

Notice Inviting Tender For Supply, Installation, Testing and Commissioning of Electrical works at Animal House of Academic Complex, AIIMS, Bhubaneswar.



**All India Institute of Medical Sciences
Engineering Branch, Bhubaneswar (Odisha) - 751019
www.aiimsbhubaneswar.edu.in**

NIT NO. : AIIMS/BBSR/ENGG./ELECT./13/2017

NIT Issue Date : 2ND NOVEMBER 2017

Last Date of Submission : 8TH NOVEMBER 2017 (3.00 PM)

“Certified that, this tender document contains Thirty Five pages only”.

**Executive Engineer (Electrical)
AIIMS, Bhubaneswar**

Government of India, Ministry of Health & Family Welfare
Project Cell, AIIMS, Bhubaneswar

Name of the project: Supply, Installation, Testing and Commissioning of Electrical works at Animal House of Academic Complex, AIIMS, Bhubaneswar.

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INFORMATION AND INSTRUCTIONS TO THE BIDDEERS

Sealed Tenders are invited from valid license holder (MV or above) contractors with work experience from central Govt, State Govt, Autonomous bodies, PSUs for the following work.

Ser. No.	Particulars	Particulars
1	NIT No.	AIIMS/BBSR/ENGG./ELECT./13/2017
2	Name of Work & Location	Supply, Installation, Testing and Commissioning of Electrical works at Animal House of Academic Complex, AIIMS, Bhubaneswar.
3	Estimated Cost put to Tender (In Rs.)	Rs. 5, 75,397/- (Rupees FIVE LAKH SEVENTY FIVE THOUSAND THREE HUNDRED NINETY SEVEN only)
4	Earnest Money Diposite (In Rs.)	Rs. 11,508/- (Rupees ELEVEN THOUSAND FIVE HUNDRED EIGHT only)
5	Period of Completion	Fifteen Days (15 Days)
6	Last date & time of Submission of Tender	8th November 2017 at 3.00 PM
7	Time & Date of Opening of Tender/Bid	8th November 2017 at 3.30 PM

1. The intending bidder must read the terms and conditions of tender document carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents / certificates required.

2. Information and instructions for bidders posted on web site shall form part of bid document.

3. The bid documents consisting of plans, specifications, the schedule of quantities of various types of items to be executed and these to of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website www.aiimsbhubaneswar.edu.in.

4. But the **Bid can only be submitted after depositing** (Non-Refundable, **Cost of Tender Paper**) for **Rs 500/-** (Rupees **FIVE HUNDRED** only) in favour of AIIMS, Bhubaneswar in form of Demand Draft.

5. The enlistment of the contractors should be valid on the last date of sale of Tenders. In case the last date of submission of bid is extended; the contractor should be valid on the original date of submission of bids. In case both the last date of receipt of application and sale of Tenders are extended, the enlistment of contractor should be valid on either of the two dates i.e. original date of sale of Tender or on the extended date of sale of Tenders.

6. The authority competent to approve NIT for the combined cost and belonging to the Major discipline will consolidate NITs for calling the bids. He will also nominate a committee which will deal with all matters relating to the invitation of bids. For composite bid, besides indicating the combined estimated cost put to bid, should clearly indicate the estimated cost of each component separately. The eligibility of bidders will correspond to the combined estimated cost of different components put to bid.

7. Intending bidders is eligible to submit the bid provided he has definite proof from the appropriate authority, which shall be to the satisfaction of the competent authority, of having satisfactorily completed similar works of magnitude specified below:-

(a) Criteria of eligibility for contractors. 03 (Three) similar works (Internal electrification work) each of value not less than 40% (i.e. for Rs. 2, 30,159/-) or 02 (Two) similar works (Internal electrification work) each of value not less than 50% (i.e. Rs. 2, 87,699/-) or 01 (One) similar works (Internal electrification work) each of value not less than 80% (i.e. Rs. 4, 60,318/-) in last Seven years. Xerox copy of work order and completion certificate must be submitted with Technical Bid.

8. **To become eligible for issue of bid, contractors shall have to furnish an affidavit as under: -**

"I/We undertake and confirm that eligible similar works(s) has/have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of Department, then I/we shall be debarred for bidding in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee".

9. Agreement shall be drawn with the successful bidders on prescribed Form of AIIMS, BHUBANESWAR which is available on website www.aiimsbhubaneswar.edu.in. Bidders shall quote his rates as per various terms and conditions of the said form which will form part of the agreement.

10. The time allowed for completion of work will be **Fifteen (15) days** from the date of start as defined in schedule "B" or from the first date of handing over of the site.

11. The site for the work is available.

12. The Tender should be submitted in 02 (Two) parts i.e. Technical Bid & Financial Bid. The Technical Bid and the Financial Bid should be sealed by the Bidder in 02 (Two) separate Covers superscripted with name of work in both the envelopes as "**Technical Bid** and "**Financial Bid**" respectively. Both sealed envelopes should be kept in a main/bigger envelope superscripted as "Tender for **Supply, Installation, Testing and Commissioning of Electrical works at Animal House of Academic Complex, AIIMS, Bhubaneswar.**" All the document(s) should be properly tagged with page reference have to be quoted on the Index Sheet.

- (a) **Envelope - 1. Technical Bid must contain (Refer Page 21):-**
- (i) **Tender Processing Fee for Rs. 500.00/-** (Demand Draft in original).
 - (ii) **Earnest Money Deposit (EMD) for Rs. 11,508/-** (Demand Draft in original).
 - (iii) Xerox copy of self-attested valid MV or Above Electrical License/Registration.
 - (iv) Xerox copy of self-attested PAN Card.
 - (v) GST No. / Documents for applying for GST No.
 - (vi) Xerox copy of self-attested EPF Document(s).
 - (vii) Xerox copy of Experience Certificate(s) from the Officer not below the rank of Executive Engineer/equivalent.
 - (viii) Xerox copy of ESI Document(s).
 - (ix) Xerox copy of work order and completion certificate as per 7(a)
- (b) **Envelope - 2.** Consisting of **Financial Part** of Tender **(Refer Page 33-35).**
- (c) All the above 02(Two) Envelopes (i.e. Envelope - 1 & 2) shall **be put in 03rd Covering Envelope** and must be **"superscripted"** with the subject Tender (i.e. name of the work).
- (d) The Bidder(s)/Tenderer should also furnish their Office Address along with contact number on all the three Envelope(s) for reference.
- (e) The Tender paper/documents can be downloaded from Official website & submitted through speed Post/Courier Services or can be dropped on Tender Box available in Office of Executive Engineer (Electrical), 3rd Floor, academic Block, AIIMS, Bhubaneswar-751019. For any query, Executive Engineer (Electrical), AIIMS, Bhubaneswar, Phone: 0674 - 2476500 may be contacted.
13. (a) **Tender Processing Fee : Rs. 500.00 (Rupees FIVE HUNDRED only) (Non Refundable)** shall payable to AIIMS Bhubaneswar through Demand Draft (DD)/Bankers Cheque (BC).
- (b) **Earnest Money Deposit (EMD): Rs. 11,508.00(Rupees ELEVEN THOUSAND FIVE HUNDRED EIGHT only)** shall payable to AIIMS, Bhubaneswar through Demand Draft (DD)/Bankers Cheque (BC).
14. The bids submitted shall be opened **at 3.30 PM on 8th November 2017.**
15. The bid submitted shall be come invalid and cost of Tender processing fee shall not be refunded if:-
- (a) The bidders are found in eligible.
 - (b) The bidders do not submit all the documents as stipulated in the bid document.
16. **The successful Contractor will** require furnishing a Performance Guarantee of 05% (Five Percent) of Contract Value after receiving Letter of Acceptance in the form of Demand Draft/Fixed Deposit Receipt or Bank Guarantee from any nationalized Bank duly pledged in the name of "All India Medical Science, Bhubaneswar" which shall be kept valid for a period of 60 (Sixty) days beyond

completion of all the Contractual Obligations. The Security Deposit can be forfeited by order of this Institute in the event of any breach of negligence or non-observance of any condition of Contract or for unsatisfactory performance or non-observance of any condition of the Contract. Performance Security will be discharged after completion of Contractor's Performance Obligations (including Warranty/Guarantee Period) under the Contract. In case the Contractor fails to deposit the said Performance Guarantee within the period including the extended period if any, the Earnest Money deposited by the Contractor shall be forfeited automatically without any notice to the Contractor. The format for Performance Security/Bank Guarantee (Page 31-32 refers) is as per Appendix 'B'.

17. Intending Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their bids as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the mean suffices 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 bid. A bidders 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 bidders 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 bidders 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.

18. The Competent Authority on behalf of **Director, AIIMS, Bhubaneswar** does not bind itself accept the lowest or any other bid and reserves to itself the authority to reject any or all the bids received without the assignment of any reason. All bids in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the bidders shall be summarily rejected.

19. Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and the bids submitted by the contractors who resort to canvassing will be liable for rejection.

20. No Engineer of Gazetted Rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the prior permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the bid or engagement in the contractor's service.

21. Delayed/Late/Conditional quotations/Tenders shall not be accepted at all.

22. **Security Deposit of 5% of the Contract Value will be deducted from the final Bills.**

23. (a) The Income Tax as applicable shall be deducted from the Bill unless exempted by the Income Tax Department.

- (b) GST will be deducted as per rule.
 - (c) Labour Cess will be deducted as per rule.
24. Conditional Bid will be rejected.
25. All the work shall be completed within **Fifteen (15) days** 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. If the contractor fails to complete the work on or before the stipulated date, than a penalty at the Rate of 0.50% per week of the total order value shall be levied subject to maximum of 10% of the total order value.
26. All arbitration shall be held in accordance with the provision of the arbitration and conciliation Act-1996 and the venue of arbitration shall be at Bhubaneswar. The decision of the Arbitrator shall be final and binding on both the Parties.
27. The Technical Bid(s) shall be opened first in presence of Representatives of Bidders **on 08/11/2017** at 3.30 PM. Financial Bid of Bidders, whose Technical Bid is found to be eligible, will be opened later in presence of Bidders or the representatives. The Date & Time of opening of Financial Bid will be intimated to eligible Bidder(s) in time. After the evaluation of the Bid(s), AIIMS, Bhubaneswar will award the contract to the lowest evaluated responsive tenderer. Conditional Bid will be treated as unresponsive and will be rejected.
28. Any disputes are subject to exclusive jurisdiction of Competent Court and Forum in Bhubaneswar (Odisha), India only.
29. Bidder shall submit a copy of the Tender Document and Addendum/Corrigendum thereof if any, with each page of this document should signed and stamped to confirm the acceptance of the entire Terms & conditions as mentioned in the Tender Enquiry document.
30. All the work should be done as per CPWD Specification and relevant Codes.

Executive Engineer (Electrical)
AIIMS, Bhubaneswar

SPECIAL CONDITIONS OF CONTRACT

Name of work : Supply, Installation, Testing and Commissioning of Electrical works at Animal House of Academic Complex, AIIMS, Bhubaneswar.

1. **Discrepancy between Specifications.** In case of discrepancy in the specifications or any other matter, the matter shall be brought by the contractor to the notice of the Executive Engineer (Electrical) for further decision.
2. **Contractor to employ Qualified Supervisor.** The contractor shall employ Skilled Supervisor to supervise and execute the work.
3. **Inconvenience to the Public.** The Contractor shall not deposit or store any materials at any site without permission of the Engineer. The materials will be stored at such places only with prior approval of the Engineer as there is no obstruction in Traffic or other Agencies.
4. **The provision against Accident & Safety Measures.**
 - (a) The Contractor will take all necessary precautions against a Fire during the course of his work and will ensure the work against Fire at his own cost.
 - (b) He will also take all care against likely damage of Floor, Walls, Doors, Windows or any part of the Building. In case of any damage or loss, the contractor has to make good at his own cost.
5. **Specifications.** In the absence of specifications for any work or material, relevant Indian Standard (ISI) Specification / IE rule shall be applicable.
6. **Cleaning the Site.** The site described and shown on the plans shall be cleared off all the rubbish of all kinds etc. complete. After completion of the work and the site shall be handed over in neat and clean condition.
7. **Secrecy.** In a view to safeguard the Secrets & Confidential information relating to All India Institute of Medical Science, Bhubaneswar, the Tenderer binds himself and his successors to secrecy & contracts to bind to secrecy of his Officials, Managers, Technical Senior Staff & all other staff directly or indirectly concerned in or whom have to acquire information relation to the AIIMS, Bhubaneswar equipment and the Tenderer shall access to any such information.
8. **Security Rules.** The Contractor shall follow at Site Security rules regarding removal of materials from site, issue of materials from site, issue of materials from stores, issue of Identity Card etc., as may be framed from time to time by the Engineer. It is to note that the Security Section is empowered to carry out the checks.
9. **Care in case of occupied buildings.** Tenderer may also note that when the subject work is to be carried out in the premises of occupied residential and other buildings which are already under occupation, all care shall be taken to protect personal and/or Government materials fixtures, appliances, equipment's etc. In case of any damage to any of the existing arrangements, contractor is liable to do such work to its original and/or shall be liable to pay the cost of such damages/losses.

The work shall be carried in close co-ordination with occupants of these buildings without any hindrance and interruption.

10. **Supply of Tools, Tackles & other materials.** For full completion of the work, Contractor shall at his own expense arrange and furnish all necessary work tools, tackles, etc., that may be required to complete the work under contract.

11. **Inspection of Work.** Engineer or any person appointed by them shall have access and right to inspect the work, or any part thereof at all times and places during the progress of the work. The inspection and supervision is for the purpose of assuring owner and/or Engineer and their representative will extend to contractor all desired assistance in interpreting the plans and specifications, all such assistance shall not relieve contractor from any responsibility for the work. Contractor without delay shall correct any work, which proves faulty.

12. Contractor shall take all precautionary measures to avoid any damages to adjoining property. All necessary arrangement shall be made at his own cost.

13. The contractor shall take instructions from the Executive Engineer (Electrical) regarding collection and stacking of materials at any place. No excavated earth or building rubbish shall be stacked on areas where other buildings, roads, services and compound walls are to be constructed.

14. Normally, Contractors shall not be allowed to work at night. Work at night shall, however, be allowed if the site condition/circumstances so demand. However, if the work is carried out in more than one shift or at night, no claim on this account shall be entertained. In such situations, the Contractor shall make available to the department in proper means of transport such as vehicle at his own cost.

15. The contractor shall be responsible for the procurement of all the materials required to complete the work.

ADDITIONAL CONDITIONS OF CONTRACT

Name of work : Supply, Installation, Testing and Commissioning of Electrical works at Animal House of Academic Complex, AIIMS, Bhubaneswar.

1. The work shall be carried out in accordance with CPWD Specifications and as per direction of Engineer-in-Charge.
2. Approval of the Executive Engineer (Electrical)/ his designated officer shall be taken well in advance for the materials to be used in the work by the contractor.
3. All repairs and patch work shall be carried out and to the entire satisfaction of Engineer-in-Charge. Any damage done to the building during the execution of Electrical Work shall be the responsibility of the contractor and the same will be made good immediately at his own cost to the satisfaction of the Executive Engineer (Electrical). Any expenditure incurred by the department in this connection shall be recovered from the contractor and decision of the Executive Engineer (Electrical) about recovery shall be final.
4. The contractor has to make his own arrangement for store sand watch & ward and no extra claim for this will be entertained.
5. The contractor has to make his own arrangement at his own cost for the entire general and special T & P required on the work.
6. All the debris due to the Electrical Works shall be removed from the site by the contractor as soon as the work is completed. Similarly, rejected materials should be immediately cleared from the site by the contractor. **Otherwise, a recovery @500/- per day shall be made.**
7. All safety security to the man and material is the sole responsibility of contractor. AIIMS will not be responsible for any theft of material during execution of any electrical accident/accident due to any reason.
8. **Mode of Payment: The Payment will be released after due verification of final bill by Engineer or his representative, after completion of work. The deduction of 5% towards security deposit and other deductions towards Taxes as per Government of India /AIIMS rule will be made from the bill. No provision is given for RA bill payment in this contract.**
9. **The rates quoted should be inclusive of all Taxes. Recovery of labour cess will be made from the final bill as per rule.**
10. Work shall be carried out without causing any inconvenience to the occupants.
11. The materials used in the work shall be of approved make as per following list and shall be got approved from Executive Engineer (Electrical)/ or his designated officer before use at site.
12. If the contract or fails to maintain the required progress to complete the work and clear the site on or before the contractor extended date of completion, he shall, without prejudice to any other right or remedy available under the law to the Government on account of such breach, pay as agreed compensation the amount calculated at the rates stipulated below as the authority specified in schedule 'F' (Here Superintending Engineer whose decision in writing shall be final and binding) may decide on the amount of tendered value of the work for every completed day/month (as applicable) or that the work remains incomplete. This will also apply to items or group of items for which a separate period of completion has been specified. Liquidated Damage @ 0.50% per week, will be claimed from the **Service Provider** for delay of work, to be computed on per day basis provided always that the total amount of Liquidated Damage for delay to be paid under this condition **shall not exceed 10%** of the Tendered Value.

SPECIFICATIONS:

WIRING

1. GENERAL

Technical Specifications in this section cover the Internal Wiring Installations comprising of:

- Wiring for convenience socket outlet in surface/concealed conduit.

2. STANDARDS AND CODES.

Latest upto date Indian Standard (IS) and Code of Practice will apply to the equipment and the Work covered by the scope of this contract. In addition the relevant clauses of the Indian Electricity Act 1910 and Indian Electricity Rules 1956 as amended upto date shall also apply. Wherever appropriate Indian Standards are not available, relevant British and / or IEC Standard shall be applicable.

3. CONDUITS

3.1 PVC CONDUITS

Wiring shall be carried out in surface /concealed conduits. The PVC conduits conform to Latest and shall be ISI embossed. The conduits shall be heavy gauge (minimum 2 mm wall Thickness) and the interiors of the conduits shall be free from all obstructions. All joints in Conduits shall be sealed / cemented with approved solvent cement. Damage conduits/fittings shall not be used. Cut ends of conduits shall not have sharp edges.

3.2 BENDS

As far as possible, the conduit system shall be so laid out that it shall obviate use of tees, elbows and sharp bends. No length of conduit shall have more than the equivalent of two quarter bends from inlet to outlet.

3.3 CONDUIT ACCESSORIES

3.3.1 STANDARD ACCESSORIES

The conduit wiring system shall be complete in all respects, including their accessories. Bends, couplers etc. shall be solid or inspection type as required, in surface type of works. The accessories shall conform in all respects to the relevant IS. Samples shall be got approved by Executive Engineer (Electrical) before use.

3.3.2 FABRICATED ACCESSORIES

Wherever required, outlet boxes of required sizes shall be fabricated from 1.6 mm thick MS sheets which shall be fabricated from minimum 3 mm thick sheets. The outlet boxes shall be of approved quality, finish and manufacture. Suitable means of fixing connectors etc., if required, shall be provided in the boxes. The boxes shall be protected from rust by zinc phosphate primer process. Boxes shall be finished with minimum 2 coats of enamel paint of approved colour. A screwed brass stud shall be provided in all boxes as earthing terminal.

4. WIRES

Wiring shall be carried out with FRLS insulated 660/1100 volt grade unsheathed single core wires with electrolytic annealed stranded copper (unless otherwise stated) conductors conforming to latest IS Code. All wire rolls shall be ISI marked. All wires shall bear manufacturer's label and shall be brought to site in new and original packages. Manufacturer's certificate, certifying that wires brought to site are of their manufacture shall be furnished as required.

5. LAYING OF CONDUITS

- Conduits shall be laid on surface/concealed on walls and ceilings as required.
- Same rate shall apply for surface/concealed Conduiting in this contract.
- Stranded copper conductor insulated wire of size as per schedule of quantities shall be Provided in entire Conducting for loop earthing.
- GI wire of suitable size to serve as a fish wire shall be left in all conduit runs to facilitate Drawing of wires after completion of Conduiting.

6. SURFACE/CONCEALED CONDUITING

Wherever so desired, conduit shall be laid in surface over finished concrete and/or plastered Brickwork. Suitable GI /MS hook of approved make and finish shall be fixed to the finished Structural surface along the conduit route at intervals not exceeding 600 mm. Holes in concrete or brick work for fixing the saddles shall be made neatly by electric drills using masonry drill bits. Conduits shall be fixed on the saddles by means of good quality heavy duty MS clamps screwed to the saddles by counter sunk screws. Neat appearance and good workmanship of surface Conduiting work is of particular importance. The entire conduit work shall be in absolute line and plumb.

6.1 FIXING OF CONDUIT FITTINGS AND ACCESSORIES

For surface/concealed Conduiting work, the fittings and accessories shall be completely embedded on finished wall/ceiling surface in a workman like manner. Loop earthing wire shall be connected to a screwed earth stud inside outlet boxes to make an effective contact with the metal body.

6.2 CLEANING OF CONDUIT RUNS

The entire conduit system including outlets and boxes shall be thoroughly cleaned after completion of erection and before drawing in of cables.

6.3 PROTECTION AGAINST DAMPNESS

All outlets in conduit system shall be properly drain and ventilated to minimize chances of condensation/sweating.

6.4 EXPANSION JOINTS When crossing through expansion joints in buildings, the conduit sections across the joint shall be through approved quality heavy duty metal flexible conduits of the same size as the rigid conduit. The expansion joint crossing shall be done as approved by Engineer-In-Charge.

6.5 LOOP EARTHING

Loop earthing shall be provided by means of insulated stranded copper conductor wires of sizes as per Schedule of Quantity laid along with wiring inside conduits for all wiring outlets. Earthing terminals shall be provided inside all switch boxes, outlet boxes and draw boxes etc.

7. LAYING AND DRAWING OF WIRES

7.1 BUNCHING OF WIRES

Wires carrying current shall be so bunched in conduits that the outgoing and return wires are drawn into the same conduit. Wires originating from two different phases shall not be run in the same conduit.

7.2 DRAWING OF WIRES

The drawing of wires shall be done with due regard to the following precautions: - No wire shall be drawn into any conduit, until all work of any nature, that may cause injury to wire is completed. Burrs in cut conduits shall be smoothen before erection of conduits. Care shall be taken in pulling the wires so that no damage occurs to the insulation of the wire. Approved type bushes shall be provided at conduit terminations. Before the wires are drawn into the conduits, conduits shall be thoroughly cleaned of moisture, dust, dirt or any other obstruction by forcing compressed air through the conduits if necessary. While drawing insulated wires into the conduits, care shall be taken to avoid scratches and kinks which cause breakage of conductors. There shall be no sharp bends. The Contractor shall, after wiring is completed, provide a blank metal/sunmica plate on all switch / outlet / junction boxes for security and to ensure that wires are not stolen till switches / outlets etc. are fixed at no extra cost the contractor shall be responsible to ensure that wires and loop earthing conductors are not broken and stolen. In the event of the wire been partly / fully stolen, the contractor shall replace the entire wiring along with loop earthing at no extra cost. No joint of any nature whatsoever shall be permitted in wiring and loop earthing.

7.3 TERMINATION /JOINTING OF WIRES

Sub-circuit wiring shall be carried out in looping system. Joints shall be made only at distribution board terminals, switches for socket outlets. No joints shall be made inside conduits or junction/draw/inspection boxes. Switches controlling socket outlets shall be connected in the phase wire of the final sub circuit only. Switches shall never be connected in the neutral wire. Wiring conductors shall be continuous from outlet to outlet. Joints where unavoidable, due to any special reason shall be made by approved connectors. Specific prior permission from Engineer-In-Charge in writing shall be obtained before making such joint. Insulation shall be shaved off for a length of 15 mm at the end of wire like sharpening of a pencil and it shall not be removed by cutting it square or wringing. Strands of wires shall not be cut for connecting terminals. All strands of wires shall be twisted round at the end before connection. Conductors having nominal cross sectional area exceeding 1.5 sq. mm shall always be provided with crimping sockets. Tinning of the strands shall be done wherever crimping sockets are not available as per instructions of the Executive Engineer (Electrical). All wiring shall be labelled with appropriate plastic ferrules for identification. At all bolted terminals, brass flat washer of large area and approved steel spring washers shall be used. Brass nuts and bolts shall be used for all connections. The pressure applied to tighten terminal screws shall be just adequate, neither too much nor too less. Switches controlling socket outlets

shall be connected to the phase wire of circuits only. Only certified valid license holder wiremen shall be employed to do wiring / jointing work.

7.4 LOAD BALANCING

The Contractor shall plan the load balancing of circuits in 3 phase installation and get the same approved by the Engineer-In-Charge before commencement of the work.

7.5 COLOUR CODE OF CONDUCTORS

Colour code shall be maintained for the entire wiring installation - red, yellow, blue for three phases, black for neutral and green for earth.

8.1 SWITCHES

The 16 amps switches shall be of the modular enclosed type flush mounted 220 Volt AC of the best quality and standard or as approved by Engineer-In-Charge. The switch moving and fixed contacts shall be of silver nickel and silver graphite alloy and contact tips coated with silver. The housing of switches shall be made from high impact resistant, flame retarding and ultra violet stabilized engineering plastic material.

8.2 FLUSH PLATES

Switches in wall shall be provided with modular cover plates of shape, size and colour approved by the Engineer-In-Charge made from high impact resistant, flame retarding and ultra violet stabilized engineering plastic material, and secured to the box with counter sunk round head chromium plated brass screws. Plate, 16 amps switched plates shall have the same shape and size. Extra openings shall be provided with blank-off.

8.3 WALL SOCKET OUTLETS

The 16 Amps wall socket outlets unless otherwise mentioned on the drawings shall be switched, five/six round pin and fitted with automatic linear safety shutters to ensure safety from prying fingers. Un-switched 16 amp wall socket outlets where called for in the drawings shall be of five/six round pin type. The socket outlets shall be made from high impact resistant, flame retarding and ultra violet stabilized engineering plastic material. The switch and sockets shall be located in the same plate. All the switched and un-switched outlets shall be of the best standard. An earth wire shall be provided along the cables feeding socket outlets for electrical appliances. The earth wire shall be connected to the earthing terminal screw inside the box. The earth terminal of the socket shall be connected to the earth terminal provided inside the box.

9. MEASUREMENT AND PAYMENT OF WIRING

Wiring for convenience socket outlets shall be measured from MCB Distribution board to socket outlet as running metre. Paid for on running metre as itemized schedule of quantities and as elaborated as below unless otherwise stated.

10. ROUTINE AND COMPLETION TESTS

10.1 INSTALLATION COMPLETION TESTS

At the completion of the work, the entire installation shall be subject to the following tests:

1. Wiring continuity test
2. Earth continuity test

All tested and calibrated instruments for testing, labour, materials and incidentals necessary to conduct the above tests shall be provided by the contractor at his own cost.

10.2 PERFORMANCE

Should the above tests not comply with the limits and requirements as above the contractor shall rectify the faults until the required results are obtained. The contractor shall be responsible for providing the necessary instruments and subsidiary earths for carrying out the tests. The above tests are to be carried out by the contractor without any extra charge.

11. MINIATURE CIRCUIT BREAKERS

The MCB's shall be of the completely moulded design suitable for operation at 240/415 Volts 50 Hz system. The MCB's shall have a rupturing capacity of 10 KA at 0.5 p.f. The MCB's shall have inverse time delayed thermal overload and instantaneous magnetic short circuit protection. The MCB time current characteristic shall coordinate with XLPE cable characteristic. Type test certificates from independent authorities shall be submitted with the tender.

12. PLATE EARTHING

The plate earthing should be done as per CPWD works Manual-2014

a) The brief scope of work shall be carrying out necessary excavation, providing and fixing of earth electrode with GI pipe and funnel, providing and filling of soil enhancement material, construction of earth pit chambers, Providing earth pit cover, painting of earth pit covers, measurement of earth pit resistance and connecting the earth pit to earth grid/equipments conforming to **IS- 3043**.

b) The necessary tools and tackles, material and labour required for all the works mentioned hereunder to complete the works upto the satisfaction of AIIMS engineer, is in the scope of the contractor. No additional payment will be made for the same.

EXCAVATION OF EARTH PITS:

Excavation shall be carried out by means of manual digging the soil where ever is practicable or by means of auguring the soil. After excavation broken lumps and stones, if any, are to be removed from the earth pit.

PROVIDING AND FIXING OF EARTH ELECTRODE:

a) The job includes providing of 40 mm diameter NB class B, GI pipe of 2.7 meters length. Bottom portion of the GI earth electrode is to be made sharp for easy penetration into the soil.

b) GI Earthing strip of 300 mm (Length) x 6 mm (Thickness) x50 mm (Width) bent to the shape of the pipe and welded at 75 mm from top portion of GI earth electrode. Tapped holes of 10 mm diameter shall be provided on the GI earthing strip for connecting earthing strips to the earth electrode.

c) Funnel with a mesh shall be provided on the top portion of the earth electrode for watering purpose.

d) GI earthing strip welded to the earth electrode at the top shall have hot dip galvanized coating of not less than 10 microns thickness.

PROVIDING AND FILLING OF EARTH ENHANCEMENT MATERIAL:

The job includes filling up of the earth pit with earth enhancement materials after placing the earth electrode in the excavated earth pit. Earth enhancement materials shall be watered and rammed as tight as possible for shall be carried out proper bonding of the electrode with the adjacent soil. Earth shall be filled 300 mm in diameter, around electrode in place of soil, charcoal or coke dust.

CONSTRUCTION OF EARTH PIT CHAMBER:

The job includes providing earth pit chambers, Depth of the earth pit chamber should be 400 mm from the ground level. Earth pit chamber and cover should be at finished ground level so as not to hinder public/commuter movement at stations.

PROVIDING EARTH PIT COVERS:

(a) The job includes providing RCC/CI covers on the top portion of the earth pit chamber with suitable handle for lifting arrangement. A base frame of suitable dimensions shall be fixed to the top portion of the earth pit chamber to accommodate earth pit cover. Complete arrangement shall be at ground level. A base frame of suitable dimensions shall be fixed to the top portion of the earth pit chamber to accommodate earth pit cover.

b) The job includes painting of earth pit cover, wherever metallic earth pit covers are provided. For, the earth pit is to be provided with earth pit display board having identification number as per existing practice.

c) Inside portion of the pit shall be cleaned properly.

IDENTIFICATION OF EARTH PITS:

Earth pit display boards on top of an iron rod duly painted marked with of earth pit number, individual pit resistance, due date for measurement and name of location on the display board shall be provided by the contractor for each individual earth pit.

13. CABLE LAYING

The cable laying should be done as per CPWD works manual-2014.

14. MOUNTING HEIGHTS FOR SWITCH SOCKETS/ LIGHT SWITCHES/ MCB DB

Switch socket out lets/ light switches/ MCB DB shall be mounted, as per CPWD general specifications for Electrical works, Part- 1, internal 2005, at a level mentioned below unless specified otherwise, All dimensions noted below shall be from Finished Floor Level to the bottom line of the face plate.

- (i) Light Switches - 1250 mm
- (ii) 5A/6A and 15A/16A switch socket out lets: 230 mm above platform and without any platform 980/1000 mm above FFL
- (iii) MCB DB 1500 mm above FFL

LIST OF APPROVED MAKES

(For work covered under this Contract)

Sl. No.	Item Name	Name of the Make
1	PVC conduit and accessories	AKG/ BEC or Approved make
2	Wires & Cables	Polycab/KEI/ Havells / RR kable or Approved make
3	G.I Modular Box and Modular Base Plate, Cover plate	Legrand / Anchor/ MK/ Crabtree
4	Switch, Socket	Legrand / Anchor/ MK/ Crabtree
5	MCB,RCCB, Distribution Board	Legrand / L&T/ Crabtree Xpro
6	Light Fixture	Philips/ Havells/ Bajaj/ CG
7	Exhaust Fan	Havells/ Bajaj/ CG/ USHA
9	G.I Pipe	TATA, JINDAL,SAIL

Note: The make approval must be taken from Engineer-In-charge/Executive Engineer (Electrical) before installation.

Format I

BRIEF DESCRIPTION OF THE FIRM/ Valid License holder contractor

- a) Name of the firm/ Valid License holder contractor
- b) Year of registration (applicable in case of firm).
- c) Type of firm (Individual/Proprietary/Limited Company or any other),applicable in case of firm only :

Note:-

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

Authorised Signatory of the Firm/ License Holder Contractor

Format II

EXPERIENCE OF COMPANY/ Valid License holder contractor (MV or above)

(Experience of relevant and similar work 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	
5.	Total cost of work	
6.	Status of the work undertaken.	
7.	Any other details	

NOTE:

- Supporting documents like certificates from the client may be attached.

Authorised Signatory of the Firm/ License Holder Contractor

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 fulfil 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 have 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 Tender fees and original EMD in the form of Demand Draft and relevant Documents are true.
 - (b) Information given regarding with the Financial Qualifications & Annual Turnover is true & correct.
 - (c) 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

Technical Bid (Check List)

[In separate sealed Cover (*Envelope – 1*) superscripted as “Technical Bid”]

Ser. No.	Details of the Tenderer/Bidder	Details	Yes	No	Remarks
1.	Name of the Tenderer/Bidder				
2.	Complete Address				
3.	Details of the Earnest Money Deposit (EMD) (Yes/No) DD No. - Dated - Drawn on Bank - Amount - Rs. 11,508/- (Rupees ELEVEN THOUSAND FIVE HUNDRED EIGHT only)				
4.	Details of Tender Processing Fee (The cost of Tender documents) (Yes/No) DD No. - Dated - Drawn on Bank - Amount - Rs. 500/- (Rupees FIVE HUNDRED only)				
5.	Whether each page of NIT and its annexure have been signed and Stamped.				
6.	Whether Bidders have quoted for each and every item mentioned in financial Bid (Yes/No) (If No, then please attach a list of quoted items with the technical Bid without indicating price)				
7.	Copy of GST Registration No.				
8.	Permanent Account No. and latest acknowledgement of IT Return				
9.	e-Mail ID if any				
10.	Contact No.				
11.	Contractor's License No(MV or Above)				
12.	Validity of (MV or Above) License				
13.	Affidavit (as per Page 20)				

Business Address: -

Name :

(Signature of Bidder with Firm's Seal)

Place: _____

Dated: _____

DECLARATIONS TO BE GIVEN BY THE TENDERERS

It is to certify that:-

(a) I/We have gone through CPWD W-8 amended up-to correction Slips as available on website or in the office of Superintending Engineer and I/We agree with the terms and conditions of it and understood that it will form part of the agreement.

Date : **(Signature of the Tenderer)**

(b) I/We agree that the Notice Inviting Tender (NIT) is an invitation to offer made on the condition that I/We will sign the enclosed Agreement, which is an integral part of tender documents, failing which I/We will stand disqualified from the tendering process. I/We acknowledge that THE MAKING OF THE BID SHALL BE REGARDED AS AN UNCONDITIONAL AND ABSOLUTE ACCEPTANCE of this condition of the NIT.

I/We confirm acceptance and compliance with the Agreement in letter and spirit and further agree that execution of the said Agreement shall be separate and distinct from the main contract, which will come into existence when Tender/Bid is finally accepted by AIIMS, Bhubaneswar. I/We acknowledge and accept the duration of the Agreement, which shall be in the line with Article-1 of the enclosed Agreement.

I/We acknowledge that in the event of my/our failure to sign and accept the Agreement, while submitting the tender/bid, AIIMS, Bhubaneswar shall have unqualified, absolute and unfettered right to disqualify the tenderer/bidder and reject the tender/bid in accordance with terms and conditions of the tender/bid.

Date : **(Signature of the Tenderer)**

(c) "I, S/o Sri resident of hereby certify that none of my relative(s) is/are employed in AIIMS, Bhubaneswar (Odisha). In case at any stage, it is found that the information given by me is false/ incorrect, AIIMS, Bhubaneswar shall have the absolute right to take any action as deemed fit without any prior intimation to me".

NOTE: - (To be certified by all the partners in case of partnership firms, by all the directors in case of companies).

Date : **(Signature of the Tenderer)**

Other Partners (if any):-

1. Sri _____ S/o Sri _____ Signature: _____
2. Sri _____ S/o Sri _____ Signature: _____
3. Sri _____ S/o Sri _____ Signature: _____
4. Sri _____ S/o Sri _____ Signature: _____

**(To be signed by the Bidder and same signatory competent/authorized
to sign the relevant contract on behalf of AIIMS, Bhubaneswar).**

(Specimen) **AGREEMENT**

This Agreement is made at.....on this.....day of.....2017.

BETWEEN

Director, AIIMS, Bhubaneswar represented through Executive Engineer (Electrical), AIIMS, BHUBANESWAR,, (Hereinafter referred as the) (Address) **“Principal/Owner”**, which expression shall unless repugnant to the meaning or context hereof include its success or sand permitted as signs)

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 success or sand permitted as signs)

Preamble

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

(here in after refer red to as **“Tender/Bid”**) and intends to award, under laid down organizational procedure, contract for **“Supply, Installation, Testing and Commissioning of Electrical works at Animal House of Academic Complex, AIIMS, Bhubaneswar ”** hereinafter 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 afore said both the parties have agreed to enter to this Agreement (hereinafter referred to as **“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, inconsideration 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 process or 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)/Contractor(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 participate 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 wilful 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 befall 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 in to 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 sign edit. 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, Bhubaneswar.

Article - 7: Other Provisions.

1. This Pact is subject to Indian Law, place of performance and jurisdiction is the **Bhubaneswar** of the Principal/Owner, who has floated the Tender.
2. Changes and supplements need to be made in writing. Side agreements have not be 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 - 8: 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, both the Parties agree that this Integrity Pact will have precedence over the Tender/Contact documents with regard any of the provisions covered under this Pact.

IN WITNESS WHEREOF the parties have signed and executed this Pact at the place and date first above mentioned in the presence of following witnesses:

.....
(For and on behalf of Principal/Owner)

.....
(For and on behalf of Bidder/Contractor)

WITNESSES:

1.
(Signature, Name and address)

2.
(Signature, Name and address)

Place :

Dated :

PROFORMA OF SCHEDULES

SCHEDULE 'A'

(Reference to General conditions of Contract.)

Name of Work : Supply, Installation, Testing and Commissioning of Electrical works at Animal House of Academic Complex, AIIMS, Bhubaneswar.

Estimated Cost of Work : Rs.5,75,397/-

(a)	Earnest Money	=	<u>Rs. 11,508/-</u>
(b)	Performance Guarantee	=	<u>5% of Tendered Value</u>
(c)	Security Deposit	=	<u>5% of Tendered Value</u>

SCHEDULE 'B'

GENERAL RULES & DIRECTIONS:

Officer Inviting Tender : - Executive Engineer (Electrical), AIIMS, Bhubaneswar

Definitions	See below
2 (v) Engineer-in-Charge	Executive Engineer (Electrical), AIIMS,Bhubaneswar
2(viii) Accepting Authority	Director AIIMS,Bhubaneswar
2(x) Percentage on cost of materials and labour to cover all over heads and profit	15%
2(xi) Standard Schedule of Rates	Central Public Works Department Schedule of Rates - 2016 at Delhi with up to date correction slips
9(ii) Standard AIIMS Contract Form	GCC for CPWD Works - 2014 as amended and up to and including correction slip

Clause – 1.

- (i) Time allowed for submission of Performance : 07 Days
guarantee, Program Chart (Time & Progress) and
applicable Labour Licenses, Registration with EPFO,
ESIC & BOCW Welfare Board or proof of applying
thereof from the date of issue of letter of acceptance
- (ii) Maximum allowable Extension with late fee @ 0.1% : 01 to 15 days.
of Performance guarantee amount beyond the
period provided in (i) above.

Clause – 2.

Authority for fixing compensation under Clause 2 : Executive Engineer(Electrical),
AIIMS, Bhubaneswar

Clause – 2A.

Whether Clause 2A shall be applicable : No

Clause – 5.

Time allowed for execution of work : 15 (Fifteen) Days (AFTER ISSUE
OF WORK ORDER).

Time of start of work : Within seven days after issue of
work order.

Authority to decide fair & reasonable extension of time for
completion of work : Executive Engineer (Electrical),
AIIMS, Bhubaneswar

Clause – 6A.

Whether Clause 6A shall be applicable : No.

Clause – 7A.

Whether clause 7A shall be applicable : YES.

Clause – 10B (ii).

Whether Clause 10B(ii) shall be applicable : No.

Clause – 10C.

: Not applicable.

Clause – 10CA.

: Not applicable.

Clause – 16.

Competent Authority for deciding reduced rates : Executive
Engineer(Electrical)
AIIMS, Bhubaneswar

Clause – 25.

Settlement of dispute & Arbitration : AIIMS, Bhubaneswar

Clause – 36(i).

Requirement of Technical Staff and rate of recovery incase of non-compliance shall be as

per the following table :-

Value of Work	Ser. No	Minimum qualification of Technical Representative	Discipline	Designation (Principal Technical/ Technical representative)	Minimum Experience in years	Number	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of clause 36(i)	
							(Figures)	(Words)
For Agreement amount up to Rs 150 Lakhs	(a)	Graduate Engineer OR Diploma Engineer	Electrical	Principal Technical representative	02 years for Graduate Engineer/ 05 years for Diploma Engineer	1	Rs 15,000/-	Rs Fifteen Thousand only
For Agreement amount between Rs 150 Lakhs to Rs 500 Lakhs	(a)	Graduate Engineer	Electrical	Principal Technical representative	5years	1	Rs 25,000/-	Rs Twenty Five Thousand only
	(b)	Graduate Engineer OR Diploma Engineer	Electrical	Technical representative	02 years for Graduate Engineer/ 05 years for Diploma Engineer	1	Rs 15,000/-	Rs Fifteen Thousand only

Format of PERFORMANCE SECURITY/BANK GUARANTEE

1. In consideration of the Director, AIIMS, Bhubaneswar (hereinafter called " the Government ") having offered to accept the terms and conditions of the proposed agreement between _____ and _____ (hereinafter called " the said Contractor(s) ") for the work _____ (hereinafter called " the said agreement ") having agreed to production of a irrevocable Bank Guarantee for Rs. _____ (Rupees _____ only) as a security/guarantee from the contractor(s) for compliance of his obligation in accordance with the terms and conditions in the said agreement.

I/We _____ (hereinafter referred to as Bank) hereby (Indicate the name of the Bank) undertake to pay to the Government an amount not exceeding Rs. _____ (Rupees _____ only) on demand by Government.

2. I/We _____ do hereby undertake to pay the (Indicate the name of the Bank) amount due and payable under this Guarantee without any demur, merely on a demand from the Government 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 Rs. _____ (Rupees _____ only).

3. I/We the said bank undertake to pay to the Government 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.

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

5. I/ We _____ further agree that the guarantee herein contained (Indicate the name of Bank) shall remain in full force and effect during the period that would be taken for the performance of the said agreement and it shall continue to 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 Government, certifies that the terms and conditions of the said Agreement have been fully and properly carried out by the said contractor (s) accordingly discharges this guarantee.

6. I/We _____ further agree with the Government that the (Indicate the name of Bank) Government shall have the fullest liberty without our consent, and without affecting in any manner our obligations hereunder, to vary any of the terms and conditions of the said agreement or to 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 forebear or enforce any of the terms and conditions relating to the said agreement & we shall not be relieved from our liability by reasons of any such variation or extension being granted to the said contractor (s) or for any forbearance, act of omission on that

part of the Government or any indulgence by the Government 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.

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

8. We _____ lastly undertake not to revoke this (Indicate the name of Bank) guarantee except with the previous consent of the Government in writing.

9. This Guarantee shall valid up to _____ unless extended on demand by Government, 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 or the extended date of expiry of this Guarantee all our liabilities under the Guarantee shall stand discharged.

Dated the _____ day of _____ for _____

FINANCIAL BID

NIT NO. : **AIIMS/BBSR/ENGG./ELECT./13/2017**

Name of the work : **Supply, Installation, Testing and Commissioning of Electrical works at Animal House of Academic Complex, AIIMS, Bhubaneswar.**

Item No.	Description of items	Unit	Qty.	Rate	Amount
1.0	MCB DISTRIBUTION BOARD				
1.1	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A, tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required. (Approved Make- Legrand, Crabtree, L&T, Hager,)				
	12 way (4 + 36), Double door	Each	1		
1.2	Supplying and fixing 5 A to 32 A rating ,240/415 V,10 KA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections ,testing, and commissioning etc. as required. (Approved Make- Legrand, Crabtree, L&T, Hager)				
(i)	Single pole(32A=3, 16A=30 Nos,10A=3 Nos)	Each	36		
(ii)	100A ,Four Pole MCB	Each	1		
2.0	Wiring				
2.1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required (Approved Make of PVC Conduit-AKG, BEC, Finolex. Approved Make of wire - Poly cab, Finolex, KEI, Havells, RR Kable).				
	Point wiring as mentioned above(Group-c)	Point	25		
2.2	Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit along with 1 No. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required (Approved Make - Poly cab, Finolex, KEI, Havells, RR Kable).	Mtr	1450		
2.3	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as				

	Required (Approved Make - Poly cab, Finolex, KEI, Havells, RR Kable).				
(i)	2X1.5 Sq. mm + 1X 1.5 sq. mm earth wire	Mtr	300		
(ii)	2X2.5 Sq. mm + 1X 2.5 sq. mm earth wire	Mtr	150		
(iii)	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	Mtr	300		
2.4	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch, connections etc. as required (Approved Make – Legrand, Crabtree-xpro, Anchor-Roma, MK).	Each	22		
2.5	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25/32 A, 240 V “C” curve DP MCB complete with connections, testing and commissioning etc. as required. (Approved Make – Legrand, Crabtree, Anchor-Roma, MK).	Each	3		
2.6	Supplying and fixing following Modular base & cover plate on existing modular metal boxes etc. as required.				
(i)	3 Module	Each	5		
(ii)	6 Module	Each	2		
2.6	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required (Approved Make – Legrand, Crabtree-xpro, Anchor-Roma, MK).				
(i)	5/6 A switch	Each	10		
(ii)	3 pin 5/6 A socket outlet	Each	2		
(iii)	15/16 A switch	Each	5		
(iv)	6 pin 15/16 A socket outlet	Each	5		
2.7	Supplying and fixing 6 pin 5/6 A and 15/ 16 A modular socket outlet with shutters in suitable modular metal box on surface or in recess including, modular cover plate, base plate, connections, etc. complete as required (Approved Make – Legrand, Crabtree, Anchor-Roma, MK).	Each	7		
3.0	LIGHT FIXTURES AND FANS				
3.1	Supply of 20 watt LED Ceiling mounted down light fixture with all fixing accessories as required of approved makes (Finolex/Havells/Philips/Bajaj/CG).	Each	15		
3.2	Supply of 90 watt LED light fixture (For outdoor lighting) with all fixing accessories as required (Approved makes (Finolex/Havells/Philips/Bajaj/CG).	Each	4		
3.3	Supply of 1200 mm Ceiling fan suitable for single phase, 230 volts, 50 Hz, AC supply complete with motor and all accessories etc. as required of approved makes (Finolex / Havells/ Bajaj/ USHA/CG).	Each	6		
3.4	Installation, testing and commissioning of wall bracket /ceiling fittings of all sizes and shapes containing upto	Each	19		

	two GLS/CFL/ LED lamps per fitting, complete with all accessories including connections etc. as required.				
3.5	Installation, testing and commissioning of ceiling fan, including wiring the down rods of required length with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable etc. as required.	Each	6		
4.0	LT CABLES				
4.1	Supply of 3.5 Core 50 Sq. mm , size of 1.1 kV grade multicore aluminium conductor PVC sheathed armoured cable as per IS 1554(Approved Make – Poly Cab, KEI, Havells, NICO)	Mtr	200		
4.2	Laying of one number Above 35 sq. mm and upto 95 sq. mm PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of following size in the existing masonry open duct as required.	Mtr	200		
4.4	Supplying and making end termination with brass double compression glands of 3 X 50 sq. mm (32mm) size of 1.1. KV grade multicore aluminium conductor PVC insulated and PVC sheathed (ISI approved make)	Each	2		
5.0	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. with charcoal/ coke and salt as required.	Set	2		
5.1	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 meter below ground as strip earth electrode, including connection/ terminating with G.I. nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50 mm)	Mtr	50		
5.2	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.	Mtr	30		
5.3	Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc..direct in ground (75 cm below ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc., complete as required.				
	63 mm dia (OD-63 mm & ID-51 mm nominal)	Mtr	50		
		Total			

Executive Engineer (Electrical)

AIIMS, Bhubaneswar