



CHHATTISGARH STATE RENEWABLE ENERGY DEVELOPMENT AGENCY (CREDA)

(Dept. of Energy, Govt. of Chhattisgarh)

Energy Education Park, Rajnandgaon

Gaurav Path, Rajnandgaon (C.G.)

Ph.: 07744-223250

E-mail: credaraj@gmail.com, Website: www.creda.in

TENDER DOCUMENT NO. XXXXX/CREDA/SPV-PDN/Tender-1788/02.08.18/2018-19

**STANDARDIZATION OF RATES FOR PDN FOR STREET LIGHTING THROUGH
SOLAR POWER PLANT ON TURNKEY BASIS AT POLICE THANA -CHILHATI
BLOCK-CHOUKI OF DIST.- RAJNANDGAON OF CHHATTISGARH STATE**

Important Events and their schedule for this tender are as follows-

S. N.	Particulars	Date	Time	Place
1	Submission of Tender Document, Technical Bid, and Price Bid	13.08.18	Till 01.00 PM	In the Office of Executive Engineer, Regional Office CREDA Rajnandgaon.
2	Examination of Technical Bid	13.08.18	from 2.30 PM	
3	Opening of Price Bid	13.08.18	After Technical Bid	

Tender Document Cost- Rs 500.00

Document can also be downloaded from our website **www.creda.in** with the cost of tender as mentioned in NIT, which shall have to be deposited along with the tender document.

CONTENTS

No.	<u>Description</u>
<u>PART - I : TECHNICAL BID</u>	
1.	Notice Inviting Tender
2.	Check List
3.	Undertaking of the tenderer
4.	Instruction for tenderer
5.	General condition of contract
6.	Scope of work
7.	Technical Specifications
<u>PART - II : FINANCIAL BID</u>	
1.	Schedule of Rates –



CHHATTISGARH STATE RENEWABLE ENERGY DEVELOPMENT AGENCY

(CREDA)

(Dept. of Energy, Govt. of Chhattisgarh)

Energy Education Park, Rajnandgaon, Gaurav Path, Rajnandgaon (C.G.)

E-mail: credaraj@gmail.com, Website: www.creda.in

N o. 1788 /CREDA/SPV-PDN/Tender/2018-19

Date: 02/08/2018

NOTICE INVITING TENDER

CREDA invites sealed tenders from experienced and registered PDN Suppliers/PDN Contractors of CREDA for standardization of Rates for PDN for Street lighting through Solar Power Plant on turn-key basis at Police Thana -Chilhati, Block- Chouki of District Rajnandgaon as per following details-

S N	Particulars of Work	Estimated Cost (in lakhs)	Qty.	Cost of Tender Document	EMD
01	PDN for Street lighting through Solar Power Plant on turn-key basis at Police Thana-Chilhati, Block- Chouki of District Rajnandgaon	2.38	01	500/-	5000/-

Eligibility for Tenderer:-

1. Tendered should be Registered PDN Supplier/PDN contractors of CREDA in SPV Programme for the FY 2018-19.
2. For other details pl see eligibility conditions of the tender documents.

Important Events and their schedule for this tender are as follows-

S.No	Particulars	Date	Time	Place
1	Submission of Tender Document, Technical Bid, and Price Bid	13.08.18	Till 01.00 PM	In the Office of Executive Engineer, Regional Office CREDA Rajnandgaon.
2	Examination of Technical Bid	13.08.18	from 2.30 PM	
3	Opening of Price Bid	13.08.18	After Technical Bid	

Details of this tenders are mentioned at Tender Documents which can be downloaded from our website www.creda.in The tenderer should have to deposit tender document cost, along with EMD as mentioned above through demand draft payable to "CREDA Rajnandgaon " while submitting tender .

CREDA reserves all rights to accept/reject any or all tenders in full/part without assigning any reasons.

**Executive Engineer
R.O. Rajnandgaon**

CHECK LIST

To ensure that your tender submitted to CREDA is complete in all respects, please go through the following checklist & tick mark for the enclosures attached with your tender:

S.No.	Description	Attached / Not Attached	Page no. if attached
1	EMD (proof of submission)		
2	Tender Document Fee (proof of submission)		
3	Copy of Electrical Contractor/Supplier Registration Certificate CREDA in SPV Programme for FY 2018-19		
4	Balance Sheets of last three financial years certified by a registered Chartered Accountant showing positive net worth and minimum average annual turnover of 1.5 times the cumulative package cost in which bidder is participating.		
5	List and Completion and Performance Certificates of PDN Projects done / installed by the Bidder in Govt. Scheme of CREDA		
6	Original Tender document duly signed & sealed on each page, as a confirmation of acceptance of Terms & Conditions (T&C)		
7	Declaration of the supplier about any relatives working with CREDA.		

(Sign & Seal of the Tenderer)

Details of EMD & Tender Document Fee Attached

S.No.	Description
1	Earnest Money Deposit - Earnest Money Deposit of Rs. 5000/-, submitted in the form of Demand Draft/Banker's Cheque, drawn on Bank,Branch, bearing DD/BC No..... dated.....is attached herewith.
2	Tender Document Fee - Tender Document Fee of Rs. 500.00 /-, submitted in the form of Demand Draft/Banker's Cheque, drawn on Bank,Branch, bearing DD/BC No..... dated.....is attached herewith.

(Sign & Seal of the Tenderer)

UNDERTAKING OF THE TENDERER

I/We have read carefully and examined the notice inviting tender, schedule, General Rules and terms and conditions of the contract, special conditions, Schedule of Rates and other documents and Rules referred to in the tender document for the supply.

I/We hereby tender my rates for the execution of the work for CREDA as specified within the time stipulated in the schedule in accordance with all aspects with the specifications, designs, drawings and instructions with such conditions so far as applicable.

I/We agree to keep the tender open for Ninety (90) days from the due date of submission thereof and not to make any modifications in its terms and conditions.

A sum of Rs 5000/- is hereby forwarded as earnest money in the form of crossed demand draft payable to CREDA at Rajnandgaon(C.G.). If I/We, fail to commence or complete the sanction ordered in specified time I/We agree that the CREDA shall, without prejudice to any other right or remedy, be at liberty to forfeit the said Earnest Money absolutely. The said Earnest Money shall be retained by CREDA towards security deposit to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to therein and to carry out such deviations as may be required by CREDA.

I/We hereby declare that I/We shall treat the tender documents, specifications and other records connected with the work as secret/confidential and shall not communicate information derived there- from to any person other than a person to whom I/We have authorized to communicate the same or use the information in any manner prejudicial to the safety of CREDA/Government.

I/We shall abide to all the laws and shall be responsible for making payments of all the taxes, duties, levies and other Govt. dues etc. to the appropriate Govt. departments.

Our state sales tax registration TIN No. is _____ and CST registration No. _____ . The PAN No. under the Income Tax Act is _____

I/We shall be responsible for the payment of the respective taxes to the appropriate authorities and should I/we fail to do so, I/we hereby authorize CREDA to recover the taxes due from us and deposit the same with the appropriate authorities on their demand.

Dated:

Signature

Place:

Name of Tenderer with seal

Witness

Signature:

Name:

Postal Address:

INSTRUCTIONS FOR TENDERERS

1. Eligibility Criteria:

- A. Tendered should be registered in CREDA as a PDN Suppliers/PDN Contractors in SPV Programme for the financial year 2018-19 on the date of opening of this Bid.
- B. Tendered should have minimum direct experience of experience of Supply and Laying of Power Distribution Network under RVE, DDG or any other SPV Street lighting projects . Experience certificate issued by Govt/ Govt Undertaking shall only be considered.
- C. Tendered must have a minimum positive net worth during last three years i.e. in each year i.e. 2015-16, 2016-17, 2017-18. Bidder coming into existence after 2015-16 or 2016-17 must have a positive net worth from year in which they came in existence till FY 2017-18.
- D. Tendered should have a minimum average annual turnover of 1.5 times the cumulative package cost in which bidder is participating.
- E. Bidder will have to submit audited copy of balance sheet certified by a registered chartered accountant as a proof for point no. 1.C and 1.D.
- F. Tendered will have to submit a copy of engineering document including system and foundation duly certified by a qualified structural engineer of the tendered system for its safety and stability against a wind speed of minimum 150 KMPH which they want to bid.
- G. The Bidder should have valid GST registration certificate in the state. A copy of which should be enclosed
- H. Tenderes must have their office and service centre in Chhattisgarh State.
- I. Authorization of person representing Tenderer from Director / Proprietor / Partner of the Firm/ Company of the tenderer.

Important Events and their schedule for this tender are as follows-

S.N.	Particulars	Date	Time	Place
1	Submission of Tender Document, Technical Bid, and Price Bid	13.08.18	Till 01.00 PM	In the Office of Executive Engineer, Regional Office CREDA Rajnandgaon.
2	Examination of Technical Bid	13.08.18	from 2.30 PM	
3	Opening of Price Bid	13.08.18	After Technical Bid	

2. Tender Documents must reach in the Regional Office, CREDA Rajnandgaon latest by 1:00 PM on 01-08-18. Tenders submitted after scheduled time and date shall not be considered.
3. Tender Documents should be submitted in prescribed manner in separate envelopes duly super scribed and placed as follows- (A) Tender Fees and EMD , (B) Eligibility Documents as per point 1(A) to 1(I) mentioned above (C) Technical Bid and Complete tender document in original duly signed by authorized signatory on each & every page of the tender document. (D) Price Bid.
4. The envelopes must be clearly marked as “(A)Tender Fees and EMD /(B) Eligibility Documents / (C) Technical Bid and Complete tender document in original / (D) Price Bid. **Of “TENDER NO. XXXX/ CREDA/SPV-PDN/2018 DT XXXXX DUE ON 13.08.18 ”**
5. The Specifications of PDN Materials/Electrical Materials should be as specified in the tender

in schedule attached.

6. Bidder shall have to submit details of GST registration number, PAN registration numbers issued by the appropriate authority.
7. The documentary evidence for meeting the eligibility criteria must mandatorily be submitted along as per check list with tender in prescribed manner.
8. Tendered must enclose the safety procedure & manual.
9. When Price Bid are delivered through messenger, it should be submitted in the tender box kept in the office of the Executive Engineer CREDA, R.O. Rajnandgaon on or before 1:30 PM dated 01-08-2018 Nobody is authorized to receive or grant receipt for tender delivered on behalf of CREDA.
10. Tendered should quote their rates considering variation of site conditions, variation in price of different components and keeping the quantum and quality of work in mind. If CREDA anticipates that rate is abnormally low or high, CREDA shall have liberty to amend the rates or reject the tender.
11. **VALIDITY:** Full descriptive particulars and complete specifications should accompany the offer. Offers should be kept open for acceptance for at least three months from the date of opening. After finalization of this tender the approved rates shall be valid till one year from the date of award; however CREDA shall have liberty to increase or decrease this validity if needed.
12. The terms, conditions and specifications mentioned in tender document shall be binding on the tenderers and no condition or stipulation contrary to the conditions shall be acceptable. It may please be noted that the tenderers who do not accept terms and conditions stipulated in this tender documents, their offers shall be liable to be rejected out-rightly without assigning any further reasons.
13. Each page of tender document & enclosures shall be signed by the tenderer and seal affixed. All the pages of the documents issued must be submitted along with the offer. In case of any corrections / alterations in the tender, the tenderer should attest the same; otherwise tenders may not be considered.
14. Tenderers are also instructed to submit their tenders in properly arranged manner (with index , proper paging and with flags on important documents). Incomplete, lose, conditional or improper arranged tenders will not be accepted.
16. CREDA reserves the right (i) to reject or accept any or all tenders wholly or partly without assigning any reason on the grounds considered advantageous to CREDA, whether it is the lowest tender or not obtained in this tender.
17. Offers through Telegraph/ Fax/Emails or open offers etc. received shall be summarily rejected.
18. All the tenderers shall essentially indicate the break-up of prices as shown in Price Bid. In case any of the charges are not included in the quoted prices, the same shall be clearly shown as extra, indicating specifically the rate/scale of such charges. The lowest prices quoted shall be considered.

19. TENDER DOCUMENT FEE AND EARNEST MONEY:

Each tenderer should submit Tender Document Fee and earnest money in the form of Demand Draft/Pay Order or RTGS/NEFT as mentioned in the NIT vide no XXXX/CREDA/SPV-PDN/Tender/2018 Date: 01-08-2018, in a separate envelope as prescribed at point no. 2 of page 6 else they will summarily be rejected and returned. Tender Document Fee, EMD submitted in any other form e.g. Cash/Bank Guarantee/ FDR/TDR etc shall not be accepted. [Exemption from EMD shall be given only to those companies who submit the competency certificate on which it should be clearly mentioned that, "the company registered in Chhattisgarh for manufacturing of that particular product"]

20. FORFEITURE OF EARNEST MONEY DEPOSIT:

It should be clearly understood that in the event of tendered failing to enter into the agreement in the prescribed format on their quoted rates and also fails to execute assigned works within stipulations, if he is so communicated within the validity period of the offer, the full amount of earnest money shall be forfeited and tendered will be debarred from future business with CREDA. CREDA's decision in this respect will be final and binding on the tenderer.

21. PRICE:

The prices quoted should be firm and F.O.R. destination including all taxes including VAT & CST and all duties, packing, forwarding freight, insurance and any other incidental charges. (VAT is exempted for solar items in the state of Chhattisgarh). Eligible tenderer will have to submit break up of costs and taxes before execution of agreement with CREDA so as to ensure tax deposition as per Govt Rules accordingly. Pl note that "C" Forms/ Any Road Permit shall not be issued by CREDA.

22. ENGINEERING DOCUMENT:

Tendered will have to submit Engineering Documents with technical details, drawings, Specifications & Test Reports of components and make duly certified by a qualified structural engineer of the tendered system for its safety and stability against a wind speed of minimum 150 KMPH for approval. Works may only be started out only after approval of the Engineering Document.

23. SAMPLES:

If Require CREDA may inspect the consignment before dispatch of the material at shall be delivered/ accepted as per the scope of work and specifications, as get it tested in accreted laboratory at its own cost.

24. TAX OBLIGATIONS:

TDS for Income Tax, Service Tax, Commercial Tax (GST), of Civil Work etc shall be recovered under various acts and deposited with the appropriate authority. Eligible tendered will have to submit break up of costs and taxes before execution of agreement with CREDA so as to ensure tax deposition as per Govt. Rules accordingly.

25. JURISDICTION OF THE COURT: Any dispute arising out of the contract shall be subject to the jurisdiction of District Court of Rajnandgaon

GENERAL CONDITIONS OF CONTRACT

1. **DEFINITIONS:** In writing General Conditions of Contract, the specifications and bill of quantity, the following words shall have the meanings hereby indicated, unless there is something in the subject matter or content inconsistent with the subject.

CREDA shall mean the Chhattisgarh State Renewable Energy Development Agency represented through the CEO.

Work shall mean any work entrusted to the tenderer as mentioned in the scope of work and sanction order.

The "Engineer in charge" shall mean the Engineer or Engineers authorized by CEO, CREDA for the purpose of this contract. Inspecting Authority shall mean any Engineering person or personnel authorized by CREDA to supervise and inspect the Street lighting Work.

"The PDN Supplier/PDN Contractor/Tenderer" shall mean the tenderer awarded with the contract or their successors and permitted assigns. Contract Price shall mean the sum named in or calculated in accordance with the provisions of the contract as the contract price. General Conditions shall mean the General conditions of Contract.

"Specifications" shall mean the specifications annexed to these General Conditions of contract and shall include the schedules and drawings attached thereto or issued to the PDN Supplier/PDN Contractor from time to time, as well as all samples and pattern, if any,

"Month" shall mean calendar month. "Writing" shall include any manuscript, typewritten, printed or other statement reproduced in any visible form whether under seal or written by hand.

2. **CONTRACT DOCUMENT:**

The term "Contract" shall mean and include the General conditions, specifications, schedules, drawings, work orders etc., issued against the contract schedule of price or their final general conditions, any special conditions applying to the particular contract specification and drawings and agreement to be entered into. Terms and conditions not herein defined shall have the same meaning as are assigned to them in the Indian contract Act or any other Act in vogue or by any person of common knowledge and prudence.

3. **MANNER OF EXECUTION:**

Execution of work shall be carried out in an approved manner as outlined in the technical specifications or where not outlined, in accordance with desired Specifications laid down by CREDA, to the reasonable satisfaction of the Engineer.

- i) The eligible tenderer shall conduct a detailed survey of site and submit Site Clearance and necessary documents and survey details in concerned District Office of CREDA in prescribed manner.
- ii) District Office CREDA shall examine these reports and after satisfaction forward these to Executive Engineer of CREDA R.O. Rajnandgaon for approval.
- iii) The Contractor shall start work within 15 days after the date of issue of work Order. Work order will be given to the chosen System Integrator only after execution of the agreement with CREDA.

- iv) All the materials required for the installation PDN as per Work Order issued shall be kept at site in the custody of the Contractor. CREDA shall not be responsible for any loss or damage of any material during the installation.
- v) All the electrical works should be done as per Indian electricity Act. The persons engaged for carrying out electrical works should have a valid license of required category accordingly.
- vi) After installation and joint inspection will be done in presence of beneficiary, Contractor and CREDA and after successful commissioning of Street lighting work and its approval from CREDA a JCC will be signed and the claim will be forwarded for payments as per guidelines and procedures of CREDA.

4. VARIATIONS, ADDITIONS & OMISSIONS:

CREDA shall have the right to alter, amend, omit, split or otherwise vary the quantum of work, by notice in writing to the SI. The PDN Supplier/PDN Contractor shall carry out such variation in accordance with the rates specified in the contract so far as they may apply and where such rates are not available; those will be mutually agreed between CREDA and the PDN Supplier/PDN Contractor.

5. INSPECTION DURING ERECTION:

The Engineer in Charge or his authorized representative (s) shall be entitled at all reasonable times to inspect and supervise and test during installation and commissioning. Such inspection will not relieve the PDN Supplier/PDN Contractor from their obligations under this contract. Material can be inspected before dispatch by the authorized representatives of CREDA at the factory at the cost of the PDN Supplier/PDN Contractor, if desired by CREDA.

6. COMPLETION OF WORK:

Time being the essence of contract, the installation of the PDN shall be completed within the time schedule prescribed in the Work order.

7. ELIGIBLE Contactor DEFAULT LIABILITY:

CREDA may by written notice of default to the PDN Supplier/PDN Contractor, terminate the contract in circumstances detailed hereunder:

- (a) If in the opinion of the CREDA, the eligible Contactor fails to complete the work within the time specified in the Work Order or within the period for which extension has been granted by CREDA to the PDN Supplier/PDN Contractor.
- (b) If in the opinion of CREDA, the eligible Contactor fails to comply with any of the provisions of this contract.
- (c) In the event of CREDA terminating the contract in whole or in part as provided in paragraph (a) above, CREDA reserves the right to engage another eligible Contactor or agency upon such terms and in such a manner as it may deem appropriate and the PDN Supplier/PDN Contractor shall be liable to CREDA for any additional costs or any losses caused to CREDA as may be required for the completion of erection of the Street lighting work and or for penalty as defined under this tender document until such reasonable time as may be required for the final completion of the work.
- (d) In the event CREDA does not terminate the contract as provided in paragraph (a) the PDN Supplier/PDN Contractor shall continue performance of the contract, in which case he shall be liable to CREDA for penalty for delay as set out in this tender document until the work is completed.

8. FORCE MAJEURE:

The PDN Supplier/PDN 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 public, enemy, naxal problems, acts of government, cyclone, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes provided that the contract, shall within 10 (ten) days from the beginning of such delay notice the CREDA in writing of the cause of delay. CREDA shall verify the facts and grant such extension as facts justify. Delay in supply of any accessories of Solar Street lighting work etc by the related vendors, to whom the tenderer has placed order, shall also not be treated as force majeure.

9. REJECTION OF WORKS:

In the event of any of the material supplied/ work done by the PDN Supplier/PDN Contractor is found defective in material or workmanship or otherwise not in conformity with the requirements of this contract specifications, CREDA shall either reject the material and/ or work and advise the PDN Supplier/PDN Contractor to rectify the same. The PDN Supplier/PDN Contractor on receipt of such notices shall rectify or replace the defective material and rectify the work, free of cost. If the PDN Supplier/PDN Contractor fails to do so, CREDA may,

- i At its option replace or rectify such defective materials and/ or work and recover the extra cost so involved from the PDN Supplier/PDN Contractor plus fifteen percent service charges of the cost of such rectification, from the PDN Supplier/PDN Contractor and/ or terminate the contract for balance work/ supplies with enforcement of penalty as per contract
- ii Defective materials/ workmanship will not be accepted under any conditions and shall be rejected outright without compensation. The PDN Supplier/PDN Contractor shall be liable for any loss/ damage sustained by CREDA due to defective work.

10. EXTENSION OF THE TIME:

If the completion of installation is delayed due to any reason beyond the control of the PDN Supplier/PDN Contractor, the PDN Supplier/PDN Contractor shall without delay give notice to the CREDA in writing of his claim for an extension of time. CREDA on receipt of such notice may agree to extend the contract/delivery date of the Solar System as may be reasonable but without prejudice to other terms and conditions of the contract.

11. MAKES OF EQUIPMENTS TO BE USED IN THE WORK:

The PDN Supplier/PDN Contractor has to ensure that equipments as per Technical Requirements of guidelines of CREDA as complied with. The PDN Supplier/PDN Contractor has also to ensure that he will use only components of approved vendors of CREDA. The material/works for which CREDA/MNRE or BSI or ISI specification is not available, engineer-in-charge of the works will examine and approve the material/works, preferably of all makes on which CREDA has report of satisfactory performance. Test certificates for all major equipments should be submitted to the engineer-in-charge of the works before installation of the same.

12. WARRANTEE PERIOD AND POST INSTALLATION SERVICES:

The work done/ material supplied by the PDN Supplier/PDN Contractor should be warranted for satisfactory operation and against any defect in material and workmanship including Luminaries, Controllers and other balance of equipments, at least for a period of 5(five) years, from the date of commissioning of the SPV Street lighting work including other works as per scope of work. Warrantee on SPV Modules shall be for 10 (ten) years from the date of commissioning of the SPV Street lighting work must be warranted for their output peak watt capacity, which should not be less than 90% at the end of 10 years and not less than 80% at the end of 25 years. The above warrantee certificates shall be furnished to the CREDA for approval. Any defect noticed during this period should be rectified by the supplier free of cost upon written notice from CREDA provided such defects may be due to bad workmanship or bad materials used. The warrantee period shall be extended by the period during which the plant remains non-operative due to reasons within control of the PDN Supplier/PDN Contractors. This warrantee must be an unconditional onsite warrantee and the PDN Supplier/PDN Contractor will have to replace the defective material within 7days positively from the date of information given to him. Care should necessarily be taken to make the Street lighting operational, once the reporting of the fault/non operational status is done, within a week. If the Street lighting work is not made operational within 7 days CREDA may rectify the same at the cost of CONTRACTOR, and the warrantee period shall be extended for a month for the same. This warrantee must be an unconditional onsite warrantee and the PDN Supplier/PDN Contractor will have to replace the defective material within 7 days positively from the date of information given to him.

System Integrators shall have to establish their service stations in the allocated area and shall have to keep sufficient quantity of spares and man power to ensure proper service network for taking care of smooth functioning of SPV Street lighting work installed by them. Contractor shall have to give a toll free number to register complaints.

13. TERMS OF PAYMENT:

The following terms of payment shall apply for the tender: -

- a) 90% of the cost as per the work order after satisfactory supply, installation, commissioning & performance test of the SPV Street lighting work at site with proper handing over.
- b) Balance 10% of the cost shall be retained by CREDA as Security Deposit for a period of two years. However the same may be released to CONTRACTOR on submission of bank guarantee or TDR (duly pledged in favor of CREDA) of equivalent amount in prescribed format valid for a period of five years, issued by any scheduled bank.

14. PENALTY FOR DELAY IN COMPLETION OF CONTRACT:

If the PDN Supplier/PDN Contractor fails to complete the erection, testing and commissioning etc, within the phased time schedule specified in the work order or any extension granted there to, CREDA will recover from the PDN Supplier/PDN Contractor as penalty a sum of one percent (1.0%) of the system price of the uncompleted portion of the work for each calendar month of delay or part thereof. For this purpose, the date of taking over shall be reckoned as the date of completion. The total penalty shall not exceed 5% (five percent) of the Cost.

15. SECURITY DEPOSIT (SD):

The Earnest Money shall be retained by CREDA towards security deposit after agreement is done to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to therein and to carry out such deviations as may be required by CREDA.

16. **INSURANCE:**

The PDN Supplier/PDN Contractor shall arrange insurance coverage for the materials and SPV Street lighting work at his/beneficiary's custody for the work under execution and successful commissioning and subsequent handover to the beneficiary. The PDN Supplier/PDN Contractor shall take up insurance or such other measures for the manpower so as to cover the claim for damage arising under workmen's compensation Act and other applicable State/ Central laws. CREDA shall not bear any responsibility on this account.

17. **PENALTY DUE FROM THE PDN SUPPLIER/PDN CONTRACTOR:**

All costs of damages for which the PDN Supplier/PDN Contractor is liable to the CREDA will be deducted from any money due to the PDN Supplier/PDN Contractor including the security deposit.

18. **PDN SUPPLIER/PDN CONTRACTOR'S RESPONSIBILITY:**

Notwithstanding anything mentioned in the specifications of subsequent approval or acceptance of the SPV Street lighting work by CREDA, if any, the ultimate responsibility for satisfactory performance of the entrusted work shall rest with the PDN Supplier/PDN Contractor. If in any case the PDN Supplier/PDN Contractor does not complete the work as per the Work orders issued to them then CREDA may take over the task & complete the project at the cost of PDN Supplier/PDN Contractor.

19. **RESPONSIBILITY TO RECTIFY THE LOSS AND DAMAGE:**

If any loss or damage occurs to the work or any part thereof or materials/ plant/ equipments for incorporation therein the period for which the PDN Supplier/PDN Contractor is responsible for the cause thereof or from any cause whatsoever, the PDN Supplier/PDN Contractor shall at his own cost rectify/ replace such loss or damage, so that the permanent work confirms in every respect with the provision of the contract to the satisfaction of the Engineer. The PDN Supplier/PDN Contractor shall also be liable for any loss or damage to the work/ equipments occasioned by him in course of any operation carried out to him during performing the contract.

20. **RESPONSIBILITY TOWARDS THE WORKMAN OR OUTSIDERS:**

The PDN Supplier/PDN Contractor shall have to take insurance coverage from any authorized Insurance Company against Workmen compensation due under Workmen Compensation Act and submit copy of the insurance document before issuance of Sanction order. The PDN Supplier/PDN Contractor shall ensure all safety measures during execution and repairs of the work. CREDA, will, in no case be responsible for any accident fatal or non-fatal, caused to any workman or outsider in course of transport or execution or repairs of work. All the expenditure including treatment or compensation will be entirely borne by the PDN Supplier/PDN Contractors. The PDN Supplier/PDN Contractor shall also be responsible for any claims of the workers including PF, Gratuity, ESI & other legal obligations.

21. **NON-ASSIGNMENTS:**

The PDN Supplier/PDN Contractor shall not assign or transfer the work orders issued as per this contract or any part thereof without the prior approval of CREDA.

22. CERTIFICATES NOT TO AFFECT RIGHTS OF CREDA:

The issuance of any certificate by CREDA or any extension of time granted by CREDA shall not prejudice the rights of CREDA in terms of the contract nor shall they relieve the PDN Supplier/PDN Contractor of his obligations for due performance of the contract.

23. SETTLEMENT OF DISPUTES THROUGH ARBITRATION:

- i. Except as otherwise specifically provided in the contract, all disputes concerning questions of fact arising under the contract shall be decided by the Chief Executive Officer (CEO), CREDA provided a written appeal by the PDN Supplier/PDN Contractor is made to CREDA. The decision of the CEO, CREDA shall be final and binding to the all concerns.
- ii. Any dispute or difference including those considered as such by only of the parties arising out of or in connection with the contract shall be to the extent possible be settled amicably between the parties. If amicable settlement cannot be reached then all disputed issues shall be settled by arbitration.

24. LAWS GOVERNING CONTRACT:

The contract shall be constituted according to and subject to the Laws of India and jurisdiction of the High Court of Bilaspur, Chhattisgarh.

25. Compliance with Labour Regulations-

During continuance of contract, the contractor shall abide at all times by all applicable existing labour enactment and rules made there under, regulations, notifications and bye laws of state and central Govt or local authority that may be passed/issued or may be issued.

26. LANGUAGE AND MEASURES:

All documents pertaining to the Contract including specifications, schedules, notice correspondences, operating and maintenance instructions, drawings or any other writings shall be written in English / Hindi language. The metric system of measurement shall be used in this contract.

27. CORRESPONDENCE:

- i. Any notice to the PDN Supplier/PDN Contractor under the terms of the contract shall be served by registered mail to the registered office of the PDN Supplier/PDN Contractor or by hand to the authorized local representative of the PDN Supplier/PDN Contractor and copy by post to the PDN Supplier/PDN Contractor's principal place of business.
- ii. Any notice to CREDA shall be served to the CEO, CREDA, Raipur in the same manner.

27. SECRECY:

The PDN Supplier/PDN Contractor shall treat the details of the specifications and other documents as private and confidential and they shall not be reproduced without written authorization from CREDA.

28 AGREEMENT:

The successful PDN Supplier/PDN Contractor shall have to enter into an agreement with the CEO, CREDA in the approved contract agreement form within 07 days of the receipt of call from CREDA.

29 TENDER EVALUATION CRITERIA :

- a) Offer of only those parties who are found qualifying based on Technical Evaluation Criteria will be taken into further consideration and prices of only those parties qualifying based of these criterion will be opened. If a bidder is not having sufficient MAAT(Minimum Annual Average Turnover), then he would be given choice to withdraw from one or more packages before opening of price bid.
- b) CREDA retains right to negotiate rates or other terms with L-1 of each package.
- c) Conditional tenders shall not be accepted.

30. ALLOCATION OF TARGETS AND AREA OF WORK

The allocation of district wise quantities shall be done at approved rates to eligible bidders who has quoted lowest rates for that package.

If more than one bidders have offered same rates for a particular package then the work will be divided equally among them.

31. EXTENSION IN SCOPE OF WORK

Up to 30% extension in work quantity can be awarded which will be binding on bidder up to 1 year from the date of award.

We (on behalf of PDN Supplier/PDN Contractor/Tenderer) have read all the above stated details & accept to comply with it in total.

(Name, Signature & Seal of the Tenderer)

SCOPE OF WORK:-

1.Laying, Grouting and other labour works

The scope of work of contractor shall be as under:-

All the work required to be done for Street lighting work such as Fabrication, Supply, Grouting and installation of Pole, Laying of Transmission in trench, earthing kit etc, as directed by site in charge and as per layout providing by the CREDA. The scope of work includes:

1. Grouting Of Poles,
2. Laying of transmission Lines, in trench/underground (Pole to pole)
3. Connectivity of Street light with SPV Power plant
- 4 . Installation of Chemical Earthing for Pole.
5. Fixing and installation of Street light Luminary
6. Fixing and fitting of Junction box
- 7 . Supply of cables of required specifications, supply of Electrical & Electronics items, Luminaries, Fixtures, electrical and electronic hardware & accessories and all other related items of various specifications, as per requirement of CREDA to District Places, at sites in the State of Chhattisgarh.

All material is to be delivered either in district head quarter or site as per the instruction of CREDA.

Material supplied should be as per ISI mark and if the item does not come in the category specified in the ISI then also the quality of those items shall be of best available in the category, with due approval of CREDA. All the material shall match with the requirement of the purpose of installation at site.

All the material shall be warranty for two years from the date of supply for any manufacturing defect. Luminaries shall bear warrantee for one year from the date of installation.

2. Fabrication Items

The scope of work is to supply of fabrication and MS Pole related items as per drawing/designed, specification as required of CREDA to District Places at site in State of Chhattisgarh. All the scope of work includes :

1. Fabrication and supply of M.S. Pipe Street Light Bracket.

Note:-

Such works, not listed in the schedule of work but required for completion of the project shall deemed has been included in the scope of the bidder.

Commissioning and testing of complete work

Note:-

Such works, not listed in the schedule of work but required for completion of the project shall deemed have been included in the scope of this bid.

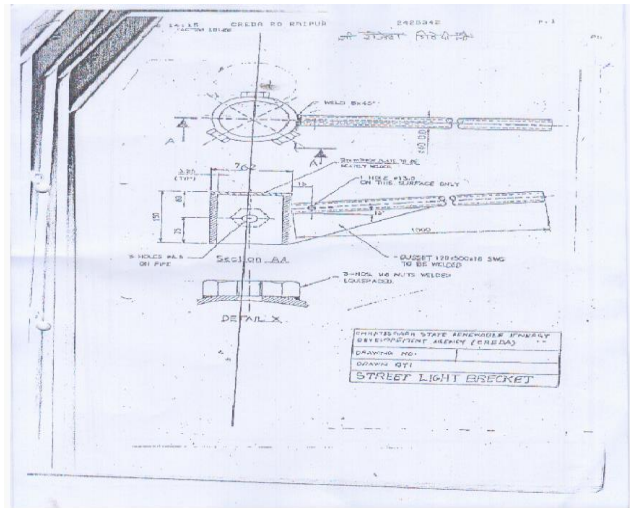
DETAILS OF SITES FOR STREET LIGHTING THROUGH SOLAR POWER AT District -RAJNADGAON

S.N.	District	Site	Description of Work	Nos.	Approx. Package Cost (In Rs)
1	Rajnandgaon	Police Thana-Chilhathi, Bl. Chouki	Street Light PDN through SPVPP as per Specification of Tender	1	2,38,080/-

TECHNICAL SPECIFICATIONS

FABRICATION MATERIALS

1. Street light brackets and other accessories should be as per **enclosed** drawings and specification.
2. Pits for the grouting of posts of size 0.45m x 0.45 m x 0.60 m and grouting the poles in 1:2:4 P.C.C. mix the pits of size (0.45m x 0.45 m x 0.60 m) with complete civil material.



Wires and Cables

1. All cables & wires shall be as per ISI specifications.
2. All copper cables and wires used shall be of copper conductors of suitably cross-section with cross-linked polythene or polyvinyl insulated with polyvinyl sheath. Stranded and flexible cable shall be used. Non-stranded cables shall not be acceptable except otherwise mentioned and permitted.
3. Exposed cables, wherever, used, shall have UV resistant jacket besides being water resistant.
4. Buried underground cables shall be armored. .
5. Conductor sizes of cables and wires shall be selected based on efficient design criteria such that the overfall electrical energy loss in any section of cable or wire is not more than three (3) percent under the designed operating conditions. Conductor sizes of armored cables less than 6 sq mm shall not be accepted.
6. Cable/Wire connections shall be soldered, crimp-on type or split-bolt type. Wire nut connectors shall not be used.
7. All cables shall be adequately supported. Outside of the terminal/panels/enclosures shall be protected by conduits. Cables shall be provided with dry type compression glands wherever they enter junction boxes/panels/enclosures.
8. All cables shall be suitably marked or color coded for easy identification. The marking of length of the cable should clearly marked on the cable
9. Cables and wires shall confirm to the relevant standards. Tenderers to specify the specification, for any additional features.
10. Cables should in a packing of at least 100 m each.

Electrical & Electronics

1. Electronic circuits in use shall be modular IE standard in design to allow for ease of service, maintenance and replacement.
2. All electronic circuits shall be housed in suitable packages or panels or enclosures so as to conceal them from general public. However, these shall be easily accessible to trained technicians for maintenance.
3. Suitable number of protective fuses shall be included. Safe accessibility for easy replacement, if required, shall be ensured.
4. The control circuit shall provide for an emergency shut down for the system and manual reconnect facilities.
5. Power Factor of all types of Electronic Ballast should be ≥ 0.90 .

6. Only mercury displacement relays or equivalent shall be used in the power circuits. Mechanical relays are not acceptable.
7. The electronic circuitry shall be rated at least for an operating temperature of 0°C to 48°C and a storage temperature - 10°C + 55°C.

Hardware

1. The hardware material shall be of ISI specification wherever mentioned in the Price Bid. If mentioned items does not come in the category of specified in ISI then also the quality of those items shall be of best available in the category.
2. All the material shall match with the requirement of the purpose of installation at site.

PRICE BID

PDN FOR STREET LIGHTING THROUGH SOLAR POWER PLANT ON TURNKEY BASIS AT POLICE THANA-CHILHATI BLOCK-CHOUKI OF DIST.- RAJNANDGAON.

S. No.	Particulars of Work	Qty.	Unit Rates of Item/work for Ex Factory /Godown (in Rs)	Unit rates for transportation Supply, laying/installation of Item including civil and other allied works at Site (in Rs)	Total Unit rate of Item/Work (in Rs.)	Total Package Cost (in Rs)
1	Grouting of poles with civil material and GI Pipe 1.65 Mtr. as per specifications and drawing (size 1.5 x 1.5 x 3.0 ft.). in 1:2:4 concrete mix. (Height of poles -5.7 meter)	10 nos.				
2	Supply, Fixing & grounding of chemical earthing set including preparation of 30 mm x 150 mm deep pit	02 nos.				
3	Fabrication, supply and Fixing of Street Light Brackets and Hansel box as per specifications and drawing	10 nos.				
4	Laying of transmission line underground in trench with minimum 6 sq mm armored conductor and connectivity to Solar power plant as per specification	400 mtr				
5	Supply Fixing and installation/fitting of Junction Box thermo plastic IP 65 as per specification	10 nos.				
6	Supply Fixing and installation/fitting of Compact Street lighting weather proof Luminary with 15W LED Lamp and suitable wires as per specification.	10 nos.				

Note:- Rates are inclusive of all incidental expenses & taxes except service tax.

1. Work shall be confirming to BIS specifications. All the required safety measures shall be taken care of.
2. Testing to the satisfaction of competent authority of CREDA after completion of work is included in the quoted rate.

Place :
Date:

Tenderer's Signature
Full Name
Designation.....
Company SEAL