



**Chhattisgarh State Renewable Energy  
Development Agency (CREDA)**  
(Dept. of Energy, Govt. of Chhattisgarh)

Near Energy Education Park, Village Fundhar  
VIP (Air Port Road) Raipur 492015 (C.G.) Ph.: +91-8370009925, 7717112459

*E-mail: creda.om@gmail.com, Website: creda.co.in*

**BID DOCUMENT No. 17737/CREDA/HOR/RE-III/ AEAS/PDN FAB & CIVIL  
WORKS /2019-20 DT. 15-01-2020**

**“TENDER FOR STANDARDIZATION OF RATES FOR SUPPLY AND INSTALLATION OF VARIOUS FABRICATION ITEMS USED IN PDN WORKS,PDN CIVIL WORKS .MISCELLANEOUS ELECTRICAL ITEMS/EQUIPMENTS FOR OPERATION AND MAINTENANCE WORKS IN CREDA ANYWHERE IN THE STATE OF CHHATTISGARH”**

Particulars	From Date & Time	To Date & Time	Place
Date of issue of notice inviting bid	15-01-2020 05:00 pm	----	----
Period of availability of bidding document at website	15-01-2020 05:00 pm	14-02-2020 05:00 pm	<a href="http://www.creda.co.in">http://www.creda.co.in</a>
Pre Bid Meeting & submission of queries in writing	28-01-2020 11:00 am	28-01-2020 05:00 pm	At CREDA Conference Hall HO Raipur
Submission of Technical Bid	28-01-2020 11:00 am	14-02-2020 05:00 pm	At CREDA Conference Hall HO Raipur
Submission of e-Price Bid	28-01-2020 11:00 am	14-02-2020 05:00 pm	<a href="http://www.cspc.co.in">http://www.cspc.co.in</a>
Opening of Technical Bid	17-02-2020 11:00 am	17-02-2020 02:00 pm	At CREDA Conference Hall HO Raipur
Declaration of Eligible Bidder	17-02-2020 03:00 pm	----	At CREDA Conference Hall HO Raipur
Opening of e- Price Bid	17-02-2020 03:00 Pm	17-02-2020 05:00 pm	At CREDA HO Conference Hall HO Raipur

***Bid Document Cost– Rs.5000.00 + 18% GST = Rs.5900.00  
(in words Rupees Five Thousand Nine Hundred Rupees Only)***

*Document can also be downloaded from our website [www.creda.co.in](http://www.creda.co.in) with the cost of Bid as mentioned in NIT, which shall have to be deposited along with the Bid document.*

**CHATTISGARH STATE RENEWABLE ENERGY DEVELOPMENT AGENCY**  
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**NOTICE INVITING BID**

CREDA invites sealed Bids for “Standardization of rates for supply and installation of various fabrication items used in PDN works , PDN civil works, miscellaneous electrical items/equipments for operation and maintenance in CREDA anywhere in the state of Chhattisgarh” from registered PDN contractor/Vendor of Electrical and Electronics items of CREDA with 3 years track record in the field of PDN and O&M works, as per following details -

Sl.No.	Item Description	Approximate value of work	Cost of Bid Document	EMD	Essentials
1	“Standardization of rates for supply of various fabrication items used in PDN works, PDN civil works, miscellaneous electrical items/equipments for operation and maintenance in CREDA anywhere in the state of Chhattisgarh”	3.00 Crore	Rs 5000.00 +18% GST = Rs.5900.00	Rs.100000.00	As per clause no. 1A to 1H of Eligibility Criteria (Page no.7)
<b>TOTAL</b>		<b>3.00 Crore</b>	<b>5900.00</b>		----

The quantity of work is not fixed. The allocation of work will depend on the availability of project to CREDA

**Important Events and time schedule for this Bid are as follows –**

Particulars	From Date & Time	To Date & Time	Place
Date of issue of notice inviting bid	15-01-2020 05:00 pm	----	----
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Price Bid shall be submitted online only at <http://www.cspc.co.in>, however Technical bid will have to be submitted in hard copy at Chief Engineer (RE – III) Section, Near Energy Education Park VIP Road, Raipur. Bidders are advised to follow the instructions provided for Registration and e-Submission Process accordingly. (for any query about e-bidding please visit user manual at <http://www.cspc.co.in>.)

**Details of this Bid are mentioned at Bid Documents which can be downloaded from our website [www.creda.co.in](http://www.creda.co.in). The Bidder should have to deposit Bid document cost along with EMD as mentioned above through demand draft payable to CREDA Raipur while submitting Bid.**

Bidders are requested to attend Pre-Bid meeting with their suggestions/objections/ reservations if any with details so as to avoid any confusion and to ensure clarity and transparency regarding the Bid.

CREDA reserves all rights to accept/reject any or all Bids in full/part without assigning any reasons. Any amendment in tender documents shall only be notified through the website of CREDA [www.creda.co.in](http://www.creda.co.in)

**Chief Engineer  
RE-III, H.O. CREDA  
Raipur (CG)**

**Details of bank account for RTGS/ NEFT :**

<b>Name</b>	<b>CREDA</b>
<b>Bank &amp; Branch Name</b>	<b>ICICI Bank, Panchpedi Naka, Raipur</b>
<b>Bank Account Number</b>	<b>134601000400</b>
<b>Branch IFSC Code</b>	<b>ICIC0001346</b>

### CHECK LIST

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

Sl. No.	Description	Complied	Page No. / Flag
1.	Earnest Money Deposit		
2.	Bid Document Fee (proof of submission)		
3.	The original document duly signed & with stamp on each page, as a confirmation of acceptance of Terms & Conditions (T&C).		
4.	Copy of Registration: Certificate as PDN contractor/Vendor of electrical and electronics items of CREDA for PDN Works valid for FY 2020-20.		
5.	Copy of Registered “A” class Electrical Contractor license		
6.	Original Net Worth Certificate and Turnover Certificate duly signed by Chartered Accountant		
7.	Completion and Performance Certificates of PDN Works, Electric material, Equipment Supply work in the name Bidder in Govt. Scheme of CREDA.		
8.	Proof of being Eligible Fabricator of fabrication items in the name of bidder.		
9.	Copy of certificate for last three years turnover of works done regarding PDN Works/Electric material, Equipments supply work.		
10.	Declaration of conflict of interest - by bidder about any relatives working with CREDA.		
11.	Manufacture Authorization certificates of standard items		
12.	Forwarding Letter & Undertaking by the Bidder		
13.	PAN, <b>GSTIN</b> , Copy of ITRs for last three FY of the Bidder		
14.	Undertaking on indigenouness of items		
15.	Self-certificate from Bidder on not being a debarred from Government contract or a blacklisted company.		

#### Details of EMD and Bid Fee

Sl. No.	Description
1.	<b>Earnest Money Deposit -</b> Earnest Money Deposit of Rs. ...., submitted in the form of Demand Draft / Banker’s Cheque/RTGS/NEFT from any scheduled bank drawn on _____ Bank _____ Branch, bearing DD/BC No. _____ dated _____ is attached herewith.
2.	<b>Bid Document Fee -</b> Bid Document Fee of Rs....., submitted in the form of Demand Draft / Banker’s Cheque/RTGS/NEFT from any scheduled bank drawn on _____ Bank _____ Branch, bearing DD/BC No. _____ dated _____ is attached herewith.

(Sign & Seal of the Manufacturer)

**UNDERTAKING OF THE BIDDER**

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

I/We hereby Bid 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 Bid valid for **One Hundred Eighty (180) days** from the due date of submission thereof and not to make any modifications in its terms and conditions.

A sum of **Rs.....** is hereby forwarded as **Earnest Money** in the form of crossed demand draft / RTGS / NEFT payable to CREDA at Raipur (C.G.). If I/We, fail to commence or complete the Work Ordered in specified time or fail to fulfil the any condition of Bid document, 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 Bid 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 Bid 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 GST 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 Bidder with seal .....**

**Witness :**

Signature: .....

Name: .....

Postal Address: .....

.....

## SECTION - 1

### INSTRUCTIONS FOR BIDDERS

**1. ELIGIBILITY CRITERIA :**

- A. The bidder who is bidding for "**PRICE BID A**" must be the original fabricator of the items. The bidder shall to submit the proof of being original fabricator of items for which he wants to bid.
- B. The Bidder who is bidding for "**PRICE BID B**" shall be the original manufacturer of items. In case any dealer or distributor of any company the bidder shall have to submit the certificate of authorisation i.e. MAF (Manufacturer authorisation Form).
- C. The Bidder who is bidding for "**PRICE BID C**" must have an "A" electrical contractor valid license at time of bidding
- D. The bidder must be registered as PDN contractor/Vendor of electrical and electronics, equipment items in CREDA for FY 2019-20.
- E. **MINIMUM EXPERIENCE**

Bidders must have minimum experience in last three financial years i.e. 2017-18 & 2018-19,2019-20 as per the details mentioned below –

S.No.	Details of work	Experience
1	Supply and installation of various fabrication items used in PDN works, PDN Civil works, <b>miscellaneous electrical items/equipments</b> for operation and maintenance in CREDA anywhere in the state of Chhattisgarh"	Minimum 03 years experience in PDN and O&M related works in CREDA

Bidders will have to submit satisfactory commissioning/functioning report containing complete details from the concerned state/central agencies /department along with bid document. Experience Certificates submitted should be in attached format (as per annexure-10) **or Other Format containing similar information as in attached format (annexure-10) shall be considered only in-case of submitted in Hindi / English Language only.** Work order, L.O.I. / L.O.A etc., will not be acceptable.

- F. Bidders must have a Positive Net worth of Rs. **25 Lacs** as on **31<sup>st</sup> March 2019 (which is defined as "Net value of the Assets minus (-) Net value of liabilities")**. They shall have to submit a **Original Certificate** duly signed by a qualified and registered Chartered Accountant having UDI number as a proof. Produced certificate must tally with the audited balance sheet.
- G. Bidders should have an aggregate turnover of minimum **2 Crores** in last three years i.e. 2016-17, 2017-18 & 2018-19 in SPV Projects (PDN works, Fabrication works, Electrical material supply work). Certified copies of the annual returns and audited balance sheet submitted to the Registrar of Companies/ Income Tax Authorities should be enclosed. For the preceding years an **Original Summarised Sheet** of turnover certified by registered CA must be enclosed.
- H. Bidder who is debarred from business by Govt. /Govt. Agency in any state would not be eligible to participate in this bid. A self-declaration should be submitted by the bidder to this effect, failing which bid shall be rejected.

**2.**

Tenderers should inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their tender. A tenderer shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charges consequent upon any misunderstanding or otherwise shall be allowed. The tenderer shall be responsible for arranging and maintaining all materials at his own cost, tools & plants, water electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a tender by a tenderer implies that he has read all the terms and conditions of the tender and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc.(including the local taxes, duties, levies and other

obligations as may be enforceable from time to time) will be issued to him by the government and local conditions and other factors having a bearing on the execution of the work.

**3. BIDDING PROCESS -**

For ease of accessing the e-bidding website and registration the following is to be done by bidder -

- A. Visit <http://www.cspc.co.in>
- B. Click on e-bidding button on right hand side of the page.
- C. The user will be directed to e-bidding page where all information regarding registration is available along with helpline details.
- D. Price Bid shall be submitted online only at <http://www.cspc.co.in> however technical bid will have to be submitted in hard copy. Bid Documents (including Technical Bid ) must reach at Chief Engineer (RE-III) Section, Near Energy Education Park VIP Road, Raipur latest by **05.00 PM on 14.02.2020**. Bids submitted after scheduled time and date shall not be considered.

**4. EMD, TECHNICAL BID -**

Document Fee, EMD, Technical Bid should be submitted for examination before **11:00 am to 05:00 PM dated 14-02-2020** at CREDA(RE-III)section, Head office Raipur. These will be examined by Technical Committee of CREDA on **17-02-2020** and Bidders will be shortlisted on the basis of approval of the Technical bids for opening of price bids.

**5. SUBMISSION OF DOCUMENTS -**

Documents should be submitted in prescribed manner in separate envelopes as follows-

- A. Main Envelope: Main Envelope must enclosed all A, B, C & D envelopes. Bidder Name, Address and status of firms should be clearly written on main envelope.
- B. Envelope-(A): Bid Fees and EMD.
- C. Envelope-(B): Financial Eligibility Documents: Net worth & Turnover certificate as per clause 1C & 1D & 1E.
- D. Envelope-(C): Technical Eligibility Documents: Experience certificates, Test Reports & Summary of Test Reports and Manufacturer Authorization Form as applicable.
- E. Envelope-(D): Complete Bid document in original duly seal & signed by authorized signatory on each & every page of the Bid document.

**Bid Document which doesn't follow the above format shall be disqualified.**

**7. SPECIFICATION AMENDMENTS -**

The Specifications of items should be as per as Specified in the Bid. If any amendments are issued by CREDA in due course of time, in this context, then those shall be applicable under this Bid.

**8. GST & PAN -**

Bidder shall have to submit copies of GST registration number and PAN numbers issued by the appropriate authority.

**9. THE BID -**

Technical Bid must be deposited in the Bid box only kept in the Chief Engineer RE-III Section, CREDA, H.O., Raipur **from 11:00 am 28-01-2020 to 05:00 PM dated 14-02-2020** nobody is authorized to receive or grant receipt for Bid delivered on behalf of CREDA. Bid received through any other means shall not be considered.

**10. ANALYSIS OF RATE -**

Bidder should quote their rates considering variation of site conditions and all other factors in price of different components and keeping the quantum and quality of work in mind. The bidder has to quote the price without GST.

**11. REGISTRATION OF BIDDER -**

Bidders should have a valid registration certificate as PDN contractor/Vendor for electrical and electronics items in CREDA for FY 2019-20.Only one authorised dealer/distributor of a manufacturer on behalf of manufacturer itself shall be allowed to participate in the tender. In case of multiple distributor/dealer of a manufacturer participates in the tender then the tender of all



dealers/distributors including manufacturer shall be rejected.

**12. VALIDITY -**

Full descriptive particulars and complete specifications should accompany the offer. Offers should be kept open for acceptance for at least **180 days** from the date of opening. After finalization of this Bid the approved rates shall be valid till one year from the date of finalisation; however CREDA shall have liberty to increase or decrease this validity if needed.

**13. TERMS & CONDITIONS -**

**A.** The terms, conditions and specifications mentioned in Bid document shall be binding on the Bidders and no condition or stipulation contrary to the conditions shall be acceptable. It may please be noted that the Bidders who do not accept terms and conditions stipulated in this Bid documents, their offers shall be liable to be rejected out-rightly without assigning any reason whatsoever.

**B.** Each page of Bid document & enclosures shall be signed by the Bidder and seal affixed. All the pages of the documents issued must be submitted along with the technical offer. In case of any corrections / alterations in the Bid, the Bidder should attest the same; otherwise Bids may not be considered.

**C.** Bidders are also instructed to submit their Bids in properly arranged manner (with index, proper paging and with flags on important documents). Incomplete, lose, conditional or improper arranged Bids will not be accepted.

**14. CREDA RESERVES THE RIGHT -**

**(i)** To reject or accept any or all Bids fully or partly without assigning any reason on the grounds considered advantageous to CREDA, whether it is the lowest Bid or not.

**(ii)** To split the quantities against the Bid further for the same items/work. No reason will be assigned by CREDA for this and will be binding on the Bidders.

**(iii)** To increase or decrease of aggregate quantities up to 100 % as per discretion or circumstances.

**(iv)** Due to large quantum of supply & limitation of the time period for completion of the supply/works CREDA may take consent from other Bidders if they agree to work on rates standardized by CREDA.

**(v)** CREDA may undergo agreement with those eligible Bidders who give consent to work on rates standardized by CREDA and may allocate work to them. Rates approved through this Bid may be standardized for all eligible Bids to work in **year 2019-20 & 2020-21** and shall be valid till **30-03-2021**. However CREDA reserves right to curtail or extend this period.

**15. COMMUNICATIONS -**

**A.** All the communication between Bidder and CREDA shall be in writing. Notice sent by Fax or other Electronic means shall be effective on confirmation of the transmission. Notice sent by registered post or speed post shall be effective of delivery or at expiry of normal delivery period as under taken by Postal Service.

**B.** Offers through Telegraph/Fax/Emails/Post/Courier or open offers etc. received shall be summarily rejected.

**16. BID DOCUMENT FEE AND EARNEST MONEY-**

**A.** Each Bidder should submit Bid Document Fee and earnest money in the form of Demand Draft/Pay Order or RTGS/NEFT as mentioned in the NIT vide **17737/CREDA/HOR/RE-III/AEAS/PDN FAB & CIVIL WORKS/2019-20 DT. 15-01-2020**, in a separate envelope as prescribed at **point no.05 of page 08**, else they will summarily be rejected and returned. Bid Document Fee & EMD submitted in any other form e.g. **Cash/Bank Guarantee/FDR/TDR etc. shall not be accepted.**

**B.** MSME unit registered **for manufacturing or service of PDN/electrical/electronics items or its components** in Chhattisgarh state and public sectors of government are exempted from EMD subjected to submission of valid document.

**17. PRE-BID MEETING -**

**A.** A pre-bid meeting shall be organized on **28-01-2020** at **11:00 AM** at Raipur to explain the

terms & conditions of the Bid and to clarify doubts of the Bidders so that all doubts and confusions are resolved before the Bid is submitted. Only one authorized representative of the parties who fulfils the primary eligibility conditions as mentioned in NIT and desire to purchase/download the Bid document shall be allowed to participate in the said meeting. Amendments/clarifications, if any arising during pre-bid meet, shall be uploaded on **www.creda.co.in**. It is advisable for all Bidders to attend this Pre Bid Meeting.

- B.** All suggestions, doubts, confusion, request, queries etc., shall have to be presented to CREDA in writing on or before **28-01-2020 till 5:00 PM**. After that any representation in this regard shall not be considered.
- C.** The purpose of pre-bid meeting will be clarifying issues and to answer questions in any matter that can be raised at that stage. Minutes of the meeting and the responses given will be uploaded for information of bidders. Any modification of the bidding document which may become necessary as a result of pre-bid meeting shall be part of original Bid document and communicated through corrigendum.
- 18. TECHNICAL CRITERIA -**  
Bidder shall have to give a self declaration that all the fabrication ,Electrical,Electronics and PDN items are conforming to the latest ISI standards and IEC standards/BIS standards.
- 19. FORFEITURE OF EARNEST MONEY DEPOSIT -**  
It should be clearly understood that in the event of Bidder failing to enter into the agreement in the prescribed format on their quoted rates and also fails to execute assigned works under any Scheme of CREDA, within stipulated time, if he is so communicated within the validity period of the offer, the full amount of earnest money will be forfeited and Bidder shall be debarred from future business with CREDA. CREDA's decision in this regard will be final and binding on the Bidders.
- 20. PRICE OF SUPPLY OF INVERTER/PCU -**  
**I.** The Price quoted for all items/work must be with one year warranty. The GST shall be paid extra as per prevailing rate. The prices shall be filled exactly as per **e-Price Bid enclosed**.  
**II.** Any change in GST shall be become applicable during the period of contract.
- 21. ENGINEERING DOCUMENT -**  
Bidders will have to submit Engineering Documents with technical details, Specifications of components and make etc. to CREDA for approval, as and when asked by CREDA. Supply/work may only be started out only after approval of the Engineering Document/Drawing .
- 22. INSPECTIONS -**  
CREDA reserves right to inspect the material at Godowns / Temporary Stores before dispatch and also at works sites.
- 23. TAX OBLIGATIONS -**  
CREDA shall deduct TDS for Income Tax, applicable cess on Civil Work etc. under various acts and deposited with the appropriate authority. Costs and taxes before execution of agreement with CREDA so as to ensure tax deposition as per Government Rules accordingly.
- 24. JURISDICTION OF THE COURT -**  
Any dispute arising out of the contract shall be subject to the jurisdiction of Hon'ble High Court of Chhattisgarh.

## SECTION - 2

### 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 Chief Engineer.
- Work shall mean any work entrusted to the Bidder as mentioned in the scope of work and Work Order.
- The "Engineer in charge" shall mean the Engineer or Engineers authorized by CREDA for the purpose of this contract. Inspecting Authority shall mean any Engineering person or personnel authorized by CREDA to supervise and inspect the erection of the SPV dual Pump.
- "The Eligible SI/Bidder" shall mean the Bidder 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 eligible bidder 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. PROOF OF MANUFACTURER -**

Those bidders who are also manufacturers of an important component of fabrication, electronic, electrical items shall have to submit proof of their factory, SSI Registration and list of Machineries and Equipment's.

**3. CONTRACT DOCUMENT -**

The term "Contract" shall mean and include the General conditions, specifications, schedules, drawings and 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.

**4. MANNER OF EXECUTION -**

Execution of work shall be carried out under **Government Mode** Scheme of CREDA 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.

**5. 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 Bidder. The eligible Bidder 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 eligible Bidder.

**6. INSPECTION -**

- A. The Engineer-in-Charge or his authorized representative(s) shall be entitled at all reasonable times to inspect and supervise and test during supply and commissioning. Such inspection will not relieve the eligible bidder from their obligations under this contract.

- B.** Material can be inspected before dispatch or in transit by the authorized representatives of CREDA at the factory / godown at the cost of the eligible bidder, if desired by CREDA.
- C.** CREDA will undertake real time performance and quality test of randomly selected **Items** and its components during the course of execution as per the specifications and guidelines laid by CREDA to ensure quality items/work.

**7. COMPLETION OF WORK -**

Time being the essence of contract, the supply of the Items/work shall be completed within the time schedule prescribed in the Work Order.

**8. ELIGIBLE BIDDER'S DEFAULT LIABILITY -**

CREDA may by written notice of default to the eligible bidder, terminate the contract in circumstances detailed hereunder -

- (a)** If in the opinion of the CREDA, the eligible bidder fails to complete the supply/work within the time specified in the supply/work Order or within the period for which extension has been granted by CREDA to the eligible bidder.
- (b)** If in the opinion of CREDA, the eligible bidder 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 bidder or agency upon such terms and in such a manner as it may deem appropriate and the eligible bidder shall be liable to CREDA for any additional costs or any losses caused to CREDA as may be required for the supply of the Items and or for penalty as defined under this Bid 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 eligible bidder shall continue performance of the contract, in which case he shall be liable to CREDA for penalty for delay as set out in this Bid document until the work is completed.

**9. FORCE MAJEURE -**

The eligible bidder shall not be liable for any penalty for delay or for failure to perform the contract for reasons of FORCE MAJEURE such as of God, acts of public, enemy, LWE problems, acts of government, cyclone, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes provided that if bidder shall submit delay notice with appropriate cause of delay to the CREDA in writing within **15 days** of force majeure. CREDA shall verify the facts and may grant such extension as facts justify. Delay in supply of any accessories of items etc. by the related vendors, to whom the Bidder has placed order, shall also not be treated as force majeure.

**10. REJECTION OF WORKS -**

In the event of any of the material supplied/work done by the eligible bidder 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 eligible bidder to rectify the same. **CREDA may impose penalty for such rejection up to the 200% cost of the entire item/work. Habitual/repeated offenders shall be black listed/debarred to participate in the any Bid/ Activity of CREDA till further orders.** The eligible bidder on receipt of such notices shall rectify or replace the defective material and rectify the work free of cost. If the eligible bidder fails to do so CREDA may -

- a)** At its option replace or rectify such defective materials and/or work and recover the extra cost so involved from the eligible bidder plus **15%** service charges of the cost of such rectification, from the eligible bidder and/ or terminate the contract for balance work/ supplies with enforcement of penalty **as stated above.**
- b)** Defective materials/workmanship will not be accepted under any conditions and shall be rejected outright without compensation. The eligible bidder shall be liable for any loss/damage sustained by CREDA due to defective work **with enforcement of penalty as stated above.**

**11. EXTENSION OF THE TIME -**

If the completion of installation is delayed due to any reason beyond the control of the eligible bidder, the eligible bidder 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 or may not agree to extend the contract/delivery/completion date of the items/works as may be reasonable but without prejudice to other terms and conditions of the contract.

**12. MAKES OF EQUIPMENTS TO BE USED IN THE WORK -**

- (I) The items shall be made in India.
- (II) The eligible bidder has to ensure that equipment's as per Technical Requirements of guidelines of CREDA as complied with. The material/works for which CREDA/MNRE or BIS/IEC 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 items should be submitted to the engineer-in-charge of the works before installation of the same.
- (III) Successful bidder upon issue of LOI must submit Manufacture Authorization Form (MAF) From manufacture of electrical and electronics items/equipment which he is going to supply, **no payment shall be made if he fails to do so.**
- (IV) Eligible bidder Should submit warrantee Agreement for one **year** for Items with manufacturer or distributors certified by the manufacturer before supply of items and execution of works, for any manufacturing defects or bad workmanship.

**13. WARRANTEE PERIOD AND POST SUPPLY SERVICES -**

- A. The work done/material supplied by the eligible bidder should be warranted for satisfactory operation and against any defect in material and workmanship including Items and other balance of equipment's, for a period of **1(one) years**, from the date of supply/completion of the items/work.
- B. 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.
- C. The warrantee period shall be extended by the period during which the items/work remains non-operative due to reasons within control of the eligible bidders.
- D. This warrantee must be an unconditional onsite warrantee and the eligible bidder will have to replace the defective material within **7 days** positively from the date of information given to him.
- E. Care should necessarily be taken to make the **Items** operational, once the reporting of the fault/non-operational status is done, within a week. If the items is not made operational within **7 days** CREDA may rectify the same at the cost of bidder and the warrantee period shall be extended for a month for the same.
- F. Eligible Bidder shall have to establish their service stations in headquarter and shall have to keep sufficient quantity of spares and man power to ensure proper service network for taking care of smooth functioning of items supplied by them. Eligible bidder shall have to give a toll free number to register complaints.

**14. TERMS OF PAYMENT -**

The following terms of payment shall apply for the Bid -

- A. **95%** of the eligible payment as per the supply/work Order after satisfactory supply and performance testing of the works at site with proper handing over.
- B. Balance **5%** of the eligible payment (Without GST) shall be retained by CREDA as Performance Security for a period of **12 months**.

**15. PENALTY FOR DELAY IN COMPLETION OF CONTRACT -**

If the eligible bidder fails to complete the assigned work within the schedule time specified in the supply/work Order or any extension granted there to, CREDA will recover from the bidder as penalty a sum of **One per cent (1%)** of the order price excluding GST/Tax for every delayed

supply/work per month. For this purpose, the date of taking over shall be reckoned as the date of completion. The total penalty shall not exceed **5% (Five Per cent)** of the cost.

Review of the progress of supply/work allocated to bidders shall be done time to time by CREDA and if the progress of supply/work is found unsatisfactory, the allocation of entire remaining works/supply of can be re-allocated to other bidder as per discretion of CREDA.

**16. SECURITY DEPOSIT (SD) -**

- A.** The Earnest Money shall be retained by CREDA for a period up to which the tender/RC is live .
- B.** Beside this, **5%** of the cost shall also be retained as SD during the period of warrantee. No interest shall be payable on the Security Deposit.
- C.** Period for which EMD and SD are to be retained may be extended in case the warrantee period is extended due to non performance of the system.

**17. INSURANCE -**

- A.** The eligible bidder shall arrange insurance coverage for the materials at his/ beneficiary's custody for the work under execution and successful commissioning and subsequent handover to the beneficiary. The eligible bidder shall take up insurance or such other measures for the manpower so as to cover the claim for damage / accident under workmen's compensation Act and other applicable State/Central laws. CREDA shall not bear any responsibility on this account.
- B.** Eligible bidder shall arrange for insurance coverage for complete material supplied during warrantee period from the date of supply/work. Insurance should cover for damage and theft. In case of such incidence, bidder must replace the lost/damaged part within **7 days** from the date of intimation.

**18. PENALTY DUE FROM THE ELIGIBLE BIDDER -**

All costs of damages and delays for which the eligible bidder is liable to the CREDA will be deducted from any money due to the eligible bidder including the security deposit of any project under CREDA.

**19. ELIGIBLE BIDDER'S RESPONSIBILITY -**

Notwithstanding anything mentioned in the specifications of subsequent approval or acceptance of the items by CREDA, if any, the ultimate responsibility for satisfactory performance of the entrusted work shall rest with the eligible bidders. If in any case the eligible bidder does not complete the Supply/work as per the supply/work Orders issued to them then CREDA may take over the task & complete the project at the risk and cost of eligible bidder.

**20. RESPONSIBILITY TO RECTIFY THE LOSS AND DAMAGE -**

If any loss or damage occurs to the work or any part thereof or materials/plant/equipment's for incorporation therein the period for which the eligible bidder is responsible for the cause thereof or from any cause whatsoever, the eligible bidder 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 eligible bidder shall also be liable for any loss or damage to the work/equipment's occasioned by him in course of any operation carried out to him during performing the contract.

**21. RESPONSIBILITY TOWARDS THE WORKMAN OR OUT SIDERS –**

- A.** The eligible bidder 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 Work Order.
- B.** The eligible bidder 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.

**C.** All the expenditure including treatment or compensation will be entirely borne by the eligible bidders. The eligible bidder shall also be responsible for any claims of the workers including, labour payments PF, **Accidental Insurance, Gratuity, ESI & other legal obligations.**

**D.** **CREDA shall have all rights to deduct such claims of payments from bidder in case of complaints of such violations.**

**22. NON-ASSIGNMENTS -**

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

if eligible bidder transfer/assigned/sublet full or any part of work allocated to him without prior permission from CREDA in writing to any third party shall be liable to debar/black listed from any Bid/Activity of CREDA till further orders.

**23. 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 eligible bidder of his obligations for due performance of the contract.

**24. SETTLEMENT OF DISPUTES THROUGH ARBITRATION -**

**A.** 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 eligible bidder is made to CREDA. The decision of the CEO, CREDA shall be final and binding to the all concerns.

**B.** 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.

**25. 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.

**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 -**

**A.** Any notice to the eligible bidder under the terms of the contract shall be served by registered mail to the registered office of the eligible bidder or by hand to the authorized local representative of the eligible bidder and copy by post to the eligible bidder's principal place of business.

**B.** Any notice to CREDA shall be served to the Chief Engineer, CREDA Raipur in the same manner.

**28. SECRECY -**

The eligible bidder 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.

**29. AGREEMENT -**

The successful eligible bidder shall have to enter into an agreement with the CREDA in the approved contract agreement form within **10 days** of the receipt of call from CREDA.

**30. DECLARATION OF CONFLICT OF INTEREST –**

The bidder hereby declares that nobody connected with or in the employment of **CREDA** is not/shall not ever be admitted as partner in the contract.

31. **BID EVALUATION CRITERIA -**

- A. Offers of only those parties, who are found qualified based on Eligibility Criteria and Techno-commercial Bid, will be taken into further consideration and financial bid of only those parties who are qualifying the criteria of Techno-commercial Bid will be opened.
- B. Other things being equal, the lowest rates shall normally be preferred, but CREDA shall have rights and liberty to amend/lower the rates.
- C. **Conditional Bids shall not be accepted.**
- D. However CREDA shall have rights and liberty to call any /other parties to work on approved rates as and when requires in accordance with quantum of work and scheduled time limits for completion of targets.

32. **EVALUATION OF PRICE BID -**

Price bid shall be evaluated on the basis of Quoted rates. Lowest rates of each category of Items/works shall be considered however CREDA shall have discretionary power to amend/lower the rates.

33. **ALLOCATION OF TARGETS AND AREA OF WORK -**

The supply shall preferably allotted to eligible bidders on L-1 rates subjected to rate reasonability however the CREDA has sole discretionary power to award work to any other eligible bidder on L-1 rates if he agreed to supply/work on L-1 rates. The allocation of work will be based on the project, work and demand received from field offices of CREDA.

34. **BID REJECTION -**

If financial bid of a bidder has been opened on the basis of technical bid of a bidder which has been determined to be substantially responsive to the bidding document and in latter stage it is found that bidder does not meet the eligibility criteria or the technical bid is found substantially non-responsive, CREDA reserves rights to reject such bid of a bidder any time.

We (on behalf of Eligible Bidder) have read all the above stated details & accept to comply with it in total

(Name, Signature & Seal of the SI)



## SECTION-3 SCOPE OF WORK AND TECHNICAL SPECIFICATION

### 1.Specification of Power Distribution Network(PDN)

**(a) Laying Grouting and other labour works**

Contractor shall supply all the required material for PDN at site. The scope of work of contractor shall be as under:-

All the work required to be done for PDN such as laying of transmission line, Distribution lines, Grouting and installation of Pole, Fixing of stay set, 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, Over Head Pole to Pole/ Including Insulators/ Cable fixture)
- 3 Laying of transmission Lines(Pole to House Holds/ Including Insulators)
4. Individual house wiring as per drawings
5. Fixing of stay sets.
6. Installation Chemical Earthings for Pole.
7. Installation of Street Light Brackets, fixing of Street light Luminary etc.

**(b) Electrical, Electronics and Other PDN Materials**

1. Supply cables of various 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.
2. All material is to be delivered either in district head quarter or site as per the instruction of CREDA.
- 3 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.
- 4 **All the material shall be warranty for one years from the date of supply for any manufacturing defect. Luminaries shall bear warrantee for one year from the date of installation**

**(c) Fabrication Items**

The scope of work is to supply of fabrication and GI Pole/Steel structure/other fabricated items. All the related items as per drawing/designed, specification as required of CREDA. All the scope of work includes :

1. Fabrication and supply of Hot dip Galvanized GI Pole.
2. Fabrication and supply of Hot dip Galvanized GI. Pipe Street Light Bracket.
3. Fabrication and supply of Hot dip Galvanized Earthing Coils.
4. Fabrication and supply of Hot dip Galvanized Stay Set.
5. Fabrication and supply of Hot dip Galvanized Cable fixture.
6. Fabrication and supply of Hot dip Galvanized suitable street light bracket.

### 2.Wires and Cables

1. All cables & wires shall be as per ISI specifications.
2. Power cable – Unarmored/Armored/ABC with Aluminum Conductor PVC insulated PVC Sheathed (Heavy Duty) as per IS:1554/1988, part one two /four core
  - (i) 4 Sq. mm, 2core
  - (ii) 6 Sq. mm, 2core
  - (iii)10 Sq. mm, 4core.
  - (iv)16 Sq mm,4 core
  - (v) 25 sq mm,4 core
  - (vi)35 sq mm,4 core
  - (vii) 50sqmm,4 core
  - (viii)70sqmm,4 core
  - (ix)95 sqmm,4 core

- (x)120 sq mm,4 core
  - (xi)150 sq mm,4 core
  - (xii)185 sq mm,4 core
  - (xiii)240 sq mm,4 core
  - (xiv)300 sq mm,4 core
3. 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.
  4. Heavy duty multistand wire and cable P.V.C. insulated twisted bright annealed Copper 1100 Volts, IS 694, Size :- 1.5 Sq. mm.
  5. Exposed cables, wherever, used, shall have UV resistant jacket besides being water resistant.
  6. Buried underground cables shall be armoured. .
  7. Conductor sizes of cables and wires shall be selected based on efficient design criteria such that the overall 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 less than 1.5 mm shall not be accepted.
  8. Cable/Wire connections shall be soldered, crimp-on type or split-bolt type. Wire nut connectors shall not be used.
  9. 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.
  10. 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
  11. Cables and wires shall confirm to the relevant standards. Bidders to specify the specification, for any additional features.
  12. Cables should in a packing of at least 100 m each.

**Section-04**

**1.e-Price Bid**

**(For supply and installation of various fabrication items used in PDN works , PDN civil works, miscellaneous electrical items/equipments)**

**PRICE BID -A**

**Schedule of Rates for supply of Fabrication and Earthing Items**

*(e-bidding as per Specifications & Scope of Work of No.17737/CREDA/HOR/RE-III/AEAS/PDN LABOUR & CIVIL WORKS/2019-20 Dated : 15.01.2020)*

S. No.	Description of Item	Unit	Rate(In Rs.) Exe.GST	GST as applicable
1	Fabrication and supply of fencing of 10 gauge chain link wire mesh of 75X75 mm opening, fitted with 50X50X5 mm vertical M.S. Angle at spacing of 2.5 mtr & 3 5X35X5 mm horizontal M.S. Support. Every set of fencing will have one M.S. Angle framed gate with same chain link wire mesh with locking arrangement and two extra posts. Three lane barbed bolts, washer and nut as per enclosed design drawing and specification with two coat steel primer zinc chromate silver/aluminium paint of standard brand with installation and fitting of fencing with grouting the poles in 1:2:4 P.C.C. of size 0.45X0.45X0.60 mtr. for given requirement with complete civil material	per running mtr		
2	Supply of hot dipped galvanized ( in single dip to average 70 micron) Octagonal pole made of 3mm thick steel plate having bases plate 200x200x12mm, Window and flush cover with hacking arrangement at height from base for cable termination block, pole suitably reinforced with welded steel section at window cut section to make the strength of pole unaffected, with 4 nos. 450 mm long, 16mm dia foundation bolts ( EN8 grade). 5 meter high, minimum dia 130 mm at bottom and 70 mm at top.	Nos		
3	Supply of hot dipped galvanized ( in single dip to average 70 micron) Octagonal pole made of 3mm thick steel plate having bases plate 200x200x12mm, window and flush cover with hacking arrangement at height from base for cable termination block, pole suitably reinforced with welded steel section at window cut section to make the strength of pole unaffected, with 4 nos. 450 mm long, 16mm dia foundation bolts ( EN8 grade). 6 meter high, minimum dia 130 mm at bottom and 70 mm at top.	Nos		
4	Fabrication and supply of 5.70 mtrs. M.S. Pole, with ISI "B" Class M.S. Pipe as per drawing and specification enclosed with all material and with two coat Zinc Chromate primer and two coat Silver/Aluminium Paint	Nos		

	of standard brand 12" x 12" base plate (10 thickness) foundation in MS Pole with stiffner and 4 Nos. T-bolt with double nuts (20 mm. Dia & 900 mm. Lenth. Nut bolt arrangement in 4 feet from the bottom of pole.			
5	Fabrication and supply of 7.50 mtrs. M.S. Pole, with ISI "B" Class M.S. Pipe as per drawing and specification enclosed with all material and with two coat Zink Chromate primer and tow coat Silver/Aluminium/Enamel Paint of standard brand. 12" x 12" base plate (10 mm thickness) foundation in MS Pole with stiffner and 4 Nos. T-bolt with double nuts (200 mm. Dia & 900 mm. Lenth. Nut bolt arrangement in 4 feet from the bottom of pole.	Nos		
6	Fabrication and supply of ISI mark G.I. cable fixtures Type A	Nos		
7	Fabrication and supply of ISI mark G.I. cable fixtures Type B	Nos		
8	Fabrication & Supply of ISI mark G.I .pipe poles made of "B" class making necessary hole for cable entry and providing earthing stud(Welded at specified height) as per specifications and drawing ( Height of poles - 5.7 meter)	Nos.		
9	Fabrication & Supply of ISI mark G.I. pipe poles made of "B" class making necessary hole for cable entry and providing earthing stud (Welded at specified height) as per specifications and drawing ( Height of poles - 7.5 meter)	Nos		
10	Fabrication and supply of ISI mark G.I. decorative pole as per drawing with two sided G.I. street light bracket (8 Mtr)	Nos.		
11	Fabrication and supply of ISI mark G.I. decorative pole as per drawing with one side G.I. street light bracket (5.75 Mtr)	Nos.		
12	Fabrication and supply of ISI mark G.I. special type pedestrian pole as per drawing with 25 watt street light luminary warm LED (4.5 Mtr)	Nos.		
13	Fabrication and supply of ISI mark G.I. pedestrian pole as per drawing with street light bracket (6 Mtr)	Nos.		
14	Fabrication and supply of ISI mark G.I. street light pole as per drawing with street light bracket (9 Mtr)	Nos.		

15	Fabrication and Supply of ISI mark G.I .pipe "B" Class arrangement(850 mm length and 50 mm dia)for underground cabling in pole near foundation with suitable G.I. clamp for holding ISI mark G.I. pipe "B" Class	Nos.		
16	Fabrication & Supply of G.I. stay sets as per specifications and drawing	Nos.		
17	Supply of, pipe earthing coil with perforated pipe charcoal, salt, etc& 6 SWG Earth wire giving earth values suitable for pipe earthing	Nos.		
18	Fabrication & supply of ISI mark G.I. pipe "B" Class street light bracket for mounting Street Light fittings as per specifications and drawing.	Nos.		
19	Fabrication & supply of ISI mark G.I .pipe "B" Class Wall Mount Brackets as per specifications and drawing	Nos.		
20	Fabrication and supply of hot dipped galvanised structure for mounting of solar modules or any other structure as per specification, size and design given with all required material, drilling work and two coat steel primer zinc chromate of standard quality	Kg		

Certified that rates quoted above are as per the requirement, specifications, and terms & condition mentioned in the tender document. Above rates are FOR anywhere in the State of Chhattisgarh inclusive of roadworthy packing, loading, unloading, all types of incidental expenses, insurance, duties and any other job required to properly execute the work. The GST payable on the bill produced for payment to CREDA shall be paid in addition to above quoted price as per rate of GST applicable at the time of billing.

(No other cost will be claimed above the price quoted)

**Signature of Bidder**

Name \_\_\_\_\_

Seal \_\_\_\_\_

Signature \_\_\_\_\_

\_\_\_\_\_

**PRICE BID -B**

**Schedule of Rates for supply of Electrical items/Equipments and Earthings**

*(e-bidding as per Specifications & Scope of Work of No.17737/CREDA/HOR/RE-III/AEAS/PDN LABOUR & CIVIL WORKS/2019-20 Dated : 15.01.2020)*

S. No.	Description of Item	Unit	Rate(In Rs.) Exe.GST	GST as applicable
01	Supply of ABC cable of Size as per ISI specification of Size			
1.1	25 Sq mm 4 core	Per Meter		
1.2	35 sq mm 4 core	Per Meter		
1.3	50 sqmm 4 core	Per Meter		
1.4	70 sq mm 4 core	Per Meter		
1.5	95 sq mm 4 core	Per Meter		
1.6	120 sq mm 4 core	Per Meter		
1.7	150 sq mm 4 core	Per Meter		
1.8	185 sq mm 4 core	Per Meter		
1.9	240 sq mm 4 core	Per Meter		
1.10	300 sq mm 4 core	Per Meter		
02	Supply of Lightning Protection System as per the IS/IEC 62305-PART 3:2010.with all accessories such as connection terminal,Air terminal,Round conductor,Insulator,Tape Etc.			
2.1	Radius of protection 8 mtr with all accessories	Nos		
2.2	Radius of protection 10 mtr with all accessories	Nos		
2.3	Radius of protection 12 mtr with all accessories	Nos		
2.4	Radius of protection 16 mtr with all accessories	Nos		
2.5	Radius of protection 18 mtr with all accessories	Nos		
2.6	Radius of protection 20 mtr with all accessories	Nos		
03	Cable tie, black, UV and weather-resistant, Polyamide material :-			
3.1	2.5x100 SWUV	Nos		
3.2	2.5x150 SWUV	Nos		

3.3	2.5x200 SWUV	Nos		
3.4	3.6x100 SWUV	Nos		
3.5	3.6x150 SWUV	Nos		
3.6	3.6x200 SWUV	Nos		
3.7	3.6x250 SWUV	Nos		
3.8	3.6x290 SWUV	Nos		
3.9	3.6x365 SWUV	Nos		
4	Quick Clip for holding PVC pipe :-			
4.1	M16	Nos		
4.2	M20	Nos		
4.3	M25	Nos		
4.4	M32	Nos		
4.5	M40	Nos		
5	Quick Pipe :-			
5.1	M20 20mm Dia x2000mm Length x1.5mm thickness	Nos		
5.2	M25 25mm Dia x2000mm Length x 1.6mm thickness	Nos		
5.3	M32 32mm Dia x 2000mm Length x1.6mm thickness	Nos		
6	90 Degree Quick Pipe Bend :-			
6.1	M20	Nos		
6.2	M25	Nos		
6.3	M32	Nos		
7	Quick Pipe Connecting Sleeve :-			
7.1	M20	Nos		
7.2	M25	Nos		
7.3	M32	Nos		
8	Quick Pipe TEE :-			
8.1	M20	Nos		
8.2	M25	Nos		

8.3	M32	Nos		
9	High Voltage Class "C" Insulating mat as per IS:15652-2006 3 mm Thickness,ISI marked upto 33KV Grade.Make Honeywell,PPL,Zenith	Mtr.		
10	Wall Supported Aluminium Ladder manufactured from high tensile aluminium alloys :-			
10.1	Single ladder closed type 12 Feet Height	Nos		
10.2	Single ladder Extended type 20 Feet Height	Nos		
10.3	Folding Plat form Aluminium Ladder 20 Feet Height	Nos		
10.4	Single Ladder Extended Type 35 Feet Height	Nos		
11	PVC Earth Pit Chamber :-			
11.1	Top dimension 180x180mm, Bottom Dimension 250x250mm, Height 210mm	Nos		
11.2	Top dimension 230x230mm, Bottom Dimension 320x320mm, Height 230mm	Nos		
11.3	Top dimension 300x300mm, Bottom Dimension 405x405mm, Height 300mm	Nos		
12	Digital clamp meter ,Fluke,Metravi,Meco			
	Average, 3 3/4 digitals (4000 Counts ), Auto / Manual ranging, 1000V AC/DC & Up to 1000A AC ,55mm Clamp Jaw Size , Capacitance / Diode Continuity /Frequency Testing, Auto Power off / Data hold / Zero Adjustment Make : Fluke or Equivalent	Nos		
13	Digital Earth tester as per specification stated below, Fluke ,Metravi,Meco			
	3 & 1/2 Digit LCD display with Max Reading 1999, Earth Resistance Ranges of 0.01Ω to 1999Ω, Rechargeable Internal Ni-MH Battery, 4 Wire Soil Resistivity Measurement , Measurement Method-3 terminal & 4 Terminal with test kit Model DET-20 Make : Motwane or Equivalent	Nos		
14	Mechanic Tool kit set GSB 550 -Watt Impact drill kit(Blue range,122 pieces) Make: Bosch,Hilti or Equivalent.	Nos		
15	TDS Meter for water quality measurement	Nos		
16	Digital multi meter 20A SSC Fluke ,Metravi,Meco make	Nos		



17	Digital Thermometer for temperature Measurement as per ISI standards Fluke ,Metravi,Meco	Nos		
18	Vernier callipers ,Mitutoyo make Measuring Range (0-150)MM	Nos		
19	Screw guage ,Mitutoyo make of equivalent Measuring Range(0-25)MM	Nos		
20	For Solar Home light system installed under Saubhagya Scheme <b><u>Specification as per CREDA tender 18982 Dtd 20.11.2017</u></b>			
20.1	Lifepo4 Battery capacity 80AH/12.8VDC of reputed make conforming to IS 16046(Part 2) :2018/IEC 62133-2:2017	Nos		
20.2	BLDC Fan capacity 15watt,Five star rating(09V-15V,1.5Amp Max current consumption,03 Nos blades)	Nos		
20.3	LED Baton Capacity 8 W(5500-6500'K,Min 20 Lux )	Nos		
20.4	Connector	Nos		
20.5	Charge controller(12V,10Amp,MPPT Integrated DC charge controller)	Nos		
21	Solar High Mast Light			
21.1	Wire rope of Grade AISI 316 grade , 7/19 construction, with two SS ropes continues 8 mm diameter and braking load capacity 2400 kg x 2. The breaking load test report obtained from govt. laboratory of the wire rope should justify the desired the breaking load capacity.	Mtr		
21.2	The LED should be SMD LED Chip of Nichia/ CREE/ Osram / Philips/ LG /Samsung /Refond/ Everlight Seoul/ Bridgelux or equivalent. The LED efficacy should be minimum 140 lm/W (as per LM 80) CCT 5500 - 6500 K, CRI Minimum 70 & LED wattage minimum 01W. The Luminous flux should be minimum 4000 lumens & Luminary Must be LM-79 certified from MNRE/NABL Lab. The colour temperature of White LED used in the system should be in the range of 5500K-6500K. LEDs should not emit ultraviolet light. (strictly as per IS 16101, IS 16102, IS 16103 and IS 16107 )			
21.21	30W	Nos		
21.22	40W	Nos		
22	Supply of Electrical Rubber Insulating Hand Gloves for Electrical Purposes IS:4770,IEC:60903	Per Pair		
23	Supply of Helmets as per (IS: 2745-1983)	Nos		

24	Charge Controller as per IEC and BIS standards			
24.1	10Amp/12Volt	Nos		
24.2	20Amp/24Volt	Nos		
24.3	20Amp/12V	Nos		
25	Supply of Digital coating thickness gauge, Measuring Range 6mm, 0.1<20 Microns, 1>20 Microns, Metravi or equivalent make	Nos		
26	Supply of crimping tool for crimping of wire Ranging from 01 Sq mm to 16 Sq mm Stanley, Taparia, Bosch or equivalent make	Nos		
27	Supply of full body nylon safety belt for solar dual pump technician	Nos		

Certified that rates quoted above are as per the requirement, specifications, and terms & condition mentioned in the tender document. Above rates are FOR anywhere in the State of Chhattisgarh inclusive of roadworthy packing, loading, unloading, all types of incidental expenses, insurance, duties and any other job required to properly execute the work. The GST payable on the bill produced for payment to CREDA shall be paid in addition to above quoted price as per rate of GST applicable at the time of billing.

(No other cost will be claimed above the price quoted)

**Signature of Bidder**

**Name** \_\_\_\_\_

**Seal** \_\_\_\_\_

**Signature** \_\_\_\_\_

\_\_\_\_\_

**PRICE-C**

**Schedule of Rates for PDN labour/Civil works**

(e-bidding as per Specifications & Scope of Work of No.17737/CREDA/HOR/RE-III/AEAS/PDN LABOUR & CIVIL WORKS/2019-20 Dated : 15.01.2020)

S. No.	Description of Item	Unit	Rate(In Rs.) Exe.GST	GST as applicable
1	Installation of fencing of 10 gauge chain link wire mesh of 75X75 mm opening, fitted with 50X50X5 mm vertical M.S. Angle at spacing of 2.5 mtr& 35X35X5 mm horizontal M.S. Support. Installation and fitting of fencing with grouting the poles in 1:2:4 P.C.C. of size 0.45X0.45X0.60 mtr. for given requirement with complete civil material.	per running mtr		
2	Grouting work of Octagonal pole with civil material as per drawing (size 1550 x 500 x 500 mm.). in 1:3:6 concrete mix. (5 meter Pole)	Nos		
3	Grouting work of Octagonal pole with civil material as per drawing (size 1600 x 500 x 500 mm.). in 1:3:6 concrete mix. (6 meter Pole)	Nos		
4	Grouting work of pole with civil material as per drawing (size 1.5 x 1.5 x 3.0 ft.). in 1:3:6 concrete mix. (5.7 meter Pole)	Nos		
5	Grouting work of pole with civil material as per drawing (size 1.5 x 1.5 x 3.0 ft.). in 1:3:6 concrete mix. (7.5 meter Pole)	Nos		
6	Fixing of ISI mark G.I. cable fixtures Type A	Nos		
7	Fixing of ISI mark G.I. cable fixtures Type B	Nos		
8	Installation & Grouting of ISI mark G.I. pipe poles with civil material as per specifications and drawing (size 1.5 x 1.5 x 3.0 ft.). in 1:3:6 concrete mix.( Height of poles - 5.7 meter)	Nos		
9	Installation &Grouting of ISI mark G.I .pipe poles with civil material as per specifications and drawing (size 1.5 x 1.5 x 3.0 ft.). in 1:3:6 concrete mix.( Height of poles - 7.5 meter)	Nos		
10	Installation of ISI mark G.I. decorative pole and fitting of two sided G.I. street light bracket (8 Mtr)	Nos		
11	Installation of ISI mark G.I. decorative pole and fitting of one side G.I. street light bracket (5.75 Mtr)	Nos		

12	Installation of ISI mark G.I. special type pedestrian pole (4.5 Mtr)	Nos		
13	Installation of ISI mark G.I. pedestrian pole (6 Mtr)	Nos		
14	Installation of ISI mark G.I. pedestrian pole (9 Mtr)	Nos		
15	Fixing of stay set and grouting of stay rod with civil material in 1:3:6 concrete mix (size 1.5 x 1.5 x 3.0 ft.).	Nos		
16	Fixing & grounding of pipe earthing coil	Nos		
17	Fixing of ISI mark G.I. pipe "B" Class Street Light Brackets as per specifications and drawing.	Nos.		
18	Fixing of ISI mark G.I. pipe "B" Class Wall Mount Brackets as per specifications and drawing	Nos.		
19	Pole to pole Underground cabling	Mtr.		
20	Pole to house underground cabling	Mtr		
21	Pole to pole Overhead cabling	Mtr		
22	Pole to house overhead cabling	Mtr		
23	In house wiring with fixing and fitting of all connection point	per point		
24	Installation of 20Watt fan as per ISI specification.	Nos		
25	Installation /fitting of LED lamp/ tube light as per specification	Nos		
26	Fixing and installation/fitting of Compact Street lighting weather proof Luminary with LED Lamp with suitable wires as per specification.	Nos		
27	Grouting work of module mounting structure as per drawing (size 1.5 x 1.5 x 2.5 ft.) in 1:3:6 concrete mix including civil material required for the grouting of four legs of each frame structure.	Each frame		
28	Grouting work of module mounting structure as per drawing (size 1.5 x 1.5 x 2.5 ft.) in 1:3:6 concrete mix including civil material required for the grouting of two legs of each frame structure.	Each Frame		
29	Reorganization of Pole including shifting, Construction of Pedestals/ welding of base plate etc. and reinstallation and grouting	Per pole		

30	Painting Work and Wall writing			
31	Pole Painting Work, Single coating of Primer and double coating of Oil Paint. including cleaning and rubbing with emric paper	Per pole		
32	Painting of fencing with 02 coat of primer and 02 coat of zinc chromate including cleaning and rubbing with emirc paper	Per running Sq Mtr		
33	Wall writing in the control room	Per Sq feet		
34	Control Room Painting Work, Interior wall with Distemper and external wall with Distemper.	Per Running Sq Meter		
35	Control Room Painting Work, Interior wall with Distemper and external wall with Snow sem paint.	Per Running Sq Meter		
36	Dismantling & reinstallation and commissioning of SPVPP including Installation of MMS, Installation of Modules, AJB, MJB, Control Panel, PCU, BOS, Earthing Kit, Lightening Arrester and other equipments and their interconnections and synchronizing, welding of MMS for safety of Modules, all civil works required for foundation and grouting of various components such as MMS, PCU, Batteries, Control Equipments etc and including testing and commissioning of SPVPP.	Per KW spvpp		
37	Installation of Lightining Protection System as per the IS/IEC 62305-PART 3:2010.with all accessories such as connection terminal,Air terminal,Round conductor,Insulator,Tape Etc.			
37.1	Radius of protection 8 mtr with all accessories	Nos		
37.2	Radius of protection 10 mtr with all accessories	Nos		
37.3	Radius of protection 12 mtr with all accessories	Nos		
37.4	Radius of protection 16 mtr with all accessories	Nos		
37.5	Radius of protection 18 mtr with all accessories	Nos		
37.6	Radius of protection 20 mtr with all accessories	Nos		

Certified that rates quoted above are as per the requirement, specifications, and terms & condition mentioned in the tender document. Above rates are FOR anywhere in the State of Chhattisgarh inclusive of roadworthy packing, loading, unloading, all types of incidental expenses, insurance, duties and any other job required to

properly execute the work. The GST payable on the bill produced for payment to CREDA shall be paid in addition to above quoted price as per rate of GST applicable at the time of billing.

(No other cost will be claimed above the price quoted)

**Signature of Bidder**

**Name** \_\_\_\_\_

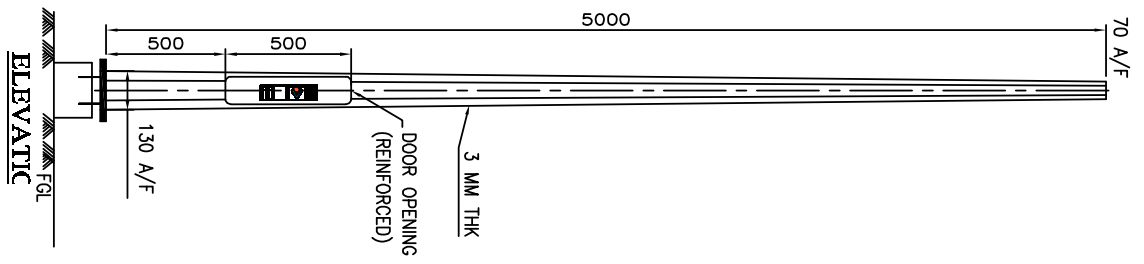
**Seal** \_\_\_\_\_

**Signature** \_\_\_\_\_

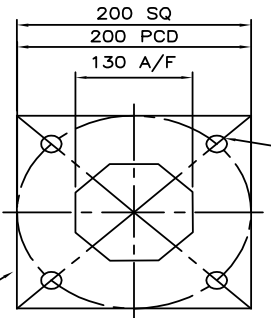
# Annex-01:-Drawing of octagonal Pole Size 5Mtr

TOLERANCE IN DIMENSIONS ARE AS PER IS-2102 EXCEPT FOR BENDING ROUNDS.

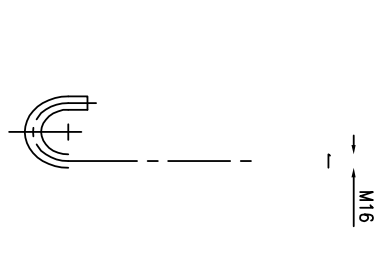
ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED.



ELEVATIC



200 SQ  
200 PCD  
130 A/F  
Ø20 HOLES, 4 Nos.  
FOR M16x450 BOLTS (EN 8 Gr)  
200x200x12 MM  
BASE PLATE



ANCHOR BOLT DET  
(TOTAL LENGTH) 450 mm

<b>MATERIAL SPECIFICATION:</b>	
Base Plate - MS. IS-2082	Pole Shaft - S355J0
ALL DIMENSIONS IN MILLIMETERS. FINISH GALVANIZED TO BS EN ISO 1461	
TOLERANCES	
DIMETERS	/ A/F + 2.5%
POLE DIA	NGH ± 1.2%
POLE STRUC	NESS ± 0.3%

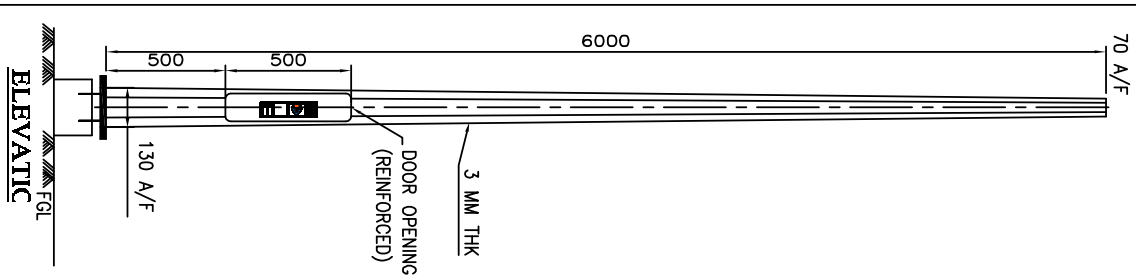
This drawing is the property of TBMV ELECTRICALS & must be returned on request. It is submitted as information in connection with enquiry, tender, or the contracts. It is not to be used for any other purpose may it re-copied or lent without our authority!

REV	DATE	DESCRIPTIC	SITE	DATE	DRN BY	DESIGN E VA	CHD BY	AUTHD B CM	TITLE	CAT NO.	SCALE	DRAWING NUME	SHEET NO. P
01				12.02.1	VM		AS		GA. DWG. OF 5M OCTAGONAL P	PROP. SEC		81-OP-5-130-70	01 OF 01
02													
03													
04													

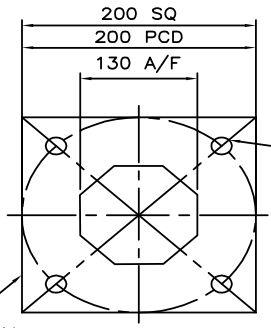
## Annex-02:-Drawing of octagonal pole 6Mtr

TOLERANCE IN DIMENSIONS ARE AS PER IS-2102 EXCEPT FOR BENDING RADIUS.

ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED.



**ELEVATIC**



**BASE PLAT**

200x200x12 MM  
BASE PLATE

Ø24 HOLES, 4 Nos.  
FOR M20x600 BOLTS (EN 8 Gr)



**ANCHOR BOLT DET**  
(TOTAL LENGTH—600 mm)

MATERIAL SPECIFICATION	
Base Pole - MS, IS-2062	Pole Shaft - S355J0
ALL DIMENSIONS IN MILLIMETERS, FINISH GALVANIZED TO BS EN ISO 1461	
TOLERANCES	
DIMETERS / A/F	+ 2.5%
POLE TOLA NGTH	± 1.2 %
POLE STRAIG I NESS	± 0.3%

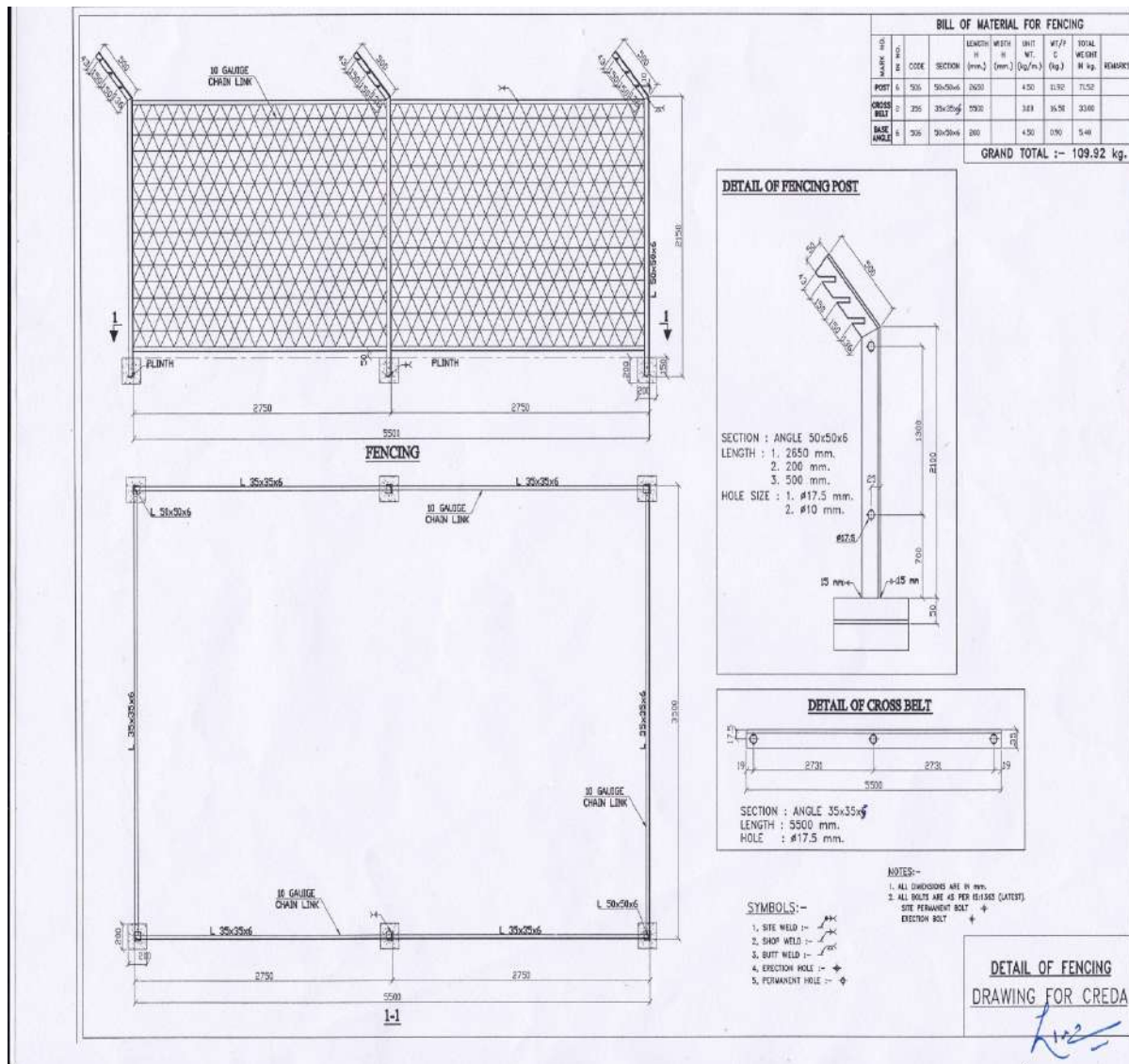
REV	DATE	DESCRIPTIC	SITE	DATE	12.02.1	TITLE	CAT NO.	SCALE	DRAWING NUMB	SHEET NO. R
01				DRN BY	YMI	<b>GA. DWG. OF 6M OCTAGONAL P</b>	<b>BOP • 600</b>	N.T.S	<b>SLOP 6x130x70</b>	<b>01 OF 01</b>
02			DESIGN B VA							
03			CHD. BY	AS						
04			AUTH'D BY	GM						

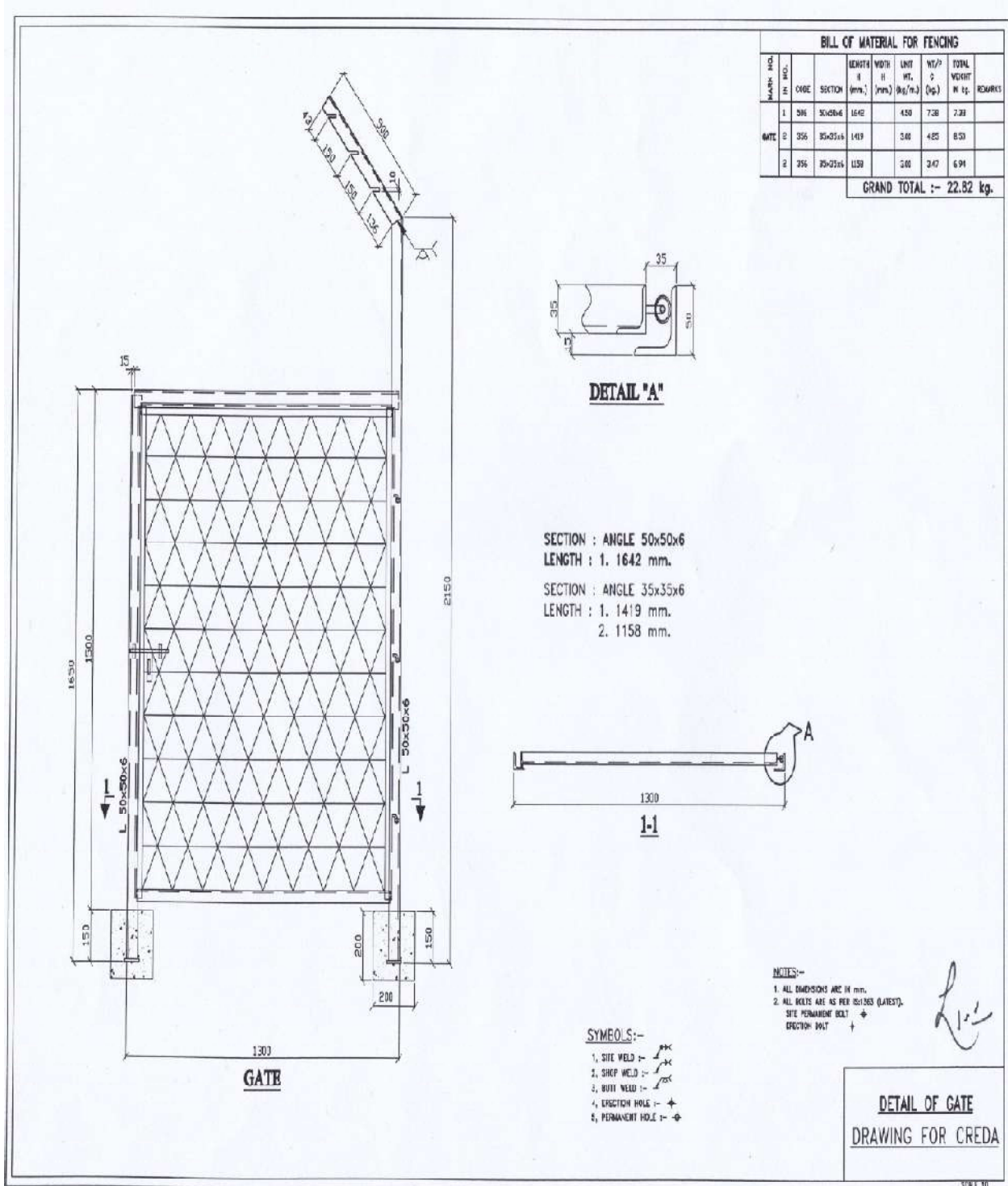


# TECHNICAL SPECIFICATION OF CHAIN LINK FENCING

Annex-03

Fabrication, supply and installation of fencing of 10 gauge chain link wire mesh of 75X75 mm opening, fitted with 50X50X5 mm vertical M.S. Angle at spacing of 2.5 mtr & 35X35X5 mm horizontal M.S. Support. Every set of fencing will have one M.S. Angle framed gate with same chain link wire mesh with locking arrangement and two extra posts. Three lane barbed bolts, washer and clip as per enclosed design drawing and specification with two coat steel primer zink chromate and one coat silver/aluminium paint of standard brand with installation and fitting of fencing with grouting the poles in 1:2:4 P.C.C. of size 0.45X0.45X0.60 mtr. for given requirement with complete civil material.

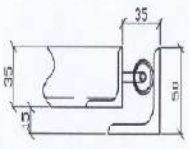




**BILL OF MATERIAL FOR FENCING**

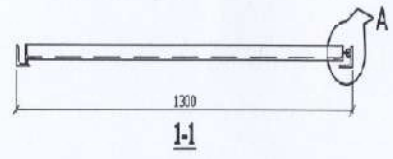
MARK. NO.	IN. NO.	CODE	SECTION	LENGTH H (mm.)	WIDTH W (mm.)	UNIT MT.	WT/UNIT (kg)	TOTAL WEIGHT IN kg.	REMARKS
	1	506	50x50x6	1642	450	7.28	2.28		
	2	356	35x35x6	1419	300	4.25	8.50		
	3	356	35x35x6	1158	300	3.47	6.94		

GRAND TOTAL :- 22.82 kg.



**DETAIL 'A'**

SECTION : ANGLE 50x50x6  
 LENGTH : 1. 1642 mm.  
 SECTION : ANGLE 35x35x6  
 LENGTH : 1. 1419 mm.  
 2. 1158 mm.



**NOTES:-**

1. ALL DIMENSIONS ARE IN mm.
  2. ALL BELTS ARE AS PER IS:1565 (LATEST).
- SITE PERMANENT BELT  $\oplus$   
 EJECTION PAINT  $\oplus$

*L.S.*

- SYMBOLS:-**
- 1. SITE WELD  $\sim$
  - 2. SHOP WELD  $\sim$
  - 3. BUTT WELD  $\sim$
  - 4. EJECTION HOLE  $\oplus$
  - 5. PERMANENT HOLE  $\oplus$

**DETAIL OF GATE**  
**DRAWING FOR CREDA**

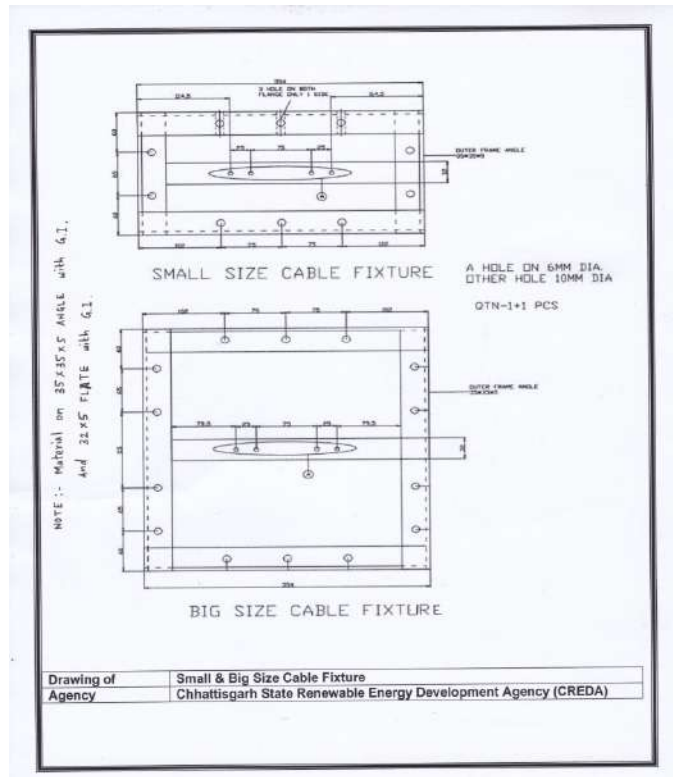
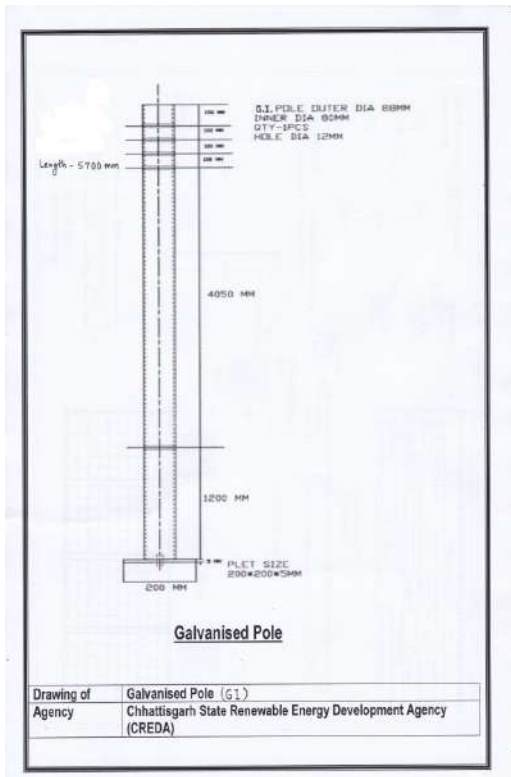
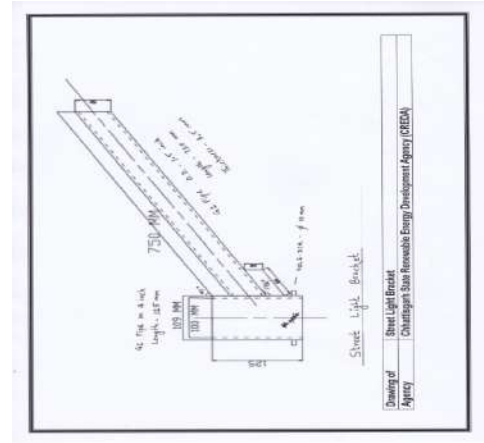
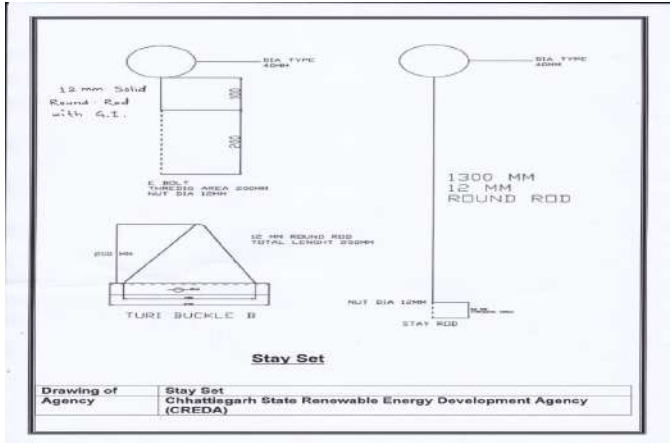
## Annex-04

### TECHNICAL SPECIFICATIONS OF G.I.PIPE POLES AND STREET LIGHT BRACKET AND CABLE FIXTURE,STAY SET,EARTHING COIL,CLAMP

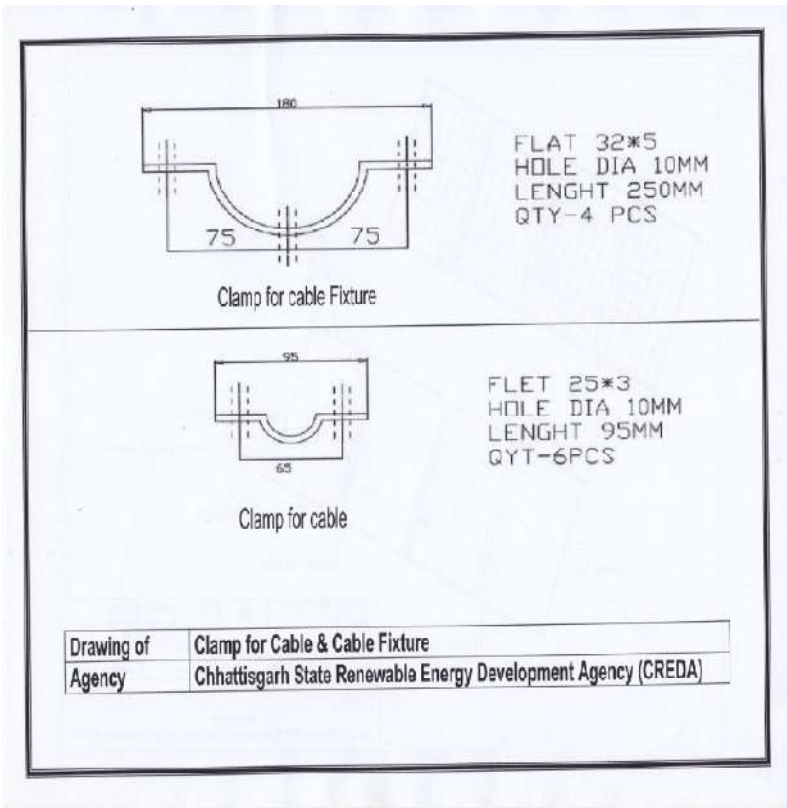
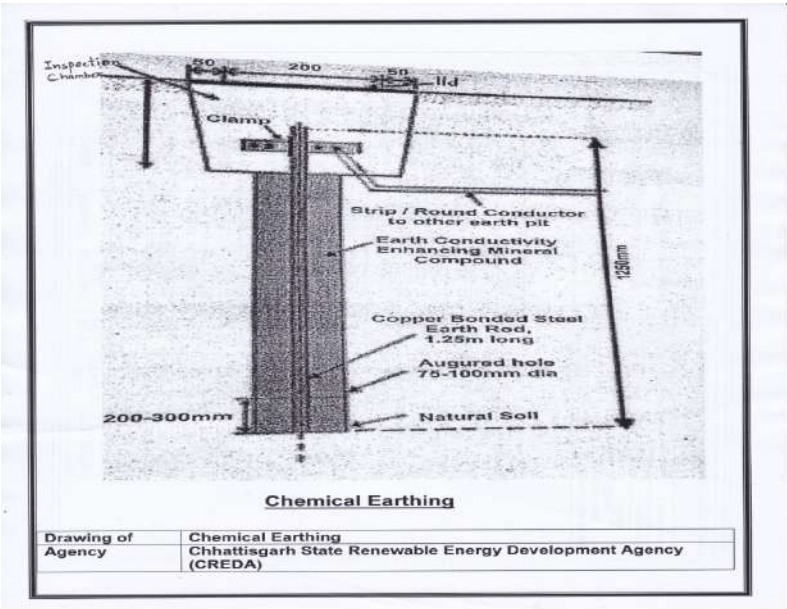
#### FABRICATION MATERIALS

- 1.Fabrication of 7.50 mtrs. GI Pole, with ISI "B" Class Pipe as per drawing and specification enclosed with all material
- 2.Fabrication of 5.70 mtrs. GI Pole, with ISI "B" Class Pipe as per drawing and specification enclosed with all material.
- 3.Fabrication of 5.75 mtrs GI Pole, with ISI "B" Class Pipe along with street light bracket as per drawing and specification enclosed with all material.
- 4.Fabrication of 8 mtrs. GI Pole, with ISI "B" Class Pipe along with street light bracket as per drawing and specification enclosed with all material.
- 5.Fabrication of 4.5,6,9 mtrs. GI Pole, with ISI "B" Class Pipe street light,pedestrian light,special pedestrian light along with street light bracket as per drawing and specification enclosed with all material.
- 6.Fabrication of GI. Pipe Street light bracket as per design & drawing specification.
- 7.Fabrication of Earthing coil made from 8 mm hot dip galvanized G.I. wire with 105 turn of 50 m inner dia and tail length 1.8 meter.
- 8 Fabrication of GI stay set complete with 1.3 meter stay rod, 200x200x5 mm stay plate, Eye bolt 400 mm and a turn buckle bow of 12 mm dia and 200 mm height, with 7/12 - 6 mt steel wire rope & "U" both with required nut bolt & washer as per drawing and specification with two coat primer of standard quality.
- 9 Fabricated cable fixture as per drawing:
  - Type – A
  - Type – B
- 10 G.I. pipe should be confirming to ISI "B" class specification.
11. Pole shall be properly capped from Top with GI. Cap and GI plate of size 225 x 225 x5 mm shall be welded at the bottom with one small hole.
- 12 Street light brackets and other accessories should be as per **enclosed** drawings and specification.
- 13.GI clamp for holding the ABC cable for transmission line.
- 14.All the galvanized material must be hot dipped galvanized (120 micron). .

DESIGN OF G.I. DRAWING AND DESIGN OF G.I. STAY SET, STREET LIGHT BRACKET, POLE, CABLE FIXTURE



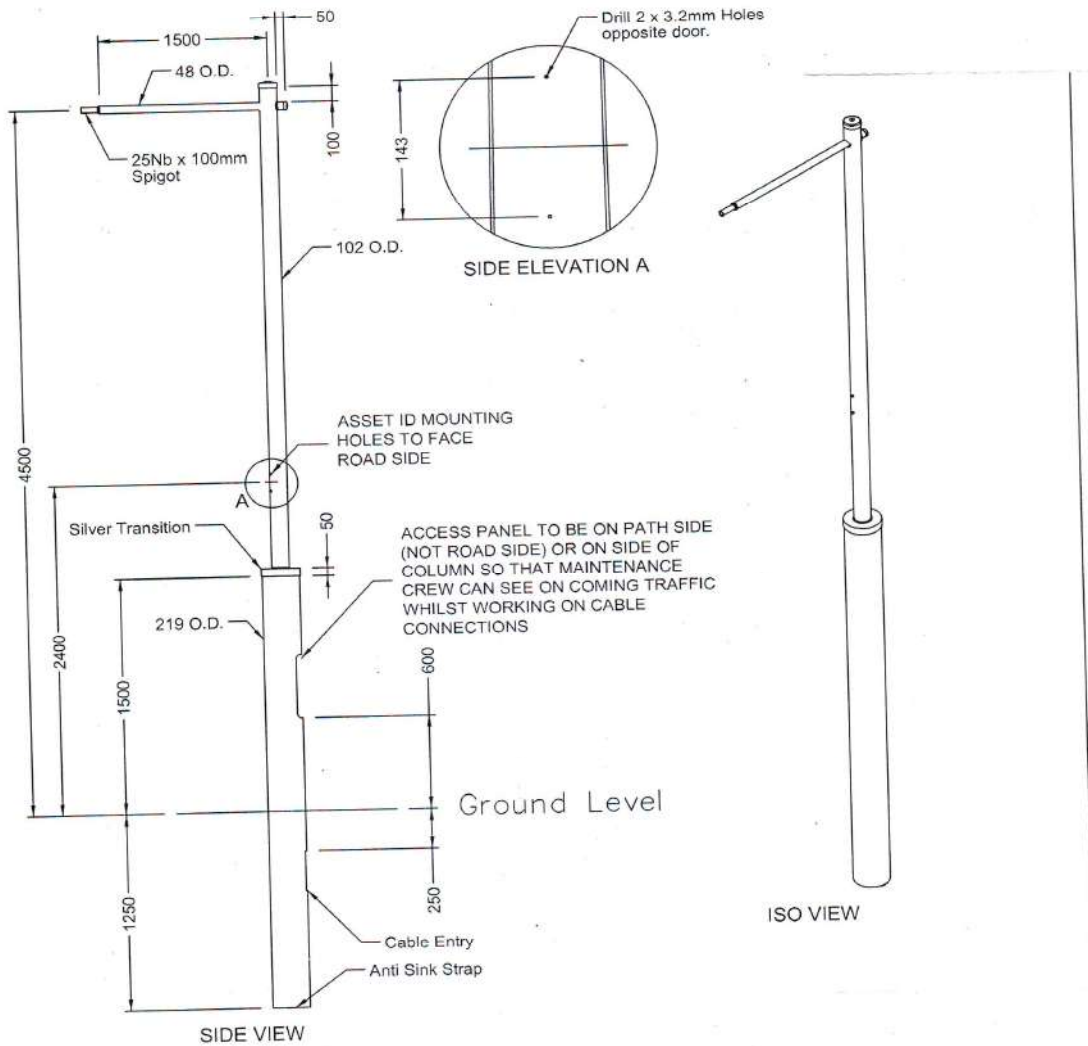
**DRAWING AND DESIGN OF CHEMICAL EARTHING AND CLAMP FOR CABLE**





**DRAWING OF ISI MARK G.I. POLE STREET LIGHT WITH STREET LIGHT BRACKET ,  
HEIGHT 5.75 Mtr Annex-05**

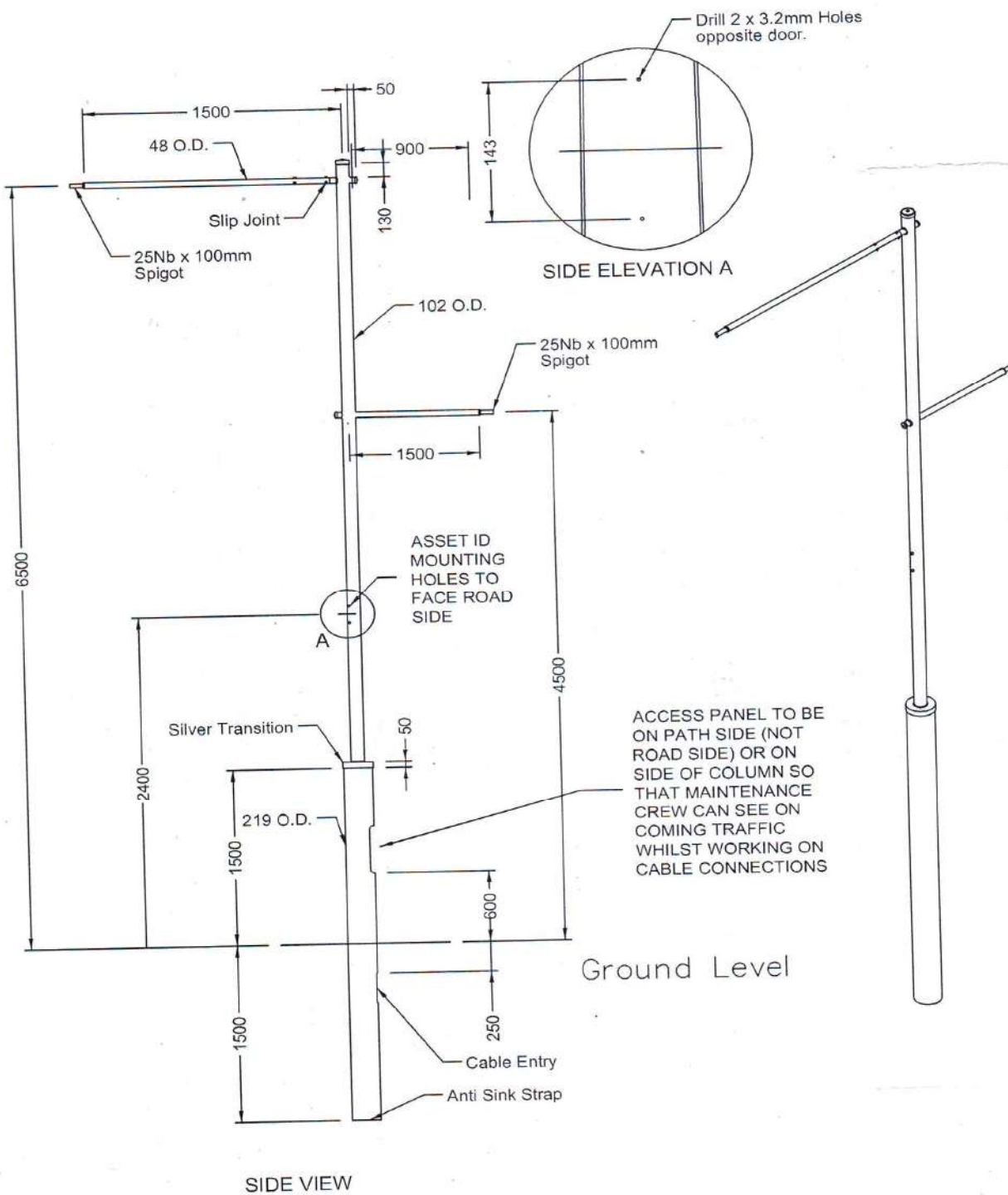
ALL DIMENSIONS IN MM



**DRAWING OF ISI MARK G.I. POLE WITH STREET LIGHT WITH BRACKET , HEIGHT 8 Mtr**

**Annex-06**

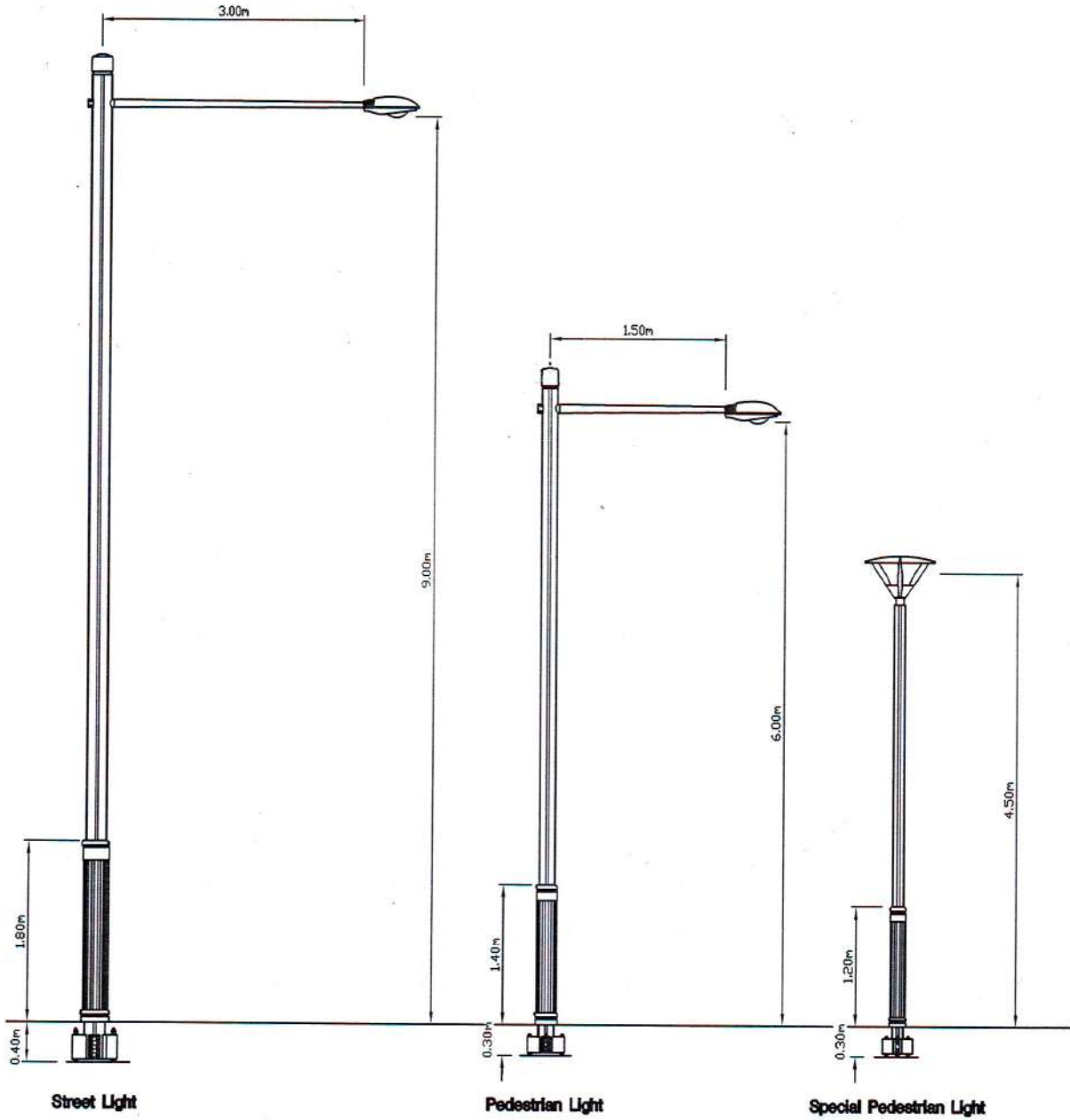
ALL DIMENSIONS IN MM



**DRAWING OF ISI MARK G.I. POLE STREET LIGHT, PADESTRIAN STREET LIGHT, SPECIAL PADESTRIAN LIGHT WITH STREET LIGHT BRACKET, HEIGHT 4.5 Mtr, 6Mtr, 9Mtr ABOVE GL**

ALL DIMENSIONS IN MM

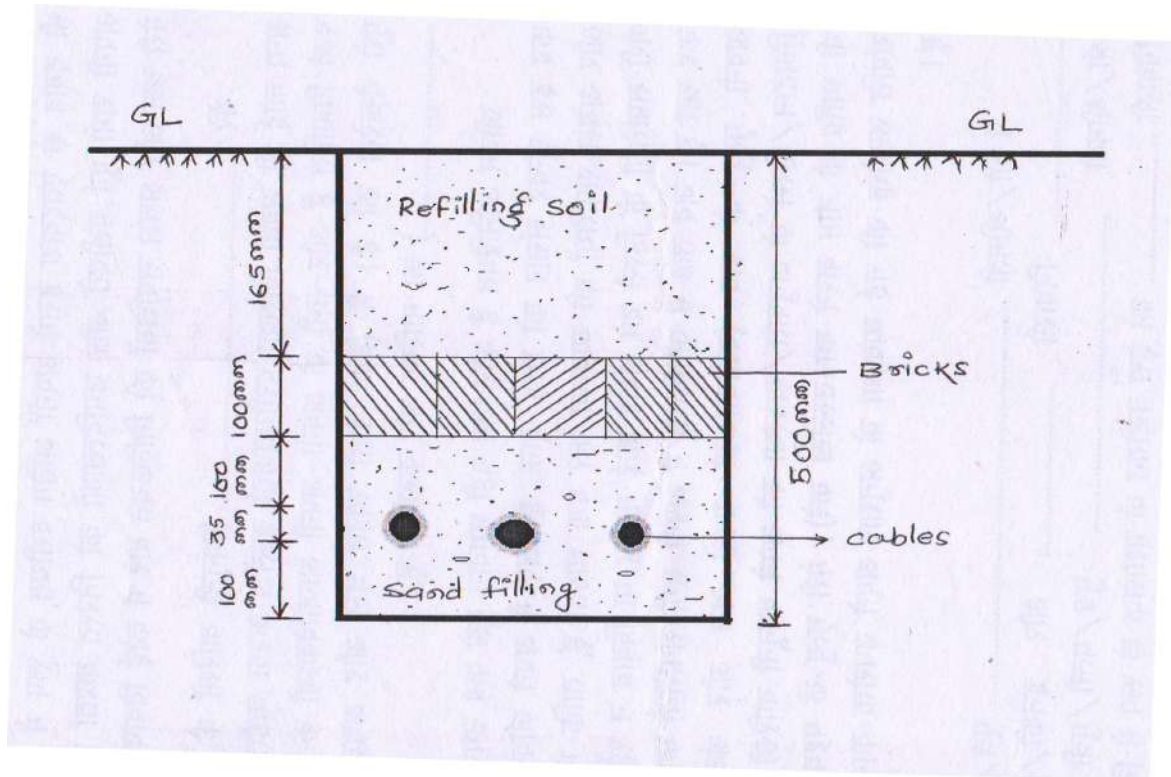
**Annex-07**





## Laying of cable in a trench

Indicative Drawing:-



Approved by CREDA

## 2.DRAFT AGREEMENT

CONTRACT AGREEMENT BETWEEN Chief Engineer Chhattisgarh State Renewable Energy Development Agency (CREDA) Raipur AND M/s..... Represented by ..... THIS CONTRACT AGREEMENT against Bid No.17737/CREDA/HOR/RE-III/AEAS/PDN FAB & CIVIL WORKS /2019-20 Dated : 15.01.2020 (also referred to as "Service Contract") is made on the XX<sup>th</sup> day of August 2020.

### BETWEEN

(1) Chief Engineer Chhattisgarh State Renewable Energy Development Agency (CREDA) Raipur a society incorporated under the laws Society Registration Act 1973 , (1973 , Sr. No. 44 ) (with amendment from time to time) and having its Registered Office at VIP Road Near Energy Education Park, Village- Fundhar, Raipur and (hereinafter called "The Employer" and also referred to as "CREDA" )

### And

(2) ..... Represented by .....a company incorporated under the laws of Companies Act 1956/2013/ Partnership firm/ Proprietorship firm/Consortium (as applicable, with amendment from time to time ) and having its Principal place of business at ..... and Registered Office at.....hereinafter called "The Contractor" and also referred to as "....."

Whereas the contractor has offered to enter into contract with the said CREDA for the "Standardization of rates for supply and installation of various fabrication items used in PDN works , PDN civil works for operation and maintenance in CREDA anywhere in the state of Chhattisgarh".

Wide Bid No. 17737/CREDA/HOR/RE-III/ AEAS/PDN FAB & CIVIL WORKS /2019-20 Dated : 15.01.2020 on the terms and conditions herein contained and the rates approved by the CREDA (Letter No. .... dated ..... annexed here to) have been duly accepted and where as the necessary security deposit shall be furnished in accordance with the provisions of the Bid document and whereas no interest will be claimed on the security deposits.

Now these presents witness and it is hereby agreed and declared by and between parties to these presents as follows -

- 1) The Contractor shall, during the period of this contract, that is to say from ..... to ..... or completion thereof, until this Contract shall be determined by such notice as is hereinafter mentioned, safely carryout, by means of labours employed at his own expenses and by means of tools, implements and equipment etc. to be supplied by him to his labour at his own expenses, for supply of "supply and installation of various fabrication items used in PDN works , PDN civil works" as described in Bid documents. (annexed to the agreement).
- 2) The NIT (Notice Inviting Bid), Corrigendum to NIT, Notices, Bid documents (Qualifying, Technical and Financial), approved rates annexed hereto and such other additional particulars, undertaking, instructions, general conditions of contract, Scope of work, Technical specifications of items/works and Annexures therein, engineering documents, detailed specifications of BOS , so far they relate to the Bid 17737/CREDA/HOR/RE-III/AEAS/PDN FAB & CIVIL WORKS /2019-20 Dated : 15.01.2020 as may be found requisite to be given during execution of the work shall be deemed and taken to be an integral part of the contract and shall also be deemed to be included in the expression "The Agreement or "The Contract "wherever herein used.
- 3) The contractor shall also supply the requisite number of workmen with means & materials as well as tools, appliances, machines, implements, vehicles for transportation, cartage etc. required for the proper execution of work within the time prescribed in the work orders and /or as per the Bid conditions.

- 4) The Engineer in Charge or his authorized representative (s) shall be entitled at all reasonable times to inspect and supervise and test during commissioning. Such inspection will not relieve the eligible bidder from their obligations under this contract.
- 5) Material can be inspected before dispatch or in transit by the authorized representatives of CREDA at the factory at the cost of the eligible bidder, if desired by CREDA. CREDA reserves right to inspect the material at Godowns / Temporary Stores before dispatch and also at works sites.
- 6) CREDA shall deduct TDS for Income Tax, applicable cess on Civil Work etc. under various acts and deposited with the appropriate authority. Costs and taxes before execution of agreement with CREDA so as to ensure tax deposition as per Government Rules accordingly.

7) **ELIGIBLE SYSTEM INTEGRATOR'S DEFAULT LIABILITY -**

CREDA may by written notice of default to the eligible bidder, terminate the contract in circumstances detailed hereunder -

- (a) If in the opinion of the CREDA, the eligible bidder fails to complete the supply/work within the time specified in the supply/work Order or within the period for which extension has been granted by CREDA to the eligible bidder.
- (b) If in the opinion of CREDA, the eligible bidder 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 bidder or agency upon such terms and in such a manner as it may deem appropriate and the eligible bidder shall be liable to CREDA for any additional costs or any losses caused to CREDA as may be required for the supply of Items and or for penalty as defined under this Bid 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 eligible bidder shall continue performance of the contract, in which case he shall be liable to CREDA for penalty for delay as set out in this Bid document until the work is completed.

8) **FORCE MAJEURE -**

The eligible bidder shall not be liable for any penalty for delay or for failure to perform the contract for reasons of FORCE MAJEURE such as of God, acts of public, enemy, LWE problems, acts of government, cyclone, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes provided that if SI shall submit delay notice with appropriate cause of delay to the CREDA in writing within **15 days** of force majeure. CREDA shall verify the facts and may grant such extension as facts justify. Delay in supply of any accessories of Items etc. by the related vendors, to whom the Bidder 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 eligible bidder is found defective in material or workman ship or otherwise not in conformity with the requirements of this contract specifications, CREDA shall either reject the material and/or work and advise the eligible bidder to rectify the same. CREDA may impose penalty for such rejection up to the 200% cost of the entire system. Habitual/repeated offenders shall be black listed/debarred to participate in the any Bid/ Activity of CREDA till further orders. The eligible bidder on receipt of such notices shall rectify or replace the defective material and rectify the work free of cost. If the eligible bidder fails to do so CREDA may -

- a) At its option replace or rectify such defective materials and/or work and recover the extra cost so involved from the eligible bidder plus **15%** service charges of the cost of such rectification, from the eligible bidder and/ or terminate the contract for balance work/ supplies with enforcement of penalty as stated above.
- b) Defective materials/workmanship will not be accepted under any conditions and shall be rejected outright without compensation. The eligible bidder shall be liable for any loss/damage sustained by CREDA due to defective work **with enforcement of penalty as stated above.**

**10) EXTENSION OF THE TIME -**

If the completion of installation is delayed due to any reason beyond the control of the eligible bidder, the eligible bidders 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 or may not agree to extend the contract/delivery/completion date of the items/works as may be reasonable but without prejudice to other terms and conditions of the contract.

**11) PENALTY FOR DELAY IN COMPLETION OF CONTRACT -**

If the eligible bidder fails to complete the assigned work within the schedule time specified in the Work Order or any extension granted there to, CREDA will recover from the SI as penalty a sum of **One per cent (1%)** of the system price for every delayed supply per month. For this purpose, the date of taking over shall be reckoned as the date of completion. The total penalty shall not exceed **5% (Five Per cent)** of the cost.

Review of the progress of supply of Items allocated to bidders shall be done time to time by CREDA and if the progress of supply is found unsatisfactory, the allocation of entire remaining supply/works or their part can be re-allocated to other bidder as per discretion of CREDA.

**12) PENALTY DUE FROM THE ELIGIBLE BIDDER-**

All costs of damages and delays for which the eligible bidder is liable to the CREDA will be deducted from any money due to the eligible bidder including the security deposit of any project under CREDA.

**13) ELIGIBLE SI'S RESPONSIBILITY -**

Notwithstanding anything mentioned in the specifications of subsequent approval or acceptance of the items/works by CREDA, if any, the ultimate responsibility for satisfactory performance of the entrusted work shall rest with the eligible bidder. If in any case the eligible bidder 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 risk and cost of eligible bidder.

**14) RESPONSIBILITY TO RECTIFY THE LOSS AND DAMAGE -**

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

**15) RESPONSIBILITY TOWARDS THE WORKMAN OR OUTSIDERS -**

- The eligible bidder 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 Work Order.
- The eligible bidder 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 eligible bidders. The eligible bidder shall also be responsible for any claims of the workers including PF, Gratuity, ESI & other legal obligations.
- Bidder shall have to submit JCCs within **60 days** after supply of Items in District Office of CREDA.

- 16) Contractor shall provide 05 years warranty in supplied items and 01 years warranty in works from the date of supply as per the terms & conditions prescribed in the Bid No XXXX/CREDA/HOR/RE-III/ AEAS/PDN FAB & CIVIL WORKS /2020 Dated : XX.XX.2020 )
- 17) **DECLARATION OF CONFLICT OF INTEREST** - The bidder hereby declares that nobody connected with or in the employment of **CREDA** is not/shall not ever be admitted as partner in the contract.
- 18) (a) The contractor shall arrange insurance coverage for the materials and Items/works at his/ for the supply under execution and successful commissioning and subsequent handover to the CREDA. The 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.  
 (b) Bidder shall arrange for insurance coverage for Items during warranty. Insurance should cover for damage and theft. In case of such incidence, bidder must replace the lost/damaged part within 7 days.
- 19) The bidder shall abide by the terms and conditions, rules, guidelines, construction practices, safety precautions etc. stipulated in the Bid document including any correspondence between the bidder and the **CREDA** having bearing on execution of supply/works and payments of supply/works to be done under the contract.
- 20) The Bidder shall be responsible to follow all the laws including Workmen Compensation Act and all other laws in force & shall be responsible for all the obligations towards labour including EPF, ESI, etc.
- 21) All the taxes deductible at source as per Acts in vogue shall be recovered by **CREDA** and deposited with the appropriate authorities
- 22) Contractor agrees to abide by any decision/instruction passed by the appropriate authority under Anti-profiteering rules notified by the state/central government under GST act.
- 23) Any dispute arising out of the contract shall be subject to the jurisdiction of Hon'ble High Court of Chhattisgarh.

**"Herewith everything and anything contained in Bid document no. 17737/CREDA/HOR/RE-III/AEAS/PDN FAB & CIVIL WORKS /2019-20 Dated : 15.01.2020 is part of this agreement which has been dully signed by both bidder and authorised signatory of CREDA".**

In witness whereof the parties present today has hereby entered into agreement.

**Signed & sealed on behalf of the above**

**Named contractor**

Name :

Designation :

**Signed on behalf of CREDA**

Name: **Rajiv Khare**

Designation: **Chief Engineer**

**Witness:**

1. Name:-.....

2.Name:-

.....

Address:-.....

Address:-

.....

.....

.....

### 3.SCHEDULE - I

#### PART 'A': GENERAL INFORMATION

(Strike off whichever is not applicable. Separate sheets should be used, wherever necessary)

- |            |   |   |                      |
|------------|---|---|----------------------|
| <b>01.</b> | Name & Address of the Bidder  | : |                      |
| <b>02.</b> | Name & Address of the firm/Company etc.   | : |                      |
|            | a) Registered office  | : |                      |
|            | b) Factory/works address  | : |                      |
|            | c) Fax Nos.   | : |                      |
|            | d) Telephone / Mobile Nos.  | : |                      |
|            | e) Email id   | : |                      |
| <b>03.</b> | Confirm whether Bidder is Manufacturer  | : | Yes/No               |
| <b>04.</b> | Only manufacturer to give following particulars   |   |                      |
|            | a) Address of factory   | : |                      |
|            | b) Year of starting manufacture   | : |                      |
|            | c) Whether same/similar materials<br>Manufactured earlier<br>(if yes, give reference)                 | : |                      |
|            | d) Yearly/monthly production capacity   | : |                      |
|            | e) Maximum yearly production<br>Achieved so far   | : |                      |
| <b>05.</b> | Whether the firm is SSI Unit of<br>Chhattisgarh State:  | : | Yes/No               |
|            | a) If yes, write registration No.   | : |                      |
|            | b) Whether documentary evidence<br>Regarding registration enclosed                                    | : |                      |
|            | c) Items for registration   | : |                      |
|            | d) Period of registration   | : |                      |
|            | d) Whether latest copy Competency/<br>Certificate furnished   | : | Yes/No               |
| <b>06.</b> | Whether the firm is 100% owned by   |   |                      |
|            | a) State Government   | : | Yes/No               |
|            | b) Central Government   | : | Yes/No               |
|            | If yes, Notification/certificate issued from<br>The competent authority to this effect is<br>Enclosed | : | Yes/No               |
| <b>07.</b> | a) Whether the bidder is old participant<br>with CREDA  | : | Yes/No               |
|            | b) If yes, whether documentary<br>Evidence is enclosed.   | : | Yes/No               |
| <b>08.</b> | Any other information that bidder may like<br>to give in order to highlight his bid                   | : | If yes, give details |

PLACE :

**SIGNATURE OF BIDDER**

NAME IN FULL

DATE :

DESIGNATION/STATUS

FIRM/COMPANY SEAL



**4.SCHEDULE - II**

**PART 'B' : COMMERCIAL INFORMATION**

(Strike off, whichever is not applicable. Separate sheets should be used. Wherever necessary)

- 01. i) Earnest Money Details : Bank draft/Bankers cheque payable to "CREDA", Raipur
- ii) Amount of E.M.D. & full details : ` .....
- iii) If exempted, state whether the bidder i / Fully Owned State/Central Govt. Unit : SSI Unit of C.G.
- iv) Reference of documentary evidence regarding exemption enclosed. : Yes/No
- 02. Whether the offer is valid for 6 months from the date of opening of commercial/technical bid. : Yes/No
- 03. Rate of Sales Tax on the date of bid (exclusive in the rate quoted) :
- 04. **DISCOUNT:**
  - a) Whether any rebate/discount is offered. : Yes/No
  - b) If yes, whether the rebate is unconditional/conditional : Yes/No  
Rate/amount of rebate/discount
  - c) If conditional State condition : Yes/No
- 05. **PAYMENT TERMS:**  
Whether CREDA's terms of payment is acceptable to Bidder : Yes/No
- 06. **COMPLETION PERIOD OF WORK:**  
Whether Bidder is agreeing for completion period of work as Specified in the Bid : Yes/No
- 07. **PENALTY CLAUSE:**  
Whether agreeable to CREDA's Penalty Clause : Yes/No
- 08. Whether agreeable to CREDA's clause of warrantee period : Yes/No
- 09. **SECURITY DEPOSIT:**  
Whether Security Deposit clause is understood : Yes/No
- 10. Indicate State, Central Sales Tax Registration NumberState : Yes/No  
Central:  
(Please Note that in case of non-registration with Commercial Tax, Department Purchase Tax as admissible shall be deducted by the Purchaser from the Bills of the supplier)
- 11. Please mention whether rates offered are applicable for part quantities. : Yes/No

PLACE:

**SIGNATURE OF BIDDER**

DATE:

NAME IN FULL

DESIGNATION/STATUS

FIRM/COMPANY SEAL

**5.SCHEDULE - III**

**PART 'C' : TECHNICAL INFORMATION**

(Strike off whichever is not applicable. Separate sheets should be used. Wherever necessary)

- 01. Whether material offered is exactly as per technical specification : Yes/No
- 02. Whether the copies of completion certificate received during last 3 years from other State Nodal Agency or from other Organization for supply of inverters (if yes, give details) enclosed. : Yes/No
- 03. Whether pamphlets/technical details literatures along with drawing etc. furnished with the offer : Yes/No (if yes, give details)
- 04. Whether the Bidder agrees to furnish material test certificates in respect of chemical composition and physical properties from Govt./ Govt. approved lab with each batch of supplies. : Yes/No
- 05. Whether the Bidder has furnished details of manufacturing equipments and short history of plant :Yes/No (if yes, give details)
- 06. Whether details of manufacturing process furnished with offer. : Yes/No (if yes, give details)
- 07. a) Whether all testing facilities are available. :Yes/No  
If so, give details and in case of non-availability of facilities indicate approved lab available in surrounding areas where tests are proposed to be conducted.

PLACE

**SIGNATURE OF BIDDER**

DATE

NAME IN FULL

DESIGNATION/STATUS

FIRM/COMPANY

SEAL



**6.SCHEDULE - IV**

**TECHNICAL DEVIATIONS**

From,  
**Bidder Name & Address -**

To,  
**The CE,  
 CREDA, HO,  
 Raipur**

**Sub – Technical Deviations.**

**Dear Sir,**

The technical deviations & variations to the specifications stipulated in the Bid, for the item quoted are as under –

S.No	Condition and deviation	Clause no of Bid document	Page no of Bid document	Statement of Variation

2. Except aforesaid deviations, the entire order, if placed, on us shall be executed in accordance with your specifications and other conditions. Variation/deviations etc. if found, elsewhere in our offer should not be given any considerations while finalizing the Bid.

PLACE

**SIGNATURE OF BIDDER**

DATE

NAME IN FULL

DESIGNATION/STATUS

FIRM/COMPANY SEAL

**NOTE** - Continuation sheet of like size & format may be used as per bidder's requirements and shall be annexed to this schedule.

**7.SCHEDULE - V**

**PAST EXPERIENCE**

**From :**

Bidder's Name & Address -

To,

**The CE,**

**CREDA, HO,**

**Raipur**

**Sub – Performance/Past Experience.**

**Dear Sir,**

We furnish herewith the record of our performance and experience as follows -

-----

-

<b>Sl.No.</b>	<b>Purchaser's Name &amp; Address</b>	<b>Order No. Date</b>	<b>Ordered Quantity</b>	<b>Qty. supplied (Nos.)</b>	<b>Value of Order</b>
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-

PLACE

**SIGNATURE OF BIDDER**

DATE

NAME IN FULL

DESIGNATION/STATUS

FIRM/COMPANY SEAL

**NOTE** - Photocopy of the completion certificate received from other State Agencies/Govt. Undertakings etc. should be enclosed.

**8.ANNEXURE – 10**

**(EXPERIENCE CERTIFICATE ON THE OFFICIAL LETTER HEAD OF CONCERNED GOVERNMENT DEPARTMENT WITH SEAL AND SIGN BY AUTHORIZED SIGNATORY)**

Ref. No.....

Date.....

**CERTIFICATE OF SUPPLY AND PDN WORKS**

This is to certify that **Name of Bidder, Address of Registered Office** has successfully completed the supply/works of ..... Items/works against various Sanction of Name of Agency at various locations in.....State, as per following details –

Details of Works/Supply	Year	Total Value of work (In Rs.)	Remarks
<b>Total -</b>			

The workmanship and performance of the above Items/work are found satisfactory and are in successful operation.

**Seal & Sign  
(Authorised Signatory)**

**END**