



**ALL INDIA INSTITUTE OF MEDICAL SCIENCES,
BHUBANESWAR, ODISHA**

TENDER

FOR

**PROVIDING
OPERATION & MAINTENANCE SERVICES
OF 33/0.433 KV SUBSTATION WITH NECESSARY MANPOWER
AT RESIDENTIAL COMPLEX OF
ALL INDIA INSTITUTE OF MEDICAL SCIENCES
BHUBANESWAR**



ALL INDIA INSTITUTE OF MEDICAL SCIENCE (AIIMS)
AT-SIJUA, PO-PATRAPADA, BHUBANESWAR

Maint/AIIMS-Bhubaneswar/01/2017

Date:22.02.2017

NOTICE INVITING TENDER

Bids are invited on behalf of **Director, ALL INDIA INSTITUTE OF MEDICAL SCIENCE (AIIMS), Bhubaneswar**

From eligible H.T electrical valid license holder contractors/firms for the following works as detailed below:

Name & description of work	Period of work (months)	Opening and closing date of dropping the tender.	EMD (In Rs.)
(A) One time, Break down maintenance work of 33/0.4 KV Substation (1&2) at Housing Complex, AIIMS, Bhubaneswar as per the attached list. BOQ is attached at Annex-III. (B) (i) Annual Maintenance Contract (Without man power) of 2 x 1.25MVA, 2 x 1 MVA Transformers, 7 Nos HT panel, 30 Nos LT panel, 4 Nos APFC panel and 2 Nos AMF panel etc. (as per CPWD latest maintenance manual). Detail quantity and specification is mentioned in the Bill of materials available in tender document. This rate included repair and Replacement of materials as and when required as per bill of materials and their testing and commissioning. (ii) The cumulative Cost of quoted Price for Bill of Materials is attached. BOQ is attached from page 1-11. (iii) Man power supplied for watch and ward (Round the clock) as per attached sheet.	(A) 45 days (it includes 12 months AMC Period) (B) AMC for 12 Months	22 nd February 2017(opening date) 3 rd March 2017(Closing Date) at 3.00 .PM.	Rs. 28,000.00(Twenty Eight thousand only)

For details regarding eligibility, bid security/original EMD, and submission of tender documents, please refers detail advertisement at AIIMS, Bhubaneswar website www.aiimsbhubaneswar.edu.in. The tender paper can be down loaded from official website and submitted though speed post/courier or can be dropped on the drop box available in the office of Executive Engineer (Electrical), third floor, Academic Building, AIIMS, Bhubaneswar, Sijua, Patrapada, Bhubaneswar-751019. For any quarry Executive Engineer (Electrical), AIIMS, Bhubaneswar, Phone - 0674 2476500 may be contacted.

Superintending Engineer
AIIMS, Bhubaneswar.

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INSTRUCTIONS TO THE BIDDERS

1. Bid form shall be complete in all respect. Incomplete Bids without original EMD and documents mentioned in check list shall be treated as invalid.
2. Last date and time of submission of Bid –3rd March 2017 at 3 .00 PM.
3. Date and time of opening of Bid – 3rd March 2017 at 3 .30 PM. at office of the Executive Engineer(Electrical) in third floor of Academic Block.AIIMS,Bhubaneswar.
4. Each and every page of the Bid documents should bear the stamp and signature of the authorized representative. Format I & II enclosed shall be filled without exception. The bidder shall also enclose the latest Income Tax Clearance Certificate and proof of VAT/works Contract Tax Registration where applicable.
5. The rates for each and every item shall be quoted in Figure and words. In case of any discrepancy in rates, the rates written in words shall prevail.
6. The envelope containing the Bids shall be sealed and bear the name of work and the name and address of the bidder.
7. The Competent Authority of AIIMS reserves the right to accept or reject any Bid or all Bids without assigning any reason.
8. Conditional Bids are liable to be rejected.
9. The site for the work is available and can be seen on any working days during office hours by contacting Executive Engineer (Electrical) AIIMS, Bhubaneswar. Intending Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders in 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 Bidder shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. The Bidder 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 Bid by a Bidder 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., if any, will be issued to him by the Employer and local conditions and other factors having a bearing on the execution of the work.

10. The Bid for the work shall remain valid for ninety days (90) from the date of opening of Bid.
11. These instructions shall form a part of the contract document.
12. The Bid Security/Original Earnest Money Deposit (EMD) of unsuccessful Bidders shall be refunded within one month after the award of work to the successful Bidder.
13. Rates quoted shall be firm and fixed and shall be inclusive of cost of manpower, material, machinery, tools and plant consumables etc., complete and include all taxes (including service tax), duties and levies, insurance etc. No escalation of whatsoever nature shall be payable.
14. Prospective bidders are advised to regularly go through corrigendum/amendments etc., if any, will be notified on the AIIMS web site only and separate advertisement will not be made for this.
15. **Eligibility criteria:**

The applicant should meet the following minimum criteria for prequalification:

1. The Experience should be in the name of bidding company and not in the name of subsidiary/ associate/ group company etc.
2. Experience of having successfully completed work during last three years ending last day of month previous to one in which applications are invited :

Having experience of operation / Maintenance of electrical substation/ HT work etc. Central Government/ State Government/Public Sector Undertakings/Government Autonomous bodies.

- i. One similar completed work of volume not less than the quantity equal to 80% of quantum of work.
- ii. Two similar completed work of volume not less than the quantity equal to 50% of quantum of work.
- iii. Three similar completed work of volume not less than the quantity equal to 40% of quantum of work.

16. Submission of bids: It is a two bid system comprising of Technical Bid and financial Bid. Both bills in a sealed form should be enclosed in a main envelop which should be properly sealed and superscribed with the name of work and name of firm.

Check list for Technical Bid (Part A)

(a) Original Non-refundable Demand Draft of **Rs. 500.00** /- (Five Hundred only) towards cost of tender document in favor of AIIMS, Bhubaneswar, payable at Bhubaneswar

(b) Copy of Original EMD **Rs. 28000.00**(Twenty Eight Thousand only) /- in the form of DD/Pay Order from a Nationalized bank drawn in favor of AIIMS, Bhubaneswar payable at Bhubaneswar. However, the original EMD of the unsuccessful bidders will be refunded after within 15 days of opening of financial bid. For lowest bidder, original EMD will be refunded after submission of Bank Guarantee within 07 days of issue of LOA. In this connection a declaration in the form of Affidavit should be attached.

(c) Separate AFFIDAVIT on the Non-Judicial Stamp Paper of **Rs. 100/-** as per the format attached (Annexure –IX)

(d) Documents regarding constitution of Bidder including copy of Certificate of Registration of the firm and valid HT electrical license Holder Contractor / copy of valid HT electrical license Holder Contractor with experience in similar nature of work.

(e) Copies of Works Contract Tax/VAT registration/ EPF Registration / ESIC Registration.

(f) Copies PAN/ IT return/ audited balance sheet.

(g) Experience of having successfully completed work during last three years ending last day

Of month previous to one in which applications are invited:

Having experience of operation / Maintenance of electrical substation/ HT work etc.
Central Government/ State Government/Public Sector Undertakings/Government
Autonomous bodies.

(i) One similar completed work of volume not less than the quantity equal to 80% of quantum of work.

(ii) Two similar completed work of volume not less than the quantity equal to 50% of quantum of work.

(iii) Three similar completed work of volume not less than the quantity equal to 40% of
quantum of work.

Evaluation of Technical Bids: The Envelope PART-A (technical Bid) shall be opened first in the presence of representatives of Bidders and checked as per Check list of Technical Bid, Part- A.

17. The format-I (Brief description of the firm) and Format-II (Experience of the Company/Contractor) available in the tender document should be duly filled up, signed and attached.

FINANCIAL Bid – Part- B:

Financial Bid: The financial bid of the Bidders, whose technical bid is found to be eligible, will be opened in the presence of the Bidders or his authorized representative who choose to attend the opening of financial bid. The basis of consideration of lowest bidder will be the cumulative price quoted for sub head (A) and (B).

18. **Award of work:**

- i. The selection of the agency will be at the sole discretion of the AIIMS, Bhubaneswar. Who reserves the right to accept or reject any or all the bidders without assigning any reason.
- ii. The contract for the **Annual Repairs and Maintenance including one time maintenance** shall be awarded to the qualified responsive Bidder who has quoted lowest.
- iii. Upon evaluation of Bids the notification on award of contract will be intimated to the successful Bidder.

GENERAL CONDITIONS OF CONTRACT

DEFINITIONS AND INTERPRETATION

1. Definitions

- (a) In the Contract (as hereinafter defined) the following words and expressions shall have the meanings hereby assigned to them except where the context otherwise requires:
- i) “Employer” means the Director, AIIMS, Bhubaneswar and the legal successors in title to Director, AIIMS, and Bhubaneswar.
 - ii) “Engineer” means the Superintending Engineer, AIIMS, Bhubaneswar act as Engineer for the purposes of the Contract.
 - iii) “Contractor” means qualified contractor and an individual or firms (proprietary or partnership) whether incorporated or not, that has entered into contract (with the employer) and shall include his/its heirs, legal representatives, successors and assigns. Changes in the constitution of the firm, if any shall be immediately notified to the employer, in writing and approval obtained for continued performance of the contract.
- (b)
- i) “Contract” means these conditions, the Specification, the Bill of Quantities, the Bid, the Letter of acceptance, the Contract Agreement (if completed) and such further documents as may be expressly incorporated in the Letter of Acceptance or Contract Agreement (if completed).
 - ii) “Specification” means the specification of the Works included in the Contract and any modification thereof.
 - iii) “Drawings” means all the completion drawings, calculations and technical information if any of a like nature provided by the Engineer to be Contractor under the Contract and all drawings, calculations, samples, patterns, models, Repair and Maintenance Services manuals and other technical information of a like nature submitted by the Contractor and approved by the Engineer.
 - iv) “Bill of Quantities” means the priced and completed bill of quantities forming part of the Bid.
 - v) “Bid” means the Contractor’s priced Bid to the Employer for the execution

and completion of the Works and the remedying of any defects therein in accordance with the provisions of the Contract, as accepted by the Letter of Acceptance. The word Tender is synonymous with Bid and the words Tender Documents with Bidding Documents.

- vi) “Letter of Acceptance” means the formal acceptance of the Bid by AIIMS, Bhubaneswar.
 - vii) “Appendix to Bid” means the appendix comprised in the form of Bid annexed to these Conditions.
- (c)
- i) “Commencement Date” means the date upon which the Contractor receives the notice to commence the works.
 - ii) “Time for Completion” means the time period for which the contract of “Operation & Maintenance Services and Repair” has been awarded by the employer to the contractor.
- (d) “Taking Over Certificate” means a certificate issued by employer evidencing successful completion of the awarded work.
- (e)
- i) “Contract Price” means the sum stated in the Letter of Acceptance as payable to the Contractor for the execution and completion of the Works and the remedying of any defects therein in accordance with the provisions of the Contract.
 - ii) “Retention Money” means the aggregate of all monies retained by the Employer.
- (f)
- i) “Works” means the Works to be executed in accordance with the contract.
 - ii) “Site” means the places provided by the Employer for Operation & Maintenance Services and Repair Services.
 - iii) “Cost” means all expenditure properly incurred or to be incurred, whether on or off the Site, including overhead and other charges but does not include any allowance for profit.

ENGINEER

2. Engineer’s Duties and Authority

The Engineer shall carry out the duties specified in the Contract.

3. Custody and Supply of Drawings and Documents

The Drawings shall remain in the sole custody of the Employer/Engineer, but copies as required thereof shall be provided to the Contractor free solely for the purpose of this contract.

4. Sufficiency of Bid

The Contractor shall be deemed to have based his Bid on the data made available by the Employer and on his own inspection and examination of this site conditions.

5. Contractor's Employees

The Contractor shall provide on the Site qualified and experienced technical staff in connection with the Operation & Maintenance Services and Repair of the Works and the remedying of any defects therein

6. Engineer at Liberty to Object

The Engineer shall be at liberty to object to and require the Contractor to remove forthwith from the Works any person provided by the Contractor who, in the opinion of the Engineer, misconducts himself, or is incompetent or negligent in the proper performance of his duties, or whose presence on Site is otherwise considered by the Engineer to be undesirable, and such person shall not be again allowed upon the Works without the consent of the Engineer. Any person so removed from the Works shall be replaced as soon as possible by a qualified person approved by the Engineer.

7. Safety, Security and Protection of the Environment

The Contractor is responsible for the safety of all activities taken up by him for the performance of the Contract.

The Contractor shall, throughout the execution and completion of the Works and the remedying of any defects therein:

- i) Have full regard for the safety of all persons entitled to be upon the Site and keep the Site (so far as the same is under his control) and the Works (so far

as the same are not completed or occupied by the Employer) in an orderly state appropriate to the avoidance of danger to such persons, and

- ii) Provide and maintain at his own cost all lights, guards, fencing, warning signs and watching, when and where necessary or required by the Engineer or by any duly constituted authority for the protection of the Works or for the safety and convenience of the public or others, and
- iii) Take all reasonable steps to protect the environment on and off the Site and to avoid damage or nuisance to persons or to property of the public or others resulting from pollution, noise or other causes arising as a consequence of his methods.

8 Damage to Persons and Property

The Contractor shall, except if and so far as the Contract provides otherwise, indemnify the Employer against all losses and claims in respect of :

- (a) death of or injury to any person caused by his own acts or omissions, or
- (b) loss or damage to any property: Which may arise out of or in consequence of the Operation & Maintenance Services of the works and the remedying of any defects therein, and against all claims, proceedings, damages, costs, charges and expenses whatsoever in respect thereof.

9. Accident or injury to Workmen

The Employer shall not be liable for or in respect of any damages or compensation payable to any workman for death or injury resulting from any act or default of the contractor. The Contractor shall indemnify and keep indemnified the Employer against all such damages and compensation and expenses whatsoever in respect thereof or in relation thereto.

10. Evidence and Terms of Insurance

The Contractor shall take out appropriate insurance to cover his work and workers and staff employed by him fully. The contractor shall provide evidence to the Engineer/Employer as soon as practicable after the respective insurance have been taken out but in any case prior to the start of work at the Site that insurance required under the

Contract have been effected.

11. Compliance with Statutes, Regulations

The Contractor shall conform in all respects, including by the giving of all notices and the paying of all fees, with the provision of:

- (a) Any National or State Statute, Ordinance, or other Law, or any regulation, or bye-law of any local or other duly constituted authority in relation to the execution and completion of the Works and the remedying of any defects therein, and
- (b) The rules and regulations of all public bodies and companies whose property or rights are affected or may be affected in any way by the Works, and the Contractor shall keep the Employer indemnified against all penalties and liability of every kind for breach of any such provision.
- (c) Any changes required for approval due to revision of the local laws.

12. Defect Identification and it's rectifications

On behalf of Engineer, The Executive Engineer (Electrical) or any representative shall check the Contractor's work and notify the Contractor of any Defects which he finds. The Contractor shall immediately attend the defects and complaints noticed at site. The Contractor shall provide and develop a system for regular Operation and Maintenance of all the services, which includes defects identification and their immediate rectification, so that services are not affected. It shall be the sole responsibility of the Contractor that all the services are kept in functional condition round the clock during the currency of the contract.

13. Extension of contract

The Operation & Maintenance Contract may be extended on the written mutual consent of both the Employer and Contractor for a further period of one year or two years as per the requirement of the client, the AIIMS, Bhubaneswar.

However, the Employer reserves the right to terminate the Contract by giving 15 days notice at any time during the currency of the Contract if the services of the Contractor are not satisfactory in the opinion of the Employer or his representatives.

14. Liquidated Damages for Delay

If the Contractor fails to fulfill his contractual obligations, the employer can impose liquidated damages on the contractor as per CPWD guideline/ Maintenance Manual..

15. Contractor's Failure to Carry out Instructions

In case of default on the part of the Contractor in carrying out the works, the Employer/Engineer shall be entitled to employ and pay other persons to carry out the same and if such work, in the opinion of the Engineer, the Contractor was liable to do at his own cost under the Contract, then all costs consequent thereon or incidental thereto shall be determined by the Engineer and shall be recoverable from the Contractor by the Employer, and may be deducted by the Employer from any monies due or to become due to the Contractor.

16. Variations

The Contractor has to carry out all the works at the rate, terms and conditions contained in the Contract.

The quantities given in the Bill of Quantities are estimated quantities. The quantity of any particular item may vary to any extent.

The Contractor shall execute any items of work not provided for in the Bill of Quantities on the instructions of the Engineer. The rates for such items shall be worked out based on the CPWD norms/ DAR. The current market rates shall be taken to derive the rates of the DSR/DAR based items. The rates of such item will be restricted to DSR (E&M) 2016 rates without any escalation.

In case the item is not available in the DSR/ DAR, the rates for the same shall be derived as Per latest DAR based on the present market rates.

MEASUREMENT

17. Works to be Measured for BOQ items

The Engineer shall determine by measurement of the value of actual work done in accordance with the Contract and the Contractor shall be paid proportionately. Part rate shall be made for any part of BOQ items not fully executed. Engineer shall decide the breakup of lump sum items and the part rate applicable for any particular item which shall be final and binding.

18. Method of Measurement

The works shall be measured as per CPWD/IS norms except otherwise provided in the

Contract.

MODE OF PAYMENT :

a) One time Maintenance Sub Head (A) :

After successful completion of Job and due certification of Executive Engineer (Electrical), AIIMS, Bhubaneswar. The security deposit of 5% from the bill will be deducted and kept with the institute for entire defect liability period(one year) and will be released after that as per CPWD guidelines.

b) For sub head (B) :

- i) Monthly as per terms and conditions mentioned below.
- ii) Monthly as per actual basis based on the rates quoted for bill of materials after deduction of statutory taxes if any as per terms and conditions mentioned below.
- iii) Monthly as per terms and conditions mentioned below.

The all above bills will be certified by Executive Engineer (Electrical).

Terms and Conditions of payments :

The Contractor shall submit bills in 3 copies to the Engineer by 7th day of each month for the work executed up-to the end of previous month in tabulated form approved by the Engineer, showing the amounts to which the Contractor considers himself to be entitled.

The bill must be supported with the following documents:-

- (a) Attendance sheets of Staff deployed as per contract.
- (b) Details of defects/complaints attended and rectified within time.
- (c) Details of complaints attended late.
- (d) Test certificates of materials used and tests carried out for quality control as required by the specifications and the Engineers.

19. Taxes

All duties, taxes including value added tax, service tax, labour cess etc if any as per prevalent rules of central Govt. applicable at AIIMS, Bhubaneswar and other levies payable by the contractor under the contract including contractors profit and over heads etc or for any other cost shall be included in the rates and prices and the total amount of Bid submitted by the bidder. Labour Cess deposit to be made by the contractor and on submission of labour cess deposit challan, withhold cess amount will be released accordingly. The evaluation and comparison of Bids by the Engineer shall be made

accordingly. The Finance dept. will examine the same before payment.

20. Mode of payments

(i) For Sub head (A) the payment will be made after completion of work in all respect and subsequent inspections and certification of Engineer In Charge. 5% Security deposit will be deducted from the bill and will be released after one year of completion of work i.e. Defect Liability Period as per standard procedure of CPWD(this will be exempted if performance Bank Guarantee is submitted for whole of the work for defect liability period)

(ii) For Sub head (B) (i) the Contractor shall submit monthly bill complete in all respect by the 7th day of each month. The Engineer shall clear the bill and certify due amounts for payment within 15 days.

(iii) For Sub head-B (ii) the payment for the cost of material used for maintenance may be released monthly basis after completion of SITC of same material with sub head –b (i) after duly certification of Executive Engineer (Electrical).

21. Performance Security :

The performance bank Guarantee of 5% of the entire work i.e. Sub Head (A) and (B) on the lowest quoted price/value of the lowest bidder will be deposited Within one weeks of the award of LOA.

The Performance Security shall be valid for the duration of the Contract (12 months) plus 60 days.

22. Default of Contractor

22.1 If the performance of the contract is not satisfactory and not corrected within 15 days of receiving notice, then employer shall be at liberty to terminate the contract.

22.2 In the event of termination of the contract, employer shall be at liberty to get balance work done at the risk and cost of the contractor .In that case BG/any dues to be paid to the contractor will be utilized.

23. Amicable Settlement of Dispute

The party shall use their best efforts to settle amicably all disputes arising out of or in connection this contract or the interpretation thereof.

24. Arbitration

In case of the any dispute the arbitration will be on Bhubaneswar Jurisdiction only.

24.1 The work under the contract shall continue, during the Arbitration proceedings.

24.2 The award of the Arbitrator shall be final, conclusive and binding on both the parties.

25. Interpretation

In interpreting these conditions of Contract, singular also means plural, male also means female, and vice-versa. Headings and cross-references between clauses have no significance. Words have their normal meaning under the language of the Contract unless specifically defined.

26.. Language and Law

The language of the Contract is English. The jurisdiction of the Contract shall be with the Hon'ble High Court at Cuttack, Odisha, India.

27. Communications

Communications between parties which are referred to in the conditions are effective only when in writing.

28. Contractor's Risks

All risks of loss of or damage to physical property and of personal injury and death which arise during and in consequence of the performance of the Contract are the Contractor's risks.

29. Insurance

The following insurance coverage is to be provided by the Contractor in the joint names of the Employer and the Contractor for the period from the Start date to the end of the Completion Period:

- a. Cover against damage to third party (Minimum amount of third party insurance is 10 lacs).
- b. Cover against death or injury of contractor employees.

Policies and certificates of insurance are to be produced by the Contractor to the Engineer

If the Contractor does not produce any of the policies and certificates required, the Employer may effect the insurance for which the Contractor should have produced the policies and certificates and recover the premiums it has paid from the payments due to the Contractor.

30. Contractor to execute the works:

The Contractor is to execute the works in accordance with the Contract and the specifications.

31. Approval of samples of all the BOQ items and materials is to be taken from the Executive Engineer (Electrical) the representative of Engineer or any body in the absence of Executive Engineer (Electrical) as per the nomination of Engineer.

32. Instructions

The Contractor shall carry out all the instructions of the Engineer.

FORM OF PERFORMANCE SECURITY BANK GUARANTEE BOND

In consideration of the AIIMS, Bhubaneswar having agreed under the terms and conditions of the Agreement No. _____ dated _____ made between AIIMS, Bhubaneswar. and Second Party (herein called the said Construction Agency _____ for the work _____ hereinafter called the said agreement) to production of irrevocable bank guarantee for Rs. _____ (Rupees _____ only) as a security/Guarantee from the Construction Agency for compliance of his obligations in accordance with the terms and conditions in the said agreement,

We _____ (hereinafter referred as to “the Bank” hereby)

(Indicate the name of the bank)

Undertake to pay to the AIIMS, Bhubaneswar. Ltd. an amount not exceeding Rs. _____ (Rupees _____ only) on demand by the AIIMS, Bhubaneswar.

2. We _____ do hereby undertake to pay the amounts due and payable under this Guarantee without any demure, merely on a demand from the AIIMS, Bhubaneswar stating that the amount claimed is required to meet the recoveries due or likely to be due from the Second Party. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. (Rupees Only).

3. We, the said bank further undertake to pay to the AIIMS, Bhubaneswar any money that is demanded notwithstanding any dispute or disputes raised by the Second Party in any suit or proceeding pending before any court or Tribunal relating thereto, a liability under this present being absolute and unequivocal.

The payment so made by us under this bond shall be a valid discharge of a liability for payment thereunder and the Second Party shall have no claim against us making such payment.

4. We _____ further agree that the guarantee herein contained shall remain in full force and effect during the period that would taken for the performance of the said agreement and that it shall continue to enforceable till all the dues of the AIIMS, Bhubaneswar under or by virtue of the said agreement have been fully paid and its claims satisfied or discharged or Engineer-in-Charge on behalf of the AIIMS, Bhubaneswar certified that the terms and conditions of the said agreement have been fully and properly carried out by the said Second Party and accordingly discharges this guarantee.

5. We _____ (indicate the name of Bank) further agree with the AIIMS, Bhubaneswar. The AIIMS, Bhubaneswar 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 AIIMS, Bhubaneswar against the said Second Party and to bear 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 or for any forbearance, act of omission on the part of the AIIMS, Bhubaneswar or any

indulgence by the AIIMS, Bhubaneswar to the said contractors 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.

7. We..... lastly undertake not to revoke this guarantee except with the previous consent of the AIIMS, Bhubaneswar in writing.

8. This guarantee shall be valid upto _____. Unless extended on demand by AIIMS, Bhubaneswar. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to RS. _____ (Rupees _____ only) and unless a claim in writing is lodged with us within six months of the date of expiry of the extended date of expiry of this guarantee all our liabilities under this guarantee shall stand discharged.

Dated the Day of For (Indicate the name of bank)

CONTRACT AGREEMENT FORMAT

This CONTRACT (hereinafter called the “Contract”) is made the Day of the month of 2017 between All India Institute of Medical Sciences (AIIMS), Bhubaneswar on the one hand (hereinafter called the Employer) and on the other hand (hereinafter called the Contractor)

Whereas

- a. The Client has accepted the Bid of the Contractor to provide certain services for Operation & Maintenance of 33/0.4 KV Substation at AIIMS Residential Complex at -Sijua, Po-Patrapada, Bhubaneswar.
- b. The Contractor, having represented to the client that they have the required professional skills, personnel and technical resources, have agreed to provide the services on the terms and conditions set forth in this Contract Agreement.

Now therefore the parties hereto hereby agree as follows:

1.0 the following documents attached hereto shall be deemed to form an integral part of this contract:

1.	Notice Inviting Bid & Instructions to Bidders
2.	General Conditions of Contract
3.	Special Conditions /Additional Conditions of Contract along with specifications
4.	Other conditions of Contract along with BOQ

2.0 The mutual rights and obligations of the Employer and the Contractor shall be as set forth in the contract; in particular:

- a. The contractor shall carry out the services in accordance with the provisions of the contract; and
- b. The Client shall make payments to the contractor in accordance with the provisions of the contract.

In witness whereof, the parties hereto have caused this contract to be signed in their respective names as of the day and year first above written

FOR AND ON BEHALF OF
[CLIENT]

All India Institute of Medical Sciences,
At- Sijua
Po-Patrapada
Bhubaneswar, Odisha.
Pin-751019

FOR AND ON BEHALF OF
[CONTRACTOR]

.....

SPECIAL CONDITIONS OF CONTRACT

1. All materials, T & P consumable and contingent articles required for the work shall be arranged by the contractor. Materials used shall be in order of preferences.
 - (i) As per list of approved makes of materials attached.
 - (ii) Under the Nomenclature of the item.
 - (iii) ISI marked.
 - (iv) CPWD specifications.
 - (vi) Direction of the Engineer-in-Charge.Replaced material used shall have same or richer specifications to the original materials and compatible to the work.
2. Staff employed by the contractor shall be well behaved, Polite & courteous. Any complaint against staff on behavior shall be taken very seriously and such staff shall be replaced by the contractor on demand from Engineer. The decision of Engineer shall be final and binding in this case.
Applicable to the work at site.
3. Any work carried out without the approval of the representative of the Engineer at the site of work shall be rejected and will not be measured and paid for.
4. Complaints shall be made in the format (Enclosure-I).
5. A computerized complaint register (format at Enclosure-II) shall be maintained in the Maintenance and Housekeeping Services Office of the contractor in which all complaints received shall be documented.
6. Minimum number of work men/staff to be deployed shall be as given at Format III.
7. The contractor shall take immediate action to attend to any complaint assigned to him through site order book/verbal instructions from Engineer or any representative on telephones from occupants. In all cases he shall attend the complaint in the specified duration as mentioned below :-
 - a. No delay complaints – Complaints of emergent nature such as electricity not being available are to be attended to immediately or at least within one hours of receipt of the complaints.
8. Major Complaints – Complaints other than no delay and minor complaints. Such complaints are to be attended within one hour and try to complete as early as possible but not more than 48 hours. In the event of work completion requires more than 48 hours due to any reason, prior permission with proper justification must be taken from Executive Engineer (Electrical).
9. The following facilities shall be made available by the agency to his staff at the Service Center (s):-
 - a. All furniture etc required for contractors shall be arranged by the contractor at his own cost at Complaint/Service Centre for which a Suitable Space will be made available under AIIMS, Bhubaneswar control.
 - b. Electricity/Water connection. Will be provided at Complaint/Service Centre

- c. The Contractor shall restore back the premises and other articles provided by the Employer to the contractor at the time of closure of the contract in good condition.
10. The contractor shall provide his mobile number or the mobile number of his representative to the Engineer for ease of communication with the controlling staff.
 11. The contractor shall have registration with Employee's Provident Fund Commissioner and Employee's State Insurance Corporation for safeguarding interest of his workmen.
 12. The contractor will arrange & store all the materials at Enquiry office, required for attending day to day maintenance complaints for at least 3 months or as decided by Engineer, throughout agreement period.
 13. The contractor will maintain attendance records of the staff which can be checked by the Engineer or his officers as & when required.
 14. After replacement of any component, the contractor will have to give warranty/guaranty of the same as per Manufacturer norm. In case the same becomes defective during Warranty/guaranty Period, the same will be replaced by contractor without claiming the extra cost.
 15. For Replacement of break down components the contractor will have to complete the job on or before 45 days of issue of work order failing which compensation will be levied @0.5 % per week of delay subjected to maximum 10% of tender price of sub head.
 16. The lowest bidder will be decided considering amount quoted for sub head (A), sub head (B) (i, ii & iii). The submission of item rates quoted for sub head (b) (ii) (Bill of Materials) will be considered.

ADDITIONAL PARTICULAR CONDITIONS OF CONTRACT FOR MAINTENANCE

For the services to be operated and maintained by the Contractor for which lump-sum amounts have been quoted, the following shall apply:-

Operation and Maintenance of Sub-stations:

All the above plant and equipments etc. shall be taken over after recording the complete details of make, date of manufacture etc. including their running conditions.

During the contract period, the same shall be operated and maintained by the Contractor including supply of all spares, materials, labour, T&P etc. and including consumables like Engine oil, transformer oil etc. complete. The maintenance and operation shall meet all the requirements of the concerned statutory authorities. At the end of the Contract Period, the equipment/system shall be handed over back to AIIMS, Bhubaneswar in the condition in which they were taken over, normal wear and tear accepted.

NOTE:

All breakdowns/faults shall be attended to immediately and rectified promptly.

Only genuine/original spare parts shall be used while carrying out the maintenance work.

Any major repair involving overhaul of equipment, rewinding of transformers, replacement of major components like ACB, VCB etc. is excluded from the scope of work and shall be dealt separately as per the decision of Engineer In charge. However, if the repairs/replacement arises out of negligence of the Contractor or his staff, the same shall be carried out by the Contractor at his own cost. Also Prior approval of the Engineer is to be obtained for any replacement of component. The payment for replacement of component will be made as per Bill of Material and labour charge is included in the cost of AMC.

The Contractor shall depute qualified and experienced staff for running and maintenance of the Systems/Equipments.

The Contractor shall follow all instructions conveyed to him by the concerned by AIIMS, Bhubaneswar officials regarding maintenance of the above.

B) ADDITIONAL/SPECIFIC CONDITION RELATING TO ELECTRICAL INSTALLATIONS

1.0 General

1.1 The following Additional Specific Conditions shall be read in conjunction with General Conditions of Contract and Specific Conditions of Contract. If there are any provisions in these Additional Specific Conditions which are at variance with the provisions in the above mentioned documents, the provisions in these Additional Specific Conditions shall take precedence.

2.0 Regulations and Standards

2.1 The installations shall conform in all respects to Indian Standard Code of Practice amended up to date and as per CPWD General Specification for Electrical Works (Part I, II, IV & VII). It shall also be in conformity with the current Indian Electricity Rules and regulations in so far as these are applicable to the installations. Wherever these Additional Specific Conditions calls for a higher standard of material and/or workmanship than those required by any of the above regulations, then this Additional Specific Conditions shall take precedence over the said Regulation and Standards.

3.0 Rates

3.1 The rates in the bid shall be for complete items of work inclusive of all taxes, statutory charges and all other charges for items contingent to the work, such as, packing, forwarding, insurance, freight and delivery at Site for the materials to be supplied by the Contractor, watch and ward of all materials for the Internal & external, Electrical Installation testing & commissioning work including water & power for successful installation, testing & commissioning work at Site etc.

3.2 **The price quoted for the item common in One time Maintenance (Sub head-A) and Bill of Material (Sub head – B –ii) should not mismatch.**

4.0 Works to be done by the Contractor (In the scope of AMC)

4.1 Unless and otherwise mentioned in the Bid documents, the following works shall be done by the Contractor, and therefore their cost shall be deemed to be included in their rates and prices:

- i. Cutting and making good all damages caused during installation and restoring the same to their original finish
- ii. Sealing of all floor openings provided by him for pipes and cables, from fire safety point of view, after laying of the same
- iii. Painting at site of all exposed metal surfaces of the installation other than pre-painted items like fittings, fans, switchgear/ distribution gear items, cubicle switch board etc. and erection, shall however be rectified to the satisfaction of the Engineer
- iv. Testing and commissioning of complete installation
- v. Washers, Nuts & bolts
- vi. PVC insulation tapes of different colours.
- vii. CTC/ contact cleaning agent
- viii. Insulation varnish (Dr Back) or approved equivalent.
- ix. Small lugs toggle switches, gaskets and other small items used in the plant.

- x. Sets of tools and tackles needed for the maintenance of electrical works; like tong taster , multimeter, megger, phase tester, screw drivers, wrench sets, earthing megger, pliers, specific gravity meter, on load voltage tester of batteries, phase sequence tester, thermometer, crimple tools, ladders etc;; to each electrician.
- xi. Cotton clothes Petrol needed for cleaning of equipments like CT etc.
- xii. Handle/ knobs of different MCCB/ SDFU etc
- xiii.
- xiv. Distil water if any needed for the refill in the batteries
- xv. Maintenance in which no item is required like tightening of loose wire etc will not be paid i.e. labour component is inclusive in the maintenance part.
- xvi. Watering of earth pit.
- xvii. The contractor shall provide all necessary items for the proper execution of the works in accordance with the intent and meaning of the drawings and specifications taken together whether the same may or may not be particularly shown or described therein. The contractor shall supply, fix and maintain at his own cost, during the execution of any works. The contractor shall also fully reinstate and make good all matters and things disturbed during the execution of the works to the satisfaction of the engineer-in-charge without any extra cost.

5.0 Tools for Handling and Erection

- 5.1 All tools and tackles required for handling of equipments and materials at Site of work as well as for their assembly and erection and also necessary test instruments shall be the responsibility of the Contractor.

6.0 Manufacturer's Instruction

- 6.1 Where manufacturers' have furnished specific instructions, relating to the materials used in this job, covering points not specifically mentioned in these documents, these instructions shall be followed in all cases. The material of original should be used.

7.0 Materials & Equipment

- 7.1 All materials and equipment shall be ISI marked and shall be of the approved make and design. Unless otherwise called for, only the best quality of materials and equipment shall be used. The Contractor shall be responsible for the safe custody of all materials till these are taken over by client and shall insure against theft, damage by fire, earth quake etc. A list of items of materials and equipment, together with a sample of each shall be submitted to the Site office.

8.0 Brochures and Data

- 8.1 The Contractor shall submit four copies of all brochures / manufacturer's description data and similar literature.

9.0 Approval of Materials

- 9.1 All materials used on the Works shall be new and of the best quality available, conforming to the relevant specifications and as per good Engineering practice. Prior approval shall be obtained in writing from the Engineer for all materials proposed and when necessary, approved sample duly identified and labelled shall be deposited with the Engineer and shall be kept at Site. List of approved make indicates make/ manufacturer generally acceptable.

10.0 Inspection, Testing and Inspection Certificate

- 10.1 Engineer/ His representative EE (E)/ in the absence of EE (E) other nominated representative shall have at all Reasonable times access to the Contractor's premises or Works and shall have the power at all reasonable time to inspect and examine the materials and workmanship during its manufacture or erection or if the part of works is being manufactured or assembled at other premises or works.
- 11.2 The Contractor shall arrange all the materials and labour required for inspection of equipment or for any testing to be carried out at his/ manufacturer's works or at Site.
- 11.3 Notwithstanding approval of tests or equipment by the Engineer, the Contractor shall be required to perform site tests and prove the correctness of ratings and performance of equipment/ machinery and materials supplied and installed by the Contractor as per the Contract specifications and conditions. Engineer shall have full power to order the material or work to be tested by an independent agency at the electrical Contractor's expense in order to prove soundness & adequacy.

12.0 Schedule & Manner of Operation

- 12.1 Time being the essence of this Contract, Contractor shall be expected to furnish all labour & material in sufficient quantities at appropriate time, expedite and schedule the work to meet the Engineer's requirement and so manage the operations that the work shall be completed in time as stated else where. In case of shut down of power supply, Contractor shall coordinate with Engineer and shall carry out essential works during the shut down period allowed by the Engineer. In case Engineer allows for such period during night or early morning hours, Contractor shall make all provisions to avail such account. Contractor shall not be entitled for any extra claims on such account. Contractor shall programme his work in such a way that items of work requiring presence of Engineer are carried out between 9 A.M. & 5 P.M. on working days.

13.0 Conformity with Statutory Acts, Rules and Standards

- 13.1 The installation shall be in conformity with the Bye-laws, Regulations and Standards of the local authorities applicable to the installations. But if the specifications and drawings call for a higher standard of material and/or workmanship than those required by any of the above Regulations and Standards, then the specifications and drawings shall take precedence over the said regulations and standards.
- 13.2 However, if the drawings or specifications required something which violates the Bye-laws and Regulations, then the Bye-laws and Regulations shall govern the requirement of this installation.
- 13.3 Indian Electricity Act and Rules: All electrical works in connection with installations of the system shall be carried out in accordance with the provision of the Indian Electricity Act, 1910 and the Indian Electricity Rules 1956, both amended upto date.
- 13.4 CPWD Specification: The Electrical installation work shall conform to CPWD General Specifications for Electrical Works Part I (Internal) 2005 and Part II (External) 1995, both amended upto date. Regarding maintenance of substation CPWD maintenance manual may be followed.
- 13.5 Indian Standard: The system / components shall conform to relevant Indian Standards wherever they exist and to the latest National Building Code-2005.
- 13.6 Nothing in these specifications shall be construed to relieve the Contractor of his responsibility for the design, manufacture and installation of the equipment with all its accessories in accordance with applicable Statutory Regulations and safety codes in force.

14.0 Confirmation of Quantities

- 14.1 All quantities indicated in BOQ are tentative which may vary as per site conditions. Contractor has to verify quantities before procuring the material. Contractor has to maintain certain minimum quantities of the item in the store.

16.0 Training of Personnel

The Contractor shall arrange on the job training to the personnel through the Annual Maintenance contractor for the following:

- a) All other Equipments like Transformer, HT, LT panels etc.
- b) Adjustment of setting for controls and protective devices
- c) Preventive maintenance
- d) Operation of all electrical panels including their interconnectivity and interlocking scheme.

17.0 Completion Certificate

- 17.1 On completion of the installation if carried out at site during the contract, a certificate shall be furnished to the Engineer, by the Contractor, countersigned by the licensed supervisor under whose direct supervision the installation was carried out if any.
- 17.2 The Contractor shall be responsible at his own cost for getting the installation duly approved by the authorities concerned of any.

18.0 Check List

- 18.1 The Contractor shall provide to the Engineer 4(four) copies of a comprehensive maintenance checklist and shall paste a copy of it in the Substations & Plant Room. The checklist shall be a list of each piece of equipment in this Contract, and shall provide a space for each of the next fifty-two weeks to record the maintenance provided to and status of various equipment. Each month, at the time of inspection, the Contractor shall certify on this check list that he has examined each piece of equipment and that, in his opinion, it is operating as intended by the manufacturer, and that all necessary tests have been performed.

19.0 Repairs

All equipment that requires repairing shall be immediately serviced and repaired during the maintenance period. All parts and labours shall be furnished at no extra cost to the Engineer.

20.0 Safe Custody and Storage

Safe custody of all machinery and equipment dismantled, shifted & supplied by the Contractor shall be his own responsibility till the final taking over by the Employer. The Contractor should, therefore, employ sufficient staff for watch and ward at his own expenses. The Employer may, however, allow the Contractor to use the building space for temporary storage of his equipment, if such space is ready and available.

TECHNICAL SPECIFICATION: ELECTRICAL WORKS**1. Scope of work: -Electrical**

The agency will be responsible for operation/ maintenance of following electrical items/ works:

- Operation and maintenance of AMF Panel (Make- Sudhir), for 160 KVA DG set.
- Operation and maintenance of Transformer 1000 KVA- 2 nos. (33/0.433 KV, 3 phase, 4 wire, 50 Hz, ON-AN Transformer for outdoor duty with an OFF Load tap changer -7.5% and +5% in the steps of 2.5% with cable at primary(HT side) and secondary end (LT) side) and 1250 KVA Transformer-2 nos. (33/.433 KV, 3 phase,4 wire,50 Hz, ON-AN Transformer), Make: Schneider Electric
- Operation and maintenance of HT Panel-1(4 panel, 630 Amp, 33 KV, 3 phase, 50 Hz, metal clad, dead front with interlocking scheme for the operation of different VCB), VCB Make- Schneider Electric, HT Panel Make-ADLEC.
- Operation and maintenance of LT Panel-1 having 2 nos. ACB incomer of 1600 Amp, one number motorized ACB of 1000 Amp, one bus coupler of 16000 Amp and 2 number 400 amp microprocessor based MCCB. The ACBs are EDO, microprocessor based O/L, S/C, E/F & instantaneous trip and different out goings in the form of MCCB as installed at site. Components of panel are of L&T make and LT panel-2 having 2 nos. ACB incomer of 2000Amp, one no. of motorized ACB of 1000 Amp, one bus coupler of 2000 Amp and 2 nos. 800 Amp microprocessor based ACB. (Make- L&T)(Manufacturer-Jackson)
- Operation and maintenance of Capacitor Panel-1: 370 KVAR and Capacitor panel-2: 205KVAR with APFC relay, capacitors, timers, MCCBs etc complete as installed at site. (Make- L&T)(Manufacturer-Jackson)
- Operation of other MV panels as installed at site at different locations.
- Maintenance of battery and battery charger.
- Checking healthiness of earthing and watering daily.
- Material required for the minor maintenance of all the items will be arranged by the Contractor. Nothing will be paid for such minor material. The details of works to be done by the contractor have been mentioned in additional specific conditions related to electrical works.
- Material required for the major repairs will be paid as per the rate quoted by the contractor against different items in "Special Repairs" head.
- Tools and tackles to carry out the maintenance will be provided by the contractor.
- Printed log books to be provided by the contractor.
- The contractor should keep all the equipments in good working condition.

Scope of the work as mentioned below is the minimum expected from the contractor in order to keep the equipments in good working condition:

1.0 ELECTRICAL INSTALLATION OF SUBSTATION:**1.1 Work to be done on daily basis:**

General inspection of HT panel, transformers and related equipments including the following:

1. Level of oil in conservator of the transformer
2. Colour of silica gel in the breather of the transformer.
3. Cleaning of all electrical equipments includes taking reading of current, voltage, load and DC voltage.

1.2 Work to be done on yearly basis

1. The dielectric strength of the transformer oil to be checked once in a year.
 2. Function/ tripping through the relays to be checked once in a year.
- 1.3 A log Book is to be maintained on regular basis for **HT sub-station** duly signed by the Engineer. The log book should contain minimum following data entry on hourly basis.
- 1 HT voltage
 - 2 Current
 - 3 Frequency
 - 4 Winding temperature of transformer
 - 5 Level of the oil in the conservator of the transformer
 - 6 Colour of the silica gel in the breather of the transformer
 - 7 Battery and battery charger voltage.
 - 8 Remarks
- 1.4 A separate log Book is to be maintained on regular basis for **LT panel** duly signed by contractor and Engineer of the client. The log book should contain minimum following data entry to be filled up **on hourly basis**:
1. Total current on incomer
 2. Voltage on incomer
 3. Current of different out going feeders in R, Y & B phase
 4. Power Factor
- 1.5 **Work to be done on half yearly basis:**
1. Safety checks of the Panels
 2. Operation of all the relays
 3. Checking of electrical panels
 4. Checking & cleaning of contacts of ACB, relays etc.
 5. Checking of safety interlocks
 6. Checking of functionality of relay and calibration if required.
 7. Checking of insulation resistance
 8. Checking of earth resistance.
 9. Any other checking required as per manufacturer's recommendations
 10. Watering of earth pits
 11. Any other checking required as per manufacturer's recommendations
- 1.6 **Work to be done on yearly basis:**
1. Repeat half yearly work.
 2. Through cleaning of panels after arranging the shutdown of the panels.

S.L. No	MAKE	ITEM
01	Selector Switches:	L&T/ Salzer/KAYCEE/ Siemens/BCH
02	Push button, Indicating Lamps LED:	L&T(ESBEE)/Siemens/Schinder/BCH/Veshno/ Teknik / RAAS
03	Battery	Panasonic/Hitachi/Cummins/Exide
04	ACB spare parts	L &T (as installed at site)
05	Moulded case circuit Breaker	L &T (as installed at site)
06	Power/auxiliary Contactors, timers, Relay, starters	ABB/ Schneider/ L&T/ Siemens /C & S
07	RCCB	L & T /Hager/ Legrand/ Siemens / Schenider (Merlin –Gerin)
09	Cable Joints (Heat Shrinkable) HT cable termination	Raychem/3M/Cabseal
10	Light fitting	Philips/ Wipro/ Bajaj/ GE/ Crompton Greaves/
11	Lamps	Philips/ Osram/ GE/Anchor
12	Copper conductor FRLS PVC insulated wires ISI marked	National/Finolex/ Havells/ L&T/KEI / RR cable/Polycab
13	Modular Switches & sockets Outlets	MK / Legrand / Anchor/ Roma Northwest
14	Electronic Ballast	Philips/ Wipro/Osram/Bajaj/Crompton

Format I

BRIEF DESCRIPTION OF THE FIRM

(An outline of the experience of the firm for similar works during last three years)

- a) Name of the firm.
- b) Year of registration.
- c) Type of firm (Individual/Proprietary/Limited Company or any other)

Note:-

- Provide documents in support of the details provided in above format, failing which the authenticity of the information may not be accepted.

Format II

EXPERIENCE OF COMPANY

(Experience of relevant and similar work of Construction etc/ Annual Maintenance, Operation and Housekeeping Services completed during last three years and ongoing works) Use separate sheet for each work.

1.	Project title & Location:	
2.	Name of the Client and Address:	
3.	Describe area of Participation (Specific Work done/Services rendered by the applicant)	
4.	Period of Work Done/Services rendered	
5.	Total cost of work/AMC cost	
6.	Status of the work undertaken.	
7.	Any other details	

NOTE::

- Supporting documents like certificates from the client in support of each of the above projects to be furnished failing which the authenticity of the information may not be accepted.

Format III

MINIMUM MANPOWER DEPLOYMENT SCHEDULE

(Maintenance Services)

A. The following manpower is to be deployed in daily shifts as mentioned against each: (Price must be mentioned in the Financial Bid- F-1 attached at page 35)

			Shift					
			General	A	B	C	OFF Reliever	Total
			0900-1730	0600-1400	1400- 2200	2200-0600		
1		FOR ELECTRICAL SUB STATION OPERATION						
	a	S/S Operator (ITI in Electrician Trade with minimum 5 years experience in HT maintenance. He should possess competency license(HT)/Workman Permit(HT)		1	1	1	1	4
	b	Supervisor (3 year Diploma in Electrical Engineering with minimum 3 year experience in HT.	1					1
			Total					5

Quoted Price -

NOTE

1. Only licensed / certified electricians/operators shall be deployed.
2. Preferably the other skilled worker deployed shall also be licensed/certified.
3. All the above staff of the contract shall wear uniform and badges identifying their category and name in English and local language.
4. In case of absence of any of the above mentioned workers under format III without providing suitable replacement, consequential cost of the labour shall be recovered and Engineer's decision will be final in this regard.
5. **All complaints and work executed shall be properly recorded in the complaint register and documented. This register shall be kept at site office/service centre and abstract of daily complaint received/attended shall be recorded in the register and compiled list of monthly complaint shall be submitted on first day of every succeeding month. Attendance register of staff deputed shall be maintained and kept at site office and duty chart of worker shall be displayed at site office/service centre. One Supervisor/ site Engineer should be available at site office for overall supervision of the work under this agreement.**

On the Non-Judicial Stamp Paper of Rs.100/-

AFFIDAVIT

I / We (Name of Person / Persons who presenting the affidavit) M/s (Name of Contractor's Firm / Company) (executing as a company / firm) who fulfill all the formalities who filling the affidavit works as a firm / Company, by this affidavit certify / certified that AIIMS,Bhubaneswar by inviting tender information Tender No. for (Name of work) for Dated..... in the capacity of inviting to the Tenders in tender documents, regarding the following information in certificates / documents presented, in that I / we personally agreed that we given all the information, documents & certificates are true to our belief and I / we are fully responsible as :-

- (1) It is to certify that all the informations given in this affidavit are true and correct.
- (2) That I / we presented by us,
 - (a) Amount submitted for Processing fees and original EMD in the form of Demand Draft & BG and relevant Documents are true, and certified & corrected by the Bank.
 - (b) Information given regarding with the Financial Qualifications & Annual Turnover is true & correct.
 - (c) Information given regarding with the deferent Physical Qualification is true.
 - (d) Information regarding Work in Hand is true.
- (3) I / We have not **Black Listed** / **Debated** by Govt. of India / any Government of State Govt. / Department of State Govt.
- (4) That, My / Our Firm's / Company's No relative / any nearest relative is working in this firm.

OR

Nearest relative works as follows:-

Name Post Present Post-Establishment

- (5) That, the **No Criminal Case** has been registered or ongoing by any court against me / our / firm.

Certified by Public Notary
With their Seal & Sign

Signature with Seal

Financial BID

F-1

Name & description of work	Rate	Amount
A) One time, Break down maintenance work of 33/0.4 KV Substation (1&2) at Housing Complex, AIIMS, Bhubaneswar as per the attached list. BOQ is attached at Annex-III. (B) (i) Annual Maintenance Contract (Without man power) of 2 x 1.25MVA, 2 x 1 MVA Transformers, 7 Nos HT panel, 30 Nos LT panel, 4 Nos APFC panel and 2 Nos AMF panel etc. (as per CPWD latest maintenance manual). Detail quantity and specification is mentioned in the Bill of materials available in tender document. This rate included repair and Replacement of materials as and when required as per bill of materials and their testing and commissioning. (ii) The cumulative Cost of quoted Price for Bill of Materials is attached. BOQ is attached from page 1-11. (iii) Man power supplied for watch and ward (Round the clock) as per attached sheet.		
	TOTAL	

Note: Rates should be inclusive of all Taxes

Authorized Signatory (with Seal)
Of the Firm/Company/Contractor

Financial BID

F-2

Annexure III				
Name of the work:-One time, Break down maintenance work of 33/0.4 KV Substation (1&2) at Housing Complex, AIIMS, Bhubaneswar including supply of material and service.				
SL No.	DESCRIPTION	UNIT	QTY.	RATE
1	Supply of 33 KV Current Transformer Ratio: 60-30/5-5A,STC-20 KA for 1 Sec., Class: 0.5 & 5P10 as per site specification.	Nos.	9	
2	Supply 33 KV Epoxy Cast support Insulators as per sample	Nos.	9	
3	Supply of 33 KV (E) XLPE, 3 X 240 Sq. mm armoured Cable	Mtrs.	60	
4	Supply of 33 KV, 3X240 Sq mm, XLPE(E) Cable end termination Kit	Nos.	2	
5	Supply 33 KV Non-tracking Heat Shrinkable Insulating Tube	Mtrs.	25	
6	Supply 33 KV Insulating Barrier	Nos.	12	
7	Supply of Space heaters	Nos.	12	
8	Supply of Transformer Breather (1 kg)	Nos.	3	
9	Supply H.T Tape (ERP-69 KV)	Nos.	18	
10	Supply of Nuts, Bolts & M-Seal	Lots.	3	
11	Removing of 6 Nos. damaged insulated Bus-bars, removal of defective insulation sleeves; heating & fixing of two layer new Heat Shrinkable 33 KV Insulating Tubes and re-fixing of the same in 33 KV VCB bus bar compartments, removal of damaged insulating barriers and re-fixing of new one, provision of H.T. Tape insulation at bus-bar joints, removing of damaged space heaters and fixing of new ones for refurbishment of 33 KV 1250A Indoor Vacuum Circuit Breaker.	Nos.	9	
12	High- Voltage testing of 33 KV existing UG Cable.	Nos.	3	
13	Removing of defective CTs and Installation of new CTs.	Nos.	12	
14	Removing of damaged 33 KV Cable End Termination re-termination of new jointing Kit along with M-Seal filling.	Nos.	3	
15	Transformers Insulating Oil Filtration and BDV testing. 4 Nos.	Ltrs. Approx.	6000	
16	Supply of Insulating Oil for Top-up	Ltrs. Approx.	200	
17	Functional Testing of 33/.4 KV, 1250 & 1000 KVA Open Circuit Test, Short Circuit Test, Magnetic Balance Test, Polarity Test, Transformer Turn Ratio Test, Vector Group Test, DC Resistance Test, IR & PI Test, BDV of Oil Test as per requirement. Note: Testing can only be commenced after necessary top-up of insulating oil, earthing Etc. are completed from your end.	Nos.	4	
18	Painting of panels at flashover Areas	Nos.	3	

19	supply of good earth and salt for earthing maintenance	Nos.	15	
20	MRA-PRO-V2 Relay	Nos.	3	
21	Supply of Over Current /Earth Fault Relay 110 volt of reputed make	Nos.	3	
22	Supply of Over Current /Earth Fault Relay 110 volt of reputed make	Nos.	4	
23	Supply of transformer Auxiliary Relay, 11-12 Pin Type.	Nos.	40	
24	Supply of master trip relay CSPC CLR-H-3, 110 VOLT DC.	Nos.	3	
25	Fixing of Relays, wiring and calibration as per site requirement	Job.	1	
		Total		

Financial BID

F-3

BILL OF MATERIAL

1. HT PANEL

S. L. No	DESCRIPTION	MAKE	TYPE	RATING	RATE IN RS. PER UNIT
1	33KV TP ELECTRICALLY OPERATED DRAW TYPE VACCUM CIRCUIT BREAKER WITH FOLLOWING ACCESSORIES A. SPRING CHARGE MOTOR, 230V, AC B. CLOSING COIL 24V DC C. SHUNT TRIP COIL 24V DC D. SAFETY SHUTTER	SCHNEIDER	HVX	630A, TP, EDO 18.4KA FOR 1SEC.	
2	NUMERIC RELAY WITH IDMT+INST. 3 O/C + 1E/F PROTECTION O/C SETING – (50-200%) E/F SETING – (20-80%)	C&S	IR-PRO-31-EI	CTR-/5A AUX 110V DC	
3	FLUSH MOUNTED HIGH SPEED TRIPPING RELAY AUX.CONTACTS 3NO+2NC H/R		CLR	AUX.110V DC	
4	TRIP CIRCUIT SUPERVISION RELAY		MRA-PRO V2	AUX.110V DC	
5	UNDER/OVER VOLTAGE RELAY AUX.SUPPLY 110 V AC		IRU-PRO-UO	AUX.110V DC	
6	MULTI FUNCTION METER (TRIVECTOR METER) 96 SQ. MM 50Hz AC AUX. SUPPLY-110V AC 30, 4W, 110V AC	CONZERV (SCHNEIDER)	EM6400	CTR-/5A CL-0.5,110V AC	
7	POWER FACTOR METER, 30, 4W, 110V AC 48X96 SQ. MM 50Hz AC AUX. SUPPLY-110V AC		ELF – 3234- 3/EQ.	CTR-/5A CL-0.5,110V AC	
8	AMMETER, 96 SQ. MM, CTR-/5A, CL-0.5 WITH INBUILT SELECTOR SWITCH, AUX. SUPPLY 230 AC		DM3110/EQ.	CL-0.5,0-25A	
9	33KV DUAL CORE, SINGLE RATIO CURRENT TRIP. TYPE RESIN CAST	MATRIX	WPL	50/5-5A CL— 0.5/5P10,15VA 25/5-5A CL- 0.5/5P10,15VA	

10	POTENTIAL TRANSFORMER		RESIN CAST	33 KV/ $\sqrt{3}$ /110V/ $\sqrt{3}$ CL-0.5,100VA	
11	Battery	EXIDE	EP 42-12	12 V	
12	Battery Charger	MAX POWER	FLOAT CUM BOOST CHARGER	IN-PUT AC VOLTAGE-415V $\pm$ 10%, OUT-PUT DC VOLTAGE-110V/25A	
13	MINIATURE CIRCUIT BREAKER	SCHNEIDER	“C” CURVE	16A,DP,10KA 10A,DP,10KA 6A,DP,10KA 6A,SP,10KA	
14	BREAKER CONTROL SWITCH	KAYCEE	T-N-C	25A	
15	SELECTOR SWITCH		2P,2W WITH	6A	
16	INDICATING LIGHT RED LED TYPE YELLOW BLUE RED GREEN AMBER BLUE WHITE	L&T(ESBEE)/ SCHNEIDER	22.5 mm	63.5V AC	
				110V DC	
17	MUSHROOM HEAD STAY PUT TYPE ‘RED’ PUSH BUTTON			2NO + 1NC	
18	PUSH BUTTON ‘RED’ ‘YELLOW’ ‘BLACK’	L&T(ESBEE)/ SCHNEIDER	22.5 mm	1NO 1NO 1NO	
19	AUXILARY RELAY	OMRON/SALZER	4 C/O	110V DC	
			2 C/O	110V DC	
20	BUZZER, 96 Sq. mm.	VAISHNO	ELECTRONIC	110V DC	
21	ANNUNCIATOR WITH OUT T/A/R PB	MINILEC	8 WINDOW	110V DC	
22	HRC FUSE LINKS WITH COMPATIBLE FUSE BASE	ANAND	ABCNA	3.15A,33KV	
23	LIGHT FIXTURE	LIBERTY/NEUTE CH	230V AC	11W	
24	DOOR SWITCH	KAYCEE	INO + 1NC	6A	
25	TOGGLE SWITCH		ON/OFF	6A	
26	SPACE HEATER	TELETEC	230V AC	80W	
27	THERMOSTAT	TEMPTROL	230V AC	0°C – 80°C	

2) MAIN LT PANEL

S. L. No	LEGEND	ITEM DESCRIPTION	MAKE	TYPE	RATING	RATE IN RS. PER UNIT
01	ACB	AIR CIRCUIT BREAKER EDO WITH MICROPROCESSOR BASED O/L, S/C & E/F, REL. CLOSING COIL 230V AC, TRIPPING COIL 230V AC, 230V AC MOTOR 415V U/V REL, AUX. CONTACT 4NO+4NC, WITH TRIP ALARM CONTACT	ABB/L&T/SCHNEIDER	PR121/Eq.	2000A, FP, EDO 50KA	
02	ACB	AIR CIRCUIT BREAKER EDO WITH MICROPROCESSOR BASED O/L, S/C & E/F, REL. CLOSING COIL 230V AC, TRIPPING COIL 230V AC, 230V AC MOTOR 415V U/V REL, AUX. CONTACT 4NO+4NC, WITH TRIP ALARM CONTACT	ABB/L&T/SCHNEIDER	PRI21/Eq.	1600A, FP, EDO 50KA	
02	ACB	AIR CIRCUIT BREAKER EDO WITH MICROPROCESSOR BASED O/L, S/C & E/F, REL. CLOSING COIL U/V REL.415V AC, TRIPPING COIL 230V AC, 230V AC MOTOR AUX. CONTACT 4NO+4NC, WITH TRIP ALARM CONTACT	ABB/L&T/SCHNEIDER	PR121/Eq.	800A, FP, EDO 50KA	
03	ACB	AIR CIRCUIT BREAKER EDO WITH MICROPROCESSOR BASED O/L, S/C & E/F, REL. CLOSING COIL 230V AC, TRIPPING COIL 230V AC, 230V AC MOTOR AUX. CONTACT 4NO+4NC, NCT, TRIP ALARM CONTACT	ABB/L&T/SCHNEIDER	PR121/Eq.	1000A, TPN, EDO 50KA	
04	ACB	AIR CIRCUIT BREAKER EDO WITH MICROPROCESSOR BASED O/L, S/C & E/F, REL. CLOSING COIL 230V AC, TRIPPING COIL 230V AC, 230V AC MOTOR 415V U/V REL.,AUX. CONTACT 4NO+4NC, TRIP ALARM CONTACT	ABB/L&T/SCHNEIDER	PR121/Eq.	400A, FP, EDO 50KA	
05	MCCB	MOULDED CASE CIRCUIT BREAKER WITH MICROPRO. RELEASE O/L, S/C & E/F PROTECTION, ROH WITH AUX. + TRIP CONTACT	ABB/L&T/SCHNEIDER	--	630A, TPN, 50KA	
06	MCCB	MOULDED CASE CIRCUIT BREAKER WITH MICROPRO.	ABB/L&T/SCHNEIDER	--	400A, TPN,	

		RELEASE O/L, S/C & E/F PROTECTION, ROH WITH AUX. + TRIP CONTACT	EIDER		50KA	
07	MCCB	MOULDED CASE CIRCUIT BREAKER WITH MICROPRO. RELEASE O/L, S/C & E/F PROTECTION, ROH WITH AUX. + TRIP CONTACT	ABB/L&T/SCHN EIDER	--	320A, TPN, 50KA	
08	MCCB	MOULDED CASE CIRCUIT BREAKER WITH MICROPRO. RELEASE O/L, S/C & E/F PROTECTION, ROH WITH AUX. + TRIP CONTACT	ABB/L&T/SCHN EIDER	--	250A, TPN, 50KA	
09	MCCB	MOULDED CASE CIRCUIT BREAKER WITH THERMAL MAGNETIC RELEASE O/L, S/C PROT. WITHR.O.H AUX. + TRIP CONTACT	ABB/L&T/SCHN ETDER	--	100A, TPN, 50KA	
10	MCCB	MOULDED CASE CIRCUIT BREAKER WITH THERMAL MAGNETIC RELEASE O/L, S/C PROT. WITH R.O.H AUX. + TRIP CONTACT	ABB/L&T/SCHN EIDER	--	63A, TPN 50KA	
11	MCCB	MOULDED CASE CIRCUIT BREAKER WITH THERMAL MAGNETIC RELEASE O/L, S/C PROT. WITHR.O.H AUX. + TRIP CONTACT	ABB/L&T/SCHN EIDER	--	32A, TPN 50KA	
12	CT	DOULE CORE CURRENT TRANSFORMER, RESIN CAST	MATRI X/JAKS ON	BPL	2000/1000/5A, CK-1,0M 15AM DYAK CIRE	
13	CT	CURRENT TRANSFORMER, RESIN CAST	MATRI X/JAKS ON	BPL	2000/5A, CL-PS	
14	CT	CURRENT TRANSFORMER, RESIN CAST	MATRI X/JAKS ON	BPL	1000/5A, CL – 1.0, 15VA	
15	CT	CURRENT TRANSFORMER, RESIN CAST	MATRI X/JAKS ON	BPL	600/5A, CL – 1.0, 15VA	
16	CT	CURRENT TRANSFORMER, RESIN CAST	MATRI X/JAKS ON	BPL	400/5A, CL – 1.0, 15VA	
17	CT	CURRENT TRANSFORMER, RESIN CAST	MATRI X/JAKS ON	BPL	300/5A, CL – 1.0, 15VA	
18	CT	CURRENT TRANSFORMER, RESIN CAST	MATRI X/JAKS ON	BPL	250/5A, CL – 1.0, 10VA	

19	CT	CURRENT TRANSFORMER, RESIN CAST	MATRIX/JAKSON	BPL	100/5A, CL – 1.0, 5VA	
20	CT	CURRENT TRANSFORMER, RESIN CAST	MATRIX/JAKSON	WPL	60/5A, CL – 1.0, 5VA	
21	CT	CURRENT TRANSFORMER, RESIN CAST	MATRIX/JAKSON	WPL	30/5A, CL – 1.0, 5VA	
22	A+ASS	AMPERE METER, 96Sqmm., WITH IN BUILT AMMETER SELECTOR SWITCH, AUX. SUPPLY 240V AC	CONZE RV (SCHNEIDER)	DIGITAL	CTR-/5A	
23	KWH	ENERGY METER 96 Sq.mm. 3ph 4w, 415VAC AUX. SUPPLY 240V AC, WITH RS485 PORT	CONZE RV (SCHNEIDER)	EM6433	CTR-/5A, 415V AC	
24	MFM	MULTIFUNCTION METER, 96Sqmm., 3ph 4W, 415VAC AUX. SUPPLY 240V AC, WITH RS485 PORT	CONZE RV (SCHNEIDER)	EM6400	CTR-/5A, 415V AC	
25	BCS	BREAKER CONROL SWITCH	KAYCEE	TNC	25A	
26	IL	INDICATION LIGHT, COLOR ‘RED’	ESBEE	PH22.5MM	230V AC	
27	IL	INDICATION LIGHT, COLOR ‘YELLOW’	ESBEE	PH22.5MM	230V AC	
28	IL	INDICATION LIGHT, COLOR ‘BLUE’	ESBEE	PH22.5MM	230V AC	
29	IL	INDICATION LIGHT, COLOR ‘GREEN’	ESBEE	PH22.5MM	230V AC	
30	IL	INDICATION LIGHT, COLOR ‘AMBER’	ESBEE	PH22.5MM	230V AC	
31	MCB	MINIATURE CIRCUIT BREAKER	ABB/REPUTED	‘C’ CURVE	2A SP, 10KA	
32	----	AUXILIARY CONTACTOR, 2NO+2NOC	ABB/L&T/SCHNEIDER	----	230V AC	
33	REF	RESTRICTED EARTH FAULT RELAY	AREVA	CAG14	230V AC	
34	A/M	AUTO/MANUAL SELECTRO SWITCH	KAYCEE	2P, 2W W/O OFF	230V AC	
35	UPS	ON LINE UPS WITH INBUILT 1HOUR BATT. BACK-UP	REPUTED	SINGLE PHASE	230V AC	

3) CAPACITOR PANEL

SL. No	LEGEND	ITEM DESCRIPTION	MAKE	TYPE	RATING	RATE IN RS. PER UNIT
01	MCCB	MOULDED CASE CIRCUIT BREAKER WITH MICROPROCESSOR. RELEASE O/L, S/C & E/F PROTECTION, & R.O.H, AUX. + TRIP	ABB/L&T/SCHNEIDER	--	630A, TP, 50KA	
02	MCCB	MOULDED CASE CIRCUIT BREAKER WITH MICROPROCESSOR. RELEASE O/L, S/C & E/F PROTECTION, & R.O.H, AUX. + TRIP	ABB/L&T/SCHNEIDER	--	400A, FP, 50KA	
03	MCCB	MOULDED CASE CIRCUIT BREAKER WITH MICROPROCESSOR. RELEASE O/L, S/C & E/F PROTECTION, & R.O.H,	ABB/L&T/SCHNEIDER	--	250A, TP, 50KA	
04	MCCB	MOULDED CASE CIRCUIT BREAKER WITH MAGNETIC. RELEASE O/L, & S/C PROTECTION, & R.O.H	ABB/L&T/SCHNEIDER	--	125A, TPN, 50KA	
05	MCCB	MOULDED CASE CIRCUIT BREAKER WITH THERMAL MAGNETIC. RELEASE O/L, & S/C PROTECTION, & R.O.H	ABB/L&T/SCHNEIDER	--	63A, TP, 50KA	
06	MCCB	MOULDED CASE CIRCUIT BREAKER WITH THERMAL MAGNETIC. RELEASE O/L, & S/C PROTECTION, & R.O.H	ABB/L&T/SCHNEIDER	--	32A, TPN, 50KA	
07	C	AUXILIARY CONTACTOR 2NO+2NC	ABB/L&T/SCHNEIDER	--	240V AC	
08	A+ASS	DIGITAL AMMETER SIZE 96Sqmm WITH INBUILT ASS	SCHNEIDER	DM3110	CTR-/5A, AUX. 240V AC	
09	V+VSS	DIGITAL VOLTMETER SIZE 96Sqmm WITH INBUILT VSS	SCHNEIDER	DM3210	PTR-415V AC, AUX. 240V AC	
10	APFCR	AUTOMATIC POWER FACTOR CONTROL RELAY WITH PF	L&T/EPCOS	--	10 STEP	

11	CT	CUURENT TRANSFORMER (RESIN CAST)	MATRIX/JAKSON	.BPL	600/5A, CL-1.0, 15VA	
	CT	CUURENT TRANSFORMER (RESIN CAST)	MATRIX/JAKSON	.BPL	400/5A, CL-1.0, 15VA	
12	MCB	CONTROL MCB	ABB/REPUTED	‘C’ CURVE	2A,SP, 10KA	
13	C	POWER CONTACTOR WITH AUX. SUPPLY 240V AC	ABB/L&T/SCHNEIDER	AC – 3 DUTY	200A, TP	
14	C	POWER CONTACTOR WITH AUX. SUPPLY 240V AC	ABB/L&T/SCHNEIDER	CAP. DUTY	50KVAR	
15	C	POWER CONTACTOR WITH AUX. SUPPLY 240V AC	ABB/L&T/SCHNEIDER	CAP. DUTY	25KVAR	
16	C	POWER CONTACTOR WITH AUX. SUPPLY 240V AC	ABB/L&T/SCHNEIDER	CAP. DUTY	10KVAR	
17	AM	AUTO/MANUAL SELECTOR SWITCH	KAYCEE/SALZER	1P, 2W W/O OFF	6A	
18	CAP.	CAPACITOR BANK, 440VAC	EPCOS/DUCAT/L &T	NORMAL DUTY	25KVAR	
19	CAP.	CAPACITOR BANK, 440VAC	EPCOS/DUCAT/L &T	NORMAL DUTY	10KVAR	
20	T	SHORT TO START OFF DELAY TIMER	CIC/EAPL	--	240V AC	
21	IL	PHASE INDICATION LIGHT, LED TYPE (R,Y,B)	ESBEE	PH22.5MM	230V AC	
22	IL	ON/OFF INDICATION LIGHT, LED TYPE (R,G)	ESBEE	PH22.5MM	230V AC	
24	PB	ON/OFF PUSH BUTTON (R.G)	ESBEE	PH22.5MM	NO/NC	

4) Transformer

SL. NO.	LEGEND	DESCRIPTION	MAKE	RATING	RATE IN RS. PER UNIT
1	B/RELA Y	BUCHHOLZ RELAY WITH 2 SETS OF CONTACTS	ATVUS	5A,240V,AC/2 A,220V, DC	
2	WTI	WINDING TEMP. INDICATOR WITH 2 SETS OF CONTACTS (MICRO SWITCH TYPE)	PRECIMEASUR E	2A,250V AC/DC	
3	OTI	OIL TEMP. INDICATOR WITH 2 SETS OF CONTACTS (MICRO SWITCH TYPE)	PRECIMEASUR E	2A,250V AC/DC	
4	TI-TO8 &	TERMINAL ST. WITH TERMINAL STRIP TYPE-CST-10	ELMEX/CONNE CTWELL	50A, 650V AC/DC.	
5	T11-T20	TERMINAL ST. WITH TERMINAL STRIP TYPE-CDTTS	ELMEX/CONNE CTWELL	45A. 650V AC/DC.	
6	T09-T10	WINDING TEMP. INDICATOR CURRENT TRANSFORMER	KAPPA/MAHND RA/REPUTED	REFER IN R&D PLATE	
7	WTICT	MAGNETIC OIL LEVEL GAUGE WITH 1-SET OF CONTACT	ATVUS/SUKRU T	5A,240V,AC/0. 5A,220V, DC	
8		Silica jell	Reputed make		

160KVA SPL AMF PANEL - 1

SL. No	SYMB.	DESCRIPTION	MAKE	TYPE	RATING	RATE IN RS. PER UNIT
01	F1-F6	HRC FUSE WITH FUSE BASE	L&T	D/N	250A	
02	MCB©	MINATURE CIRCUIT BREAKER	L&T	DP DP SP	20A 6A 6A 4A	
03	CT	CURRENT TRANSFORMER, TAPE INSULATED	MATRIX	BPL	200/5A,CL-1,10VA 200/5A,CL-1,10VA 200/5A,CL-1,10VA	
04	CM,CA	FP CONTACTOR, 240V AC, 2NO+NC, AC-1 DUTY	L&T	22.5ph mm.	255A	
05	L1,L3,L5 L2,L4	INDICATING LIGHT, 240V AC, LED TYPE RED YELLOW BLUE INDICATING LIGHT,12V AC, LED TYPOE RED	VAISHNO	22.5ph mm.	240V AC 12V DC	
06	S1,S3,S5 S2,S4,S6	PUSH BUTTON GREEN RED	VAISHNO	22.5ph mm.	NO/NC NO/NC	
07	EM.	MUSHROOMHEAD PUSH BUTTON, PRESS TO LOCK TURNS TO RELEASE.	VAISHNO		2 ND	
08	LPB	LUMINUS PUSH BUTTON, CONTACT INC 12V DC RED	VAISHNO	22.5ph mm.	12V DC	
09	ATM	AUTO/TEST/MANUAL SELECTOR SWITCH, 4POLE 3 WAY WITH OFF	VAISHNO	ROTARY	6A	
10	T/B	TRICKLE/BOOST SELECTOR SWITCH, 2 POLE 2 WAY	L&T-SALZER	ROTARY	6A	
11	A	AMMETER, 96sq mm, CL-1.0 ACCURACY	ELTRAC	DIGITAL	0-200A,CR=TR-5.A	
12	V	VOLTMETER SELECTOR SWITCH	ELTRAC	DIGITAL	0-500V	
13	ASS	AMMETER SELECTOR SWITCH	VAISHNO	ROTARY	6A	
14	VSS	VOLTMETER SELECTOR SWITCH	VAISHNO	ROTARY	6A	
15	<u>A</u>	DC AMMETER, 96sq mm.,	ELTRAC	DIGITAL	0-20A	

		SHUNT, AUX SUPPLY 240V AC				
16	V	DG VOLTMETER,96sq mm., AUX SUPPLY 240V AC	ELTRAC	DIGITAL	0-30V	
17	DGC-6	MICROPROCESSOR BASED AMF CONTROLLER	MRM- PROCOM		12V DC	
18	27	SOLID STATE UNDER VOLTAGE RELAY (for Mains) 3ph, 415V AC, SETTING – 300-400V (70%-80%) TRIP/OFF TIME:0-10Sec	TEKNIKA		415V AC	
19	OCR	3element over current relay AUX SUPPLY : 230V AC, OVER CURRENT SETTING:0.5-5A TIME SETTING: 0.10 Sec	TEKNIKA	3ELEMENT		
20	EFR	SOLID STATE SINGLE ELEMENT FARTH FAULT RELAY CTR- /5A,AUX,SUPPLY 230V-AC 2CHANGE OVER CONTACTS	TEKNIKA	SOLID STATE	CTR-200/5A AUX230V AC	
21	O/L	THERMAL OVERLOAD RELAY WITH INBUILT SPPR FEATURE	L&T	--	3.5A	
22	EFRX, CMx,CAx CR,FR DR	AUXILARY RELAY 4 C/O,14PIN 240V DC AUXILIARY RELAY 4 C/O,14PIN 240V DC	OEN/SALZER	4 C/O 4 C/O	12V DC 240V AC	
23	BATTERY CHARGER	CONSTANT VOLTATE OUTPUT TYPE TRANSFORMER BASED BATTERY CHARGER WITH TRICKLE/BOOST FACILITY	MAXPOWER	--	12V DC 10A	
24	AMM/	4 POINT ALARM ANNUNCIATOR WITH INBUILT HOOTER TEST, ACCEPT & RESET PUSH BUTTON	TEKNIKA	SOLID STATE ELECTRONIC	12V-DC	

SL	ITEM NAME	DESCRIPTION	RATE IN
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NO.			RS.PER UNIT
1	Battery	Dry Type,12 volt DC	
2	Charger Accessories	415V/110V Transformer Rectifier Bridge 63 Amp 4P MCCB	
3	Cable End Kit	Indoor Type Heat Shrinkable 36 KV Jointing Kit	
4	33 KV Power Cable	XLPE,3CX240 sq. mm,36 KV/Per Mtr	
5	Earth Electrode	40 mm , 3 meter, G.I pipe/piece Earth Flat/Meter	
6	Earth Flat(GI)	Earth Flat/Meter(40MM)	
7.	Earth Flat(Copper)	Earth Flat/Meter(40MM)	

TECHNICAL BID (CHECK LIST TO FILLED UP BY THE VENDER)

S.L.NO	ITEM	YES/NO
01	Original Non-refundable Demand Draft of Rs. 500.00 /- (Five Hundred only) towards cost of tender document in favor of AIIMS, Bhubaneswar, payable at Bhubaneswar	
02	Original EMD Rs. 28000.00 (Twenty Eight thousand only) /- in the form of DD from a Nationalized bank drawn in favor of AIIMS, Bhubaneswar payable at Bhubaneswar. However, the original EMD of the unsuccessful bidders will be refunded within 15 days of opening of financial bid. For lowest bidder, original EMD will be refunded after submission of Bank Guarantee within 07 days of issue of LOA. In this connection a declaration in the form of Affidavit should be attached.	
03	Separate AFFIDAVIT on the Non-Judicial Stamp Paper of Rs. 100/- as per the format attached.	
04	Documents such as copy of Certificate of Registration of the firm and valid HT electrical license Holder Contractor / copy of valid HT electrical license Holder Contractor, with experience in similar nature of work.	
05	Copies of Works Contract Tax/VAT registration/ EPF Registration / ESIC Registration.	
06	Copies PAN/ IT return/ audited balance sheet.	
07	Experience of having successfully completed work during last three years. The experience should be in the field of operation / Maintenance of electrical substation/ HT work etc. from Central Government/ State Government/Public Sector Undertakings/Government Autonomous bodies. (i) One similar completed work of volume not less than the quantity equal to 80% of quantum of work. (ii) Two similar completed work of volume not less than the quantity equal to 50% of quantum of work. (iii) Three similar completed work of volume not less than the quantity equal to 40% of quantum of work.	
08	Filled up format I & II	

Signature of the Bidder/Authorized signatory of the firm