.....

WITNESS

- | | |
|----------------------|----------------|
| 1. 1. Signature..... | Signature..... |
| 2. Name..... | Name..... |
| 3. Address..... | Address..... |

Authorised representative*

- | | |
|----------------------|-----------------------------------|
| 1. 1. Signature..... | (Common Seal in case of Company). |
| 2. Name..... | |
| 3. Address..... | |

ANNEXURE-XI**SELF DECLARATION FORM**

Name of the Purchaser.....

Tender No:.....

Sir,

1. I/We the undersigned do hereby declare that I/WE have never been blacklist and / or there were no debarring actions against us for any default in supply of material/ equipments or in the performance if the contract entrusted to us in any of the electricity utilities of India.
2. In the event of any such information pertaining to the aforesaid matter found at any given point of time either during the course of the contract of at the bidding stage, may bid/ contract shall be liable for truncation/ cancellation / termination without any notice at the sole discretion of the purchaser.

Place :-

Date :

Yours faithfully,

Signature of the bidder with seal

(This form shall be duly filled up and signed.
By the bidder and submitted along
with the original copy of the bid.)

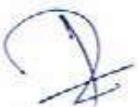


SECTION: V

TECHNICAL SPECIFICATION

For

Bid: Supply & Execution of LED Street lighting System with all its accessories thereof, failing which the work orders (W.O) will be liable for cancellation without any further notice with forfeiture of E.M.D



CONTENTS
(TECHNICAL SPECIFICATION)

SECTION NO	DESCRIPTION	PAGE NO
Section-1	General	47-48
Section-2	LED light Fixture	49-53
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Section-4	LT Aerial Bunched Cable	59-66
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Annexure-A	Price Bid	68-69
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Sub-Section-1

General

1.0. INTRODUCTION:

The PROJECT DIRECTOR, DRDA, Malkangiri district hereinafter called OWNER/Purchaser will receive Bids in respect of Total Turnkey Package for the following works:

Bid : Supply & Execution of LED Street Lighting System with all accessories in all the villages of GP under the district of Malkangiri.

The above works including supply of all Equipments/Materials Erection (including Civil Works), Testing and Commissioning as per the Scope detailed in the Bid Documents.

The work Involves with following scope:

- a) Detailed survey of the proposed area/villages and routes etc.
- b) Complete manufacture, including shop testing & supply of all materials / equipments from the approved vendor or from his manufacturing units.
- c) Providing Engineering drawing, data, operational manual, etc for the Purchaser's approval;
- d) Receipt, storage, preservation and conservation of equipment at the site.
- e) Pre-assembly, if any, erection testing and commissioning of all the equipment.
- f) Reliability tests and performance and guarantee tests on completion of commissioning.
- g) Loading, unloading and transportation as required.
- h) Erection of LED street light fixture (Lumen output >7100, or say 80Watt maximum), System efficacy -100 lumen /watt in all the villages of GPs (in Malkangiri district) Under Govt of Odisha.
- i) Erection of 8 Mtr new PSC pole (200Kg) where ever necessary.
- j) Extension of LT XLPE AB Cable(1x35+1x25mm²) with all its accessories as per the requirement for the successful OFF/ON control through Photo Switch with Timer.
- k) Erection of LED street light fixture (Lumen output >7100 of say 80Watt maximum) , System efficacy -100 lumen /watt (1no/pole)
- l) Erection of 2CX6mm² aluminum PVC cable for pole/LED light wiring.
- m) Installation of Photo Switch with Timer and control circuit for street lights inside a suitable TP Box as per requirement, so that all the street lights in a village will be controlled (OFF & ON) automatically as per the schedule timing.
- n) Glowing sticker in each pole fitted with LED lights showing the name of the project.



project cost and date of completion of the work.

- o) Submission of three copies of photo graphic evidence before execution of the work, during execution of the work and after completion of the work along with the bill.
- p) Testing and Commissioning of Light Street lighting System
- q) Storing before erection.
- r) Getting the complete Street Light system inspected by Electrical Inspector after successful completion of work.

2.0. TECHNICAL SPECIFICATIONS FOR SUPPLY OF MATERIALS:

The supply of all the required materials for this TOTAL TURN KEY project is in the scope of the contractor. The technical specifications for the major materials required are dealt herewith in the following sections of this volume. The following is the list of the Technical specifications for materials/equipments.

- i. **LED Street light fixture (Lumen output >7100, or say 80Watt maximum) ,System efficacy -100 lumen /watt complete assembly:**

Die Cast Aluminum body LED Street light fixture of (Lumen output >7100) complete assembly with lamp, Ballast, Ignitor Capacitor with full frame, glass cover etc. Fittings are to be of IP66 protected.

- ii. **2Cx6sqmm Aluminum PVC cable for pole wiring:**

2Cx6sqmm of Aluminum PVC cable (*from LED light fitting terminal to OH line ABC through AB connector*), as per IS, of make: Poly Cab wires, NICCO, Universal Cables Ltd, Torrent cables, Radiant Cables, Phinolex, Fort Gloster of India, Industrial Cables Ltd, KEI Industries, Havells India, Cables Corporation, or equivalent etc. for internal pole wiring.

Sub-Section-2

LED Light Fixture

TECHNICAL SPECIFICATION OF LED LIGHT FIXTURES FOR STREET LIGHT POLE

1.0 Scope Of Work:

1.1 Lumen output >7100 (or say 80Watt maximum), System efficacy -100 lumen /watt in each pole for LED Street light Fixture

This specification covers design, manufacture, testing and supply of LED light Lumen output >7100 (or say 80Watt maximum), System efficacy -100 lumen /watt in each pole, System efficacy -100 lumen /watt for street lighting(1no/pole), complete with all accessories. The bidder should enclose Performance Certificates from the above users, issued in favour of the Sub Vendor / manufacturer, as proof of successful operation in field.

Sl. No.	Rating	Type	Make of LED	Supply Qty(Nos.)	Location
1	More than 7100 Lumen or say 80Watt maximum), System efficacy - 100 lumen /watt in each pole	Street Light			

1.2 Lumen output >7100 (or say 80Watt maximum), System efficacy -100 lumen /watt for LED street light Fixture

Site Description:

The illumination requirement for the road shall meet Group-AI category according to the code of practice for lighting of public through fares vide IS 1944 (Part-I &II) 1970.

Indian Standards:

The Bureau of Indian Standards (BIS) publishes general requirements for the construction, testing and installation of luminary in IS 10322. Furthermore, the code of practice for lighting of public through fares is described in IS 1944. The product of intending agencies must conform with necessary details to the relevant parts of IS 10322 and IS 1944.

Scope of Work

Supply, installation, testing and commissioning of **LED Street light systems** with all Pole, fixtures, accessories and control equipments.

The Sample Lighting Design Considerations:

The bidder has to submit a sample lighting design report using the DiaLUX software. With the proposed luminaire, the bidder has to use the below design considerations to depict the light level (Average, Maximum & Minimum lux level), uniformity ratios & maximum luminous intensities at 70, 80 & 90 degrees in any direction forming the specified angle from the downward vertical, with the luminaire proposed for use in the bid. Please note that the below design considerations are indicative and are not meant for real representative sample of actual site. The same are being offered to verify the lighting parameters achievable by using the proposed LED luminaire.

a) Distance between poles	:	30 mtr.
b) Type of Carriage way	:	Single carriageway
c) Width of carriage way	:	7.5mtr
d) Height of Pole	:	9 mtr.
e) Overhang length	:	1 mtr
f) Boom length	:	2.8 mtr
g) Boom angle	:	5 degrees

Illumination consideration:

While designing, following guideline should be taken into consideration.

- Average illumination level for main carriageway must be ≥ 30 Lux
- Minimum illumination level / average illumination level should be ≥ 0.4
- Minimum illumination level/ maximum illumination level should be ≥ 0.33 .
- Design submitted by the bidder must clearly show the median, main carriage way, Design must make through Dialux or equivalent software. All file of the generated output must be submitted in soft copy as well as hard copy, IES file of the specified light product must be submitted in softcopy for verification purpose. Any error or overwriting shall not be acceptable. (Mandatory).
- Maintenance factor of 0.85 should be considered for the purpose of lighting design calculations in Dialux or equivalent Software.
- The manufactures should produce LM-79 and LM-80 report from NABL accredited laboratory.

- Design should be such that glare is minimum and fully comply to Full Cut – Off category of preferred light distribution as per Indian standard IS1944 (Part I and II), to ensure glare limitation and minimize the discomfort of drivers / pedestrians using the road. Details of the same should appear in design calculations document of Dialux or equivalent Software report.
- The design criteria shall be fulfilled. The light product, driver current, lumen output, number of LED, input wattage and other relevant details in design shall be considered for technical evaluation of the rest criteria. If any deviation found in parameter of driver current , lumen output, number of LED , input wattage of specified light product in the report of LM-79 , LM-80 , IP-66 from design data : the test report will not be accepted.

Technical Specifications for Luminaries should be as mentioned below:

Supply / Installation of Dimmable LED street light Luminaries compatible with a dimming system, LED street light Luminaries should be having single piece pressure die cast aluminium housing with supplier word mark / name engraved / embossing on the die cast housing to allow traceability till life of fixture (Stickering / Printing is not acceptable) and adhering to the following specifications.

- The housing of the luminaries should be made of non-corrosive high pressure die cast aluminium so as to ensure the strength and safety of the luminaries on the pole.
- Each individual LED source should be provided with multi-layer symmetric distribution lens, which should ensure that the light distribution of the luminaries is suitable for road lighting applications and should ensure high to pole spacing.
- The luminaries should be provided with different distribution lens choices so as to meet different road configurations.
- The Luminaries should be provided with 10 KV surge protection.
- The luminaries should have greater than 5500Lcolor temperature to meet different energy saving level.
- The luminaries should have 50,000 hours life time with 70% lumen maintenance at 150C.
- The IP classification of the whole luminaire should not be less than IP66.
- LM79 report should be produced from NABL certified Lab after clearance of technical bid and before opening of financial bid documents.

LED Light Fitting / luminary specifications

Parameter	Value
Input Voltage	AC 120-270 V
Input Frequency	50Hz +/-3Hz
Power factor	>0.95
System Power Consumption	80 Watt [Max]
Lumen output	>7100 lumens
Efficacy	100lumens/watt
Total harmonic distortion	< 20%
Driver Current	350 mA to 750 mA.
Working humidity	10% to 90% RH
Working temperature	-5°C to 50°C
IP Rating	IP66
Life expectancy	Above 50,000 Hrs with Maximum 30% depreciation.
Colour temperature	> 5500K
Colour rendering index	70 +/- 5%
Type of LED	High power LED
Make of LED source	OSRAM/CREE/ Philips luminad/NEISHA
Electrical Connector	Lead wire with minimum 1 m long
Heat Sink	Self-cleaning type

Unit provided with Integral 10 KV surge suspension quotation standard.

1.1) Ingress Protection Certificate (Mandatory)

The bidder must submit IP-66 certificate for complete fixture of offered product. Only IP-66 certificate from Recognized **NABL Accredited** Laboratory shall be accepted for this tender. Further the manufacturer shall submit the type test certificate from CPRI, or from the recognized **NABL Accredited** Laboratory or any other accredited laboratory owned by the Central Govt. Any Test Report / Certificate from any **non NABL Accredited** Laboratory / organization shall not be accepted.

1.2) Test Report to be submitted by Bidder

The bidder will submit a report containing test result for the LED product and its performance. The report shall contain all pertinent data regarding conditions of testing, type of equipment, LED products and reference standards. The report will include information on the following items:

- Relevant LED and Luminaries data sheets and Type test certificates indicating compliance to the technical specifications / standards.
- Lighting design report for indicating the Average luminance (lux), uniformity, maximum and minimum values. Polar curve of the light fitting the light distribution capability of luminaries should also be attached.
- Mounting Instruction sheets
- Authorization certificate in case the bidder is not a manufacturer.
- Make of LED: Luminaries and Electronic Driver used.
- R&D Facility recognized by Govt. of INDIA (if any) -
- Document declaring available in-house testing facilities with photos attached



Sub-Section-3

PSC Pole

TECHNICAL SPECIFICATION FOR O.H. LV LINE SUPPORT POLES (PSC) WITH ALL ACCESSORIES

1. SCOPE

All the LED street lights fixtures shall be mounted on the existing supports of concerned DISCOM in that village. However in case of requirement of additional support, only 8 Mtr long PSC pole (200Kg) as per IS standard shall be used.

This Specification covers Design, Engineering, Manufacture, testing, inspection before despatch, forwarding, packing, transportation to site, Insurance (both during transit & storage), Storage, Erection, Supervision, testing and commissioning of LV Line support Poles, Cross Arms and Bolts & Nuts for use in the networks of CESU, Odisha.

The equipment offered shall have been successfully type tested and the design shall have been satisfactory operation for a period not less than two years on the date of bid opening. Compliance shall be demonstrated by submitting with the bid, (i) authenticated copies of the type test reports and (ii) performance certificates from the users.

The scope of supply includes the provision of type tests. Rates of type tests shall be given in the appropriate price schedule of the bidding document and will be considered for evaluation. CESU reserves the right to waive type tests as indicated in the section on Quality Assurance, Inspection and Testing in this specification.

The line support poles and cross arms shall conform in all respects to highest standards of engineering, design, workmanship, this specification and the latest revisions of relevant standards at the time of offer and CESU shall have the power to reject any work or material, which, in his judgment, is not in full accordance therewith.

2. GENERAL

The line support poles and cross arms shall be designed to carry the line conductors with the necessary insulators and all other fittings and equipment under the conditions specified.

Poles may be manufactured from concrete (pre-stressed)

Pole cross arms are normally constructed of steel and shall be bolted to the pole.

3. PSC Poles

PSC Poles shall be of solid rectangular type with an overall length of 8.0 Mtr (200Kg) suitable for use in LT power lines.

4. Applicable Standards

Except when they conflict with specific requirements in this Specification, the PSC poles shall comply with the relevant provisions made in the following Indian Standards or the latest versions thereof.

- a) IS: 1678, Specification for pre-stressed concrete poles for overhead LT line.
- b) IS: 2905, Method of test for concrete poles for overhead power and telecommunications lines.
- c) IS: 7321, Code of Practice for selection, handling and erection of concrete poles for overhead power and telecommunication lines

4.1. Average Permanent Load

That fraction of the working load which may be considered of long duration over a period of one year.

- 4.2. **Load Factor:** The ratio of ultimate transverse load to the transverse load at first crack.

4.3. Transverse

The direction of the line bisecting the angle contained by the conductor at the pole. In the case of a straight run, this will be normal to the run of the line.

4.4. Transverse Load at First Crack

For design, the transverse load at first crack shall be taken as not less than the value of the working load.

4.5. Working Load

The maximum load in the transverse direction, that is ever likely to occur, including the wind pressure on the pole. This load is assumed to act at a point 600mm below the top with the buttend of the pole planted to the required depth as intended in the design.

4.6. Ultimate Failure

The condition existing when the pole ceases to sustain a load increment owing to either crushing of concrete, or snapping of the prestressed tendon or permanent stretching of the steel in any part of the pole.

4.7. Ultimate Transverse Load

The load at which failure occurs, when it is applied at a point 600mm below the top and perpendicular to the axis of the pole along the transverse direction with the buttend of the pole planted to the required depth as intended in the design.

5 Application

5.1 8.0M Poles (200 Kg)

These poles shall be used at tangent locations for 11kv and L.T. lines in wind pressure zones of $100\text{kg}/\text{M}^2$ in accordance with REC Construction Standards No.A-5.

The adoptable spans shall be as per specification and approval of G.M, Electrical Circle No. I for 11KV & LV lines

6. Material

6.1 Cement

The cement used in the manufacture of prestressed concrete poles shall be ordinary or rapid hardening Portland cement conforming to IS:269-1976 (Specification for ordinary and low heat Portland cement) or IS:8041E-1978 (Specification for rapid hardening Portland cement).

6.2 Aggregates

Aggregates used for the manufacture of pre-stressed concrete poles shall conform to IS:383 (Specification for coarse and fine aggregates from natural sources for concrete). The nominal maximum size of aggregates shall in no case exceed 12mm.

6.3 Water

Water should be free from chlorides, sulphates, other salts and organic matter. Potable water will be generally suitable.

6.4 Admixture

Admixture should not contain Calcium Chloride or other Chloride and salts which are likely to promote corrosion of pre-stressing steel. The admixture shall conform to IS9103.

6.5 Pre-Stressing Steel

The pre-stressing steel wires including those used as unmentioned wires should conform to IS:1785(Part-I) (Specification for plain hard-drawn steel wire for pre stressed concrete, Part-I cold drawn stress relieved wire), IS1785(Part-II) (Specification for plain hard-drawn steel wire) or IS:6003 (Specification for

indented wire for prestressed concrete). The type designs given in the annexure are for plain wires of 4mm diameter with a guaranteed ultimate strength of 175kg/mm^2 and for plain wires of 5mm diameter with a guaranteed ultimate strength of 160kg/mm^2 .

All pre stressing steel shall be free from splits, harmful scratches, surface flaws, rough, aged and imperfect edges and other defects likely to impair its use in pre stressed concrete.

6.6 Concrete Mix

The concrete mix shall be designed to the requirements laid down for controlled concrete (also called design mix concrete) in IS:1343-1980 (code of practice for pre stressed concrete) and IS:456-1978 (Code of practice for plain and reinforced concrete), subject to the following special conditions;

- a) Minimum works cube strength at 28 days should be at least 420Kg/cm^2 .
- b) The concrete strength at transfer should be at least 210kg/cm^2 .
- c) The mix should contain at least 380kg. Of cement per cubic meter of concrete.
- d) The mix should contain a low water content as is consistent with adequate work ability. If it becomes necessary to add water to increase the work ability, the cement content also should be raised in such a way that the original value of water cement ratio is maintained.

7. Transverse Strength Test

- 7.1 Poles made from ordinary Portland cement shall be tested only on the completion of 28 days and poles made from rapid hardening cement only on the completion of 14 days, after the day of manufacture.
- 7.2 The poles may be tested in either horizontal or vertical position. If tested in horizontal position, provisions shall be made to compensate for the overhanging weight of the pole, for this purpose, the overhanging portion of the pole may be supported on a movable trolley or similar device.
- 7.3 The pole shall be rigidly supported at the buttend for a distance equal to the agreed depth of planting
- 7.4 Load shall be applied at a point 600mm from the top of the pole and shall be steadily and gradually increased to the design value of the transverse load at first crack. The deflection at this load shall be measured
- 7.5 A pre-stressed concrete pole shall be deemed not to have passed the test if cracks wider than 0.1mm appear at a stage prior to the application of the design

transverse load at first crack and the observed ultimate transverse load is less than the design ultimate transverse load.

- 7.6 The load shall then be reduced to zero and increased gradually to a load equal to the first crack load plus 10% of the minimum ultimate transverse load, and held up for 2 minutes. This procedure shall be repeated until the load reaches the value of 80 per cent of the minimum ultimate transverse load and thereafter increased by 5 percent of the minimum ultimate transverse load until failure occurs. Each time the load is applied, it shall be held for 2 minutes. The load applied to pre stressed concrete pole at the point of failure shall be measured to nearest five Kilograms.
- 7.7 The pole shall be deemed not to have passed the test if the observed ultimate transverse load is less than the design ultimate transverse load.

8. Sampling and Inspection

8.1 Scale of sampling

- 8.2 **Lot:** In any batch, all poles of the same class and dimensions shall be grouped together to constitute a lot.
- 8.3 **Sub-lot:** If the numbers of poles in a lot exceed 500, the lot shall be divided into a suitable number of sub lots such that the number of poles in any sub-lot shall not exceed 500. The acceptance or otherwise of a sub-lot shall be determined on the basis of the performance of samples selected from it.

SAMPLE SIZE AND CRITERION FOR CONFORMITY

Size of lot or sub-lot	Dimensional Requirement		No. of poles for transverse strength test
	Sample Size	Permissible No. of defective samples.	
Upto 100	10	1	1
101 to 200	15	1	3
201 to 300	20	2	4
301 to 500	30	3	5

Sub-Section-4

TECHNICAL SPECIFICATIONS OF LT AERIAL BUNCHED CABLE

Single (1) Core x $35\text{mm}^2 + 1\text{x } 25\text{mm}^2$

(1) SCOPE :

This specification covers Manufacture, testing at works, supply and delivery of 1.1 KV LT Aerial Bunch Cable of size 1C x $35\text{mm}^2 + 25\text{mm}^2$ having XLPE insulation Aluminium Cable twisted over a Central XLPE Insulated Aluminium Alloy Neutral cum messenger wire for use of L.T over head lines in Rural Electrical System as well as in thickly Populated City/ Town in narrow streets.

(2) RATED VOLTAGE :

The rated voltage of the cables shall be 1100 Volts.

(3) APPLICABLE STANDARDS :

1. IS 14255 – 1995 with latest amendment if any for ABC Cables 1100 Volts.
2. IS 7.98(P-1) / 1988 with latest amendment if any for XLPE Insulation.
3. IS 8130 / 1984 with latest amendment if any for, for Conductor to be used for insulated cables.
4. IS 398(P-IV)/1994 with latest amendment if any for Aluminium Alloy Conductor.
5. IS 10418/1982 with latest amendment if any for drum for electric cables.

(4) GENERAL :

The XLPE Insulated Phase Conductor shall twisted around the XLPE Insulated Aluminium Alloy messenger cum Neutral wire, which shall take all the mechanical stresses. The messenger wire shall also serve as Earth Cum Neutral wire.

(5) PHASE CONDUCTOR :

- 5.1. The Phase Conductor shall be Aluminium – Governed by IS 8130/ 1984 with latest amendment if any – and shall be insulated with ZLPE insulation suitable for 1100 Volts Insulation. The insulated Conductor shall generally confirm to IS 14255 – 1995 and IS (p-1) 0988 with latest amendment if any.

- 5.2. The Phase Conductor shall suitably compact and outer diameter shall be within specified limits as per applicable standard of ABC cable (IS 14255 / 1995).
- 5.3. The Tensile strength of Aluminium wire use in Conductor shall not be less than 90N/mm^2
- 5.4. The phased Conductor shall be provided with special identification with ONE Ridge and neutral-cum-messenger with TWO ridges for easy identification.
- 5.5. The standard size and technical Characteristics of the phase and Neutral Conductor shall be as under.

TABLE -1

Nominal Sectional area (mm^2)	No. of stands	Dia. Of Compacted conductor (mm)	(Bare)/ Approx. Mass Kg./Km. Approx. (Phase) Neutral	Maximum DC Resistance at 20°c ohm/Km	Insulation Thickness (mm)
35 mm^2	7	6.8	95	0.868	1.2

TABLE=II (Approx. Weights)

Size of Cable	Wt. Of phase Conductor (WO Insulation) Kg./Km.	Wt. Of Insulation Phase Conductor Kg./Km.	Wt. Of Neutral Conductor (WO Insulation) Kg./Km.	Wt. Of Insulation Neutral Conductor Kg./Km.	Total Weight Kg./Km.
IC x 35+25 mm^2	95	29.40	67	23.40	216

Note:

- (1) Density of XLPE Insulation is taken as 1.0 for Insulation Weight calculation purpose.
- (2) Plus Minus (+) Tolerance of 5% is permissible.

(6) THE MESSENGER CUM NEUTRAL/ EARTHING WIRE

- 6.1. The XLPE Insulated Messenger Cum Neutral Wire shall be of Aluminium Alloy confirming to IS 398(P-IV) / 1994 with latest amendment if any composed of 7

standards and shall be suitably compacted to have smooth round surface to avoid damage to the XLPE insulation of phase conductor twisted around the insulated messenger wire. The shape of compacted conductor shall be as per requirement of applicable standard.

- 6.2. There shall be no joint if any of standard messengers cum Neutral Conductor except those made in the base rods or wires before final drawing.
- 6.3. Other technical requirement will be as per applicable standards.

7. COMPOSITION AND DESIGNATION OF FINISHED CABLE :

Sl.No.	Designation	Complete Bunched over all diameter Approx. MM	Total Mass Kg./Km. Approx.
1	1C x 35mm ² + 25 MM ²	18.5	216

NOTE: First part of the Designation refers number and size of phase conductor, Second part refers to messenger cum neutral wire Number/ size and area. The sizes mentioned are the nominal sectional area.

(7) TYPE TEST :

(A) Test for Phase Conductor

- (a) Tensile Test (IS-8130)
- (b) Wrapping Test (IS-8130)
- (c) Conductor Resistance Test (IS-8130)

(B) Test for Messenger:

- (a) Breaking load test (to be made on finished conductor) – (IS-398/Pt. IV/1994 with latest revision)
- (b) Elongation test (IS-398 Pt.IV)
- (c) Resistance test (IS-398 Pt.IV)
- (d) If insulated, the test of insulation as per relevant IS will be applicable.

(C) Physical test for XLPE insulation.

- (a) Tensile strength and Elongation at break
- (b) Ageing in air oven
- (c) Hot set test
- (d) Shrinkage test**
- (e) Water absorption (Gravimetric)
- (f) Carbon black
- (g) Content
- (h) Dispersion
- (i) Test for thickness of insulation

- (j) Insulation Resistance (Volume Resistivity) Test
- (k) High Voltage Test.

OPTIONAL TEST :

(G) Bending test on complete cable.

Bending test shall be performed on a sample of complete cable. The sample shall be bent around a test mandrel at room temperature for at least one complete turn.

It shall then be unwound and the process shall be repeated after turning the sample around its axis 180. The cycle of these operations shall be then repeated twice.

The diameter of mandrel shall be $10(D+d)$

Where,

D = Actual dia. Of cable (i.e. the min circumscribing circle diameter)

d = Actual diameter of the phase conductor in mm²

No Cracks visible to the necked eye are allowed.

The tenderer should submit the entire above type test along with their offer.

(9) ACCEPTANCE TESTS :

Tests for Phase Conductor.

- a) Tensile test (for phase conductor)
- b) Wrapping test (for Phase conductor)
- c) Breaking load test for messenger conductor
- d) Elongation test for messenger conductor
- e) Conductor Resistance test
- f) Test for thickness of insulation
- g) Tensile strength and elongation at break test
- h) Hot set test (for XLPE insulation)
- i) High voltage test.

(10) PACKING MARKING

10.1. The cable shall be wound in non-returnable drums conforming to IS-10418/1982 "Specification for Reels and Drums for bare wire" of the latest version thereof.

The drums shall be marked with the following.

- a) Manufactures name
- b) Trade mark if any
- c) Drum number
- d) Size of Conductor
- e) Size of Messenger

- f) Voltage grade
- g) Number of lengths of pieces of Cable in each drum
- h) Gross mass of the packing
- i) Net mass of Cable
- j) ISI mark.

10.2. The drums shall be of such a construction as to assure delivery of conductor in field free from displacement and damage and should be able to withstand all stresses due to handling and the stringing operation so that cable surface not denied, scratched or damaged in any way during transport and erection. The cable shall be properly lugged on the drums.

10.3. The cable drums should be suitable for wheel mounting.

10.4. The mass of finished cable in drums (without mass of various designations shall not exceed by 500 Kg.)

10.5. Standard Length:

The standard length not less than 50% of the standard length shall be accepted to extend of 10% of the ordered quantity.

Non-standard length:

Non-standard length no less than 50% of the standard length shall be accepted to extend of 10% of the ordered quality.

(11) INSPECTION:

All tests and inspections shall be made at the place of manufacturer unless otherwise especially agree upon by the manufacturer and purchaser at the time of purchase. The manufacturer shall afford the inspector representing the purchaser all reasonable facilities without charge to satisfy him that the material is being furnished in accordance with this inspection.

(12) EXPERIENCE:

The tendered must have some experience of manufacturer and supply of this cable to any Electricity Board/ DISCOMS. Copy of order executed and performance report may be submitted along with other.

(13) TYPE TEST CERTIFICATES

The duly attested copy of Type Test Certificate not more than five years old as per IS 14255-1995 with latest Amendment if any, be summated from any Govt. approved laboratory along with offer otherwise such offer shall not be technically accepted (i.e. failing to submit type test report such offer would be ignored/ rejected)

(14) SUBMISSION OF ISI LICENSE FOR IS 14255-1995

The tenderers are required to submit duly attested photo copy of the valid ISI License up to the date of delivery for supply of these AB cables / wires along with tender and they should submit GTP along with the tender failing which, the offer would be ignored.

(15) IMPORTANT

In absence of valid ISI License/ GRP duly filled in and copy of type test certificate of Govt. approved laboratory, duly attested by authorized person, offer will be liable to be ignored without any further correspondence.

(16) ISI MARKING :

The material supplied shall be conforming to Indian Standard Specification and also with ISI marking as applicable and even after inspection of the lot, if the materials received at site is found without ISI marking, the lot shall be rejected and no further correspondence shall be entertained in this regard.

GURANTED TECHNICAL PARTICULARS (G.T.P)

Technical information and Guaranteed Technical Particulars for supply of 1 Core 35 mm² + 25 mm² messenger wire XLPE insulated Aerial Bunch Cable/

PART – A

Bidders have to confirm following important requirements:

Sl.No.	Particulars	Confirmation
1	AB Cable shall be manufactured and supplied confirming to IS:14255.1995 with latest Amendment if any	yes
2	Cable drums/ label shall bear ISI mark	yes
3	ISI License shall remain valid till order is completed	yes
4	Colour of XLPE Insulation – Black Size: 1 Core 35 mm ² + 25 mm ²	yes
5	Shape – Compacted	yes
6	Standard length in case 500 mtr± 5% tol. Longer length acceptable	yes

7	Non-Standard length 50% of Std. Length up to 10% of ordered quantity.	yes
8	Packing shall contain only one length	yes
9	Packing material: For 1 Core x 35 mm ² +25 mm ² – Wooden drums as per IS: 10418/1982 duly painted.	yes
10	Following shall be embossed on cable and marking on drum shall be as IS:14255/1995	yes
10a	Purchaser	yes
10b	IS:14255/1995	yes
10c	Year of manufacture	yes
10d	Trader Mark/ Brand	yes
11	Conductor –	yes
11a	For Phase 35 mm ² Aluminium as per IS:8130/1984	yes
11b	For Messenger wire 25 mm ² Aluminium Alloy as per IS 386/PLIV/1994	yes
12	Maximum Conductor resistance at 20 ⁰ C Phase Conductor – 0.068 Ohm/Km.	yes
13	Thickness of insulation for AB Cable size of 1C x 35+25mm ² – 1.2 mm	yes
14	Volume resistivity of insulation At 27 ⁰ C – 1 x 10 ¹³ Ohm-cm. Min	yes
14a	AT 270C – 1 x 10 ¹¹ Ohm-cm. Min	yes
15	Tensile strength of Insulation and sheath – 12.5 N/mm ² Min.	yes
16	Elongation at break of Insulation and Sheath – 200% Min.	yes

PART - B

Bidders have to furnish below details about material for information

Sl.No.	Particulars				Confirmation
1	ISI License for IS:14255/ 1995				yes
2	Make/Brand of the Cable:				
3a	Number				
3b	Date of expiry				
4a	Approximate weight of 1000 METRES length (Weights in Kgs.)				
4b	I C x 35 + 25 mm ²	Alum.	Alu. XLPE	Alloy	Total
5	Cable Conductor, Circular Compacted?				yes

Sub-Section-5

Price Schedule

PRICE SCHEDULE FORMAT

SCHEDULE OF QUANTITY & PRICE

ERECTION & COMMISSIONING OF

(Firms shall quote the unit rate of all the items and total rates including all taxes and duties)

Sl. No.	Description of works.	Unit	Quantity	Unit Supply Rate. (Rs.)	Amount (Rs.)	Unit Erection Rate (Rs.)	Amount (Rs)	Total (Rs)
			1	2	3=(1x2)	4	5=(4x1)	6=(3+5)
1.								
	TOTAL (RS.)							

Rupees in words.....

Please refer Section-III, Bid proposal sheets enclosed with this tender specification. Bidders are required to enter their item wise rates in individual sheet of the respective packages of the Bid for which he wants to submit.

Bidders will be permitted to only enter the item wise rates. No other modification shall be permitted. Bidders are required to sign each and every page and enclose the same in the Price Bid three envelopes for Bid-1 separately in Sealed Condition. One soft copy in CD shall also be submitted in the Price Bid.

(Signature of the Bidders)

Note :

- i. Unit rate is inclusive of all taxes and duties.
- ii. Any discrepancy in unit rate and amount, unit rate stands.
- iii. Any column left blank shall be treated as nil/inclusive of.



Annexure-A

PROJECT DIRECTOR, DRDA, Malkangiri District PRICE BID

Bid-1: (PART-A)								
Price Schedule for execution of LED lighting System with all its accessories in different villages in GPs under Malkangiri District, Govt. of Odisha on Total Turn Key basis.								
Sl.No	Particulars	Unit	Qty.	Supply		Erection		Total Amount (Rs.)
				Unit Rate (Rs.)	Total Rate (Rs.)	Unit Rate (Rs.)	Total Rate (Rs.)	
A	Supply and Erection of LED street light fixtures over existing pole / 8 Mtr PSC Pole along (Name of the location/village) with 80Watt LED Street lighting: -..... KM							
1	Supply and Erection of 8mtr long PSC Pole (max distance 30 Mtr) with concrete base plate	No						
2	Supply and erection of LT XLPE AB Cable (1x35+1x16mm ²), Make:.....	Mtr						
3	Supply and Erection of LED street light fixture (Lumen output >7100 or 80W max.) ,System efficacy -100 lumen /watt (New) Make:.....	No						
4	Supply and Erection of LED street light fixture (Lumen output >7100 or 80W max.) ,System efficacy -100 lumen /watt (in case of replacement), Make:	No						
5	Supply and Erection of LT stay set with all accessories	Set						
6	Single arm GI bracket with clamp and all accessories for the street light with AB connector (for street light)	Set						
7	Supply of 2C X 6 SQ MM, PVC Cable suitable for voltage level 1.1kV confirming to IS 7098 for pole wiring , Make:.....	Mtr.						
8	Supply & Installation of Photo Switch with timer and control circuit fitted in TP Box	No						
Total Price in Rs.								

Total Price : Rs.....

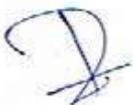
[In figures: Rupees..... only]

(Units Rates quoted are inclusive of freight & insurance, all taxes & duties and other levies, if any)

Additional information: (to be filled up by the bidder and to be submitted along with the format in Section-III, i.e. Price bid)

Place/Date:

Signature of the Tenderer with Company Seal



Bidders will be permitted to only enter the item wise rates. No other modification shall be permitted. Bidders are required to sign each and every page and enclose the same in the Price Bid in three envelopes for Bid-1. One soft copy in CD shall also be submitted in the Price Bid.

Note:

- i. Unit rate is inclusive of all taxes and duties.
- ii. Any discrepancy in unit rate and amount, unit rate stands.
- iii. Any column left blank shall be treated as nil/ inclusive of.

(This form should be duly filled up by the tenderer & submitted in duplicate in separate envelopes super-scribing "**PART -III PRICE BID**" signed and sealed in each page.)



Annexure-B

JOINT MEASUREMENT CERTIFICATE

Date of verification:

Name of the Work: Turn Key Execution of LED Street Lighting System in
.....village underG.Ps in Malkangiri District,
Govt. of Odisha.

Work Order No:..... **Date:**.....

Sl No	Name of the GP/ village	Particulars of the Items	Unit	Qty as per the Scope in W.O	Qty executed	Remarks
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						

Signature of the Contractor

Signature of the inspecting Officers with

