



आरोग्यम् परमं सुखम्

## ALL INDIA INSTITUTE OF MEDICAL SCEINCES DEOGHAR

**Name of Work:- “(Comprehensive Maintenance of Electrical Services of Substation-1, 2 and 3 & Centralised UPS at AIIMS Deoghar)**

**FEB-2026**

**TENDER DOCUMENT**

**ALL INDIA INSTITUTE OF MEDICAL SCEINCES DEOGHAR  
(JHARKHAND)**

**INDEX**

**Name of Work: “Comprehensive Maintenance of Electrical Services of Substation-1, 2 and 3 & Centralised UPS at AIIMS Deoghar.**

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# ALL INDIA INSTITUTE OF MEDICAL SCIENCES DEOGHAR (JHARKHAND)

## 1. Notice Inviting e-Tender

Executive Engineer (Electrical), All India Institute of Medical Sciences, Deoghar, on behalf of Executive Director, AIIMS Deoghar, invites Item Rate E- tender as prescribed tender documents under two bid system (Technical and Financial Bid) for the work of “**Comprehensive Maintenance of Electrical Services of Substation-1, 2 and 3 & Centralised UPS at AIIMS Deoghar**” of AIIMS Deoghar; from the eligible and interested bidders who are well equipped, experience, financially sound contractors/firms for the following works. Tender notice available on

URL:<https://eprocure.gov.in/eprocure/app>

a)	Bidding Document No.	31/EE/AIIMS/Deo/2025-26
b)	Name of Work	“ <b>Comprehensive Maintenance of Electrical Services of Substation-1, 2 and 3 &amp; Centralised UPS at AIIMS Deoghar</b> ”
c)	Estimated cost put to the Tender	<b>Rs.2,93,86,988/-</b> (Rupees Two Crore Ninety-Three Lakh Eighty-Six Thousand Nine Hundred Eighty-Eight only).
d)	Duration of contract:	1 Years (12 Months) likely to be extended for 1 years at a time.
e)	Cost of Tender document.	NIL
f)	Earnest Money Deposit (EMD)	<p>Earnest money Deposit (EMD) of Rs.5,87,740/- (Five lakh Eighty-Seven thousand Seven Hundred Forty only) to be deposited in the institute’s account through SBI i-collect and the receipt of submission is to be uploaded along the technical bid documents. For details regarding submission of EMD</p> <p style="text-align: center;"><b>Bank Details for EMD:</b>  Bank Name: State Bank of India  IFSC code: SBIN0064014  Account No.: 41792595056  <b>OR</b></p> <p>Payment: contractor/ vendors/ bidders must provide EMD Payment: Earnest Money Deposit (EMD) is to be deposited in form of <b>FDR /DD/ Bank guarantee</b> from scheduled commercial banks in favor of AIIMS Deoghar. Submit the details of EMD payment at the time of Bid Preparation.</p> <p style="text-align: center;">EMD Value: <b>5,87,740/-</b></p> <p>EMD is exempted for those who have registered with</p>

		MSME in appropriate category. Rest of the participants who are not registered with MSME, any tender received without EMD as specified in the document will not be considered and will be summarily rejected. The EMD shall be valid for minimum period of 180 days from the last day of submission of tender.
g)	Bid Submission Start Date and Time	25.02.2026, 17:00 hr
h)	Bid Submission End Date and Time	23.03.2026, 15:00 hr
i)	Date and Time for Opening of Bids (Technical Bid)	24.03.2026, 15:00 hr
j)	Pre-Bid Meeting	09.03.2026, 15:30 hr Pre-Bid Meet: The pre bid meeting would be held on <b>09/03/2026, 03:30 PM at Conference Room, AIIMS Deoghar, Jharkhand-814152</b> . All firm's representative who are attending the pre bid meeting, shall produce ID & authorization letter from their firm on the firm's letter head. They are required to put their query in writing before the committee and submit the same in writing on its letterhead before the date of pre bid. Bidders are advised to visit the site & assess the site conditions before participating in TE. Queries raised after pre bid meet will not be entertained.
j)	Defect Liability Period	One Year from the date of completion.
k)	Validity of Offer	180 Days from the date of opening of price bid
l)	Address for Communication	Executive Engineer (Electrical) All India Institute of Medical Sciences, Deoghar-814152 Ph: - 9954858891 E-mail: - <a href="mailto:engineering@aiimsdeoghar.edu.in">engineering@aiimsdeoghar.edu.in</a>
The tender document can also be downloaded from website. Corrigendum, if any would appear on the <a href="http://www.eprocure.gov.in/eprocure/app">www.eprocure.gov.in/eprocure/app</a> and AIIMS Deoghar website. AIIMS Deoghar reserves the right to reject any or all the tenders in part or full without assigning any reasons thereof.		

## **2. INSTRUCTIONS FOR ONLINE BID SUBMISSION**

The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal. More information useful for submitting online bids on the CPP Portal may be obtained at <https://eprocure.gov.in/eprocure/app>

### **REGISTRATION**

- 1) Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal([URL:https://eprocure.gov.in/eprocure/app](https://eprocure.gov.in/eprocure/app)) by clicking on the link "Online bidder Enrollment" on the CPP Portal which is free of charge.
- 2) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- 3) Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
- 4) Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g., Sify /n Code / e Mudhra etc.), with their profile.
- 5) Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSCs to others which may lead to misuse.
- 6) Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC/e-Token.

### **SEARCHING FOR TENDER DOCUMENTS**

- 1) There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a tender published on the CPP Portal.
- 2) Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective 'My Tenders' folder. This would enable the CPP Portal to intimate the bidders through SMS / email in case there is any corrigendum issued to the tender document.
- 3) The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification/help from the Helpdesk.

### **PREPARATION OF BIDS**

- 1) Bidder should take into account any corrigendum published on the tender document before submitting their bids.
- 2) Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.

3) Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF/JPG formats. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.

4) To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "My Space" or "Other Important Documents" area available to them to upload such documents. These documents may be directly submitted from the "My Space" area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

Note: My Documents space is only a repository given to the Bidders to ease the uploading process. If Bidder has uploaded his Documents in My Documents space, this does not automatically ensure these Documents being part of Technical Bid.

## **SUBMISSION OF BIDS**

1) Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.

2) The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.

3) Bidder has to select the payment option as "online" to pay the tender fee / EMD as applicable and enter details of the instrument.

4) Bidder should prepare the EMD (if applicable) as per the instructions specified in the tender document.

5) Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BoQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BoQ file, open it and complete the white colored (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BoQ file is found to be modified by the bidder, the bid will be rejected.

6) The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.

7) All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128-bit encryption technology. Data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid opener's public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.

7) The uploaded tender documents become readable only after the tender opening by the authorized bid openers.

8) Upon the successful and timely submission of bids (i.e. after Clicking “Freeze Bid Submission” in the portal), the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.

9) The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.

### **ASSISTANCE TO BIDDERS**

1) Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.

2) Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk.

## **3. Information and instructions for Bidder**

### **INFORMATION AND INSTRUCTIONS FOR CONTRACTORS FOR e- TENDERING FORMING PART OF NIT AND TO BE POSTED ON WEBSITE.**

- a. Information and instructions for Contractors will form part of NIT and to be uploaded on AIIMS Deoghar website.
- b. The bid document consisting of scope of works and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website <http://www.eprocure.gov.in/eprocure/app>. But the bid can only be submitted after uploading the mandatory scanned documents such as EMD and other documents as per tender document.
- c. The Draft information and instructions to Contractors may be modified suitably by NIT approving authority as per requirement.
- d. The bidder must ensure to quote rate for each items separately in the specified column. If any column of rate against any item remains left blank by the bidder, it shall be treated that the bidder has quoted nil rate for that and the item will be executed by the bidder free of cost.
- e. AIIMS Deoghar shall not be responsible for non-receipt bid due to internet issues or any other reasons.
- f. The work is estimated to cost Rs. **2,93,86,988/-**. This estimate however, is given merely as a rough guide.
- g. Tender documents consisting of specifications, schedule of quantities of the various classes of work to be done and the set of terms & conditions of contract to be complied with by the contractor whose tender may be accepted and other necessary documents can be seen on website <http://www.eprocure.gov.in/eprocure/app>.

- h. The information and instructions for tenderers/bidders posted on the web-site shall form part of bid/tender documents.
- i. The bid can only be submitted after scanning and uploading the mandatory details within the period of tender submission as per critical data sheet.
- j. The documents submitted shall be opened as per scheduled time mentioned.
- k. Online bid documents submitted by intending bidders shall be opened only of those bidders, whose Earnest Money Deposit (EMD if applicable) placed are found in order.
- l. AIIMS Deoghar will deduct a sum at the rate of 5% of the gross amount of each running bill of the contractor as security deposit (total 10% including 5% performance security). Security deposit shall be refunded after defects liability period.
- m. The successful bidder has to submit a performance guarantee (P.G.) of 5% of the tender amount within 10 days from the date of issue or letter of Acceptance (LOA). The guarantee shall be in the form of DD/BG/FDR of any schedule bank in favour of Executive Engineer (Electrical), AIIMS Deoghar, payable at AIIMS Deoghar.
- n. There shall be defect liability period of One Year from date of successful completion/handover. During defect liability period, contractor has to rectify/replace defected items.
- o. Tenderers are advised to 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 on any misunderstanding or otherwise shall be allowed. The tenderer shall be responsible for arranging and maintaining at his own cost all materials, 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 this notice 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. will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.
- p. The competent authority does not bind itself to accept the lowest or any other tender and reserves the right to reject any or all the tenders received without the assignment of any reason. All tenders in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the tenderers shall be summarily rejected.
- q. Canvassing whether directly or indirectly, in connection with tenders is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable to rejection.

- r. Tender for the works shall remain open for acceptance for a period of One hundred and Eighty days (180) from the date of opening of tenders. If any tenderer withdraws his tender before the said period or issue of letter of acceptance, whichever is earlier, or makes any modifications in the terms and conditions of the tender which are not acceptable to the Institute, then the Institute shall, without prejudice to any other right or remedy, be at liberty to forfeit 100% of the said earnest money as aforesaid. Further the tender shall not be allowed to participate in the re-tendering process of work.
- s. In case the contractor fails to commence the work specified in the tender documents on 7th day or such time as may be mentioned in the letter of award or from the date of handing over the site wherever is later, the Institute shall, without prejudice to any other right or remedy, be at liberty to forfeit whole of the earnest money absolutely.
- t. The bidders may contact to Executive Engineer (Electrical), AIIMS Deoghar (Email- [omprakash.es@aiimsdeoghar.edu.in](mailto:omprakash.es@aiimsdeoghar.edu.in) ) for any clarification during the office hrs.
- u. The Bidder(s) may note that ONLINE BIDS will ONLY be accepted. All the requisite supporting documents mentioned in the bid document should and must be uploaded. The Bids sent through FAX, E-mail, by hand and/or by post shall not be accepted /processed in any case.
- v. In case, holiday is declared by the Government on the day of opening the bids, the bids will be opened on the next working day at the same time. The AIIMS Deoghar reserves the right to accept or reject any or all the tenders.
- w. Conditional tenders will be summarily rejected.

#### **4. Eligibility Criteria:**

**# Contractors/vendors who fulfill the following requirements shall be eligible to apply:**

- **The joint ventures are not accepted.**

a) Experience of having completed during the last 7 years in Central/any State Government Organization/Central Autonomous Body/Central Public Sector undertakings/Railway/Reputed private organizations listed in National Stock Exchange, following 'similar works' ending last day of the month previous to the one in which applications invited:

Three similar works costing not less than the amount equal to 40% of the estimated cost.

OR

Two similar works costing not less than the amount equal to 60% of the estimated cost.

OR

One similar work costing not less than the amount equal to 80% of the estimated cost.

**The "Similar work "shall mean "Operation and Comprehensive maintenance of Electric Sub-station not less than 33 KV"**

- A Completion certificate from Client must be submitted by the bidder along with BOQ/Agreement/Work order.

b) Should have **average annual financial turnover amounting at least 50% of the estimated cost** of the work during the last three consecutive financial years ending on 31.03.2025 duly audited and certified by a Chartered Accountant.

c) The bidder has to comply all statutory rules with regards to PF/ESIC/minimum labour wages as per respective rules and has to submit EPF and ESIC registration certificate.

d) Earnest money Deposit (EMD) of **Rs. 5,87,740/-** (Five lakh Eighty-Seven thousand Seven Hundred Forty only) to be deposited in the institute's account through SBI i-collect and the receipt of submission is to be uploaded along the technical bid documents. For details regarding submission of EMD.

**Bank Details for EMD:**

**Bank Name: State Bank of India**

**IFSC code: SBIN0064014**

**Account No.: 41792595056**

OR

Payment: contractor/ vendors/ bidders must provide EMD Payment: Earnest Money Deposit (EMD) is to be deposited in form of **FDR /DD/ Bank guarantee** from scheduled commercial banks in favor of **AIIMS Deoghar** payable at Deoghar. Submit the details of EMD payment at the time of Bid Preparation.

**EMD Value: Rs.5,87,740/-**

**Note:** EMD is exempted for those who have registered with MSME in appropriate category related to similar nature of work. Rest of the participants who are not registered with MSME, any tender received without EMD as specified in the document will not be considered and will be summarily rejected.

The EMD shall be valid for minimum period of 180 days from the last day of submission of tender.

- e) The bidder has to submit Electrical Contractor License with the submission of tender.
- f) Scanned copy of original banker's certificate, amounting of 40% of estimated cost, issued by any scheduled bank, not older than six months.

5) List of Documents to be uploaded along with technical bid:

- a) Scanned copy of printout of EMD submission.
- b) Scanned copy of Experience certificates.
- c) Scanned copy of GST No and Scanned copy of Pan Card.
- d) Scanned copy of Average Annual Turnover certificate duly certified by CA or Audited Annual Accounts for last three financial years i.e.2022-23, 2023-24 and 2024-25.
- e) Scanned copy of EPF & ESIC registration certificate.
- f) Scanned copy of Electrical Contractor License.
- g) Scanned copy of Annexure-I to VI.

Note: -Technical Bid will be evaluated along with above mentioned documents/credential.

**6. Checklist**

S.no.	Information for bidder	Remarks	Refer page no. of submitted bid
1	Duly signed with company seal on each Page of Notice Inviting Tender (& its corrigendum if any)	Yes/No	
2	Earnest Money Deposited	Yes/No	
3	Whether three similar works each of value not less than 40% of the estimated cost put to the tender OR two similar works each of value not less than 60% of the estimated cost put to Tender OR One similar works each of value not less than 80% of the estimated cost put to Tender with completion certificate along with purchase/work order (details provided)	Yes/No	
4	Work Completion Certificate of Similar Work	Yes/No	
5	Copy of EPF & ESIC registration certificate.	Yes/No	
6	Copy of PAN Card	Yes/No	

7	Annual Financial Turnover should be at least 50% of the estimated cost put to tender and Average financial turnover during the immediate last three consecutive financial years, duly audited. And certified by the chartered Accountant	Yes/No	
8	Copy of GST Registration	Yes/No	
9	Banker Certificate should be no more than 6-month-old.	Yes/No	
10	Integrity Pact (duly filled & signed)	Yes/No	
11	Annexure-I (duly filled & signed)	Yes/No	
12	Annexure-II (duly filled & signed)	Yes/No	
13	Annexure-III (duly filled & signed)	Yes/No	
14	Annexure-IV (duly filled & signed)	Yes/No	
15	Annexure-V (duly filled & signed)	Yes/No	
16	Annexure-VI (duly filled & signed)	Yes/No	
17	Check list filled (duly filled & signed)	Yes/No	

## **7) General terms and Conditions**

- 1) No interest will be payable by the AIIMS Deoghar on the Earnest Money Deposit. The earnest money of all the unsuccessful tenderers will be returned to them at the earliest.
- 2) Engaged manpower should not be paid less than minimum wages and allowances notified by Govt. time to time. Wage payment details of engaged manpower should be furnished to AIIMS DEOGHAR when asked. Agency must follow the all-labour relevant act and regulation. Compensation if any shall be paid by the Agency.
- 3) At any stage, if it is opined by AIIMS DEOGHAR Authority that the agency is not performing satisfactorily as per bid requirement, AIIMS DEOGHAR reverses right to terminate the contract as deemed fit after giving 7 days' notice. In such a situation, AIIMS may engage another agency on contractor's Risk and Cost. The security deposit of the agency will be forfeited by the Institute, if agency leaves the contract before contract ending period or non-completion of the full contract.
- 4) All safety measures will be the responsibility of agency at their own cost. The agency will be solely held responsible for any accident occurring due to non-compliances of safety measures.
- 5) AIIMS DEOGHAR reserves the right to reject any tender/bid wholly or partly without assigning any reason.
- 6) AIIMS DEOGHAR shall have the right to verify the particulars furnished by the bidder independently.
- 7) Additional conditions specifications, if any, forming the tender as issued at the time of invitation of tender and acceptance thereof together with any correspondence leading thereto.
- 8) The acceptance of a tender will rest with the Competent Authority AIIMS Deoghar who does not bind him to accept the lowest tender and reserves to himself the, authority to reject any or all the tenders received without the assignment of any reason. All tenders in which any of the prescribed conditions are not fulfilled or are incomplete in all respects are liable to be rejected.
- 9) The rates quoted against work should be for the complete finished item of Work and include all labour, material, taxes, overhead, duties, cess, insurance etc. GST or any other tax in respect of this Contract shall be payable by the contractor and AIIMS DEOGHAR will not entertain any claim whatsoever in this respect. So, the rates are to be quoted are inclusive of all taxes.
11. Rate are also inclusive of payment to the Labour Department in accordance with the prevailing Labour law, including all statutory liability fixed by the Labour commissioner or any other law enforcement agency.
12. Agency shall be solely responsible for payment of wages/salaries and allowances to their personnel as per the rules or act applicable under government order. All central, state, local laws & bye laws applicable will be obeyed by the agency.

13. Without taking prior approval from the AIIMS DEOGHAR/Engineer-in -charge, no fittings/materials will be removed for the purpose of repairs/replacement.
14. The agency shall further keep the AIIMS DEOGHAR/Engineer-in-charge indemnified against any loss to the AIIMS DEOGHAR property and assets. The AIIMS DEOGHAR shall have further right to adjust and/or deduct any of the amounts as aforesaid from the payments due to the agency under this contract.
15. The agency shall ensure that the persons so deployed do not allow any property of the AIIMS DEOGHAR related to Equipment's to be taken out of the premises without a Gate Pass signed by the designated officials of the AIIMS DEOGHAR.
16. The agency shall comply with the statutory provisions of Contract Labor (Regulation & Abolition) Act, 1970; Employees State Insurance Act; Workman's Compensation Act, 1923; Payment of Wages Act, 1936; The Employees Provident Fund (and Miscellaneous Provisions) Act,1952; Payment of Bonus Act,1965; The Minimum Wages Act,1948; Employer's Liability Act, 1938; and/or any other rules/regulations and/or statues that may be applicable to them. The agency shall indemnify the Institute against all claims which may be made upon the Institute whether under the aforesaid statutes or any other statute in force during the currency of this contract.
17. Agency shall deploy his persons in such a way that they get weekly rest. The working hours / leave, for which the work is taken from them, do not violate relevant provisions of Shops and Establishment Act. The agency shall arrange to provide reliever equally qualified in case of absence/leave/off etc. The agency shall in all dealings with the persons in his employment have due regards to all recognized festivals, days of rest and religious or other customs. In the event of the agency committing a default or breach of any of the provisions of the Labour Laws including the provisions of Contract Labour (Regulation and Abolition) Act, 1970 as amended from time to time or in furnishing any information, or submitting or filling any statement under the provisions of the said regulations and rules which is materially incorrect, he shall without prejudice to any other liability pay to the AIIMS Deoghar, a sum as may be claimed by AIIMS Deoghar.
18. Agency shall keep the AIIMS Deoghar indemnified against all claims whatsoever in respect of the employees deployed by the agency, in case any employee of the agency so deployed enters in dispute of any nature whatsoever, it will be the primary responsibility of the agency to contest the same. In case AIIMS Deoghar is made party and is supposed to contest the case, the AIIMS Deoghar will be reimbursed for the actual expenses incurred towards Counsel fee and other expenses, which shall be paid in advance by the agency to AIIMS Deoghar on demand. Further, the agency shall ensure that no financial or any other liability comes on AIIMS Deoghar in this respect of any nature whatsoever and shall keep AIIMS Deoghar indemnified in this respect.
19. Income tax/ other applicable taxes if any will be deducted at source as per the rules in force from the bill and the amount so deducted will be credited to the Income tax/concerned authority and a certificate of the amount credit will be issued by the Account Section of Institute.
20. Institute reserve the right to curtail or enhance the scope of work either by deletion of certain items entirely or by reducing/increasing the quantities of certain items as

required and reviewed by the Institute from time to time and therefore, the final value of the work shall be worked out and paid to the extent of work actually carried out.

21. In the event of any question, dispute/difference arising under the agreement or in connection here with (except as to matters the decision of which is specially provided under the agreement) the same shall be referred to the sole arbitration by the Director, AIIMS Deoghar & his decision will be final and binding.
22. AIIMS Deoghar shall not be responsible for any expense incurred by bidders in connection with the preparation & submission of their bids, site visit and other expenses incurred during bidding process.
23. The Arbitrator may give interim awards and/or directions, as may be required, Subject to the aforesaid provisions the Arbitrator & Conciliation Act, 1996 and the rules made hereunder and any modification thereof from time to time being in force shall be deemed to apply to the arbitration proceedings under this clause.
24. Bidder should not be under liquidation, court receivership or similar proceeding and shall submit certificate for the same.
25. **Penalty Clauses:** If work is not carried out as per schedule, a penalty will be imposed @ 0.5% per week subject to the maximum of 10% of total bill value.
26. Each tender shall be accompanied by earnest money of 2% of estimated cost.
27. AIIMS Deoghar will deduct a sum at the rate of 5% of the gross amount of each running bill of the contractor till the sum along with the sum already deposited as EMD, will amount to SD of 5% of the bid value of the work. Balance SD after successful completion of work shall be refunded after the DLP.
28. The successful bidder shall have to submit a PG of 5% of the tender amount within 10 days from the date of issue of work order. This shall be in the form of DD/BG/FDR of any schedule bank in favour of AIIMS Deoghar payable at Deoghar.
29. Any non-tendered items executed during construction for completion of works shall be paid on current DSR/Market rates for schedule items and non-schedule items respectively.
30. **Force Majeure: -**
  - a. Notwithstanding the provisions stated above, failure to provide the services by agency shall not be liable for forfeiture of its security or penalty & not be constructed as breach of contract at an event of force majeure.
  - b. For purposes of this clause, "Force Majeure" means an event beyond the control of the agency and not involving the agency/service provider's fault or negligence and not foreseeable. Such events may include, but are not limited to, acts of the service provider either in its sovereign or contractual capacity, wars or revolutions fires, floods.
  - c. If a Force Majeure situation arises, the agency/ service provider shall promptly notify the Engineer In-Charge in writing of such conditions and the cause thereof. Unless otherwise directed by the employer in writing, the service provider shall continue to perform its obligations under the contracts far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the force majeure event.
31. The electrical Installation work shall be carried out. in accordance with Indian Standard Code of Practice. It shall also be in conformity with the current Indian

Electricity rules and regulations and requirements of the Local Electricity Supply Authority and Fire Insurance regulations, so far as these become applicable to the installation. Electrical work in general shall be carried out as per following CPWD Specifications amended up to the previous day of submission of bid.

- 32. General Specifications for Electrical Works.-** Part -I- Internal Work- 1994. Wherever these specifications call for a higher standard of material and or workmanship than those required by any of the above mentioned regulations and specifications then the specification hereunder shall take precedence over the said regulations and standards.

The details of scope of work subhead wise are given in the subsequent paras. The quantities worked out in schedule of quantities are based on particular equipment considered at design stage. The contractor is required to recheck the quantities based on equipment offered by him to achieve required parameters.

- 33. Theft of Parts:** - Agency shall be fully responsible for theft, burglary, fire or any mischievous deeds by his workers/staff and shall replace the items under such category. Any loss occurred due to negligence will be recovered from the agency.
- 34. JURISDICTION:** Disputes of any nature that may arise in connection with the execution of this order shall be governed by the laws of India and subject to the jurisdiction of courts situated in Deoghar, India only.

## **8) Special condition for Safety at the Work Site**

The contractor will identify one of the supervisors for taking care of implementation of Safety systems. The Contractor should follow the following General Guidelines governing the safety rules as laid down under:

1. Nobody is allowed to work without wearing safety helmet. Chin strap of safety helmet shall be always on. Drivers, helpers and operators are no exception.
2. No one is allowed to work at or more than three meters height without wearing safety belt and anchoring the lanyard of safety belt to firm support preferably at shoulder level.
3. No one is allowed to work without adequate foot protection.
4. Usage of eye protection equipment shall be ensured when workmen are engaged for grinding, chipping, welding and gas-cutting. For other jobs as and when site safety co-coordinator insists eye protection has to be provided.
5. All safety appliances like Safety shoes, Safety gloves, Safety helmet, Safety belt, Safety goggles etc. shall be arranged before starting the job.
6. All excavated pits shall be barricaded & barricading to be maintained till the backfilling is done. Safe approach to be ensured into every excavation.
7. Adequate illumination at work place shall be ensured before starting the job at night.
8. All the dangerous moving parts of the portable/fixed machinery being used shall be adequately guarded.
9. Ladders being used at site shall be adequately secured at bottom and top. Ladders shall not be used as work platforms.
10. Material shall not be thrown from the height. If required, the area shall be barricaded and one person shall be posted outside the barricading for preventing the tre-passers from entering the area.
11. Other than electricians no one is allowed to carry out electrical connections, repairs on electrical equipment or other jobs related thereto.
12. All electrical connections shall be made using 3 or 5 core cables, having a earth wire.
13. Inserting of bare wires for tapping the power from electrical sockets is completely prohibited.
14. A tools and tackles inspection register must be maintained and updated regularly.
15. Debris, scrap and other materials to be cleared from time to time from the work place and at the time of closing of work every day.
16. All the unsafe conditions, unsafe acts identified by contractors, reported by site supervisors and/or safety personnel to be corrected on priority basis.
17. No children shall be allowed to enter the workplace.
- 18.
19. All the lifting tools and tackles shall be stored properly when not in use.

20. Clamps shall be used on Return cables to ensure proper earthing for welding works.
21. Return cables shall be used for earthing.
22. All the pressure gauges used as cutting apparatus shall be in good working condition.
23. Proper eye washing facilities shall be made in areas where chemicals are handled.
24. Connectors and hose clamps are used for making welding hose connections.
25. All underground cables for supplying construction power shall be routed using conduit pipes.
26. Spill trays shall be used to contain the oils pills while transferring/storing them.
27. Tapping of power by cutting electric cables in between must be avoided. Proper junction boxes must be used.

**Executive Engineer (Electrical)**  
**AIIMS Deoghar**

## **9. Annexures**

### **ANNEXURE-I**

#### **TENDER ACCEPTANCE LETTER**

(On Company/ Firm's Letter Head)

To,  
Executive Engineer (Electrical)  
AIIMS Deoghar,  
Deoghar –824152.

Date:

Sir,

**Ref: Tender No. 31/EE/AIIMS/Deo/2025-26 for “Comprehensive Maintenance of Electrical Services of Substation-1, 2 and 3 & Centralised UPS at AIIMS Deoghar.**

I/we have carefully gone through the Terms & Conditions as mentioned in the above referred Tender document as per your advertisement, given in the above-mentioned website(s).

1. I/we declare that all the provisions of this Tender are unconditionally acceptable to my company. I /we further certify that I'm an authorized signatory of my company and am, therefore, competent to make this declaration.

2. I/we hereby certify that I/we have read the entire terms and conditions of the tender documents from Page No. \_\_\_\_\_ to \_\_\_\_\_ (including all documents like annexure(s), schedules(s), etc.) which form part of the contract agreement and I/we shall abide here by the terms/conditions/clauses contained therein.

3. The corrigendum(s) issued from time to time by your department /organizations too have also been taken into consideration, while submitting this acceptance letter.

4. I/we certify that all information furnished by the our Firm is true and correct and if at any stage, it has been found that the agency has furnished any wrong declaration /forged documents, the Competent Authority of AIIMS Deoghar may terminate contract with immediate effect without assigning any reason there of and suitable legal action should be taken against the agency which may include blacklisting / debarment from participating in any tender of AIIMS Deoghar for the period, approved by the competent authority.

Yours faithfully,

(Signature of the Bidder, with Official Seal)

## ANNEXURE-II

### DECLARATION OF ANNUAL TURN OVER

(On Company/ firm's Letter head)

To,  
Executive Engineer (Electrical)  
AIIMS Deoghar,  
Deoghar –824152.

Date:

Sir,

**Ref: Tender No. 31/EE/AIIMS/Deo/2025-26 for “Comprehensive Maintenance of Electrical Services of Substation-1, 2 and 3 & Centralised UPS at AIIMS Deoghar.**

.

1) I/we hereby declare that, our firm's Annual Turnover as follows, and I/we have also supported an Audited Accounts/C.A Certificate for your references:

F. Y.2022–23	
F.Y.2023 –24	
F.Y.2024 –25	

Yours faithfully,

(Signature of the Bidder, with Official Seal)

### **ANNEXURE- III**

#### **BANK DETAILS OF THE FIRM**

Name of the Firm:

Registered/Postal Address:

1.	Permanent Account Number (PAN) No	
2.	GST Registration No.	
3.	<b>BANK DETAILS:</b>	
a.	Bank Name	
b.	Branch Address	
c.	Account No	
d.	Type of Account (Current/Savings)	
e.	MICR No.	
f.	IFSC Code	

Date:

Name of the Authorized Signatory

Place:

Stamp & Signature

**ANNEXURE- IV**  
**PERFORMANCE GUARANTEE**

1.

**BANK GUARANTEE BOND**

*In consideration of the Registrar, AIIMS Deoghar (All India Institute of Medical Sciences Deoghar) having agreed*

*under the terms and conditions of agreement No. \_\_\_\_\_ dated \_\_\_\_\_ made between \_\_\_\_\_ and \_\_\_\_\_ (hereinafter called "the contractor(s)") \_\_\_\_\_ for the service/work \_\_\_\_\_ (hereinafter called "the said agreement") having agreed to production of a irrevocable Bank Guarantee for ` \_\_\_\_\_ (Rupees \_\_\_\_\_ only) as a security/guarantee from the contractor(s) for compliance of his obligations in accordance with the terms and conditions in the said agreement, we*

*(hereinafter referred to as "the Bank") hereby undertake to pay to the \_\_\_\_\_*

*(Indicate the name of the Bank)*

*Government an amount not exceeding ` \_\_\_\_\_ ( \_\_\_\_\_ only) on demand by the Government.*

2. We \_\_\_\_\_ do hereby undertake to pay the amounts due and payable

*(Indicate the name of the Bank)*

*under this Guarantee without any demure, merely on a demand from the Registrar, AIIMS Deoghar (All India Institute of Medical Sciences Deoghar) stating that the amount claimed is required to meet the recoveries due or likely to be due from the said contractor(s). Any such demand made on the bank shall be conclusive as regards the amount due and payable by the bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding ` \_\_\_\_\_ (Rupees \_\_\_\_\_ only).*

3. We, the said bank further undertakes to pay to the Registrar, AIIMS Deoghar any money so demanded notwithstanding any dispute or disputes raised by the contractor(s) in any suit or proceeding pending before any court or tribunal relating thereto, our liability under this present being absolute and unequivocal.

*The payment so made by us under this bond shall be a valid discharge of our liability for payment thereunder and the contractor(s) shall have no claim against us for making such payment.*

4. We \_\_\_\_\_ further agree that the guarantee herein contained shall

*(Indicate the name of the Bank)*

*remain in full force and effect during the period that would be taken for performance of the said agreement and that it shall continue to be enforceable till all the dues of the Government under or by virtue of the said agreement have been fully paid and its claims satisfied or discharged or till Engineer-in-charge on behalf of the AIIMS Deoghar certified that the terms and conditions of the said agreement have been fully and properly carried out by the said contractor(s) and accordingly discharges this guarantee.*

5. We \_\_\_\_\_ further agree with the Registrar, AIIMS Deoghar that the \_\_\_\_\_ AIIMS Deoghar

*(Indicate the name of the Bank)*

shall have the fullest liberty without our consent and without effecting in any manner our obligations hereunder to vary any of the terms and conditions of the said agreement or to extend time of performance by the said contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the government against the said contractor(s) and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said contractor(s) or for any forbearance, act of omission on the part of the government or any indulgence by the Registrar, AIIMS Deoghar to the said contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

6. This guarantee will not be discharged due to the change in the constitution of the Bank or the contractor(s).

7. We \_\_\_\_\_ lastly undertake not to revoke this guarantee except with \_\_\_\_\_  
(Indicate the name of the Bank)  
the previous consent of the, AIIMS Deoghar in writing.

8. This guarantee shall be valid up to \_\_\_\_\_, unless extended on demand by AIIMS Deoghar. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to \_\_\_\_\_ ( \_\_\_\_\_ only).

Dated the \_\_\_\_\_ day of \_\_\_\_\_  
for \_\_\_\_\_  
(Indicate the name of the Bank)

**ANNEXURE- V**  
**FORM OF BANKERS CERTIFICATE FROM A SCHEDULED BANK**

To,  
The Executive Director  
AIIMS Deoghar - 814152

This is to certify that to the best of our knowledge and information that M/s./Shri  
..... having marginally noted address, a customer of our bank.  
are/is respectable and can be treated as good for any engagement up to a limit of  
Rs..... (Rupees.....).

This certificate is issued without any guarantee or responsibility on the bank or any  
of the officers. This certificate is valid for six months from the issued of this letter.

(Signature of Branch Manager)  
For the Bank

## ANNEXURE- VI

### Form of Earnest Money Deposit (Bank Guarantee Bond)

WHERE AS, Bidder.....(Name of Bidder)(Here in after called “the bidder”) has submitted his tender dated.....(Date)for the construction of.....(Name of work) Hereinafter called “the tender”).

KNOW all people by these presents that we..... registered office at .....(Here in after called “ the Bank”) are bound unto Executive Director, AIIMS Deoghar of in the sum of Rs.....(Rs in words for which payment well and truly to be made to the said Executive Director, AIIMS Deoghar , the Bank binds itself, his successors and assigns by these presents.

Sealed with the common seal of the said bank this.....Day of.....20 THE CONDITIONS of this obligation are:

If after opening of tender, the Bidder withdraws, his tender during the period of validity of tender (including extended validity of tender) specified in the form of Tender;

If the Bidder having been notified of the acceptance of his tender by the Executive Director, AIIMS Deoghar

Fails or refuses to execute the form of Agreement in accordance with the instructions to the bidder, if required.

**OR**

Fails or refuses to furnish the performance Guarantee, in accordance with the provisions of tender document and instructions to the bidder.

We undertake to pay to the **Executive Director, AIIMS Deoghar**, either up to the above amount or part thereof upon receipt of his first written demand, without the **Executive Director, AIIMS Deoghar**, having to substantiate his demand, provided that in his demand the **Executive Director, AIIMS Deoghar**, will note that the amount claimed by him is due to him owing to the occurrence of one or any of the above conditions, specifying the occurred condition or conditions.

This Guarantee will remain in force up to and including the date after the deadline for submission of tender as such deadline is stated in the Instructions to the Bidder or as it may be extended by the **Executive Director, AIIMS Deoghar**, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank not later than the above date.

DATE.....

SIGNATURE OF THE BANK

WITNESS.....

SEAL

(SIGNATURE, NAME AND ADDRESS)

\*Date to be worked out on the basis of validity period of 6 months from the date of issue

## **10. INTEGRITY PACT**

### **(On ₹ 100 Non-Judicial Stamp)**

This pre-bid/pre contract Agreement (hereinafter called Integrity Pact) is made on \_\_\_\_day of \_\_\_\_\_(month & year) between ALL India Institute of Medical Sciences (AIIMS) Deoghar, Devipur, Deoghar, Jharkhand- 814152 (Hereinafter called “AIIMS, Deoghar”, which expression shall mean and include, unless the context otherwise requires, his successors in office and assigns) of the First Party.

And

M/s \_\_\_\_\_, a company/ firm/ individual (status of the company), PSU/Partnership/Joint Venture and having its registered office at \_\_\_\_\_represented by Shri--  
-----

, hereinafter referred to as “The Bidder/Contractor” which expression shall mean and include, unless the context otherwise requires, his successors and permitted assigns of the Second Part.

### **Preamble**

WHEREAS AIIMS, Deoghar proposes to procure, erect/construct/install under laid down organizational procedures, contract/s for \_\_\_\_\_(Name of the work/ goods/ services) and the Bidder/Contractor is willing to offer against NIT/Bid No\_\_\_\_, aforesaid proposal of AIIMS Deoghar.

WHEREAS the Bidder/Contractor is a private company / public company/ Government undertaking/ partnership/ consortium/ joint venture company/ Firm/ Individual (status of the Company), constituted in accordance with the relevant law in the matter and the Buyer is AIIMS Deoghar.

NOW, THEREFORE,

To avoid all forms of corruption by following a system that is fair, transparent and free from any influence/prejudiced dealings prior to, during and subsequent to the currency of the contract to be entered into with a view to:

Enabling the AIIMS Deoghar/Buyer to obtain the desired said (work/ goods/ services) at a competitive price in conformity with the defined specifications by avoiding

the high cost and the distortionary impact of corruption on public procurement, and enabling the Bidder(s)/Contractor(s) to abstain from bribing or indulging in any corrupt practice in order to secure the contract by providing assurance to them that their competitors will also abstain from bribing and other corrupt practices and the buyer will commit to prevent corruption, in any form, by its officials by following transparent procedures.

The parties hereby agree to enter into this Integrity Pact & agree as follows:

### **Section 1 – Commitments of AIIMS Deoghar**

- 1) AIIMS Deoghar commits itself to take all measures necessary to prevent corruption and to observe the following principles: -
  - a. AIIMS Deoghar undertakes that no official of the institute, connected directly or indirectly with the contract, will demand, take a promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favour or any material or immaterial benefit or any other advantage from the bidder/contractor, either for themselves or for any person, organization or third party related to the contract in exchange for an advantage in the bidding process, bid evaluation, contracting or implementation process related to the contract.
  - b. AIIMS Deoghar shall treat all Bidder(s) with equity and reason during the tender process. AIIMS Deoghar shall, in particular, before and during the tender process, provide to all Bidder(s) the same information and shall not provide to any Bidder(s) confidential/additional information through which the Bidder(s) could obtain an advantage in the tender process or the contract execution.
  - c. AIIMS Deoghar shall exclude from the process all known persons having conflict of interest.
  - d. All the officials of AIIMS Deoghar will report to the appropriate Authority any attempted or completed breaches of the above commitments as well as any substantial suspicion of such a breach.

If the AIIMS Deoghar obtains information on the conduct of any of its employees, which is a criminal offence under the IPC/IPC Act, or if there be a substantive suspicion in this regard, the AIIMS Deoghar shall inform the Chief Vigilance Officer and in addition shall initiate disciplinary proceeding.

## **Section 2 – Commitments of the Bidder(s)/ Contractor(s)**

- 1) The Bidder(s)/Contractor(s) commits themselves to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of the bid or during any pre-contract or post- contract stage in order to secure the contract or in furtherance to secure it and in particular commit itself to the following: -
  - a) The Bidder(s)/Contractor(s) will not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of AIIMS Deoghar, connected directly or indirectly with the bidding/tendering process, or to any person, organization or third party related to the contract in exchange for any advantage in the bidding, evaluation, contracting and implementation/completion of the contract.
  - b) The Bidder/Contractor further undertakes that it has not given, offered or promised to give, directly or indirectly any bribe, gift consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of AIIMS Deoghar or otherwise in procuring/awarding the Contract or forbearing to do or having done any act in relation to the obtaining or execution of the contract or any other contract with AIIMS Deoghar for showing or forbearing to show favour or disfavor to any person in relation to the contract or any other contract with AIIMS Deoghar.
  - c) The Bidder(s)/Contractor(s) shall disclose the name and address of agents and representatives and Indian Bidder(s)/Contractor(s) shall disclose their foreign principals or associates.
  - d) The Bidder(s)/Contractor(s) shall disclose the payments to be made by them to agents/brokers or any other intermediary, in connection with this bid/contract.
  - e) The Bidder, either while presenting the bid or during pre-contract negotiations or before signing the contract, shall disclose any payments he has made, is committed to or intends to make to officials of AIIMS Deoghar or their family members, agents, brokers or any other intermediaries in connection with the contract and the details of services agreed upon for such payments.
  - f) The Bidder/Contractor will not collude with other parties interested in the contract to impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and implementation of the contract.
  - g) The Bidder/Contractor will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.
  - h) The Bidder/Contractor shall not use improperly, for purposes of competition or personal gain, or pass on to others, any information provided by the Employer as part of the business/work relationship, regarding plans, technical proposals, technical know & how and business details, including information contained in electronic data carrier. The Bidder/Contractor also undertakes to exercise due and adequate care lest any such information is divulged.

- i) The Bidder(s)/Contractor(s) commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.
  - j) The Bidder(s)/Contractor(s) shall not instigate or cause to instigate any third person to commit any of the actions mentioned above.
  - k) If the Bidder/Contractor or any employee of the Bidder/Contractor or any person acting on behalf of the Bidder/Contractor, either directly or indirectly, is a relative of any of the officers of AIIMS Deoghar, or alternatively, if any relative of an officer of AIIMS Deoghar has financial interest/stake in the Bidder(s)/Contractor(s) firm (excluding Public Ltd. Company listed on Stock Exchange), the same shall be disclosed by the Bidder/Contractor at the time of filling of tender.  
The term 'relative' for this purpose would be as defined in Section 2(77) of the Companies Act 2013.
  - l) Bidder(s)/Contractor(s) who have signed the Integrity Pact shall not approach the Courts while representing the matter to IEMs and shall wait for their decision.
  - m) In case of sub-contracting, the bidder/contractor shall take the responsibility of the adoption of IP by the sub-contractor.
- 2) The Bidder(s)/Contractor(s) shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any employee of AIIMS Deoghar.

### **Section 3 - Disqualification from the tender process and exclusion from future contracts**

- 1) If the Bidder(s)/Contractor(s), before award or during execution, has committed a transgression through a violation of Section 2, above or in any other form such as to put their reliability or credibility in question, AIIMS Deoghar is entitled to disqualify the Bidder(s)/Contractor(s) from the tender process or take action as per laid down procedure to debar the Bidder(s)/Contractor(s) from participating in the future procurement processes of the Government of India.

### **Section 4 – Compensation for Damages**

- 1) If AIIMS Deoghar has disqualified the Bidder(s) from the tender process before the award according to Section 3, AIIMS Deoghar is entitled to demand and recover the damages equivalent to Earnest Money Deposit/Bid Security.
- 2) If AIIMS Deoghar has terminated the contract according to Section 3, or if AIIMS Deoghar is entitled to terminate the contract according to Section 3, AIIMS Deoghar shall be entitled to demand and recover from the Contractor liquidated damages of the Contract value or the amount equivalent to Performance Bank Guarantee.

### **Section 5 – Previous transgression**

- 1) Bidders to disclose any transgression with any other public/government organization that may impinge on the anti-corruption principle. The date of such transgression, for the purpose of disclosure by the bidders in this regard, would be the date on which cognizance off the said transgression was taken by the competent authority. The period for which such transgressions(s) is/are to be reported by the bidders shall be the last **three years** to be reckoned from date of bid submission. The transgression(s), for which cognizance was taken even before the said period of three years, but are pending conclusion, shall also be reported by the bidders.
- 2) If the Bidder makes an incorrect statement on this subject, AIIMS Deoghar shall act like para 2 of Section 4 above.

### **Section 6 – Equal treatment of all Bidders / Contractors / Subcontractors**

In the case of Sub-contracting, the Principal Contractor shall take responsibility for adopting the Integrity Pact by the Sub-contractor.

- a) AIIMS Deoghar shall enter into agreements with identical conditions as this one with all Bidders and Contractors.
- b) AIIMS Deoghar shall disqualify from the tender process all bidders who do not sign this Pact or violate its provisions.

### **Section 7 – Sanctions for Violations**

- 1) Any breach of the aforesaid provisions by the Bidder/Contractor or any one employed by it or acting on its behalf shall entitle AIIMS Deoghar to take all or any one of the following actions, wherever required: -
  - a. To immediately call off the pre contract negotiations without assigning any reason or giving any compensation to the Bidder/Contractor. However, the proceedings with the other Bidder(s)/Contractor(s) would continue.
  - b. The Earnest Money Deposit (in pre-contract stage) and/or Security Deposit/Performance Bond (after the contract is signed) shall stand forfeited either fully or partially, as decided by AIIMS Deoghar and AIIMS Deoghar shall not be required to assign any reason thereof.
  - c. To immediately cancel the contract, if already signed, without giving any compensation to the Contractor. The Bidder/Contractor shall be liable to pay compensation for any loss or damage to AIIMS Deoghar resulting from such cancellation/rescission and AIIMS Deoghar shall be entitled to deduct the amount so payable from the money(s) due to the Bidder/Contractor.
  - d. To encash the Bank guarantee, in order to recover the dues if any by AIIMS Deoghar, along with interest as per the provision of contract.
  - e. To debar the Bidder/Contractor from participating in future bidding processes of AIIMS Deoghar, which may be further extended at the discretion of AIIMS Deoghar.
  - f. To recover all sums paid in violation of this Pact by Bidder(s)/Contractor(s) to any middleman or agent or broker with a view to securing the contract.

- g. In cases where irrevocable Letters of Credit have been received in respect of any contract signed by AIIMS Deoghar with the Bidder/Contractor, the same shall not be opened/operated.
- h. Forfeiture of Performance Security in case of a decision by the Employer to forfeit the same without assigning any reason for imposing sanction for violation of this Pact.
- 2) AIIMS Deoghar will be entitled to take all or any of the actions mentioned at section 7 of this Pact also on the Commission by the Bidder/Contractor or any one employed by it or acting on its behalf (whether with or without the knowledge of the Bidder/Contractor), of an offence as defined in Chapter IX of the Indian Penal Code, 1860 or Prevention of Corruption Act, 1988 or any other statute enacted for prevention of corruption.
- 3) The decision of AIIMS Deoghar to the effect that a breach of the provisions of this Pact has been committed by the Bidder/Contractor shall be final and conclusive on the Bidder/Contractor. However, the Bidder/Contractor can approach the Independent External Monitor(s) appointed for the purposes of this Pact.

**Section 8 – Independent External Monitor (IEM)**

- 1) AIIMS Deoghar has appointed competent and credible Independent External Monitors (hereinafter referred to as monitors) for this Pact as per the recommendations of Central Vigilance Commission. The particulars of Independent External Monitors are as hereunder: -

Sr. No.	Name of IEM	Email ID	Address
1	Shri N. Shanker Reddy	shankerreddyips@gmail.com	H. No. 6-5-232-1; BRINDAVANAM, 80 Feet Road, Venkat Rao Nagar, Ram Nagar (PO), Anantapur - 515004 (Andhra Pradesh)
2	Shri Arun Kumar Sharma	sharmaak6@gmail.com	F-501, Indian Oil Apartments, Plot No. C-58/23, Sector -62, Noida, Uttar Pradesh - 201301.

- 2) The task of the Monitor is to review, independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.
- 3) The Monitor shall not be subjected to instructions by the parties' representatives and perform their functions neutrally and independently.

The Monitor would have access to all Contract documents whenever required. It shall be obligatory for them to treat the information and documents of the Bidders/Contractors as confidential. They report to the Executive Director, AIIMS Deoghar.

- 4) The Bidder(s)/Contractor(s) accepts that the Monitor has the right to access without restriction, all project documentation of AIIMS Deoghar, including that provided by the Contractor. Upon their request and demonstration of a valid interest, the Contractor shall also grant the Monitor unrestricted and unconditional access to their project documentation. The same applies to Subcontractors.
- 5) The Monitor is under contractual obligation to treat the information and documents of the Bidder(s)/ Contractor(s)/ Sub-contractor(s) with confidentiality. The Monitor has also signed declarations on 'Non- Disclosure of Confidential Information' and 'Absence of Conflict of Interest.' In case of any conflict of interest arising later, the IEM shall inform the Executive Director, AIIMS Deoghar and recuse themselves from that case.
- 6) AIIMS Deoghar shall provide the Monitor with sufficient information about all meetings among the parties related to the Project, provided such meetings could impact the contractual relations between AIIMS Deoghar and the Contractor. The parties offer the Monitor the option to participate in such meetings.
- 7) As soon as the Monitor notices, or believes to notice, a violation of this agreement, they shall inform the Executive Director, AIIMS Deoghar and request to discontinue or take corrective action or other relevant action. The Monitor can, in this regard, submit non-binding recommendations. Beyond this, the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action, or tolerate action.
- 8) The Monitor shall submit a written report to the Executive Director, AIIMS Deoghar, within 8 to 10 weeks from the date of reference or intimation to him by AIIMS Deoghar and, should the occasion arise, submit proposals for correcting problematic situations.
- 9) If the Monitor has reported to the Executive Director, AIIMS Deoghar a substantiated suspicion of an offence under the relevant IPC/ PC Act, and the Executive Director, AIIMS Deoghar has not, within the reasonable time, taken visible action to proceed against such offence or reported it to the Chief Vigilance Officer, the Monitor may also transmit this information directly to the Central Vigilance Commissioner.
- 10) The word 'Monitor' would include both singular and plural.

### **Section 9- Facilitation of Investigation**

- 1) In case of any allegation of violation of any provisions of this Pact or payment of commission, AIIMS Deoghar or its agencies shall be entitled to examine all the documents including the Books of Accounts of the Bidder/Contractor and the Bidder/Contractor shall provide necessary information and documents in English and shall extend all possible help for the purpose of such examination.

### **Section 11 – Pact Duration**

- 1) This Pact begins when both parties have legally signed it. It expires for the Contractor 12 months after the last payment under the contract, and for all other Bidders, 6 months after the contract has been awarded. Any violation of the same would entail disqualifying the bidders and exclusion from future business dealings.  
If any claim is made/lodged during this time, the same shall be binding and continue to be valid despite the lapse of this Pact as specified above, unless it is discharged/determined by the Executive Director, AIIMS Deoghar.

### **Section 12 – Other provisions**

- 1) This agreement is subject to Indian Law. The place of performance and jurisdiction is AIIMS Deoghar, Jharkhand.
- 2) Changes, supplements, and termination notices must be submitted in writing. Side agreements have not been made.
- 3) If the Contractor is a partnership or a consortium, this agreement must be signed by all partners or consortium members.
- 4) Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties shall strive to come to an agreement according to their original intentions.
- 5) Issues like Warranty / Guarantee, etc., shall be outside the purview of IEMs.
- 6) In the event of any contradiction between the Integrity Pact and its Annex, the clause integrity Pact shall prevail

The Parties hereby sign this Integrity Pact as part of the contract at \_\_\_\_\_ on \_\_\_\_\_ and parties concerned are bound by it provisions.

**For and on Behalf of AIIMS Deoghar**

**For and on Behalf of Bidder**

**Signature:**

.....  
.....

**Signature:**

.....  
.....

**Name of the  
Officer:**

.....  
.....

**Name of the Authorised  
Signatory:**

.....

**Designation:**

.....  
.....

**Designation:**

.....  
.....

**Department:**

.....  
.....

**Seal:**

.....  
.....

**Witnesses**

**Signature:**

.....  
.....

**Signature:**

.....  
.....

**Name:**

.....  
.....

**Name:**

.....  
.....

**Address:**

.....  
.....

**Address:**

.....  
.....

**Format for Integrity Agreement**  
**(To be made on Rs 100/- Judicial Stamp Paper)**

This Agreement is made at.....on this.....day of..... 20.... .

**BETWEEN**

Executive Director, AIIMS, Deoghar represented through Executive Engineer (Electrical), AIIMS, DEOGHAR,  
.....

..... (Address), (Hereinafter referred as the “Principal/Owner”, which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

**AND**

..... (Name and Address of the Individual/firm/Company) through..... (Hereinafter referred to as the (Details of duly authorized signatory)

“Bidder/Contractor” and which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

**Preamble**

WHEREAS, the Principal/Owner has floated the Tender (NIT No..... )

(Hereinafter referred to as “Tender/Bid”) and intends to award, under laid down organizational procedure, contract for: “Comprehensive Maintenance of Electrical Services of Substation-1, 2 and 3 & Centralised UPS at AIIMS Deoghar” referred to as the “Contract”.

**AND** WHEREAS the Principal/Owner values full compliance with all relevant laws of the Land, Rules & Regulations, Economic use of resources and of fairness/ transparency in its relation with its Bidder(s) and Contractor(s).

**AND** WHEREAS to meet the purpose aforesaid both the parties have agreed to enter to this Agreement (hereinafter referred to as “Integrity Pact” or “Pact”), the terms and conditions of which shall also be read as integral part and parcel of the Tender/Bid documents and Contract between the parties.

NOW, THEREFORE, in consideration of mutual covenants contained in this Pact, the parties hereby agree as follows and this Pact witnesses as under: -

**Article - 1: Commitment of the Principal/Owner.**

1. The Principal/Owner commit itself to take all measures necessary to prevent corruption and to observe the following principles:

- (a) No employee of the Principal/Owner, personally or through any of his/her family members, will in connection with the Tender, or the execution of the Contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
- (b) The Principal/Owner will, during the Tender process, treat all Bidder(s) with equity and reason. The Principal/Owner will, in particular, before and during the Tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential/additional information through which the Bidder(s) could obtain an advantage in relation to the Tender processor the Contract execution.
- (c) The Principal/Owner shall endeavor to exclude from the Tender process any person, whose conduct in the past has been of biased nature.

2. If the Principal/Owner obtains information on the conduct of any of its employees which is a criminal offence under the Indian Penal Code (IPC)/Prevention of Corruption Act, 1988 (P C Act) or is in violation of the principles herein mentioned or if there be a substantive suspicion in this regard, the Principal/Owner will inform the Chief Vigilance Officer and in addition can also initiate disciplinary actions as per its internal laid down policies and procedures.

**Article - 2: Commitment of the Bidder(s)/Contractor(s)**

1. It is required that each Bidder/Contractor (including their respective officers, employees and agents) adhere to the highest ethical standard and makes, and report to the Government/Department all suspected acts of **fraud or corruption or Coercion or Collusion** of which it has knowledge or becomes aware, during the tendering process and throughout the negotiation or award of a contract.

2. The Bidder(s)/Contractor(s) commit himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the Tender process and during the Contract execution: -

(a) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm, offer, promise or give to any of the Principal/Owner's employees involved in the Tender process or execution of the Contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind what so ever during the Tender process or during the execution of the Contract.

(b) The Bidder(s)/Contractor(s) will not enter with other Bidder(s) into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to cartelize in the bidding process.

(c) The Bidder(s)/Contractor(s) will not commit any offence under the relevant IPC/PC Act. Further the Bidder(s)/Contract(s) will not use improperly, (for the purpose of competition or personal gain), or pass on to others, any information or documents provided by the Principal/Owner as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.

(d) The Bidder(s)/Contractor(s) of foreign origin shall disclose the names and addresses of agents/representatives in India, if any. Similarly, Bidder(s)/Contractor(s) of Indian Nationality shall disclose names and addresses of foreign agents/representatives, if any. Either the Indian agent on behalf of the foreign principal or the foreign principal directly could bid in a tender but not both. Further, in cases where an agent participates in a tender on behalf of one manufacturer, he shall not be allowed to quote on behalf of another manufacturer along with the first manufacturer in a subsequent/parallel tender for the same item.

(e) The Bidder(s)/Contractor(s) will, when presenting his bid, disclose any and all payments he has made, is committed to, or intends to make to agents, brokers or any other intermediaries in connection with the award of the Contract.

3. The Bidder(s)/Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.

4. The Bidder(s)/Contractor(s) will not, directly or through any other person or firm indulge in fraudulent practice **means a willful misrepresentation or omission of facts or submission of fake/forged documents in order to induce public official to act in reliance thereof, with the purpose of obtaining unjust advantage by or causing damage to justified interest of others and/or to influence the procurement process to the detriment of the Government interests.**

5. The Bidder(s)/Contractor(s) will not, directly or through any other person or firm use

Coercive Practices (means the act of obtaining something, compelling an action or influencing a decision through intimidation, threat or the use of force directly or indirectly, where potential or actual injury may be fall upon a person, his/her reputation or property to influence their participation in the tendering process).

**Article - 3: Consequences of Breach.**

Without prejudice to any rights that may be available to the Principal/Owner under law or the Contract or its established policies and laid down procedures, the Principal/Owner shall have the following rights in case of breach of this Integrity Pact by the Bidder(s)/Contractor(s) and the Bidder/Contractor accepts and undertakes to respect and uphold the Principal/Owner's absolute right: -

1. If the Bidder(s)/Contractor(s), either before award or during execution of Contract has committed a transgression through a violation of Article-2 above or in any other form, such as to put his reliability or credibility in question, the Principal/Owner after giving 14 days' notice to the contractor shall have powers to disqualify the Bidder(s)/Contractor(s) from the Tender process or terminate/determine the Contract, if already executed or exclude the Bidder/Contractor from future contract award processes. The imposition and duration of the exclusion will be determined by the severity of transgression and determined by the Principal/Owner. **Such exclusion may before vigor for a limited period as decided by the Principal/Owner.**

2. **Forfeiture of EMD / Performance Guarantee/Security Deposit :** If the Principal/Owner has disqualified the Bidder(s) from the Tender process prior to the award of the Contract or terminated/determined the Contractor has accrued the right to terminate/determine the Contract according to Article-3(1), the Principal/Owner apart from exercising any legal rights that may have accrued to the Principal/Owner, may in its considered opinion forfeit the entire amount of Earnest Money Deposit, Performance Guarantee and Security Deposit of the Bidder/Contractor.

3. **Criminal Liability:** If the Principal/Owner obtains knowledge of conduct of a Bidder or Contractor, or of an employee or a representative or an associate of a Bidder or Contractor which constitutes corruption within the meaning of IPC Act, or if the Principal/Owner has substantive suspicion in this regard, the Principal/Owner will inform the same to law enforcing agencies for further investigation.

**Article - 4: Previous Transgression.**

1. The Bidder declares that no previous transgressions occurred in the last 05 years with any other Company in any country confirming to the anticorruption approach or with Central Government or State Government or any other Central/State Public Sector Enterprises in India that could justify his exclusion from the Tender process.

2. If the Bidder makes incorrect statement on this subject, he can be disqualified from the Tender processor action can be taken for banning of business dealings/holiday listing of the Bidder/Contractor as deemed fit by the Principal/Owner.

3. If the Bidder/Contractor can prove that he has resorted/recouped the damage caused by him and has installed a suitable corruption prevention system, the Principal/ Owner may, at its own discretion, revoke the exclusion prematurely.

**Article - 5: Equal Treatment of all Bidders/Contractors/Sub-contractors.**

1. The Bidder(s)/Contractor(s) undertake(s) to demand from all sub-contractors a commitment in Conformity with this Pact. The Bidder/Contractor shall be responsible for any violation(s) of the principles laid down in this agreement/Pact by any of its Sub-contractors/sub-vendors.

2. The Principal/Owner will enter into Pacts on identical terms as this one with all Bidders and Contractors.

3. The Principal/Owner will disqualify Bidders, who do not submit, the duly signed Pact between the Principal/Owner and the bidder, along with the Tender or violate its provisions at any stage of the

Tender process, from the Tender process.

**Article - 6: Duration of the Pact.**

1. This Pact begins when both the parties have legally signed it. It expires for the Contractor/Vendor 12 months after the completion of work under the contractor till the continuation of defect liability period, whichever is more and for all other bidders, till the Contract has been awarded.
2. If any claim is made/lodged during the time, the same shall be binding and continue to be valid despite the lapse of this Pacts as specified above, unless it is discharged/determined by the Competent Authority, AIIMS, Deoghar.

**Article - 7: Penalty:** As per given in the General Condition of Contract.

**Article – 8: Payment**

**a. Quarterly** 100% of RA Bill (Quarterly Running Bills) payment will be released after due certification of Bill by Engineering-in-charge or his representative **on submission of original tax invoice along with all necessary documents by the vendor after verification of work done by the vendor, in the same period, from AIIMS Authorities.**

**b.** Security Deposit 2.5% will be deducted from the bills of the Contractor.

**c.** The Income Tax as application shall be deducted from the bills unless exempted by the Income Tax Department.

**d.** All the work shall be completed within **02 year** from the date of issue of work Order by the Institute. All the aspects of safe installation shall be the exclusive responsibility of the Contractor.

**e.** It will be mandatory for the bidders to indicate their bank account number and over relevant payment details so that payment could be made through RTGS/Other mechanism.

**f.** GST and other taxes as applicable shall be recovered/paid from the contractor's bill as per Govt. of India/AIIMS Rules.

**Article - 9: Other Provisions:**

1. This Pact is subject to Indian Law, place of performance and jurisdiction is the Deoghar of the Principal/Owner, who has floated the Tender.
2. Changes and supplements need to be made in writing. Side agreements have not been unmade.
3. If the Contractor is a partnership or a consortium, this Pact must be signed by all the partners or by one or more partner holding power of attorney signed by all partners and consortium members. In case of a Company, the Pact must be signed by a representative duly authorized by board resolution.
4. Should one or several provisions of this Pact turnout to be invalid; the remainder of this Pact remains valid. In this case, the parties will strive to come to an agreement to their original intensions.
5. It is agreed term and condition that any dispute or difference arising between the parties with regard to the terms of this Agreement/Pact, any action taken by the Owner/Principal in accordance with this **Agreement/Pact or interpretation thereof shall not be subject to arbitration.**

**Article - 10: LEGAL AND PRIOR RIGHTS:**

All rights and remedies of the parties hereto shall be in addition to all the other legal rights and remedies belonging to such parties under the Contract and/or law and the same shall be deemed to be cumulative and not alternative to such legal rights and remedies aforesaid. For the sake of brevity,



(To be executed by and between the Owner and the successful tenderer)

**FORMAT OF AGREEMENT**

This agreement is executed at \_\_\_\_\_ (Place of execution) on the \_\_\_\_\_ day  
of \_\_\_\_\_, 20\_\_\_\_ BETWEEN \_\_\_\_\_, which expression Shall mean \_\_\_\_\_  
AIIMS DEOGHAR (“Owner”) and include it successors and assigns \_\_\_\_\_ of the  
FIRST PART AND \_\_\_\_\_ (name and address of the successful tenderer)  
 (“Contractor”) of the SECOND PART.

The Owner and the Contractor shall be individually referred to as the “Party” and collectively referred to as the “Parties”.

WHEREAS AIIMS Deoghar (the Owner) is desirous of developing a permanent campus and invited tenders by issuing Notice Inviting Tender (“Tender”) for selection of a contractor for constructing the said campus. The Contractor has submitted its bid pursuant to the issuing of the Tender by the Owner.

WHEREAS the details of the work proposed to be executed by the Contractor is more particularly specified in the Tender (name and identification number of Contract) (“Works”) and the Owner has accepted the Tender submitted by the Contractor for the execution and completion of the Works and the remedying of any defects therein, at a contract price of Rs.....(Rupees \_\_(*in words*))

WHEREAS the Owner has now desirous of laying down the terms and conditions governing the execution of the Works and has therefore, requested the Contractor to execute the present Agreement.

**NOW THIS AGREEMENT WITNESSETH AS:**

In this Agreement, words and expressions shall carry the same meanings as are ascribed to them in the Conditions of Contract as more particularly mentioned in the Tender. The Parties agree that the Tender shall form an integral part of this Agreement and shall be read and construed accordingly.

In consideration of the payments to be made by AIIMS DEOGHAR (the Owner) to the Contractor as the consideration for execution of the Works (“Consideration”), the Contractor hereby covenants with AIIMS DEOGHAR (the Owner) to execute and complete the Works and remedy the defects therein in conformity in all aspects with the provisions of the Tender and this Agreement.

The Owner hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and in the remedying the defects wherein the Contract Price or such other sum as may become payable under the provisions of the Tender and this Agreement at the times and in the manner prescribed under the Tender.

The following documents shall be deemed to form and be read and construed as part of this Agreement:

- Notice Inviting Tender
- Contractor’s Application and documents submitted for
- Selection Letter of Acceptance;
- Notice to proceed with the
- Works; Contractor’s Tender;

Contract Data;  
Conditions of Contract (including Special Conditions of  
Contract); Specifications;  
Drawings;  
Bill of Quantities; and  
Any other documents listed in the Contract Data as forming part of the Contract.

In witness where of the Parties have caused this Agreement to be executed on the day  
and year first written above.

The Common Seal of

\_\_\_\_\_

Was here under to affixed in the presence of:

Signed Sealed and Delivered by the said

\_\_\_\_\_

Binding Signature of Owner

\_\_\_\_\_

Binding Signature of Contractor

\_\_\_\_\_

In the presence of

\_\_\_\_\_

\_\_\_\_\_

## 11) List of Approved Make (Civil Items)

Sl.No	Description	Approved Manufacturer/Brand Name
1	Ceramic/Glazed Tiles	Somany,Kajaria,Nitco,Johnshon
2	TMT Bars	Tata Tiscon, SAIL, Jindal JSW
3	Cement OPC43Grade,PPC43 Grade	Ultra Tech, Lafarge, ACC.
4	White Cement	BirlaWhite,J.K.whiteorequivalent
5	Primers, Paints(i/c waterproofing cement paint) etc	Nerolac,Asian,Bergar,Dulux,
6	Concrete Admixtures	Fosroc,Sika, Pidilite,
7	White cement putty	Birla,JKorasapprovedbyEngineer-in-charge.
8	Sanitary ware and ceramic fittings.	Parryware,hindware,CERA,Prayag
9	Glass(All type)	Modiguard,SaintGobain,Asahi.
10	GI Pipes and accessories	Tata,Jindal,BST,GST.
11	Centrifugally Cast Spun Pipes &Fittings.	NECO,Kesoram,oranyISImarkedbrand
12	uPVC Pipes& Fittings.	Supreme,Finolex,Prayag
13	Brass/ CP Brass Fittings.	Jaquar,hindware,Prayag.
14	Aluminum sections(Anodising by approved anodizing firm)	Hindalco,Jindal,IndianAluminumCo.

15	Water proofing compound	CICO,FOSROC,PIDILITE
16	Stainless steel sink	Neelkanth,Nirali,Prayag
17	Particle board i/c laminated	NOVOPAN,ActionTesa,Centuryply, Archidply.
18	Plastic W.C. seat Cover	Hindware,cera,prayag
19	Stone ware Pipes & Gully traps	Perfect,Taya,ISImarked
20	C.I. double flanged valves	Kirloskar,IVC,BUM
21	Rubber gasket for DI/CI pipes	Orientorequivalent
22	Factory made paneled door shutters	AnyfactorywithwrittenapprovalofEngineer-in-charge.
23	Flush doors	AnyISImarkeddoor.
24	RCC Pipes	AnyISIMarkedpipe.
25	PVC tanks	AnyISImarkedtank.
26	Mirrors.	SaintGobain,ModiorasapprovedbyEngineer-in-charge.
27	False ceiling.	Armstrong,Durlum,Anutone.
28	PVC flushing cistern.	Hindware,cera,prayag
29	Manhole covers.	AnyISI marked.
30	Fittings for Structural Glazing	Dorma,Ebco,Ozone.
31	Silicon for structural glazing	Dow,Dubond,Sika,GE silicon.
32	PE-Al-PE pipes.	AsperIS15450-2004,Jindal,KitecIndustriesoras approved by Engineer-in-charge
33	Aluminum composite panels	Alstrong,Jindal
34	Insulating board	Supreme, Styrofoam or as approvedbyEngineer-in-charge.

35	Pressed steel door frames	Factory having valid ISI license or approved by Engineer-in-charge.
36	Fittings for Aluminum doors & windows.	Hardwyn, Ozone, Dorma.
37	Water proofing treatment	The bidder shall associate with him, specialized agencies of the appropriate eligibility to components of specialized nature of items. Contractor shall get the name(s) of his associated specialized agencies approved as early as possible and within one month of award of work from the Engineer-in-charge. whose decision shall be final and binding. If the contractor himself has carried out these specialized items then he shall not require associating with him the specialized agency. In compliance to this, the contractor shall have to supply sufficient proof of having valid experience and expertise for the execution of the same.
38	Structural Glazing& aluminum composite panels.	
39	Toughened Glass partitions.	
40	uPVC windows.	
41	Aluminum doors & windows	
42	Water supply and sanitary works	
43	Stainless steel railings	
44	Anti-termite treatment.	
45.	Stainless Steel Pipes	JINDAL
46.	SS& Brass hardware fitting	Prayag,Hettich,Godrej
47.	CPVC,UPVC,PTMT&SWR pipe& fittings	Prayag,Astral,Ashirwad
48.	Sand and Aggregate	Sone sand, and Koderma stone chips

## 12. List of Approved Make (Electrical Items)

Sr. No.	Items	Approved Manufacturer/Brand Name
1	PVC CONDUITS (MMS) ISIMARKED	AKG/PRECISION/ POLYCAB/MODI
2	PVC CONDUIT ACCESSORIES (ISI MARKED)	AKG/PRECISION/POLYCAB/MODI
3	M.S. CONDUIT-ERW (ISIMARKED)	BEC/AKG/NIC/STEEL CRAFT
4	M.S. CONDUIT ACCESSORIES (ISI MARKED)	BEC/AKG/NIC/STEEL CRAFT
5	PVC INSULATED FRLS COPPER CONDUCTOR CABLES 1.1 KV GRADE (ISI MARKED)	FINOLEX/POLYCAB/ HAVELLS/RR KABLE
6	MODULAR PLATE TYPE SCH/ SOCKET GI BOXES/FAN REGULATOR//TEL EPHONE SOCKET	SCHNEIDER (ZENCELO)/ LEGRAND ARTEOR /MK(WRAPAROUND+)/ NORTH WEST (STYLUS)
7	MCB/ ISOLATOR/ MCB DB"S /RCCB/ELCB/MODULERTYPE BELL	LEGRAND/SCHNEIDER/ABB/L&T/SIEMENS
8	LUMINAIRES/ LIGHT FITTINGS	PHILIPS/WIPRO/CROMPTON GREAVES
9	CEILING FAN/EXHAUST FAN	HAVELLS/CROMPTON GREAVES/USHA /ATOMBERGGORILLA/ALMONARD
10	TELEPHONECABLES/WIRES (ISIMARKED)/CO-AXIAL TV CABLES	FINOLEX/POLYCAB/HAVELLS/RR KABLE
11	CAT6CABLE/CAT 6A/ FIBER OPTIC CABLE & ASSOCIATED ITEMS	SCHNEIDER/SIEMON/SYSTI MAX/ LEGRAND
12	TELEPHONE TAG BLOCK DP BOXES	KRONE(GERMAN)/D LINK/ITL
13	LUGS/FERRULES/THIMBLES	DOWELLS/JAINSON
14	1.1 KV XLPE CABLE (ISI MARKED)	FINOLEX/POLYCAB/HAVELLS/RR CABLE
15	ELECTRICAL PANELS/METER BOARDS	CPRI Approved Panel Builder
16	RJ-45 MODULAR SOCKET AND PLATE	LEGRAND/SCHNEIDER/MK WRAPROUND/ NORTH WEST
17	MCCBS	THE LATEST MODEL/ SERIES OF LEGRAND/ L&T/SCHNEIDER/ABB/SIEMENS
18	OCCUPANCY SENSOR	PHILIPS/WIPRO/CROMPTON GREAVES HONEY WELL
19	CURRENT TRANSFORMERS	AUTOMATIC ELECTRIC/ KAPPA/ L&T/ NEPTUNE

20	DIGITAL INDICATING MEASURING INSTRUMENTS/MULTIFUNCTION METERS	L&T(QUASER)/SCHNEIDER(CONZERV)/AE
21	SELECTOR SWITCH	L&T/KAYCEE/SIEMENS
22	INDICATION LAMP & PUSH BUTTON	BCH/L&T/SIEMENS/ SCHNEIDER
23	BUS TRUNKING, RISING MAIN & TAP-OFF BOX	LEGRAND/L&T/ SCHNEIDER/C & S/ABB
24	LT CABLE (ISI MARKED) 1.1 KV	POLYCAB/HAVELLS/NATIONAL/GRANDLEY/RR CABLE
25	CABLETRAYS & ACCESSORIES	VENUS/SLOTCO/PILCO/REECO/OBO
26	CAPACITOR (ISI MARKED)	EPCOS/NEPTUNE/ SIEMENS/ L&T
27	CABLE GLAND/ LUGS/ THIMBLES	COMMET/DOWELLS/ RAYCHEM/ GRIPWELL
28	OCTAGONAL STEEL POLE	BAJAJ/TWINKLE/VOLMART/PHILIPS

NOTE -

1. Any other material beyond the above-mentioned list either Civil or Electrical items the qualified bidder should bring the sample for approval from the Engineer –in-charge before execution of works.
2. Other than above list, replacement of any equipment/parts may follow as per the OEM recommendations.

**13. LIST OF EQUIPMENTS/ACCSSORIES TO BE MAINTAINED**  
**Inventory & Details of Equipment**

**The contactor/agency has to comprehensively operate & maintenance the following installation-**

<b>33/11KV SUBSTATION</b>	
<b>1.0</b>	<b>33 KV Isolator Panel :-2- Nos.</b>
	Operation and Comprehensive Maintenance for HT panel board suitable for indoor installation for use on 33KV, 50HZ earthed system having at 33KV comprising triple pole Off load isolator. Panel is equipped with following accessories as below:
	<p><b>Incomer cum Outgoing Isolator Panel shall be comprising of:</b></p> <p><b>a.</b> 1No- Manually operated, 33KV isolator, metal clad housing having 800 A EDO draw out type incorporating mechanical as well as electrical ON/OFF indication.</p> <p><b>b.</b> Voltage Transformer resin cast mould type with 3 Numbers 1 phase 3 limbs connected in star dual class 33KV/RT 3/110 V/RT 3/110V/RT3/110V/3 with draw able type burden in line side with HRC fuses with digital Voltmeter (DM-3210) with inbuilt selector switch.</p> <p><b>c.</b> Trip circuit healthy indicator lamp.</p> <p><b>d.</b> Set of ON/OFF indication with phase indicating lights.</p> <p><b>e.</b> 220V AC strip Heater with thermostat and isolator to prevent absorption of moisture during winter and monsoon.</p>
<b>2</b>	<b>Battery With Charger 1- nos.</b>
	Operation and Comprehensive Maintenance for 430V, 3 phase, 4 wire A.C to 110 V DC 150 AH sealed maintenance batteries with semiconductor/IGBT (full wave rectifier) with auto manual/ trickle boost facility battery charging unit. The distribution board having 250 Amps DC MCCB as incomer and 12 Nos. 20/ 16A DP MCB's (D.C Duty) as outgoing.
<b>3</b>	<b>33 KV HT panel 5 sections 1-Nos.</b>
	Operation and Comprehensive Maintenance for H.T extendable type four sectional panel board suitable for outdoor installation for use on 33 KV 50 C/S earthed system having at 33 KV comprising the triple pole VCB panel equipped with following accessories.
<b>3.1</b>	<b>INCOMER PANEL 2 nos each comprising of :-</b>
<b>a</b>	<p>1-Metal clad housing with truck having 800 A TP integral VCB 1800 MVA with manually /electrically operated mechanism (spring charged motor -230 VAC)</p> <p><b>a.</b> 1 set of air insulated bus bar &amp; chamber</p> <p><b>b.</b> 1 set of isolating plug and receptacle</p> <p><b>c.</b> 1 set of automatic safety shutter</p> <p><b>d.</b> 1set of dual core CT's</p> <p><b>e.</b> 1 set of breaker control switch (TNC)</p>

<b>B)</b>	<b>Auxiliaries parts</b>
<b>a</b>	500/250/5A class 0.5 (10VA ) 2 core ( protection and metering)
<b>b</b>	HT cable joint box for 3c X 300sq mm aluminum conductor XLPE cable (33KV earthed)
<b>c</b>	3-Nos's P.T'S 33/0.11KV, class-0.5 for core-1, class-3P for core-2 of (50VA) resin cast mould type
<b>d</b>	1-No tripping coil & closing coil 110 V DC.
<b>e</b>	1-set ON/OFF /Trip & circuit healthy and phase indicating lights
<b>f</b>	1-3 element O/C, EF, arc fault relay and feeder protection relay
<b>g</b>	1-No multi-function meter (load management & compatible with PLC/ PC), voltmeter, ammeter
<b>h</b>	1-No master trip relay
<b>i</b>	1-Emergency stop
<b>j</b>	1- No. circuit supervision relay etc.
<b>3.2</b>	<b>OUTGOING PANELS 3 NOS. EACH COMPRISING OF:</b>
<b>a</b>	1-Metal clad housing with truck having 800 A EDO integral VCB with manually /electrically operated mechanism (spring charged motor -230 VAC)
<b>b</b>	1 set of air insulated bus bar
<b>c</b>	1 set of isolating plug and receptacle
<b>d</b>	1 set of automatic safety shutter
<b>e</b>	1- set of breaker control switches (TNC)
<b>f</b>	1 set of dual core CT's
<b>g</b>	Core I-200/100/ 5 class 0.5 (10VA)
<b>h</b>	Core II- 250/125/5 class 5P-10 (10 VA)
<b>i</b>	1- Shunt trip closing coil 110 V DC
<b>j</b>	1-33 KV end termination for 3x300 sq. mm. AIXLPE 33 KV cable
<b>k</b>	1-Over current S/C & EF Relay
<b>l</b>	1-No restricted earth fault relay with set of CTS
<b>m</b>	1-set ON/OFF /Trip & circuit healthy and phase indicating lights
<b>n</b>	1-2 elements auxiliary relay for transformer relay-03 nos.
<b>o</b>	1-No master trip relay
<b>p</b>	1-No circuit supervision relay
<b>q</b>	1-set of terminal block with 20% extra terminal for connection with 2.5sq. mm 4 core copper conductor pvc insulated pvc sheathed copper cable from panel to transformer
<b>r</b>	1-trip circuit supervision relay
<b>s</b>	1-3 phase differential relay with set of CTS of class PS on both sides.
<b>t</b>	1-12 No's annunciation window with relays and push buttons
<b>4</b>	<b>33/11KV Transformers: - 3 Nos.</b>

	Operation and Comprehensive Maintenance for 8000KVA 33000/ 11000 volts Delta/Star, vector group DYN11, outdoor mounting, oil cooled, ONAN transformer with on load Tap Changers (OLTC) having AVS relay and RTCC for automatic sensing of incoming voltage, automatic operation of OLTC and facility for remote manual operation of OLTC, suitable for incoming voltage variation of +7.5% tp -15 in equal steps of 1.25% to give a constant secondary voltage.
	<b>FITTINGS AND ACCESSORIES</b>
<b>a</b>	Rating plate, roller, plain oil gauge and conservator
<b>b</b>	Drain valve, Filter Valve, Sampling valve with Plug & Earthing terminals
<b>c</b>	Inspecting Cover, Thermometer pocket & lifting lugs
<b>d</b>	Silica gel Breather
<b>e</b>	Pressed steel radiator with shut off valve
<b>f</b>	PRV or explosion Vent, OTI & WTI with alarm trip constants
<b>g</b>	PT for Input & Output voltage measurement and relay sensing
<b>h</b>	Remote metering panel & Marshalling box
<b>i</b>	Double float Buchholz Relay with trip and trip contacts
<b>j</b>	Magnetic Oil level Gauge with alarm Trip Contacts Only
<b>k</b>	33/11kv cable boxes at incoming/ out going
<b>l</b>	Pressure release valve
<b>m</b>	On load Tap changer switch
<b>n</b>	Air Release Plug
<b>o</b>	Detachable cooling radiators fitted with shut off valve
<b>5</b>	<b>11KV Main Panel 12 sections</b>
	Operation and Comprehensive maintenance for 12 sections 11 KV extensible type, panel board suitable for indoor installation for use on 11 KV 50 c/s Earthed system having at 11KV comprising.
<b>A)</b>	<b>Incoming panels 5 No's each comprising of:</b>
<b>a</b>	1- Metal clad housing with truck having 800 A EDO integral VCB with manual and electrical operated mechanism (spring charged motor -230AC with indication for spring charged & trip circuit healthy
<b>b</b>	1-set of air insulated copper conductor bus bar chamber
<b>c</b>	1-set of isolating plug and receptacle
<b>d</b>	1- set of dual core CT's
<b>e</b>	Core-I 500/250/5 class 0.5( 10VA)
<b>f</b>	Core-II 500/250/5A class-5P-10 (10VA)
<b>g</b>	1- Flush mounted ammeter, voltmeter and multi-functional meter
<b>h</b>	1-H.T. 11 KV end termination suitable for 3 X 300 sq. mm AL. XLPE cable. 11 KV
<b>i</b>	3-No's PT 'S 11KV/RT3/110/RT3/110/RT3/110V/3 cast resin type. class-0.5 for core-1, class-3P for core-2 of (50VA) resin cast mould type
<b>j</b>	1-shunt trip/closing coil-110 V DC

<b>k</b>	1-set of ON/OFF trip & circuit healthy and phase indicating lamps (RYB)
<b>l</b>	1- Voltmeter with selector switch (built -in)
<b>m</b>	1-No combined 3 element O/C & 1 element E/F IDMTL relay
<b>n</b>	1- No Multi-functional relay.
<b>o</b>	1-Set power factor and frequency meter (In-built in feeder protection relay)
<b>B)</b>	<b>Outgoing panels 3 Nos. each shall comprising of:</b>
	1-Metal clad housing with truck having 11kV 800 A EDO integral VCB with manual and electrical operated mechanism (spring charged motor-230V AC)
<b>a</b>	1-set of air insulated copper conductor bus bar chamber
<b>b</b>	3-dual core CT's with rating 500/250/ 5A 10VA class-0.5 for core1 and class 5p for core 2.
<b>c</b>	1-shunt trip closing coil 110 V DC
<b>d</b>	1-H.T. 11KV end termination suitable for 3 X 300 sqmm AL XLPE cable 11 KV
<b>e</b>	3-Element IDTML 2 high set over current earth fault relay
<b>f</b>	1-no restricted earth fault relay
<b>g</b>	1-set ON/OFF & Trip indication
<b>h</b>	1-Auxiliary relay for temperature alarm and trip contacts
<b>i</b>	1-No – Ammeter and Voltmeter with selector switch.
<b>j</b>	1-master trip relay
<b>k</b>	1-Set of terminal block with 20% extra connection with 2.5 sq. mm 4-core copper conductor PVC insulated PVC sheathed copper cable from Panel to Transformer
<b>C)</b>	<b>Bus coupler and Bus-riser Panel -2 Nos. each comprising of :</b>
<b>a</b>	1-Metal clad housing with truck having 11kVA 800 A EDO integral VCB with electrical operated mechanism (spring charged motor-230V AC)
<b>b</b>	1-set of air insulated copper conductor bus bar chamber
<b>c</b>	1-shunt trip closing coil 110 V DC
<b>e</b>	1-set ON/OFF & Trip indication
<b>f</b>	1-Auxiliary relay for temperature alarm and trip contacts
<b>g</b>	1-No – Ammeter and voltmeter with selector switch.
<b>h</b>	1-Set of terminal block with 20% extra connection with 2.5 sq. mm 4-core copper conductor PVC insulated PVC sheathed copper cable from Panel to Transformer
<b>6</b>	<b>RMU:- 3 Nos.</b>
	Operation and Comprehensive Maintenance for HT extendable indoor plinth mounted type three section ring main units panel suitable for indoor installation for use on 11kv 50 C/S earthed system having 11KV comprising two No's incoming on -load type air break isolators and one no. outgoing triple pole 800 Amps SF6 equipped with following accessories.
	Protection Relays (Numerical type) shall have the following Protections enabled at a minimum O/L, S/C, E/F, U/V, O/F, U/F with all three elements , along with watch dog function

	The HT Panel had been provided necessary Aux. contacts, multiply those contacts in the respective panels to hook up in to PLC system
	<b>11 KV INCOMER</b>
	1-Metal clad housing with truck having 800 A EDO integral VCB manually and electrical operated mechanism (spring charged motor 230 V A.C.) with indication for spring charged & Trip circuit healthy
	1-set of air insulated copper conductor bus bar chamber
	1- set of dual core CT's
	Core-I 500/250/5A class 0.5 (10 VA)
	Core-II 500/250/5A class-5P-10 (10VA)
	1- Flush mounted ammeter, selector switch, voltmeter, multi-functional meter
	1-H.T. 11 KV end termination suitable for 3 X 300 sq. mm AL . XLPE cable. 11 KV
	3-No's PT 'S 11KV/RT3/110/RT3/110/RT3/110V/3 cast resin type. class-0.5 for core-1, class-3P for core-2 of (50VA) resin cast mould type
	1-shunt trip/closing coil-110 V DC
	1-set of ON/OFF trip & circuit healthy and phase indicating lamps (RYB)
	1-No combined 3 element O/C & 1 element E/F IDMTL relay, Micom P127
	1- No Multi-function meter (Compatible with PLC/PC)
	Mechanical and Electrical interlocking
	<b>6 Nos.11 KV Outgoing panels</b>
	1-Metal clad housing with truck having 11kVA 800 A EDO integral VCB with manual and electrical operated mechanism (spring charged motor-230V AC)
	1-set of air insulated copper conductor bus bar chamber
	3-dual core CT's with rating 120/60/ 5A 10VA class-0.5 for core1 and class 5p for core 2.
	1-shunt trip closing coil 110 V DC
	1-H.T. 11KV end termination suitable for 3 X 300 sqmm AL XLPE cable 11 KV
	3-Element IDTML 2 high set over current earth fault relay
	1-no restricted earth fault relay
	1-set ON/OFF & Trip indication
	1-Auxiliary relay for temperature alarm and trip contacts
	1-No – Ammeter and Voltmeter with selector switch.
	1-master trip relay
	1-Set of terminal block with 20% extra connection with 2.5 sq. mm 4-core copper conductor PVC insulated PVC sheathed copper cable from Panel to Transformer
	1-2 elements auxiliary relay for transformer relay-03 nos.
	<b>11KV/433 VOLTS SUBSTATIONS ESS-02 SERVICE BUILDING</b>
<b>1</b>	<b>11 KV INCOMER PANEL No.1</b>

	1-Metal clad housing with truck having 800 A EDO integral VCB manually and electrical operated mechanism (spring charged motor 230 V A.C.) with indication for spring charged & Trip circuit healthy
<b>A</b>	1-set of air insulated copper conductor bus bar chamber
<b>a</b>	1- set of dual core CT's
<b>b</b>	Core-I 200/100/5A class 0.5 (10 VA)
<b>c</b>	Core-II 200/100/5A class-5P-10 (10VA)
<b>d</b>	1- Flush mounted ammeter, selector switch, voltmeter, multi-functional meter
<b>e</b>	1-H.T. 11 KV end termination suitable for 3 X 300 sq. mm AL . XLPE cable. 11 KV
<b>f</b>	3-No's PT 'S 11KV/RT3/110/RT3/110/RT3/110V/3 cast resin type. class-0.5 for core-1, class-3P for core-2 of (50VA) resin cast mould type
<b>g</b>	1-shunt trip/closing coil-110 V DC
<b>h</b>	1-set of ON/OFF trip & circuit healthy and phase indicating lamps (RYB)
<b>i</b>	1-No combined 3 element O/C & 1 element E/F IDMTL relay, Micom P127
<b>j</b>	1- No Multi-function meter (Compatible with PLC/PC)
<b>k</b>	Mechanical and Electrical interlocking
<b>B</b>	<b>Outgoing panels each has comprising of:</b>
<b>a</b>	<b>5 Nos.11 KV Outgoing panels</b> 1-Metal clad housing with truck having 11kVA 800 A EDO integral VCB with manual and electrical operated mechanism (spring charged motor-230V AC) 1-set of air insulated copper conductor bus bar chamber
<b>b</b>	3-dual core CT's with rating 120/60/ 5A 10VA class-0.5 for core1 and class 5p for core 2.
<b>c</b>	1-shunt trip closing coil 110 V DC
<b>d</b>	1-H.T. 11KV end termination suitable for 3 X 300 sq.mm AL XLPE cable 11 KV
<b>e</b>	3-Element IDTML 2 high set over current earth fault relay
<b>f</b>	1-no restricted earth fault relay
<b>g</b>	1-set ON/OFF & Trip indication
<b>h</b>	1-Auxiliary relay for temperature alarm and trip contacts
<b>i</b>	1-No – Ammeter and Voltmeter with selector switch.
<b>j</b>	1-master trip relay
<b>k</b>	1-Set of terminal block with 20% extra connection with 2.5 sq. mm 4-core copper conductor PVC insulated PVC sheathed copper cable from Panel to Transformer
<b>l</b>	1-2 elements auxiliary relay for transformer relay-03 nos.
<b>m</b>	1- Set of terminal block with 20% extra terminal connection with 2.5 sq. mm 4-core copper conductor PVC insulated PVC sheathed copper cable from Panel to Transformer

<b>1.1</b>	<b>Electrical Substation 3:- 2 Jobs (ESS 3 Residential &amp; Hostel Block)</b>
<b>a</b>	<b>11 KV INCOMER PANEL No.1</b>
<b>b</b>	1-Metal clad housing with truck having 800 A EDO integral VCB manually and electrical

	operated mechanism (spring charged motor 230 V A.C.) with indication for spring charged & Trip circuit healthy
<b>1.2</b>	1-set of air insulated copper conductor bus bar chamber
<b>a</b>	1- set of dual core CT's
<b>b</b>	Core-I 200/100/5A class 0.5 (10 VA)
<b>2</b>	Core-II 200/100/5A class-5P-10 (10VA)
2.1	1- Flush mounted ammeter, selector switch, voltmeter, multi-functional meter
2.2	1-H.T. 11 KV end termination suitable for 3 X 300 sq. mm AL . XLPE cable. 11 KV
<b>3</b>	3-No's PT 'S 11KV/RT3/110/RT3/110/RT3/110V/3 cast resin type. class-0.5 for core-1, class-3P for core-2 of (50VA) resin cast mould type
	1-shunt trip/closing coil-110 V DC
3.1	1-set of ON/OFF trip & circuit healthy and phase indicating lamps (RYB)
3.1.1	1-No combined 3 element O/C & 1 element E/F IDMTL relay, Micom P127
3.1.2	1- No Multi-function meter (Compatible with PLC/PC)
3.2	Mechanical and Electrical interlocking
	<b>4 Nos.11 KV Outgoing panels</b> 1-Metal clad housing with truck having 11kVA 800 A EDO integral VCB with manual and electrical operated mechanism (spring charged motor-230V AC)
	1-set of air insulated copper conductor bus bar chamber
3.3	3-dual core CT's with rating 120/60/ 5A 10VA class-0.5 for core1 and class 5p for core 2.
3.3.1	1-shunt trip closing coil 110 V DC
3.3.2	1-H.T. 11KV end termination suitable for 3 X 300 sq.mm AL XLPE cable 11 KV
3.4	3-Element IDTML 2 high set over current earth fault relay
3.4.1	1-no restricted earth fault relay
3.4.2	1-set ON/OFF & Trip indication
3.5	1-Auxiliary relay for temperature alarm and trip contacts
3.5.1	1-No – Ammeter and Voltmeter with selector switch.
3.6	1-master trip relay
	1-Set of terminal block with 20% extra connection with 2.5 sq. mm 4-core copper conductor PVC insulated PVC sheathed copper cable from Panel to Transformer
	1-2 elements auxiliary relay for transformer relay-03 nos.
	1- Set of terminal block with 20% extra terminal connection with 2.5 sq. mm 4-core copper conductor PVC insulated PVC sheathed copper cable from Panel to Transformer

#### ESS -1 LT PANELS (HOSPITAL BLOCKS)

##### Incomer : (Transformers 5 Nos . )

Six (6) Nos. 3200 A ,FP EDO(50 KA) ACB Incomer Electrically Operated drawout type Air Circuit Breaker Completed with Micro Processor based O/C,S/C, &E/F Release ZSI With port Following

a. Spring charged motor : 230V AC

Closing Coil :230 V AC

Shunt Trip Release :230 AC

	U/V Release :415V AC				
	Aux. Switch with 4 c/o contact				
	Fault Trip Contact				
	Ready to close Contact				
	Drawout frame shutter assembly				
3.6.2	1 set of MPCB 65 KA for control Ckt				
	1 Set 63A ,TPN,SPD,6.3A,TP,MPCB				
	1- set of dual core CT's				
3.6.3	Core-I 3/3200/5A class 1 (15 VA)				
3.7	Core-II 3/3200/1A class-PS-10 (15 VA)				
3.7.1	4000A , 5400 Sq.mm FP AL. Bus Bar Fault Level 50 KA for 1 Sec.				
	1 .Nos IFM+BSCM,500 Volt & with light indicators				
3.8	<b>Outgoings:</b>				
3.8.1	29 Nos. Electrically Operated drawout type Air Circuit Breaker Completed with Micro Processor based O/C,S/C, &E/F Release voltage parameter With port Following accessories:				
	Spring charged motor : 230V AC	1600A, FP ,EDO (50KA)-05.Nos 1250A, FP,EDO (50KA)-07.Nos 1000A, FP ,EDO (50KA)-06.Nos 0800A, FP ,EDO (50KA)-05.Nos 1600A, TP ,EDO (50KA)-04.Nos			
3.8.2	Closing Coil :230 V AC				
3.8.3	Shunt Trip Release :230 AC				
3.8.4	U/V Release :415V AC				
4	Aux. Switch with 4 c/o contact				
4.1	Fault Trip Contact				
4.1.1	Ready to close Contact				
4.1.2	Draw out frame shutter assembly				
	12 Nos., MCCB (Outgoing) Plug in type molded case circuit breaker with microprocessor based O/C,S/C,E/F release with ZSI & current & voltage parameters, (Ics=100% Icu) with following accessories:-				
	a. Rotatory operating mechanisms			04 nos.	630A FP 50KA-05 Nos.
	b. Aux. contact + Trip alarm contact	04 nos. + 04 nos.	400A FP 50KA-03 Nos. 160A FP 50KA-04 Nos.		
	c. Plug in base (Complete kit)	12 nos.			
	<b>ACB (Bus Coupler)</b>				
4.1.3	Electrically Operated drawout type Air Circuit Breaker Completed with Micro Processor based O/C,S/C, &E/F Release Without port Following accessories:				
	Spring charged motor : 230V AC	3200A, FP EDO (50KA)-05 Nos.			
	Closing Coil :230 V AC				
4.1.4	Shunt Trip Release :230 AC				
4.1.5	U/V Release :415V AC				
4.1.6	Aux. Switch with 4 c/o contact				
4.1.8	Ready to close Contact				
4.1.9	Draw out frame shutter assembly				
	<b>Accessories of incoming panel, outgoing panel of ESS-1 are given below:</b>				
	IFE	IFE Interface + Gateway	----- 06 Nos.		

		NSX cord= 1.3 m		15 Nos.
		NSX cord=3.0 m		09 Nos.
	IFM	IFM Modbus interface module		41 Nos.
	FDM	Switchboard front display module FDM		47 Nos.
		Breaker status and control module (BSCM)		24 Nos.
		5 RJ45 connector female		37 Nos.
		ULP cord =1.3 m		10 Nos.
		ULP cord =3.0 m		25 Nos.
		1 RJ45 male cord (L=5.0 m)		37 Nos.
		Stacking connector for COM interface		53 Nos.
		Power supply input-230V AC, output 24V DC		24 Nos.
	IFM	IFM modbus interface module	7 pin	12 Nos.
	FDM	Switchboard front display module FDM		12 Nos.
		5 RJ45 connector female		lot
	C.T	Current transformer resin cast	3200/5A, CL-1.0, 15VA 3200/1A, CL-PS	18 Nos. 12 Nos.
	64 HR	Flash mounted restricted earth fault relay with high impedance, with stabilizing resistor AUX, contact :2C/O S/R	CTR-/1A	04 Nos.
	27/59	3Phase, 3W, 230 V AC, Over/Under Voltage relay, AUX.-2C/O		06 Nos.
	86	Master trip relay with flag require. AUX. Voltage : 240 V AC AUX. Contact : 2NO+2NC (H/R)		04 Nos.
	V	3 phase Voltmeter with inbuilt VSH 96 sq.mm, 415V, AC, AUX. 230 V AC	0-500V	06 Nos.
	MPCB	Motor protection with circuit breaker with thermal magnetic O/C, S/C released	4-6.3A, TP, 100KA	06 Nos.
	R Y B	Indication light LED Type	RED, YELLOW, BLUE (230V AC)	18 Nos.
	SPD	SURGE PROTECTION DEVICE		6 Nos.
	H1,1H1, H2,H3,H4,H 5,H6	INDICATION LIGHT TYPE	RED GREEN AMBER Blue White	55 Nos. 54 Nos. 47 Nos. 11 Nos. 17 Nos.

		Push Button		10 Nos.
		MCB C-CURVE	6A, SP,10 KA 6A, DP,10KA 16A, DP,10KA 63A TPN 10KA	251 52 05 06
		AUX.CONTACTOR	3 NO+1NC, 230 V AC 2NO+2NC, 230 V AC	10 24
		ADD ON AUX. CONTACT BLOCK	2 NO+2NC	06
	BCS	BREAKER CONTROL SWITCH WITH SPRING RETURN TO NEUTRAL	16A	42 Nos.
	A/M	AUTO MANUAL SELECTOR SWITCH WITHOUT OFF	6A 2 POLE 2 WAY	01 Nos.
	T	ON DELAY TIMER,230 V AC	0-60 SEC	5 Nos.
		Door switch	1NC+1NO 6A	33 Nos.
		Thermostat	1NC (30-75 C)	33 Nos.
		SPACE HEATER	240V AC 60 WATT	33 Nos.
		Switch and socket , 6A, 5PIN,240 V AC		33 Nos.
		Lamp and Holder	5 Watt 240 V 3PIN	66 Nos.
	PLC	Programming logic controller 24 V DC FOR 06TR & 05B/C INTERLOCKING AND REQUIRED ACCESSORIES.	24 V DC	1 Set
	RL	Aux. Relay 24 V DC WITH BASE COMBINED RELAY SET	8 CHANNEL 24 V DC (2C/O) 4 CHANNEL 24 V DC (2C/O)	1 NOS. 1 NOS.
	P.S	POWER SUPPLY INPUT-230 V AC OUTPUT 24 V -DC	230 V AC/24V DC, 10A	1 Nos.
<b>ESS-02 LT PANNEL</b>				
six (6) Nos. ACB Incomer Electrically Operated draw out type Air Circuit Breaker Completed with Micro Processor based O/C,S/C, &E/F Release ZSI With port Following				
		Spring charged motor : 230V AC	2500A, FP EDO (50KA)	
4.2.2		Closing Coil :230 V AC		
4.2.3		Shunt Trip Release :230 AC		
4.2.4		U/V Release :415V AC		
4.2.5		Aux. Switch with 4 c/o contact		
4.3		Fault Trip Contact		
4.3.1		Ready to close Contact		
4.3.2		Drawout frame shutter assembly		
4.4.1		<b>ACB (Bus Coupler)</b>		

4.5	04 Nos. Electrically Operated drawout type Air Circuit Breaker Completed with Micro Processor based O/C,S/C, &E/F Release Without port Following accessories:		
4.5.1	Spring charged motor : 230V AC	2500A,FP,EDO ( 50KA)	
4.5.2	Closing Coil :230 V AC		
4.5.3	Shunt Trip Release :230 AC		
4.5.4	U/V Release :415V AC		
4.5.5	Aux. Switch with 4 c/o contact		
4.5.6	Ready to close Contact		
	Draw out frame shutter assembly		
5.1	<b>Outgoings:</b>		
5.1.1	18 Nos. Electrically Operated drawout type Air Circuit Breaker Completed with Micro Processor based O/C,S/C, &E/F Release voltage parameter With port Following accessories:		
	Spring charged motor : 230V AC Closing Coil :230 V AC Shunt Trip Release :230 AC Aux. Switch with 4 c/o contact Fault Trip Contact Draw out frame shutter assembly	1000A,FP,EDO ( 50KA)-05 Nos, 800A,FP,EDO ( 50KA)-02 Nos, 1600A,TP,EDO ( 50KA)-06 Nos, 1250A,TP,EDO ( 50KA)-05Nos,	
	28 Nos., MCCB (Outgoing) Plug in type molded case circuit breaker with microprocessor based O/C,S/C,E/F release with ZSI & current & voltage parameters, (Ics=100% Icu) with following accessories:-		
	Rotatory operating mechanisms = Nos	630A FP 50KA	07 Nos
	Aux. contact + Trip alarm contact=56 Nos	400A FP 50KA	04 Nos
	Plug in base (Complete kit)=28 Nos	250A FP 50KA	01 Nos
		200A FP 50KA	12 Nos
		160A FP 50KA	01 Nos
		100 FP 50KA	03 Nos
5.1.3	IFE Interface + Gateway		07 Nos
5.1.4	NSX cord= 1.3 m		21 Nos
5.1.5	NSX cord=3.0 m		07 Nos
5.1.6	IFM Modbus interface module		44 Nos
5.1.7	Switchboard front display module FDM		51 Nos
5.2	Breaker status and control module (BSCM)		<b>28</b> Nos
5.2.1	5 RJ45 connector female		44 Nos
5.2.2	ULP cord =1.3 m		10 Nos
5.3	ULP cord =3.0 m		<b>13</b> Nos
5.3.1	1 RJ45 male cord (L=5.0 m)		44 Nos
5.4	Stacking connector for COM interface		<b>44</b> Nos
5.4.1	Power supply input-230V AC, output 24V DC		<b>26</b> Nos
R Y	INDICATION LIGHT LED TYPE	<b>RED, YELLOW ,BLUE 230V,AC</b>	<b>16</b> Nos

B			
H1,1H 1,H2,H 3H4,H 5,H6	INDICATION LIGHT LED TYPE	<b>RED ,GREEN,AMBER,BLUE,WHI TE</b>	<b>185 Nos</b>
5.4.2	ILLUMINATION PUSH BUTTON AMBER +1NC	AMBER	02 Nos
	ILLUMINATION PUSH BUTTON WHITE+1 NO	WHITE	06 Nos
5.4.5	Current transformer resin cast	2500/5A, CL-1.0,1.5VA	15 Nos
		2500/1A, CL-PS	12 Nos
5.4.6	Flash mounted restricted earth fault relay with high impedance, with stabilizing resistor AUX, contact :2C/O S/R	CTR- ---/1A	03 Nos
5.4.7	3Phase, 3W, 230 V AC, Over/Under Voltage relay, AUX.-2C/O	CTR-230V,AC	05 Nos
5.4.8	Master trip relay with flag require. AUX. Voltage : 240 V AC AUX. Contact : 3NO+2NC (H/R)	AUX-240V,AC	03 Nos
	TRIP CIRCUIT SUPERVISION RELAY (PRE CLOSING & AFTER CLOSING) AUX.VOLTAGE:240V AC AUX. CONTACT 2NO+2NC	AUX-240V,AC	03 Nos
	MCB (10KA )	C-CURVE	6A,SP,10KA=231 Nos. 6A,DP,10KA=47 Nos 16A,DP,10KA=05 Nos 63 A,TPN,10KA=05 Nos
OS	3 phase Voltmeter with inbuilt VSH 96 sq.mm, 415V, AC, AUX. 230 V AC	0-500V	05 Nos
5.4.10	Motor protection with circuit breaker with thermal magnetic O/C, S/C released	4-6.3 A,100KA	05 Nos
	SURGE PROTECTION DEVICE		05 Nos
	AUX.CONTACTOR	3NO+1NC,230V AC	08 Nos
	ADD ON AUX. CONTACT BLOCK	2NO+2NC,230V AC	20 Nos
	BREAKER CONTROL SWITCH WITH SPRING RETURN TO NEUTRAL	16 A	27 Nos
	AUTO MANUAL SELECTOR SWITCH WITHOUT OFF	6A,2POLE,2 WAY	01 Nos
	ON DELAY TIMER,230 V AC	0-60 SEC	04 Nos
		1NC+1NO,6A	29 Nos
	Thermostat	1 NC,30-75.C	29 Nos
	SPACE HEATER	60 WATT	29 Nos

	Switch and socket , 6A, 5PIN,240 V AC	6A	29 Nos
	LED ILLUMINATION LAMP 230V,AC	5 WATT,240V AC	29 Nos
	Lamp and Holder	3 PIN TYPE	29 Nos
	Programming logic controller 24 V DC FOR 06TR & 05B/C INTERLOCKING AND REQUIRED ACCESSORIES.	24V DC	01 SET
	Aux. Relay 24 V DC WITH BASE COMBINED RELAY SET	8 CHANNEL 24V DC(2C/O)	01 Nos
		4 CHANNEL 24V DC(2C/O)	01 Nos
	POWER SUPPLY INPUT-230 V AC OUTPUT 24 V -DC	230VAC/24V DC,10A	01 Nos

5.4.12	<b>ESS-03 LT PANNEL</b>		
5.4.13	Three (03) Nos. ACB Incomer Electrically Operated drawout type Air Circuit Breaker Completed with Micro Processor based O/C,S/C, &E/F Release ZSI With port Following		
	Spring charged motor : 230V AC	1250A, FP, EDO (50KA)	
	Closing Coil :230 V AC		
	Shunt Trip Release :230 AC		
	U/V Release :415V AC		
	Aux. Switch with 4 c/o contact		
	Fault Trip Contact		
	Ready to close Contact		
	Drawout frame shutter assembly		
	UNCO MODULE		
	<b>ACB (Bus Coupler)</b>		
	02 Nos. Electrically Operated drawout type Air Circuit Breaker Completed with Micro Processor based O/C,S/C, &E/F Release Without port Following accessories:		
6.1	Spring charged motor : 230V AC	1250A, FP EDO (50KA)=01	
	Closing Coil :230 V AC		
	Shunt Trip Release :230 AC		
	U/V Release :415V AC		
	Aux. Switch with 4 c/o contact		
	Ready to close Contact		
	Draw out frame shutter assembly		
6.1.1	MCCB (Outgoing) Plug in type molded case circuit breaker with microprocessor based O/C,S/C, release, (Ics=100% Icu) with following accessories:-		

Rotatory operating mechanisms =11 Nos Aux. contact + Trip alarm contact=11 Nos	250A FP 25KA =05 Nos 200A FP 25KA =01 Nos 100A FP 25KA =01 Nos 800A FP 35KA =02 Nos 630A FP 35KA =01 Nos 400A FP 35KA =01 Nos	
Digital Multifunction Meter 96 sq.mm,3 phase,4w,CTR/5A CL-1.0 NOMINAL VOLATGE :415 VOLT AC AUX. VOLTAGE :230 VOLT AC COMMUNICATION PORT:RS485 HAVINGNG PARAMETER: V,A,PF,THD,F,W Wh ,VA,VAH,Var,Varh & RUNHrs.	1250/5A	02 Nos.
Current Transformer Resin Cast	1250/5A,CL-1.0,15VA	06 Nos
INDICATION LIGHT LED TYPE	RED,230V AC YELLOW,230V AC BLUE 230 V AC GREEN 230V AC AMBER 230 V AC	50 Nos
Breaker Control switch with spring return to Neutral	16 A	03 Nos
AUTO/MANUAL SELECTOR SWITCH	3P,2 WAY W/O OFF	01 Nos
<b>AUX.CONTACTOR</b>	<b>3NO+1NC,230V AC</b>	02 Nos
<b>ADD ON AUX. CONTACT BLOCK</b>	<b>2NO+2NC,230V AC</b>	03 Nos.
MCB (10KA )	C-CURVE	6A,SP,10KA=36 Nos.
		6A,DP,10KA=02
		16 ,DP,10KA =03
LED FOR PANEL INTERNAL ILLUMINATION	11 WATT 230 V AC	07 Nos
HOLDER FOR LED	2 PIN 230 V AC	07 Nos
Door Switch	1 NO+1NC	07 Nos
Space Heater	240 V AC 60 WATT	07 Nos
THERMOSTATE	30-80*C	07 Nos
SELECTOR SWITCH	2P,2W,16A WITH OFF	07 Nos
16 A SWITCH & SOCKET	16A	02 Nos
Auxiliary relay 2C/O, 220V	2C/O	18 Nos
Surge protection Device (TPN)		02 Nos
Power supply Input -230V AC, Output 24V DC	230V, AC/24V, DC, 1A	02 Nos
Voltage monitoring relay, nominal voltage 3q, 3W, 415V AC U/V setting: 75%-95% (ADJ.), O/V setting: 105%-120% (ADJ.)	3P,3W,415V, AC	02 Nos

	Output contact: 2/O		
	ON delay timer, 1/CO, Aux. supply-230V AC	0-30 sec, 230V, AC	04 Nos
	<b>HYBRID POWER FACTOR CORRECTION PANEL (400KVAR+600 A) FOR ESS-01, 02 &amp; 03</b>		
6.2.1	Electrically Operated drawout type Air Circuit Breaker Completed with Micro Processor based O/C,S/C, &E/F Release and Following Accessories:		
6.3	Spring charged motor : 230V AC	<b>1600A, TP EDO (50KA)</b>	
6.3.1	Closing Coil :230 V AC		
6.3.2	Shunt Trip Release :230 AC		
6.3.3	U/V Release :415V AC		
6.3.4	Aux. Switch with 4 c/o contact		
6.3.5	Fault Trip Contact		
<b>7</b>	Ready to close Contact		
<b>7.1</b>	Drawout frame shutter assembly		

7.1.1	MCCB (Outgoing) Plug in type molded case circuit breaker with A. microprocessor based O/C,S/C,	400A,TP,(36KA)=08 Nos
	MCCB (Outgoing) Plug in type molded case circuit breaker with B. Thermal Magnetic based O/C,S/C	200A,TP,(36KA)=08 Nos 125A,TP,(36KA)=08 Nos 63,TP,(36KA)=16 Nos
	POWER CONTRACTOR CAPACITOR DUTY COIL VOLTAGE 230V AC	100KVAR ,TP (1NO) =08 Nos 50KVAR ,TP (1NO) =08 Nos 25KVAR ,TP (1NO) =16 Nos
	POWER CONTRACTOR TP COIL 230V AC WITH AUX. CONTACT AC3 DUTY	400A TP=08
	AMMETER 96 SQ.MM INBUILT ASS CTR/5A, AUX.VOLTAGE 230V AC	0-1600A= 4 Nos.
	FUSE	400A =24 NOS.
	CURRENT TRANSFORMER RESIN CAST	1600/5A,CL-0.5,15VA= 12 Nos. 200/5A,CL-1,15VA= 8 Nos. 125/5A,CL-1,15VA= 8 Nos. 60/5A,CL-1,15VA= 16 Nos.
	Power capacitor	33.1 KVAR AT 525V, AC = 64 Nos.
	ON DELAY TIMER, 230VAC	230VAC = 04 Nos.
	AUTO/ MANUAL SELECTOR SWITCH	6A, 3 POLE, 2 WAY = 04 NOS.
	ON/OFF SELECTOR SWITCH	6A, 2 POLE+1 WAY= 08 Nos.
	Ammeter SEL. SWITCH 6A,4 POS.	6A, 4 POS =32 Nos.
	Ammeter 96 SQ.MM CTR/5A	0-200/400 A -8 Nos. 0-125/250 A-8Nos. 0-60/120 A -16 Nos.
	DETUNED REACTOR 14 % COPPER WOUND AT 440 VAC	100 KVAR – 8 Nos. 50 KVAR – 8 Nos. 25 KVAR – 16 Nos.
	ACTIVE FILTER	600A -4 Nos.
	HUMAN MACHINE INTERFACE	HMI -4 Nos.
	AUTOMATIC POWER FACTOR CORRECTION RELAY 415V AC, 8 STAGE	CTR--/5A,415V AC-4 Nos.
	INDICATION LIGHT LED TYPE 'RED', 'YELLOW', 'BLUE', 'GREEN', 'AMBER'	230V AC = 48 Nos, 04 Nos, 04 Nos, 44 Nos, 04 Nos respectively.
	Push BUTTON WITH SPRING RETURN	1 NOS 'GREEN' =32 NOS., 2NC 'RED'=32 NOS.
	MINIATURE CIRCUIT BREAKER	6A,SP(10KA)=76 Nos.,10 A, FP(10 KA)=08 NOS.
	BREAKER CONTROL SWITCH WITH SPRING RETURN TO NEUTRAL	25A= 4 Nos.
	Exhaust fan 230 AC,	8 INCH,230V, AC = 16 NOS.
<b>10</b>	<b>SCADA SYSTEM: - 1 Set</b>	
10.1	Operation and Comprehensive maintenance for SCADA system for monitoring, data logging of all electrical parameters of 33KV/11KV substation 3 nos. 11KV/415 substation along with HT panel, Transformer, LT panel, DG sets, UPS system, Incoming and Outgoing switches.	
10.2	The system is in ESS- 2 and linked with 33KV substation and ESS1 and ESS 3 by fiber optic cabling	

10.3	Operation and Comprehensive maintenance, software, accessories cabling, PLC, I/O modules Computer monitor, CPU, Printer etc. for effective working and data logging of SCADA SYSTEM complete.
<b>11</b>	<b>Solar Panel:</b>
11.1	Operation and Comprehensive maintenance of 1 set 225 KWp Solar Power pack capable of running related load comprising of
	On-Grid type transformer less Invertor
	Solar Module
	Array junction box
	Main junction box
	PCU (Power Condition Unit) 230 V ac output, suitable inverter system
	AC distribution board
<b>12</b>	<b>Bus Duct and cable</b>
12.1	Operation & Comprehensive Maintenance for LT Bus-duct with copper Bus Bar, 3P + 100% neutral + 50% internal ground bar, sandwich type 65KA/1Sec , IP-55, Complete with all accessories, bends, copper flexible and connection etc. Enclosure made of extruded aluminum 2mm thick with cooling fin on both top and bottom.
12.2	Operation and Comprehensive maintenance for aluminium conductor XLPE insulated, sheathed, Armoured U.G. Panels cable of 1.1KV grade, 11 KV and 33 KV
<b>13</b>	<b>Earthing</b>
13.1	Comprehensive Maintenance of GI pipe earthing electrode made as pipe in pipe technology (IS : 3043) : 1987) with polylactic pit cover duly CPRI Approved, tested for current rating of 25KA for one second with peak current of 52.5 KA duly filled with eco-friendly back filled compound as per following specification (CPWD /CPRI approved make)
13.2	Space inside Electrode filled with crystalline graphite powder mixture (back fill compound) a mixture of sodium Bentonite, Magnesium sulphate Graphite and Portland cement
13.3	Maintenance of each earthing whether it is new or existing will be in the scope of contractor and maintain the resistance value less than 5 ohms of each electrode
<b>14</b>	<b>UPS System</b>
	1.1 2x400 KVA, Microprocessor based on line UPS with a set of 240 nos. 12-volt, 120 Ah battery at ESS-1
	1.2 2x300 KVA, Microprocessor based on line UPS with a set of 180 nos. 12-volt, 120 Ah battery at ESS-1
	1.3 2x300 KVA, Microprocessor based on line UPS with a set of 180 nos. 12-volt, 120 Ah battery at Academic block
	1.4 2x100 KVA, Microprocessor based online UPS with a set of 90 nos. 12-volt, 120 Ah battery at Auditorium 1x60 KVA, Microprocessor based online UPS with a set of 38 nos. 12-volt, 120 Ah battery at Ayush block

## 14. GENERAL CONDITIONS OF CONTRACT

### GENERAL

1. The maintenance of work shall be done as per rules and specification of CPWD and as per I.E. Rules & Acts, amended up to date.
2. Contractor shall deploy suitable qualified /experienced technical Staff as under for maintenance for the works as above on all days i/c Sunday & All types of Holidays (all necessary tools for preventive maintenance should be provided by the agency to deployed workers).  
Round the clock maintenance.
  - 2.1 The scope of work also includes repair/replacement/ overhauling of all the parts of the machines/equipment's, which become defective, inefficient or get damaged during working. The decision of the Engineer-in-charge regarding repair /replacement/ overhauling of any part of the machine will be final and binding on the contractor.
3. The firm will have to inform the name and qualification of the workers to be employed on different shifts to the Engineer-in-charge or his authorized representative.
4. Helper/cleaner should be physically fit. He will assist the technical staff during maintenance, preventive maintenance and also carry out routine cleaning of all equipment.
5. Contractor shall also depute expert Engineer along with other technical staff for preventive check of all the equipment /installation once in a month regularly and also when required by the Engineer-in-charge.
6. Minimum onsite manpower will have to deputed at worksite (24x7):

Sl. No.	Manpower Description	No. of manpower	Qualification
1.	Site In charge	01	BE/B.Tech in Electrical Engineering with 10-year experience of substation
2.	UPS Technician	01	Diploma or ITI in electrical Stream with 5 years' experience of UPS.
3.	Service Engineer/ Technician	03	Diploma/ITI in electrical engineering with 5 years' experience.
4.	Helper/Cleaner	03	10th pass.

7. Whenever the contractor's staff is not available/not attending the duty/complaint, recovery shall be made as under:
  - a. Engineer @Rs 2000/- per day/person
  - b. Technician @ Rs 1000/- per day/person
  - c. Helper/Cleaner @ Rs 800/- per day/person
8. Payment shall be made quarterly basis, subject to availability of budget/LOC. However, payment to staff shall be made regularly as per labour laws by cheque/ECS only.
9. The on-duty staff must be in clean uniform, ID card & badges. Uniform & ID Card should be provided by the agency to workers nothing extra will be paid on account of uniform. In case the operator is found without uniform / ID card, the recovery @ 100/- per person per day will be made from the bill.
10. The department shall have liberty to cancel/stop the work at any time without assigning any reason and also if the performance is found unsatisfactory, in the opinion of the Engineer-in-charge.
11. It includes periodical, checking & testing of all installations to keep ready for safe operation

- at all the time.
12. The contractor shall arrange his own T & P etc. He will also arrange petty material like old dhoti, soap, duster, lubricant, gland dori, log books & register as required for which nothing extra shall be paid.
  13. Suitable log book for testing and register for preventive maintenance carried out as per manufactures recommendation shall be maintained at site by the contractor and shown to Engineer-in-charge of site fortnightly.
  14. In case, the contractor stops the work in between or his work is discontinued due to unsatisfactory performance, the security deposit shall be forfeited by the department and other legal action may be taken by the deptt. as deemed fit under contract rule.
  15. No worker shall be employed for more than 8 hours, the firm/contractor shall maintain wage record and he should not pay wage less than the minimum wages as prescribed/amended by the labour Department/Govt. from time to time.
  16. The contract provides for maintenance, preventive maintenance servicing testing of above equipment's, up keep of log book and also minor repair both electrical and mechanical. The spares to be supplied by the department for minor repair free of cost at site, the contractor shall keep record of all such material issued to his representative and dismantle material shall be returned to the department after repairs.
  17. The contractor shall intimate immediately without loss of time to site Engineer for occurrence of such faults and in the writing to Engineer-in-charge.
  18. The contractor /firm are strongly advised to visit the site for work before quoting the rates, in order to ascertain the quantum and location of works.
  19. Providing 1 No. mobile phone to maintenance staff at each site and intimated the cell numbers to related client and AIIMS officers immediately after award of work i/c transportation for moving in the campus.
  20. The agency will provide reliever/ weekly rest/ leave to the employee within quoted rates as per rules for which nothing extra shall be paid.
  21. Contractor shall have to arrange full demonstration drill of installations to ensure the perfect working of installation once in a month with prior intimation of date of demonstration in presence of Engineer in charge and a certificate in this respect shall be submitted regularly.
  22. The staff to be deployed for the work shall be agency's employees only for all purpose & the agency shall be responsible for payment of their wages & all fringe benefits as per labour laws. The staff shall not have any claim of any sort on the department at any time and cannot claim to be the department's employee at any stage & shall have no right of job in the department.
  23. In case of accident the contractor shall be responsible for any compensation to his workers deputed on the work by him no claim shall be entertained by the department.
  24. Round the clock i/c watch and ward of the equipment shall be the contractor's responsibility and any loss or damage to the equipment shall have to be made good/repaired/replaced as per the original standards/specification of the department, by the contractor at his own cost and nothing extra shall be paid by the department.
  25. The worker deputed on the work by the contractor should be well behaved if he misbehaves during the work on the site legal action will be taken by the department.
  26. Labour welfare cess at @1% and other statutory deductions will be deducted from the bills payable to the firm in addition to income tax.
  27. The firm will have to handover the system completely in working order to the other firm at the time of expiry of contract. Inventories of system and installations shall be prepared and signed by both the firm. Any discrepancy will be found at that time, suitable recoveries will be made from contractor bill. The decision of Engineer-in charge will be final & binding.
  28. Labour laws will be applicable as per GCC-2023 clause - 19. Record of wages, ESI and EPF paid/ deposited shall be submitted with each bill.

## **15) Scope of Work:**

## **SCHEDULE- E Scope of Work**

Agency shall provide the following services under operation and maintenance work (but not limited to) with necessary housekeeping for Sewage treatment plant.

### **Transformer**

Comprehensive AMC, labour support excluding Spares/Parts, consumables.

Attending breakdown visits / faults finding.

Scope includes - Transformer Oil test, checking of Protection Pipe, Oil Filtration (yearly), Relays, all wear and tear items, Transformer testing (Yearly), Leakage arrest. Online PM Includes:

Checking and calibration of monitoring equipment's.

Checking of Transformer Protection Unit.

Protection Relays calibration.

Measuring of Voltage, Current, and Frequency in all equipment's.

Earthing Voltage Testing.

Cable Termination checking.

Temperature measurement in all termination points through laser guided Temperature meter.

Note down of any fault for rectification in offline PM.

### **Earthing**

1. Yearly once earthing check.
2. Consumables/materials are included.

### **HT Panel**

33 kV HT Panel, 33 kV RMU, Metering Panel, LT Panel, ACDB, DG Sync Panel, PDU, Earth Pit - MV Circuit Breakers:

- a) Examination of auxiliary switches, indicating devices and interlocks to ensure that they are in good order physically.
- b) Check fixed and moving contacts.
- c) Physical checking of Epoxy Housing
- d) Check close & trip coil.
- e) Checking of control circuit & tighten the connections, if any.

### **ISOLATOR Panel**

1. Following Tests will be carried out
  - a) Closing & Opening Timing Test for all three poles
  - b) IR Test with megger
  - c) Contact resistance Kit for all three poles

#### 2. Hi-pot

Numerical Relays:

- a) Check auxiliary supply and control voltage.
- b) Testing of relay with Omicron kit
- b) Following test will be carried out

#### 3. Functional Verification of individual feeder

#### 4. Simulation test for tripping of related feeder

#### 5. Control Supply Scheme verification

#### 6. MV Panel:

- a) Check the space heater
- b) Clean the breaker compartment thoroughly
- c) Clean the Cable chamber
- d) Check cable end termination & tighten if required.
- e) Check shutter operation.
- f) Check tightness of circuit & earth connections. Test insulation resistance.
- g) Check busbar support insulators.

- h) VCB rack-in & rack out operation
  - i) Check of limit switches, control cable conduit
7. Following test will be carried out
- a) . IR Test
  - b) Contact resistance test (this will be done without opening of busbar insulation –HT tape & compound)
  - k) Check auxiliary supply and control voltage.
  - l) Check control and power fuses/ indication lamps
  - m) Check the space heater.
  - n) Check close & trip coil
  - o) Checking of control circuit & tighten the connections if any.

p) Following test will be carried out

i. Current Transformers

1. Insulation resistance test
2. Ratio Test by Primary injection
3. Knee point voltage test for PS class CT

ii. Potential Transformers

1. Insulation resistance test
2. Ratio Test by Primary injection
3. Polarity Test
4. DG Panel Checking of all functional parameters, control settings.

#### **Capacitor**

Panel Checking of all functional parameters, control settings.

#### **Control Panel**

Checking of all functional parameters, control settings.

#### **LT PANEL**

Checking of all functional parameters, control settings.

1. Cleaning up of Dust and greasing (only on moving parts) of total Panel.
2. Do the tightness of the junction points/nuts & bolts.
3. Checking the breaker settings & function.
4. Measuring of panel earthing value & connections.
5. Checking of the cable sockets conditions.
6. Checking of measuring meters & its functions. Repair only in case of requirement (Vendor will not provide any standby meter during repairing period).
7. Under Voltage and Over Voltage trip settings checking.
8. Maintenance of all Electrical items with physical / functional checking and carrying out preventive maintenance of all the
  - a) Control Panels/DBs, minor repair / replacement of components.
  - b) Indicating instruments like power meters, volt meters, amp meters etc. mounted in the panels/DBs
  - c) checking of power and control cables, checking of all wires, checking of terminations tightness of all cables etc. Existing earth pit service / repair is covered under the scope.
  - d) No. of preventive maintenance to be carried out 2 times in a year

## MAINTENANCE SCHEDULE

## TRANSFORMER

### WEEKLY

- 1 Clean the transformer with cotton rags.
- 2 Check that temperature rise is reasonable.
- 3 Check the oil level of transformer.
- 4 Check colour of Silica Gel, Oil level of dust cup.
- 5 Checking of any oil leakage

### QUATERLY

1. HT and LT Bushing: Examine for crakes and dirt deposits, clean or replace.
2. Checking the colour of silica gel in the breather and also oil level of the oil seal. If silica gel colour changes from blue to pink by 50% the silica gel is to be reconditioned or replaced.

### HALF YEARLY

1. Oiling and greasing of transformer tap changer.
2. Oil in Transformer: Check for dielectric strength (BDV) and water content.
3. Earth resistance: Record the value of earth resistance of earth pits.

### YEARLY

1. Gasket joints: Tighten the bolts evenly to avoid uneven pressure.

## **HT Panel**

### **DAILY**

- 1 Measure and record the incoming/outgoing voltage, current, Power factor, energy, for all Panels
- 2 Vacuuming and cleaning of the rooms and surrounding areas.
- 3 checks for proper operation of HT panel.
- 4 Check for proper closing of panel so that no space should be left which may allow to enter the moisture, lizard or insects.
- 5 Checking of Indicating lamps.

### **WEEKLY**

- 1 Examination of auxiliary switches, indicating devices and interlocks to ensure that they are in good order physically.
- 2 Cleaning of metallic enclosure, Cleaning of panel externally.
- 4 Checking of control circuit & tighten the connections if any
- 5 Check whether indication lamps, annunciator lights, bell, buzzers and hooter are working.
- 6 General cleaning inside of the panel.

### **QUATERLY**

- 1 Checking of indicating lamps, ammeter, voltmeter, annunciator lights, bell, buzzers and hooter and energy meter along with selector switches and replacement of defective ones.
- 2 Checking of operation of breakers for trip/close.
- 3 Check fixed and moving contacts.
- 4 Cleaning of panel internally.
- 5 Checking the humidity.
- 6 Cleaning of contacts of breaker.
- 7 Clean the panels from inside with the help of the blower & vacuum cleaners
- 8 Checking of DC leakage in control circuit and rectify if needed.

### **HALF YEARLY**

- 1 Cleaning of contacts of breakers and inserting petroleum jelly in contacts.
- 2 Oiling and greasing of operating mechanism etc.
- 3 Visual check of earth connections and tightening.
- 4 Calibration of indicating/ measuring meters.
- 5 Checking of D.C. supply & control switchgear.
- 6 Check the operation of MCB, relays, Etc.,
- 7 Checking of interlocking.
- 8 Check close & trip coil of VCB.
- 9 Check auxiliary supply and control voltage.

### **YEARLY**

- 1 Checking of control circuits and its accessories i.e. aux contactors, closing/tripping coil, spring charge motor of VCB and repair/replace if required.
- 2 Cleaning of contacts with CRC, indicating devices, voltmeter, ammeter, selector switch etc. and replace if required.
- 3 Oil and greasing of operating mechanism.
- 4 Checking, calibrating and repairing/replacing of all meters i.e. voltmeter, ammeter and energy

Note:

1. The Contractor shall obtain prior approval from the Engineer-in-charge before placing order for any specific material/ Brand/ Make.
2. Whenever the specified brand of material is not available than, the Engineer-in-charge may approve any material equivalent to that specified subject to proof being offered by the Contractor for its equivalence and its non-availability to his satisfaction.
3. Replaceable Material/Equipment/Parts should be supplied as per the norms of the OEM or utilized in the equipment in system.
4. In case of unviability of OEM parts/Same Parts, other brand should be utilized after the approval of competent authority.

### **General**

1. The installation shall be maintained in the existing original condition/position. The contractor shall be solely responsible for maintenance and upkeep of the equipment's in good conditions.
2. The preventive maintenance schedule shall be prepared and submitted in advance. The necessary shutdown may be taken with prior permission of the Engineer - in - charge.
3. Performa for Daily, Monthly, & Half yearly checking should be filled up after doing preventive maintenance of equipment's. The maintenance records shall be checked & verified by the competent authority. (One set of Weekly, quarterly, half yearly and yearly maintenance & repair chart/ Performa shall be provided by dept.)
4. A suitable complete shutdown shall be given once in a year for preventive maintenance of the complete system. All the equipment should be thoroughly checked & maintained for proper functioning/operations of the equipment. All major structures, cable supports and steel frames shall be painted once in a year with approved colour.
5. All the types of minor major repairing works will be carried out by the agency on his own cost.
6. The payment against maintenance during the contact period shall be made against quarterly running bills of the accepted amount for AMC subject to satisfactory maintenance of the installation and submission of all formats such as Daily, monthly & Half yearly as provided by the Engineer-in-charge duly filled and accepted by JE/AE of the work.
7. The adequate team of manpower shall be available at site 24x7 as per quantum of the work/maintenance.
8. Though the proposal has been made for recovery from the bill of the contractor in case of absence from duty and non-wearing the uniform and shoes by the workers deployed, but the contractor has to see that, immediately necessary substitute to be deployed in a pre-planned manner. Also, contractor has to pay necessary dues to the persons deployed immediately after completion of one month period. The contractor has to submit the task book wherein the record of day-to-day maintenance activities as required shall be reflected. Noncompliance of these all shall be treated as unsatisfactory performance and thereby the contract shall be cancelled and contractor shall not be allowed further to purchase and participate in tendering process.
9. The contractor is bound to distribute the salary/wages to the staff deployed by 5th of each month, positively, the contractor shall make the payment of wages to the staff deployed at work in their bank account through cheque or draft or e-transaction and will submit the AIIMS DEOGHAR CORRECTION NIL INSERTION NIL CUTTING NIL OVERWRITING NIL JE, EE(E) AIIMS evidence of such transaction like photocopy of bank passbook / Account statement of staff etc. to the department at every month to insure the payment of wages.
10. The employees for the contractor shall be of good character and of sound. The service provider shall ensure proper conduct of its personnel in office premises, and enforce prohibition of consumption of alcoholic drinks / drugs, shewing of pan / Gutka, smoking, using speakers for listening to music and loitering without any work. The workers should not be below the age of 18 years.
11. The contractor shall keep himself fully informed of all acts and laws of the Central and state Government, all order, decrees of statutory bodies, tribunals having jurisdiction or authority, which in any manner any affect their engaged or employed staff and anything related to carry out the work. All the rules & regulations and bye-laws laid down by the local bodies and any other statutory bodies

shall be adhered to, by the contractor, during the execution of work.

12. The agency is supposed to work on job contract basis and as such there will not be any separate payment for working on Saturdays, Sundays or other gazetted / national holidays etc. and the same is to be included in the monthly charge claim in the tenders by the Contractor.
13. Statutory clearances: All statutory clearances, approvals/ permissions/ license either from pollution control board (CPBC), state electricity board or any other authority like explosive control permission, electricity inspector.
14. Approval etc. under any statute or law for operating the power plant and that required for bulk oil storage tank shall be obtained by the agency at his own cost.
15. Arrange for the disposal in a safe and lawful manner of all effluent, waste products and used items & provide the certificate for disposal items like Oil, filters etc. nothing extra will be paid for this.
16. The maintenance of the installation, including without limitation, oil, antifreeze, filters and other consumable items.
17. **Penalty:** Any fault detected shall be rectified within one (1) hour. If the fault is not resolved within this period, a penalty of ₹500 per hour shall be imposed for the subsequent two (2) hours. Thereafter, a penalty of ₹1,000 per hour shall be applicable until the fault is fully resolved.

**16. Financial bid**  
**SCHEDULE OF RATES**  
**(To be submitted in Financial Bid)**

**Name of Work: Comprehensive Maintenance of Electrical Services of Substation-1, 2 and 3 & Centralised UPS at AIIMS Deoghar.**

SN	DESCRIPTION	UNIT	QTY	RATE (IN Rs.) with taxes	AMOUNT (IN Rs.) with taxes
1	<b>Comprehensive Maintenance of Electrical Services of Substation-1, 2 and 3 &amp; Centralised UPS including all cables, Bus duct, earthing pit, solar panel, all building electrical control panels and risers at AIIMS Deoghar</b>	Quarterly	4		

**Note: The above price includes all taxes, duties/transportation, tools/equipment's, facility of manpower etc.**