



अखिल भारतीय आयुर्विज्ञान संस्थान,  
All India Institute of Medical Sciences  
Engineering Branch, Bhubaneswar (Odisha)-751019  
[www.aiimsbhubaneswar.edu.in](http://www.aiimsbhubaneswar.edu.in)

### **NOTICE INVITING e-TENDER**

<b>N.I.T. No.</b>	<b>AHIMS/BBSR/ENGG/ELECT/62/2025</b>
<b>Name Of Work:</b>	<b>SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF NEW LT PANEL FOR 3 IPD CHILLER PLANT AT HOSPITAL COMPLEX, AIIMS BHUBANESWAR.</b>
<b>Estimated Cost:</b>	<b>₹ 2,28,20,913.00</b>
<b>Earnest Money:</b>	<b>@ 2% of Estimated Value</b>
<b>Performance Guarantee:</b>	<b>@ 5% of Contract Value</b>
<b>Security Deposit:</b>	<b>@ 2.5% of Contract Value</b>
<b>Contract Period:</b>	<b>4 Months</b>
<b>Type of work:</b>	<b>Electrical Work</b>
<b>Tender issue date:</b>	<b>17/05/2025</b>
<b>Pre-Bid Conference Date:</b>	<b>24/05/2025 on 12.00 Hours</b>
<b>Last Date &amp; Time of Submission of Tender:</b>	<b>10/06/2025 by 18.00 Hours</b>

“Certified that, this tender document contains ‘75’ pages only”.

**Executive Engineer (Elect.)  
AIIMS, Bhubaneswar**

**Government of India, Ministry of Health & Family Welfare, AIIMS, Bhubaneswar**

Name of Work	:	<b>SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF NEW LT PANEL FOR 3 IPD CHILLER PLANT AT HOSPITAL COMPLEX, AIIMS BHUBANESWAR.</b>
NIT No.	:	<b>AIIMS/BBSR/ENGG/ELECT/62/2025</b>

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**NOTICE INVITING TENDER(NIT) for e-tender  
TENDER NOTICE NO : AIIMS/BBSR/ENGG/ELECT/62/2025**

The Executive Engineer (Elect.), AIIMS, Bhubaneswar, (Phone - 0674 2476083, Email - [eeel@aiimsbhubaneswar.edu.in](mailto:eeel@aiimsbhubaneswar.edu.in)) invites on behalf of Executive Director, AIIMS, Bhubaneswar, Percentage Rate Tender from Valid Electrical license holder (MV or Above) from ELBO, Odisha, in Two (02) Bid system (Technical cum Eligibility & Financial respectively) from eligible Agency of CPWD, MES, AIIMS, central Govt., State Govt., Central PSU, State PSU . having successfully completed works of similar nature as per eligibility criteria for the following work: -

**1. Brief details of work and step of Tendering :**

a)	NIT No.	AIIMS/BBSR/ENGG/ELECT/62/2025
b)	Name of Work	SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF NEW LT PANEL FOR 3 IPD CHILLER PLANT AT HOSPITAL COMPLEX, AIIMS BHUBANESWAR.
c)	Work Location (s) & Pin Code (s)	All India Institute of Medical Sciences, Bhubaneswar- 751019
d)	Work/Product . Category	ELECTRICAL WORKS
e)	Tender inviting Authority	Executive Engineer (Elect.)
f)	Inviting Officer' Address	Executive Engineer (Elect.) , All India Institute of Medical Sciences, Bhubaneswar - 751019
g)	Estimated Cost	₹ 2,28,20,913.00 (Rupees Two crores Twenty-eight lakh Twenty Thousand Nine Hundred Thirteen only)
h)	Earnest Money	@ 2% of Estimated Value
i)	Cost of Tender Document	Nil.
j)	Tender Processing Fee	Nil.
k)	Period of Completion	4 Months
l)	Dates of availability of Tender Documents for download .	17/05/2025 on website <a href="https://eprocure.gov.in/eprocure/app">https://eprocure.gov.in/eprocure/app</a> . Detailed NIT is also available on website <a href="http://All India Institute of Medical Sciences, Bhubaneswar (aiimsbhubaneswar.nic.in)">All India Institute of Medical Sciences, Bhubaneswar (aiimsbhubaneswar.nic.in)</a> for view only.
m)	Last date of submitting of Pre-bid Queries.	23/05/2025 by 18.00 Hours
n)	Pre bid conference	24/05/2025 by 12.00 Hours
o)	Pre-bid clarifications shall be uploaded in CPP website on	27/05/2025 by 12.00 Hours
p)	Start date and time of online Submission of tenders	17/05/2025 on 18.00 Hours
q)	Last date and time of online submission of Technical Bid and Financial Bid	10/06/2025 by 18.00 Hours
r)	Last date for receiving Hard C copies of Original Documents (1) EMD, (2) Technical Bid eligibility document	11/06/2025 by 14.00 Hours (Address for sending hard copy) Executive Engineer (Electrical) Office

	stamped in each page (3) NIT document stamped in each page	<b>Room No. – 336, 3<sup>rd</sup> Floor, Academic Building</b> <b>All India Institute of Medical Sciences Sijua, Dumuduma, Bhubaneswar, Odisha - 751019</b> (In case the last day happens to be closed holiday, these Documents shall be submitted on the next working day failing which technical Bid will not be considered for Evaluation.)
s)	Time and date of opening of Tender (Technical Bid)	<b>12/06/2025 on 12.00 Hours</b>
t)	Time and date of opening of Online Financial Bids	<b>Shall be informed to the Technically qualified Bidders.</b>
u)	Bid Opening Place	<b>All India Institute of Medical Sciences, Bhubaneswar- 751019</b>
v)	Validity of Tender (in Days)	<b>180 (One Hundred Eighty Days)</b>

## 2.0 Eligibility Criteria for participation in tendering

1. Bank Solvency Certificate of a Nationalized Bank / Scheduled Bank for a minimum amount equal to 50 % of the estimated cost put to tender (Not less than ₹ 1,14,10,457.00) and should not be older than one year from the date of opening of tender.
2. Bidding Capacity : Not Applicable
3. Average Annual Financial Turnover should be at least 50% of the estimated cost (Not less than ₹ 1,14,10,457.00), during the immediate last 3 consecutive financial years, ending 31<sup>st</sup> march 2024. This should be duly audited by a registered Chartered Accountant.
4. The bidder should not have incurred any loss in **more than two (02) years during last five (05) years** ending 31st March 2024 , for which, Profit/ Loss statement and Balance sheets of last five years duly certified by Chartered Accountant need to be submitted.
5. Contractor /Agency who fulfilled the following requirement shall be eligible to apply . Joint venture is not accepted.
6. The bidder should have satisfactorily completed the works as mention below during the last seven (7) years ending on the previous day of last date of submission of bid .
  - i. **one (01) similar work each costing not less than ₹ 1,82,56,730.00**
  - OR**
  - ii. **Two (02) similar works each costing not less than ₹ 1,36,92,548.00**
  - OR**
  - iii. **Three (03) similar works each costing not less than ₹ 91,28,365.00**

**Similar work means “Supply, Installation, Testing and Commissioning of LT and above category (electrical Panels or RMU or compact substation or feeder pillars ) with associated works like Cable, Busduct etc.**

7. Agreements shall be drawn with the successful bidders for item/items on prescribed format. Bidders shall quote their rates as per various terms and conditions of the said form which will form part of the agreement.

8. The bid document consists of plans, specifications, the schedule of quantities of the various type of items to be executed and the set of terms & conditions of the contract to be complied with and CPWD GCC for construction work -2023 amended upto date .

9. **The Bidder/Firm should have Valid Electrical (MV or Above) License from ELBO, Odisha. As per CEA letter dated 20.11.2023 the electrical license of others states should be endorsed in the**

electrical licensing board of the state where the work is to be executed else the license will be considered as invalid. Electrical license of others states should be endorsed from ELBO Odisha and submitted to EIC (Enginner In Charge) before awarding of work order as per performa of schedule F. Failing to produce the same will lead to cancel the LOA (Letter of Acceptance) and EMD will be forfeited.

**10. Submission/Upload of Tender specific OEM Authorization Certificate (Appendix- A.) is mandatory, if the bidder will fail to upload the Tender specific manufacturing authorization certificate the bid shall be summarily rejected.**

**11. Conditional Bids shall not be considered and will be out-rightly rejected at the very first instance.**

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

**13. Pre-bid Conference shall be held in First floor of board room, Academic block in the chairmanship Superintendent Engineer (EIC), AIIMS Bhubaneswar and any clarification regarding tender of the bidders in pre-bid meeting will be published as a corrigendum after approval of AIIMS authority.**

14. Information and Instructions for bidders for e-tendering posted on website shall form part of bid document.

15. The bid document consisting of NIT, plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from <https://eprocure.gov.in> or [www.aiimsbhubaneswar.nic.in](http://www.aiimsbhubaneswar.nic.in) free of cost.

16. Copies of eligibility documents and EMD as specified in the notice inviting tender shall be scanned and uploaded on the e-tendering website within the period of tender submission. Bidders can upload documents in the form of JPG format, PDF format and any other format as permissible by the e-tendering portal.

17. Bidders must ensure to quote rate of each item. The column meant for quoting rate in figures appears in dark yellow colour and the moment rate is entered, it turns sky blue. In addition to this, while selecting any of the cells a warning appears that if any cell is left blank the same shall be treated as "0". Therefore, if any cell is left blank and no rate is quoted by the bidder, rate of such item shall be treated as "0" (ZERO). After submission of the bid online the Agency can re-submit revised bid any number of times but before last time and date of submission of bid as notified.

18. After submission of bid online, it can be revised any number of times before specified time on last date of submission of bid. While submitting the revised bid, bidder can revise the rate of one or more item(s) any number of times (he need not re-enter rate of all the items) but before last time and date of submission of bid as notified.

19. Financial bids shall be opened online only for bidders for whom EMD and other documents are found in order and who are found to be eligible to bid for work. On opening date, the bidder can login and see the bid opening process. After opening of bids, he will receive the competitor bid sheets.

20. If the Agency is found ineligible after opening of bids, his bid shall become invalid.

21. The department reserves the right to reject any prospective Bid without assigning any reason and to restrict the list of qualified agencies to any number deemed suitable by it, if too many bids are received satisfying the laid down criterion.

**Note:- 1. Obtainining of the Tender specific manufacturing authorization certificate from OEM is sole responsibility of the Bidder. AIIMS Authority has no role in it.**

**2. The bidders are requested to visit the site and confirm the required size of the Panel as per the available space before quoaating their rates . Price quoted by the bidders shall be treated as final and cannot be altered after the L1 bidder finalized.**

**Executive Engineer (Elect.)**

## GENERAL RULES & DIRECTIONS OF CONTRACT

The Executive Engineer (Elect.), AIIMS, Bhubaneswar, (Phone - 0674 2476083, Email - [eeel@aiimsbhubaneswar.edu.in](mailto:eeel@aiimsbhubaneswar.edu.in)) invites on behalf of Executive Director, AIIMS, Bhubaneswar, Percentage Rate Tender from reputed Agency in Two (02) Bid system (Technical cum Eligibility & Financial respectively) from eligible agency of CPWD, MES, AIIMS, central Govt., State Govt., Central PSU, State PSU . having successfully completed works of similar nature as per eligibility criteria for the following work: -

**Name of Work:** *Tender for “Supply, Installation, Testing And Commissioning Of New Lt Panel For 3 IPD Chiller Plant At Hospital Complex, Aiims Bhubaneswar.”*

1. **Preparation & Submission of Tender through Online.** The Tender should be submitted in **02 (Two) parts i.e. Technical Bid and Financial Bid Respectively.** The Bid shall be submitted by the Bidder through online for “Supply, Installation, Testing And Commissioning Of New Lt Panel For 3 IPD Chiller Plant At Hospital Complex, Aiims Bhubaneswar.”
2. ***The Bidders shall have to submit original documents for Original Earnest Money Deposit and self-certified copies of all the scanned and uploaded documents before the date and time of opening of tender at Executive Engineer(Electrical) office 3<sup>rd</sup> floor Academic Block AIIMS Bhubaneswar.***
3. **List of Documents to be scanned and uploaded within the period of bid submission.**
  - (a) Earnest Money Deposit in Favour of “All India Institute of Medical Sciences, Bhubaneswar”.
  - (b) FROM ‘A to C’ duly filled in and signed with stamp.
  - (c) Certificates of Work Experience or Work Completion Certificate along with Work orders (clearly mentioning the BOQ ) issued by the officer of the rank not below Executive Engineer.
  - (d) Certificate of Registration for GST and acknowledgment of up-to-date filed return if required.
  - (e) Copy of PAN card
  - (f) Copies of IT return last 3 Years.
  - (g) Copies of Agency’s Valid Electrical License (MV and above) from ELBO, Odisha
  - (h) The Bidder should have their Registered Office/Branch in Bhubaneswar. If not, an Office should be opened in Bhubaneswar within 30 (Thirty) Days of the award of Work. For which an undertaking need to be submitted.
  - (i) Declarations to be given by the Tenders.
  - (j) Profit/Loss statement & Balance sheet of last five years duly audited and certified by Chartered Accountant.
  - (k) Each page of the e-tender documents should be duly signed with seal otherwise the bid shall become invalid.
  - (l) Tender specific OEM Authorization Certificate Appendix- A.
  - (m) Affidavit as per *Annexure – I*
  - (n) *Scanned copy of original solvency to be uploaded.*
  - (o) Tender Document in PDF format.
4. **The bid submitted become invalid, if any discrepancy is noticed between the eligibility documents (as per Sl. No 03 para ‘a’ to ‘o’) as uploaded at the time of submission of bid.**
5. The intending bidder must read the terms and conditions of CPWD -7 carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.
6. **(a) Earnest Money Deposit.** The bidder shall be required to submit the Earnest Money Deposit in the form of Fixed Deposit Receipt , Demand Draft or Bank Guarantee from any Nationalized/Schedule Bank duly pledged in the name of the "**All India Institute of Medical Sciences, Bhubaneswar**". Document received without submitting of EMD will be rejected.
7. No exemption from submitting EMD will be applicable to MSME firms for this work.

8. As per SOP No. 5/1, Clause No. 06 of CPWD Manual – 2024 the MSME firms registered in NSIC under PP policy are exempted from payment of EMD for supply of GOODS & Services only. This tender is for work, hence, **no exemption from submitting EMD will be applicable to MSME firms for this work.**
9. **Performance Guarantee.**
- (a) The successful Agency will be required to furnish a Performance guarantee of 05% (Five Percent) of Contract Value in the form of Fixed Deposit Receipt or Bank Guarantee from any Nationalized/Schedule Bank duly pledged in the name of the "**All India Institute of Medical Sciences, Bhubaneswar**" which shall be kept valid for a period of 180 days beyond all contractual obligations as per GCC. In case the time for completion of work gets enlarged, the contractor shall get the validity of performance guarantee extended to cover such enlarged time for completion of the work.  
After recording of the completion certificate for the work by the competent authority, the performance guarantee shall be returned to the contractor, without any interest. However, in case of contracts involving maintenance of building and services/any other work after construction of same building and services/other work, 50% of Performance Guarantee shall be retained as Security Deposit during the entire AMC/CMC/Warranty period. The same shall be returned year wise proportionately.
- (b) The security deposit or Performance guarantee or both can be forfeited by order of this Institute in the event of any breach or negligence or non-observance of any condition of contract or for unsatisfactory performance or non-observance of any condition of the contract. Performance guarantee will be discharged after completion of all contractual obligations. In case the Agency fails to deposit the said performance guarantee within the period including the extended period if any, the Earnest Money deposited by the Agency shall be forfeited automatically without any notice to the Agency. The earnest money deposited along with tender shall be returned after receiving the aforesaid performance guarantee.
10. Intending Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their bids, the means of access to the site and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their bid. 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 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 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.
11. The Tender paper/documents can be seen/downloaded from Official website & submitted through on line. For any query, Executive Engineer, Electrical, Phone: **0674 2476083** AIIMS, Bhubaneswar, may be contacted.
12. The Executive Director, AIIMS, Bhubaneswar does not bind itself to 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 bidder shall be summarily rejected.
13. Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and the bids submitted by the agency who resort to canvassing will be liable to rejection.
14. The Executive Director, AIIMS, Bhubaneswar reserves to himself the right of accepting the whole or any part of the bid and the bidder shall be bound to perform the same at the rate quoted.

15. The Agency shall not be permitted to bid for works in the AIIMS, Bhubaneswar responsible for award and execution of contracts, in which his near relative is posted as an officer in any capacity between the grades of Superintending Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any gazette officer in the AIIMS, Bhubaneswar. Any breach of this condition by the Agency would render him liable to be removed from the approved list of Agency of this Department.
16. 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 Agency 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 Agency 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 Agency's service.
17. **The bid for the works shall remain open for acceptance for a period of 180 days from the date of opening of bids.**
18. This notice inviting bid shall form a part of the contract document. The successful bidder/ Agency, on acceptance of his bid by the Accepting Authority shall within 15 days from the stipulated date of start of the work, sign the contract consisting of "The Notice Inviting bid, all the documents including additional conditions, specifications and drawings, if any, forming part of the bid as uploaded at the time of invitation of bid and rate quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.
19. (a) The quoted Rates shall be inclusive of GST.  
 (b) Security Deposit equal to 2.5% of the Contract Value will be deducted from the Bills of the Agency.  
 (c) The Income Tax as applicable shall be deducted from the Bill unless exempted by the Income Tax Department.  
 (d) Applicable labour cess will be deducted from each running bill and the final bill.
20. **Goods and Services Tax (GST).**
- (a) **GENERAL REMARKS ON TAXES & DUTIES:** In view of GST Implementation from 1<sup>st</sup> July 2017, all taxes and duties including Excise Duty, CST/VAT, Service tax Entry Tax and other indirect taxes and duties have been submerged in GST. Accordingly, reference of Excise Duty, service Tax, VAT, Sales Tax, Entry or any other form of indirect Tax except of GST mentioned in the bidding document shall be ignored.
- (b) Bidders are required to submit copy of the GST Registration certificated while submitting the bids wherever GST (CGST & SGST/UTGST or IGST) is applicable.
- (c) "GST shall mean Goods and services Tax charged on the supply of material(s) and services. The term 'GST' shall be construed to include the integrated Goods and Services Tax (Hereinafter referred to as "IGST") or central Goods and Services Tax (hereinafter referred to as "CGST") or State Goods and services Tax (Hereafter referred to as "SGST") or union Territory Goods and services Tax (hereinafter referred to as "UTGST").
- (d) Quoted price/rate(s) should be inclusive of all taxes and duties, including GST (i.e. IGST or CGST and SGST /UTGST applicable in case of interstate supply or intra state supply respectively and cess on GST if applicable) on the final service. Please note that the responsibility of payment of GST (CGST & SGST or IGST or UTGST) lies with the supplier of Goods/services (service provider) only. Supplier of Goods/Service (Service provider) providing taxable service shall issue an invoice/Bill, as the case may be as per rules/regulation of GST. Further, returns and details required to be filled under GST laws & rules should be timely filed by supplier of Goods /services (Service provider) with requisite details.

- (e) The Agency(s) must submit GST Challan copy in original duly signed with stamp of firm, against each bill and before releasing Security Deposit (SD) .

21. **FRAUD AND CORRUPTION:**

19.1 The Engineer-in-Charge will reject a proposal for award if he determines that the bidder recommended for award has been engaged in corrupt or fraudulent practices in competing for the contract in question. He will report to the Officer Inviting Bid / next higher authority.

19.2 Canvassing whether directly or indirectly, in connection with tenders is strictly prohibited & the tenders submitted by the agency who resort to canvassing will be liable for rejection.

19.3 The Agency shall be debarred for 1 year from participating in tenders of AIIMS, Bhubaneswar and the entire EMD amount will be forfeited by AIIMS, Bhubaneswar for the following reason-

- (i) If the Agency submits false experience/completion certificates, **as mentioned in Sl. No. - 1 Page No. - 5 (refer under Eligibility Criteria)**. The department reserves the right to verify the particulars furnished by the applicant independently.
- (ii) If the Agency fails to commence the work on or before the scheduled date stated in the work order.
- (iii) Violates any important condition of contract.

22. Information & Instruction for Agency will form Part of NIT.

**Executive Engineer (Elect.)  
AIIMS Bhubaneswar**

## **GENERAL CONDITIONS FOR CONTRACT**

### **“Supply, Installation, Testing And Commissioning Of New Lt Panel For 3 IPD Chiller Plant At Hospital Complex, AiiMS Bhubaneswar.”**

1. Prices quoted should be valid for the contract period from the date of opening of your offer. The prices quoted should be for the entire scope of work.

2. **Rates-** The prices quoted shall be inclusive of GST.Amount paid to the statutory authorities by the Agency shall be reimbursed on actual basis throughout the contract period on submission of the documentary evidence in the final bill.

### **3. Terms of Payment: -**

#### **3.1 Bill Payment:**

The payments for the work shall be released by AIIMS, Bhubaneswar as following manner:-

- i. 60 % of amount will be released after Supply of Panel and Busduct at site and acceptance by the department..
- ii. 40 % of amount will be released after installation testing and commissioning.

3.2 The Security Deposit @ 2.5% of gross amount of the bill shall be deducted from the bills, which shall be released after successful completion of warrenty Period i.e. Two year from the date of completion of work, without any interest thereupon.

3.3 The Following documents as applicable shall be produced and self-attested photo copy shall be submitted by the Agency during each running bills:

- (i) Delivery Challan of all the material supplied.
- (ii) Test Certificate of Equipment.
- (iii) Bank Account details/ e-payment details of the vendor.
- (iv) Warranty/Guarantee Certificate if applicable.
- (v) GST return up-to-date Voucher.
- (vi) Work Completion Certificate (Final bill)
- (vii) Noclaim certificate (Final bill)

### **4 Transport**

4.1) The transport required within the complex for carrying items inside the AIIMS complex for supply of materials, repairing work etc. shall be arranged by the Agency. The Agency may however seek the help of department to take permission to take replacement items outside the AIIMS, Bhubaneswar complex which is beared by the agency.

4.2) Agency's materials, transport, etc. shall normally be permitted to go out of the area between 9.00hrs.to 18.00hrs only. Agency may also be allowed to carry out the work beyond office hours (day and night) with special permission from the Executive Director AIIMS, Bhubaneswar. However, no movement of materials and transport out of site of works shall be permitted during night or during holidays unless special permission obtained from the Executive Director, AIIMS, Bhubaneswar.

### **5 Antecedents**

The Agency shall employ only Indian Nationals as his representatives, work men and verify their antecedents and loyalty before employing them on the works. He shall ensure that no person of notorious antecedents and nationality is in anyway associated with the works and if for reasons of

technical collaboration or other consideration, the employment of any foreign national is unavoidable, the Agency shall furnish full particulars to this effect to the accepting officer at the time of submission of tender. The Executive Director, AIIMS, Bhubaneswar shall have full powers and without giving any reasons to the Agency immediately cease to employ in connection with this contract, any representative agency, servant and workman or employee whose continuous employment in his opinion is undesirable. The Agency shall not be allowed any compensation on this account.

## 6 **Penalty Clause:**

6.2 In case of any failure of / delay in services the penalty shall be invoked as per Clause-2 of GCC of CPWD works-2023, by the authority as per schedule F.

6.3 All melba/rubbish/waste, garbage etc generated due to any operation and maintenance work, the same shall be disposed of by the Agency to the authorized municipal dumping ground and nothing extra shall paid on this account. In case of non-removal/disposal in the specified period, a compensation of ₹ 1000/- (Rupee One Thousand only) per day shall be recovered from the Agency.

6.4 The Agency shall maintain the installations clean and tidy inside as well as around the installations and buildings. No rags and waste etc. shall be thrown near the building. This shall be deposited in the dustbins provided nearby. If Substation area mention in the scope is found untidy a lump sum amount (**Rs. 1000/- per day**) will be deducted from the Agency's bill.

7 The work shall be governed by CPWD GCC for construction work-2023 amended upto date.

8 The Executive Director, AIIMS, Bhubaneswar or any one or more officers authorized by him shall have the right to visit Agency/sub Agency premises to check the physical progress of work, inspection, testing etc. of the contract items or any part thereof at any time during all stages of operation & maintenance. The Agency shall extend all necessary facilities for carrying out such inspection and check of progress of work.

## 9 **Specifications and Standards**

The work shall be carried out as per CPWD general specifications for electrical works, part-IV, substation work, civil work and relevant Indian standard specification, National Electrical codes including provisions of these specifications. In the event of any conflict between the provisions/clause for a particular item in the above-mentioned rules and specifications the most suited clause based on requirement shall be applicable.

10 It is the responsibility of the successful tenderer to hand over the entire system to the Executive Director, AIIMS, Bhubaneswar on completion of the warrenty period. Any damages/replacement etc. should be done at free of cost with the knowledge of the Executive Director, AIIMS, Bhubaneswar. The final taking over will be done after detailed joint inspection by the Executive Director, AIIMS, Bhubaneswar/ or his authorized representative and the Agency on completion of the warrenty period.

11 The price offered by the Agency shall include the charges for any minor job of maintenance which are obviously fairly intended and which may not have been referred to in these documents but are essential for this work. In case of difference of opinion as to whether or not a certain item of work constitutes minor details of maintenance or not included in agency prices, the decision of Executive Director, AIIMS, Bhubaneswar shall be final and binding.

## 12 **Risk Purchases:**

The cost of repairs/rectification's necessitated due to negligence of Agency's employee shall be recovered from the Agency as per assessment made by the Executive Director, AIIMS, Bhubaneswar. If the Agency fails to repair/rectify the defects in installations within the time given to him, the same will be got repaired/rectified from other agency at the risk and cost of the Agency. The decision of Executive Director, AIIMS, Bhubaneswar shall be final and binding on both the parties.

13 **Breach of Terms and Conditions.**

Noncompliance of any terms and conditions enumerated in the contract shall be treated as breach of contract. In case of breach of any terms and conditions as mentioned above, the Competent Authority, will have the right to reject the bid at any stage without assigning any reason thereof and nothing will be payable by AIIMS, Bhubaneswar in that event the EMD shall also stand forfeited.

14 **Termination of Contract.**

AIIMS, Bhubaneswar has the right to terminate the contract, in case the work performance is not up to the standard, or in case there is any violation of the contract. The decision of Engineering- In-charge is final and binding in this regard.

15 **Arbitration.**

The Arbitration shall be held in accordance with the provision of the Arbitration and Conciliations Act, 1996 and the venue of arbitration shall be at Bhubaneswar. The decision of the Arbitrator shall be final and binding on the both parties.

16 **Dispute Settlement.**

It is mutually agreed that all differences and disputes arising out of or in connection with this agreement shall be settled by mutual discussions and negotiations if such disputes and differences cannot be settled and resolved by discussions and negotiations then same shall be referred to the sole Arbitrator appointed by the Executive Director, AIIMS, BHUBANESWAR whose decision shall be final and binding on both the parties. The contract shall be governed by laws and procedures established by Govt. of India, within the framework of applicable legislation and enactment made from time to time concerning such commercial dealings/ processing.

17 GST and other Taxes as applicable shall be recovered/ paid from the Agency's bill as per Govt. of India/AIIMS Rules.

18 Payment shall be made on after successful completion of work and due Certification of the Bills by the AE & Representative of Engineer-in-Charge.

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## ADDITIONAL CONDITIONS FOR ELECTRICAL WORKS

### A. GENERAL CONDITIONS

1. **Supply, Installation, Testing And Commissioning Of New Lt Panel For 3 IPD Chiller Plant At Hospital Complex, AiiMS Bhubaneswar.**
2. For all items of Electrical, CPWD specifications with correction slips up to the date of receipt of tender shall be followed. For the items which are not covered under CPWD specifications; the special conditions /B.I.S. specifications shall be applied. In this regard the decision of Engineer-in-charge shall be final & binding.
3. Wherever any reference is made of any Indian Standard, it shall be taken as reference to the latest edition with all amendments / revision issued thereto up to the date of receipt of tenders.
4. Unless otherwise specified, the agreement rates for all items of work in the schedule of quantities are for all heights, depths, leads and lifts involved in the execution of work.
5. Other agencies working at site will also simultaneously execute the work entrusted to them and the Agency shall offer necessary co-operation wherever required to other agencies.
6. On account of security consideration, there could be some restrictions on the working hours, movement of vehicles for transportation of materials. The contractor shall be bound to follow all such restrictions and adjust the program for execution accordingly, for which nothing extra shall be paid.
7. The work shall be carried out in a manner complying in all respects with the requirements of relevant by laws of the local bodies, Labour Laws, minimum wages act, workmen compensation act and other statutory laws enact by Central Govt. as well as State Govt.
8. No residential accommodation shall be provided to any of the staff engaged by the Agency. The Agency shall not be allowed to erect any temporary set up for staff in the campus.
9. No claims of the labours shall be entertained by the Department including that of providing employment, regularization of services etc.
10. The Agency shall have registration with Employee's Provident Fund commission and Employee's state Insurance Corporation for safe guarding interest of his workmen. He shall obtain all other necessary approvals from statutory bodies as per law in vogue.
11. Staff employed by the Agency should be well behaved, polite & courteous. Any complaint against staff on behaviour should be taken very seriously and such staff should be removed by the Agency immediately from the site with replacement of a suitable candidate.
12. All dismantled material will be removed from site by Agency after duly verification and measurement of the same by JE/AE and EE.
13. The Agency shall make all safety arrangements required for the labour engaged by him at his own cost. All consequences due to negligence or due to lapse of security/safety or otherwise, shall remain with the Agency. The department shall not be responsible for any mishap, injury, accident or death of the Agency's staff. No claim in this regard shall be entertained / accepted by the department. Also, Agency is responsible to the damage caused to any man/material other than his team during execution, and AIIIMS will not be responsible for that.
14. Agency shall be fully responsible for any damages caused to govt. property by his or his labour in carrying out the work and shall be rectified by the Agency at his own cost.

15. GST and other Taxes as applicable shall be recovered/paid from the Agency's bill as per Govt. of India/AIIMS Rules.
16. In the case of discrepancy between the schedule of quantities, the Specifications and/or the Drawings, the following order of preference shall be observed: -
  - (a) Description of schedule of quantities.
  - (b) Additional specifications and special conditions, if any.
  - (c) Contract clauses of general conditions of contract for central P.W.D. works.
  - (d) Architectural drawings.
  - (e) Indian standards specifications/BIS. Any reference made to any Indian standards specifications in these documents, shall imply to the latest version of that standard, including such revisions/amendments as issued by the Bureau of Indian Standards up to last date of receipt of tenders. The Agency shall keep all such publications of relevant Indian Standards applicable to the worksite at his own cost.
17. The agency shall restore back the premises and other articles provided by the department to the department at the time of closure of the contract.
18. No permanently /temporary huts /structures shall be constructed by the Agency at the site of work or at any government land/premises. Such structures, if any, found at the site or at AIIMS Bhubaneswar land shall be demolished and removed at the cost of the agency without any notice.
19. Any damage to the building structure, fittings or any other articles etc. done by the Agency on his workman during the execution of the work shall be made good by the Agency at his own cost.
20. The Agency shall clear the site property after the completion of the work.
21. Major/Minor complaint shall be decided by the EE/Engineer-in-charge or AE/his representative. The decision of Engineer-In-charge shall be final & binding.
22. Payment shall be made on after successful completion of work and due Certification of the Bills by the Representative of Engineer-in-Charge.
23. The Agency shall have to provide Drinking water at the site.

#### **B. SPECIAL CONDITIONS**

1. Any facility not mentioned in this scope, but which is vital "**Supply, Installation, Testing And Commissioning Of New Lt Panel For Chiller Plant At Hospital Complex, Aiims Bhubaneswar.**" are assumed to be included in the scope of work.
2. Agency has to ensure safety and provide adequate supervision/precautions during the work.
3. During working at site, any Rule/restrictions may be imposed by Engineer-in-Charge/Security staff of Corporation or Local Authorities regarding safety and security etc., the Agency shall be bound to follow all such restrictions/instruction & nothing extra shall be payable on this account & no claim for delay on this account shall be entertained.
4. **The tender shall be based on Conditions of Contract and tenderers are required to quote their % rates against BOQ item in schedule of quantities, which is enclosed. All rates shall remain firm for the contract period/extended contract period.**
5. If the Agency fails to proceed with the work within the stipulated time as specified from the date of issue of letter of intent/letter to proceed with the work, the Department shall forfeit the earnest money deposited by him along with the tender.

6. All the works to be carried out in accordance with latest CPWD/BIS Specifications and as per the directions of Engineer-in-charge.
7. **Packing:** The supplier shall provide such packing of the goods, as is required to prevent their damages or deterioration during the transit to their final destination as indicated in the contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit.

## 8. DRAWING AND SPECIFICATIONS

Before commencement of production of the required material, the drawing and specification should be approved by Engineer in Charge. A copy of tender documents and all relevant drawings and specifications viz. Indian standards, latest CPWD specifications etc. shall be made available at site if & when asked for reference.

## 9. COST OF TESTS

**After production of the electrical panel, the agency will give an inspection call to AIIMS, Bhubaneswar for carrying out the inspection at factory premises as per relevant IS code. The cost involved for the testing at factory premises, to and from transportation charges and accommodation of the Inspection Authority will be borne by the Agency.**

10. The cost of preparing samples and carrying out tests for quality of material or workmanship will be borne by the Agency except for such exclusions as are specifically mentioned in the specifications laid down in contract. The cost of all test carried out by Laboratories directed by the Engineer-in-Charge will be borne by the Agency.
11. The work shall be carried out strictly as per the attached technical specifications, relevant IS specifications, Indian Electricity Rules & National Electrical Code.
12. The Agency has to get approved all the material from the Engineer-in-Charge before its actual use at site of work.
13. The scope of work includes all minor building works required for execution work such as cutting of wall etc. and making good the same. Nothing extra will be paid to Agency for the same.
14. The watch and ward of material and installation shall rest on the part of Agency during execution of work and till handing over of the same after completion of work in accordance with schedule of work.
15. The Agency will take care of the building etc. while handling/installing the equipment to avoid damages to the building. If any damages occur during execution of work, it shall be made good by Agency without any extra cost.
16. The vendor shall submit colour photographs printed with glossy paper for showing different stages of work during the submission of final bill.
17. Minor welding work as and when required to be carried out by the Agency.
18. All electrical works to be carried out as per CEA regulation-2023 amended up to date.
19. **Warranty/Guarantee: The warranty/Guarantee certificate shall be provided for Two years. A 24X7 calling number/ e-mail id should be provided by the Agency/OEM for registration of the complaint. During the warrenty period if any fault is found ,it has to be rectified by the Agency at site without any extra cost.**
20. All safety appliances like Safety shoes, Safety gloves, Safety helmet, Safety belt, Safety goggles etc. shall be arranged before starting the job.

21. The tender shall be based on Conditions of Contract and tenderers are required to quote their own rates against each item in schedule of quantities (B.O.Q), which is enclosed. All rates shall remain firm for the contract period/extended contract period.
22. Site engineer as per clause 32 of Proforma of Schedules shall be deployed at site for supervising the work and during major break down/preventive maintenance.

**C. GENERAL CONDITIONS FOR SUPPLY OF MATERIALS**

1. The materials shall be as per CPWD specifications with up to date correction slip and ISI specifications wherever mentioned and as per **list of approved makes (enclosed)**.
2. In the event of any variation between CPWD specifications and that in the IS code the former shall take precedent over the later. In the event of variation between the nomenclature of item as per schedule of quantities and specifications, the former shall prevail.
3. The sample of all the items shall have to be got approved by the Agency from the Engineer-in-Charge/Executive Engineer or his Representative before the supply commences. The approval of sample shall be only in respect of workmanship and finish, and shall be without prejudice to the right of Engineer-in-Charge to get random samples tested out of the actual lot received as per additional conditions. This decision is the prerogative of Engineer-in-Charge.
4. The Agency shall furnish the manufacture's certificate (if instructed) that the material supplied satisfy the requirements of the relevant specifications.
5. The Engineer-in-Charge shall be at liberty to test respective sample(s) of each item from schedule of quantity in any approved laboratory as decided by him. The sample for testing shall be provided by the Agency. The testing charge in respect of satisfactory test shall be borne by the Agency. All other expenditure required to be incurred for making available the sample conveyance and packing etc., shall be borne by the Agency himself. In case any sample of particular lot fails in testing the Agency shall be bound to replace the entire lot with fresh material of prescribed specifications and the rejected lot shall only be returned to the Agency after fresh lot is supplied.
6. After completion of work, the defective and damaged materials (Spare/Equipment/Scraps) shall be handed over to the AIIMS Authority or to be removed by the Agency at his own cost.
7. In case of any dispute regarding rejection of quantity of materials, the decision of Engineer-in-Charge shall be final and binding up on the Agency.
8. Specialized services as indicated in the contract must be done through authorized dealer or service centre or manufacturer only. The Agency will submit the GST invoice for the equipment's or spares purchased from manufacturer or authorized dealer. Similarly, for services the agency shall submit the service report from authorized service centre or dealer for processing the payment.

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### **SPECIAL CONDITIONS (SCOPE OF WORK)**

1. The Agency shall be solely responsible for Installation and any required modification to upkeep of the equipment's in good conditions.
2. The adequate team of manpower shall be available at site as per quantum of the work.
3. Liaising work with Client for arranging shutdown of LT lines for installation work will be the responsibility of the Agency without any extra cost.
4. Improper Panel installation can create fire incident & blast which will result in major loss to your Business & Property. Hence it has to be installed properly with insulated tools and proper safety precautions.
5. Service Engineers should be qualified & trained to maintain the Service level & Safety measures.
6. Engineer must have Personal Protective Equipment's (PPE's) for doing the panel installation & commissioning to ensure that no safety incidents.
7. The Agency shall keep himself fully informed of all acts and laws of the Central and State Govt., all order, decrees of statutory bodies, tribunals having jurisdiction or authority, which in any manner any affect their engaged or employed staff and anything related to carry out the work. All the rules and regulations and bye-laws laid down by the local bodies and any other statutory bodies shall be adhered to, by the Agency, during the execution of work.
8. In case of any fault in the installation covered under this work requiring immediate rectification of the same to put the installation in running condition, the firm have to rectify the fault and if any material is required in doing so, shall also arrange the same within a reasonable time.
9. Suitable test report should be provided to JE /AE /Engineering In charge before starting of the work.
10. **ID Pass:** The Contractor shall issue the ID cards of the selected manpower before the start the work.
11. Agency has to maintain the cleanliness of the entire installation area during execution of the work
12. The employees for the Agency shall be of good character and of sound. The service provider shall ensure proper conduct of its personnel in office premises, and enforce prohibition of consumption of alcoholic drinks / drugs, shewing of pan / Gutkha, smoking, using speakers for listening to music and loitering without any work. The workers should not be below the age of 18 years.
13. **Tools and Tackles:**
  - i. The Agency shall provide all the tools and tackles for the works including measuring instruments and safety gadgets for attending installation of equipment's. Cost of transportation of labour and material to AIIMS, Bhubaneswar premises shall have to be borne by the Agency.
  - ii. On completion of replacement of spares before commission of the system, the replacement shall be physically checked and properly tested. These checks and tests shall be conducted by the agency under the supervision of AIIMS, Bhubaneswar and agency shall furnish the final test result.
14. The maintenance of work during warrenty period shall be done as per rules and specification of CPWD and as per I.E. Rules & Acts, amended up to date.
15. All T&P, Scaffolding ladders/Hydra, Electrical instruments/meters for maintenance, consumable and Contingent Articles required for execution of the work shall be arranged by the Agency.

16. Chases, holes & drilling works etc. shall be done using power operated tools in the cost of Contract. No extra will be paid for the same.
17. **Approved Make:-**
- a. LT Panel confirming to (IS/IEC 61439-1:2011 and IS/IEC 61439-2:2011) standard :- ABB (ARTUK) / Siemens (SIEPAN)/ Schneider (ENSET/BLOCKSET) / Laurantz Knudsen (Ti) /Legrand (XL3DO)
  - b. Bus Duct :- Legrand/ Schneider/ Godrej / Laurantz Knudsen
  - c. ACB(Latest Model Suitable for Integration with SCADA):- ABB/ Schnieder/ Siemens/Legrand/ Laurantz Knudsen (U Power OMEGA)
  - d. MCCB(Microprocessor Based):- ABB/ Schnieder/ Siemens/ Legrand/ Laurantz Knudsen
  - e. Control Wiring Cable :- Finolex/ Havells/ Polycab
  - f. MFM, CL-1, RS485, Modbus/ Digital Voltmeter with S/SW, CL-1/ Digital Ammeter with S/SW, CL-1 :- ABB/ Schneider/ Siemens / Secure
  - g. TNC/ L/R selector Switch, 2P, 2W w/o Off, 6A :- Kaycee /Salzer
  - h. 4000/5A, CI-1, 15VA CT, Resin Cast/ 2000/5A, CI-1, 10VA CT, Resin Cast/ 1200/5A, CI-1, 10VA CT, Resin Cast/ 400/5A, CI-1, 10VA CT, Resin Cast/ PT : 415V/ $\sqrt{3}$ /110V/ $\sqrt{3}$ , 1Ph, CL-1, 50VA :- Newtech/ Kalpa/ Indcoil
  - i. 6A DP MCB (10KA)/ 6A SP MCB (10KA)/ 6A SP MCB (10KA)/ 2.5A TP MPCB, 50KA, O/L & S/C Protection/ Auxiliary Contactor, 2NO+2NC, AC, 220V AC :- ABB / Siemens Schneider /Legrand/ Laurantz Knudsen
  - j. Numerical Relay EF, OC, UV with necessary arrangement/ Trip Circuit Supervision Relay :- ABB/ Schnieder/ Siemens/ Laurantz Knudsen
  - k. Buzzer :- Minilec/ Alan/ Reputed
18. Following report is to be submitted after commissioning of the Panel.
- i. Test Certificate of Panel, Busduct, ACB and MCCB
  - ii. ACB and MCCB complete testing will be carried out at factory as well as at site .

## **I. TECHNICAL SPECIFICATIONS**

### **A. Specification of Adapter Panel**

1.

Sl. No.	Description	Data
1	Door Arrangement	Single Front Door
2	Ingress Protection	IP 42
3	Standard Followed	Is: 61439 ammended upto date.
4	Construction Material	CRCA Steel Sheet
5	Thickness of the Panel Body	Gland Plate 3 mm, load bearing member 2 mm, non load bearing member 1.6 mm
6	Panel Type	Bolted Type
7	Panel Colour	RAL 7032/ RAL 7035
8	Busbar Material	Electrolytic grade Aluminum
9	Current rating of Busbar	0.8 A/ sq.mm
10	Busbar Support Insulator	FRP/ SMC/ DMC
11	Panel Mounting Arrangement	Free Standing Double front for PDB
12	Gasket Material	Neoprene
13	Operating Height of Switching Devices (Maximum & Minimum)	1900 mm max, 300 mm min
14	Material of Base channel	CNC Fabricated Powder coated 3 mm MS Steel Sheet Chanel
15	Panel is Multi-tier and Compartmentalized	Yes
16	Phase to Phase clearance	26 mm
17	Phase to earth clearance	20 mm

18	Method of phase indication marking	Red, Yellow, Blue & Black PVC Sleeve
19	Method of accessibility of incomer	Front
20	Accessibility of outgoing	Front/ Rear & Cable alley
21	Incoming and Outgoing cable entry	Bottom
22	Earth bus is extended on both sides of panel	Yes
23	Detachable gland plate shall be provided at bottom for easy cable termination	Yes
24	Short Circuit Breaking capacity of Busbar	80 kA for 1 Sec

## **B. Specification of Bus-duct**

1. Busduct to be 3p 4W with 100% Neutral + enclosure as Integral Earth.
2. Insulation is Class F – 155 deg C.
3. Insulation type is Multi-Layer Polyester Film
4. Operating Voltage upto 1000 V.
5. Impulse Voltage – 12 kV
6. Temperature rise design as per Latest IEC 61439 part 1 and 6.
7. TTA in accordance to IEC 61439 Part 1 and 6.
8. Ingress Protection IP 55 – Indoor.
9. Safety Feature of Energy Isolation of MCCB on PIB Door Opening.
10. Entire Aluminium Alloy treated with 5 Galvanic Process (Copper Plating + Tin Plating).
11. Mechanical Strength Certification upto IK 10.
12. Salt Spray Test upto 1500 hrs.
13. Short Circuit Breaking Capacity – 160 KA for 01 Second.

## **C. Specification of LT Panel**

### **1.0 SCOPE**

This specification along with Data Sheet covers the 'General Requirements' for the design, manufacture, performance, inspection, testing and supply of indoor type 415V Low Voltage Design Verified Panel as per IEC61439-1 & 2.

### **2.0 SITE CONDITIONS**

Temperature	Maximum 50 Deg. C
	Minimum 10 Deg. C
Humidity	80% at maximum temperature
Rainfall	Around 1000mm Per Annum
Altitude	Less than 1000m above MSL

### **3.0 ELECTRICAL SUPPLY SPECIFICATIONS**

Incoming system voltage nominal	440 V
Distribution Voltage	415V
Voltage variation limits	-15% to +10% on HT Side
No. of phases	3
Frequency	50 Hz
Frequency variation limits	+3% or -5%
Fault level	50kA at 415V
Earthing	TNS with separate Neutral & protective conductor
Neutral earthing	Solidly earthed

#### 4.0 STANDARDS & DESIGN CONDITIONS

All materials, equipment and accessories used in the manufacture shall conform to the latest editions of relevant Indian and International Standards including amendments and addenda, some of which are listed below

IS/IEC 61439-1&2	General Rules and Specification for Power gear and control gear assembly.
IS/IEC 60947 (Part 1 to 5)	Specification for Air Break Circuit breakers & MCCBs & Contactors
IS :1248	Electrical measuring instruments
IS : 2705 (Part 1 to 4)	Current Transformers
IS : 3156 (Part-1 to 4)	Voltage Transformers
IS : 11353	Marking and identification of conductors & apparatus terminals.
IS : 10118 (Part-1 to 4)	Code of Practice for selection, installation & maintenance of switchgear & control gear.
IS : 11353	Guide for uniform system of marking and identification of conductors and apparatus terminals.

#### 5.0 CONSTRUCTIONAL FEATURES

D. Standard Bolted Cubicle type, Compartmentalized, totally enclosed, floor mounting, free standing, flush front, single bus type suitable for draw out/ non-draw out ACBs, MCCBs/ MPCBs..

Form of separation shall be of Form 4B as per IS/ IEC 61439-1&2.

All feeder components to be mounted on an equipment plate which in turn is fixed within the compartment by screws. All ACB panels shall be single tier only

Minimum size of compartment module for all other feeders should not be less than 200mm motor/ power feeders.

The OEM licensed panel builder shall offer Design Verified assemblies of reputed make as per make list given which have undergone test for internal arc containment.

Pretreatment process for sheet steel shall be seven tank process. Type of paint finish shall be powder coated with paint shade RAL 7035. The paint thickness shall not be less than 70 microns. and impulse withstand voltage is 8KV.

Sheet still thickness shall be 2.5mm for frames, 2mm for load bearing members, 1.6mm for doors & covers, 1mm for barriers, 3mm for gland plates. The cable gland plate shall be 3mm Aluminum sheet wherever single core cables are specified.

Degree of protection shall not be less than IP43.

Base frame shall be 75mm height ISMC. Overall height of the switchboard shall be not be more than 2400mm including base frame. The maximum operating height of the switchboard shall not be more than 1800 mm and minimum operating height shall not be less than 400mm.

All the doors and covers shall be fully gasket to prevent any ingress of dust. Gasket used for all doors shall be of double lip type Doors shall have concealed hinges. Door locks shall be of the quick opening, industrial type.

Cable alley & rear doors shall be hinged on one side & bolted on the other. Cable alley shall be accessible from the rear for switchboard for Single front and front of the switchboard for double front panels as to ease of maintenance. Cable / bus duct entry shall be from the Bottom. Cable clamping facility should be provided.

All incoming and outgoing feeders should have compartmentalized design which enable individual lockable door to ensure operator safety and ease during maintenance.

#### 6.0 SAFETY FEATURES

The operating handles shall be interlocked with the door and shall have padlocking facility.

#### 7.0 OTHER FEATURES

Shipping section length to be limited to a maximum dimension of to 3000mm. All hardware should be as per design verification. Lifting arrangement shall be in line with the design verification. Danger boards to be provided for cable alley and bus bar chambers. The switchboard shall be provided with space heater.

## 8.0 BUSBARS (Continuous Current Rating 5000 A)

The material of the busbar shall be Electrolytic grade Aluminum. The Busbar sizes shall be determined taking into consideration the continuous rating without exceeding the final temperature as permitted by IEC 61439 when carrying rated current (**5000 A**); and must be suitable for a fault level of 50kA (1 sec).

Busbars for main horizontal and risers shall be of uniform section throughout. The selection of cross section shall also be as validated in the design verification documentation and same needs to be certified by the OEM. The neutral bus shall be half the size of the phase bus for main distribution boards. The minimum size of the neutral bus bar shall not be less than 16 sq.mm. as per IEC 61439-1. Busbar supports shall be SMC/FRP type. It should have Very high Comparative Tracking Index (CTI > 600 as per IS 2824 - Type test certificate to be submitted). Bus bar clearance for the main Bus bars shall not be less than 26 mm clear for phase bus bars and not 20mm clear for neutral bus and main bus or as per IS 61439. Bus bar bolts shall be conical washers at all busbars.

The bus bars shall be sleeved with black colour heavy duty, heat shrinkable sleeves capable of withstanding 90 deg C continuously without deterioration and color coded using identifying colour rings at regular interval. Red, Yellow & Blue colour shall be used for phases & Black for neutral. The earth Busbar shall be identified with Green colour rings at regular intervals.

There shall be minimum 2 sets of auxiliary copper busbars of 5x5 mm cross sections for control wiring supply.

The short time short circuit rating of busbar shall be 50kA at 415V for 1sec. as specified in the drawing. The design verified assembly is preferable to achieve most optimized space after using ACB in Single Tier.

## 9.0 COMPONENTS:

### 9.1 ACB :

#### General:

1. ACB shall be air brake, draw out type, modular in construction and conforming to IS/ IEC60947 Part 2.
2. The ACB shall be rated at operational voltage of 415 V, 50Hz supply system, and 50 degrees Celsius ambient temperature.
3. The ACB shall have  $I_{cu} = I_{cs} = I_{cw} = 1$  sec. Breaking capacity shall be as per SLD.
4. The circuit breaker shall be suitable for isolation according to IEC 60947-2. All ACB shall be suitable for reverse feed without compromising on the performance.
5. ACB should have withdrawable features with Microprocessor based Trip unit with display with LSIG protection. It is preferable to have absolute setting of Ground Fault and as well as mechanical contact erosion indicator.
6. Breaker should have ready to close indication for safety during maintenance.

#### Operating feature:

The control panel of ACB along with its operating device shall project through cutout in the door. The door cutout shall be provided with suitable gasket for IP40 protection.

#### Standard features:

The ACB (draw out) shall provide following as a standard feature:

- Contact position indicator (ON / OFF)
- Connected / Test / Disconnected position. (DO version)
- Trip indication on fault
- OK Indicator (Mechanical) on the front panel of the Circuit breaker when the trip or OFF conditions are cleared and the Circuit breaker can be closed on "ON" command (Manual or Electrical).
- The manual charging handle and mechanical close / open push button shall be in the front and shall be an integral part of ACB.
- Mechanical Contact wear indicator shall be mounted directly on the moving contacts to indicate the degree of erosion of the contacts.
- Access to the accessory of the circuit breaker (like Motor, Shunt etc) shall be prevented with the ACB in ON condition.
- For 4 pole ACBs, neutral CT shall be integral. For 3 pole ACBs, neutral protection shall be provided

with external neutral CT of OEM. 4th pole of the ACB shall be 100%. Half size of phase for neutral will not be acceptable.

-Earth fault protection provided by release should be in absolute values in order to achieve minimum setting of earth fault.

-ACB terminations must not be rotatable. They must be fixed either horizontal or vertical factory fitted.

#### **Draw out features:**

-The circuit breaker shall have 3 distinct and separate positions on the draw out frame. These are namely connected position, test position, and disconnected position.

-It shall be possible to padlock the draw out ACB in the connected, test and disconnected position of the guide frame.

-Withdrawal portion of the circuit breaker shall be removable from the guide frame only when it is ensured that breaker is in OFF condition.

-For safety purpose it shall be possible to padlock the shutters in closed position using padlocks, for draw out ACB.

#### **Operating Mechanism:**

- The ACB shall have trip free mechanism which prevents the operating mechanism from interfering with the tripping or opening action.

-Castell key lock if asked for shall be provided on the ACB itself. It should be possible to remove Castell key only when breaker is in OFF condition.

-All the vital accessories like Shunt, Motor, and Undervoltage coils shall be accessible from the front and should not need removing of the breaker from its panel for the replacement.

-It shall not be possible to push in a drawnout breaker in closed condition or withdraw a breaker in closed condition. Compartment doors shall be interlocked against opening when breaker is in closed condition. It shall not be possible to operate the breaker when the compartment door is open. It shall not be possible to operate the breaker in intermediate position while inserting or withdrawing a circuit breaker.

-ACB's shall have indication for service, test and isolated positions on the feeder door.

-The breaker mechanism shall be 230V AC Motor charged spring operated type.

-Tripping and closing shall be affected by means of 230Vac coils.

-All incomer ACB's shall be with integrated undervoltage release.

adjustable time delay setting for tripping on ground fault. Also there should be provision to disable the Ground Fault Protection if required.

-Neutral Protection shall be provided for 3P as well as 4P ACB. The Neutral protection shall be dependent on the phase current.

#### **Safety Interlocks and indicators:**

-The ACB compartment door shall be interlocked to prevent access when in connected position. It shall however be possible to defeat the interlock in an emergency.

-Interlock shall be provided to prevent plugging in or withdrawal of ACB trolley unless it is open. Any attempts to do so shall trip the circuit breaker instantly.

-Interlock shall be provided to ensure closing of ACB only in 'Connected' 'Test' and Disconnected position of drawout ACB.

-Mechanical 'ON' pushbutton shall have suitable locking arrangements for carrying out maintenance of downstream load.

-"OK" signal (on breaker front panel) interlocking to ensure the breaker shall get closed only when vital interlocking are checked & found OK.

## 9.2 MCCB :

### General

Moulded-Case Circuit Breakers (MCCB) shall comply with IEC 60947-1, IEC 60947-2 & IEC 60947-3 standards.  
-MCCB shall be of category A with a rated service breaking capacity (Ics) equal to the ultimate breaking capacity (Icu) on all the ratings @ 415VAC

-MCCB shall have a rated operational voltage of 415 V AC (50/60 Hz)

-MCCB shall have a rated insulation voltage of 800 V AC (50/60 Hz)

-MCCB shall be suitable for isolation, as defined by IEC 60947 -1 and -2

-MCCB must be available in Thermal Magnetic type release for entire range.

-MCCB should be fully rated up to 50 Deg C

-MCCB shall have wide variety of kA rating from 10kA to 55kA.

-MCCB Dimension should be independent of the kA rating.

MCCBs shall be available in fixed, plug-in & draw-out versions as well as in 1-pole, 2-pole, 3-pole and 4-pole versions.

For plug-in & draw-out versions, remote indications of the breaker position CONNECT, TEST and DISCONNECT provision should be possible.

For draw-out versions Operation of the breaker through the cabinet door should be possible.

MCCBs shall be insensitive to Vibrations and meet requirements on mechanical & electromechanical vibration strength according to IEC/EN 60068. Also, suitable for Shock resistance without tripping up to 10g (IEC / EN 60068-2-27)

### Construction & Operation

For maximum safety, the power contacts shall be insulated in an enclosure made of a thermosetting material from other functions such as the operating mechanism, the case, the trip unit and auxiliaries MCCBs shall be actuated by a toggle or handle that clearly indicates the three positions: ON , OFF and TRIPPED. The handles should have integrated status indication. The operating mechanism shall be designed such that the toggle or handle can only be in OFF

position (O) if the power contacts are all actually separated & in OFF position, the toggle or handle shall indicate the isolation position. Isolation shall be provided by a double break mechanism on the main circuit. MCCBs shall be equipped with a "push to trip" button in front to test operation and the opening of the poles. "Push to trip" should be achieved even after handle is installed

MCCBs shall be suitable for IP40 in accordance to IEC 60529 & IEC 60947-1 Appendix C

The MCCB should have a trip-free mechanism that ensures the trip process is not prevented even if the operating mechanism is blocked or manually held in the "ON" position

### Accessories

MCCBs shall have uniform Internal Accessories platform across the range

MCCBs should have the facility to use both auxiliary release together (Shunt Release & Under-voltage release)

MCCBs Door Mounted Rotary Handle shall have an option of integrated status indication to indicate three stable mechanism positions (ON, OFF and TRIPPED).

MCCBs with TMTU Release should have provision for separate indication for Short Circuit signals.

MCCBs shall be snap fit type to enable safe on-site installation of auxiliaries, voltage releases, signal contacts etc. It shall be colour coded for easy identification. All accessories should be mounted in OFF position only to ensure personnel safety.

MCCBs should have symbols engraved in the lid of the accessories compartment to indicate possible mounting position of internal accessories.

The addition of a motor module or manual rotary handle etc., shall not block device settings.

MCCBs should have option of Side Wall mounted Rotary Operator with mounting bracket.

The auxiliary & alarm switches should be rated at 240V AC for AC12 duty 10A and for AC-15 Duty 6A, to facilitate direct usage in control schematic.

Shunt Release should be freely mountable on either side of Rotary Operator.

### Protection functions

MCCBs entire range shall be available in both the release type

- Thermal-Magnetic Release

### Common features

The MCCB Trip units shall comply with Electromagnetic Compatibility as per the following standards

CISPR 11, Class A & B  
 IEC / EN 60947-1, Appendix S  
 IEC / EN 60947-2, Appendix B, F, J & N  
 Protection settings shall apply to all circuit breaker poles

Thermal-Magnetic Trip Units Characteristics:  
 ATAM: Adjustable Thermal, Adjustable Magnetic ( $I_r = 0.7$  to  $1 \times I_n$ ,  $I_i = 5$  to  $10 \times I_n$ )

### 9.3 MULTI FUNCTION METERS :

#### Applicable Standards

The meters shall conform in all respects to the following standards IEC 62053-21.

#### General Requirements

- The meter shall be suitable for operation in single phase or multi- phase networks, balanced as well as unbalanced load.
- All the meters should have suitable port for integration with SCADA.
- It shall be possible to use the multifunction meter directly for networks up to 480V.
- Meter shall be suitable for pollution degree II & overvoltage category III.
- The current inputs shall be configurable at site for measuring on  $x/1$  A or  $x/5$  A current transformers
- The multifunction meters shall be suitable for operation up to 55 Deg C
- The meters shall be suitable for operation with AC auxiliary power and shall have wide tolerance band of 95V to 240 V ( $\pm 10\%$ )
- The meter shall operate for frequency variation of 45-65 Hz.
- The multifunction meters shall have high degree of protection (IP65 from the front) against ingress of dust & water
- The multifunction meters shall have LCD with bar graph display for current measurement.
- The meter shall be tamper-proof (password protected) to avoid mishandling by unauthorized person
- Meter shall have minimum one digital input.
- All meters shall have possibility of remote monitoring using the software

#### Measurement Specs

- Meter shall be with accuracy class 1.0
- Meter must have a MODBUS RTU communication protocol over RS 485 interface.
- All basic electrical parameters (Current, Voltage, Power, Energy, Frequency, Power factor) should be available on display as well for communication with EMS software.
- Meter shall provide % THD (Current & voltage) up to 31st harmonics. Individual harmonics data should be available on communication.
- Meter shall measure line current, line to line voltage as well as neutral current and line to neutral voltage

### 9.5 MCB :

#### General

MCBs shall comply with IS/IEC 60898: 2002 standard. MCBs shall be marked with ISI marking and its relevant CM/L number.

#### Standard features

MCB shall have 10kA breaking capacity.

Current limiting class shall be Class 3.

MCB shall be available in SP,DP,TP and FP version.

The MCB shall have slide latch release function for easy unmounting from din rail.

MCB shall accommodate cable cross section upto 25 sq.mm.

Terminals on cable/Busbar termination should provide Complete Shrouding to the Conducting parts.

MCB shall have clear identification of ON/OFF position and shall be painted with red and green color on MCB operating lever.

MCB shall be available in B, C & D characteristics.  
MCB shall have compliance to IEC 898 & IEC 60947-2

### **9.6 Current Transformers:**

CTs shall be epoxy molded ring type either bar or wound primary.

CT shall be tested as per IS 2705.

The CT secondary shall be 1A/5A as per the SLD. CTs shall be class-I accuracy for metering and minimum 5P10 for protection. Final selection shall be as per the SLD.

### **9.7 Indicating lamps-**

Indicating lamp shall be LED cluster type. The indicating lamp shall comply with IS 60947 standard.

The indicating lamp shall be suitable for 230V AC. The minimum consumption of indicating lamp shall be 1W. Indicating lamp shall comply with Class-2 electric shock protection.

### **9.8 Push buttons-**

Push buttons shall be snap fit type, finger touch proof. Push button shall comply with class-2 electric shock protection. The degree of protection shall be upto IP 65. Push button shall have facility to add on NO/NC contact block.

### **10.0 Main & Auxiliary wiring-**

Internal wiring of power circuits rated upto 63A shall be carried out using 1100V, FRLS grade PVC insulated, flexible copper conductor wires. Minimum size of wiring shall be 6 Sq.mm and maximum shall be 25Sq.mm. For rating above 100A, busbars of appropriate size shall be used. The bus bar sizes shall be selected as specified elsewhere.

The internal wiring for signaling and protection and instrumentation shall be carried out using 660V grade PVC insulated, multistrand copper conductors. The sizes of wires shall be as follows:

For Controls & Signaling : 1.5 Sq.mm. for internal wiring.

For Controls & Signaling : 2.5 Sq.mm for external cabling.

For C.Ts : 2.5 Sq.mm for internal wiring

For C.Ts : 4.0 Sq.mm for external cabling.

For C.Ts : Inter panel wiring shall be carried out using PVC troughs.

Each wire shall preferably be terminated at a separate terminal. Termination of upto two outgoing wires at a single terminal will be acceptable. Wires shall not be joined between terminal points. Shorting links shall be provided for all C.T terminals. Wiring shall be neatly bunched.

Each wire shall be identified at both ends by yellow colour PVC ferrules marked with black letters. Supporting facilities shall be provided for clamping the control cables. Inter panel wiring shall be done by the switchgear manufacturer before dispatch with disconnection facility at the shipping section with plug in type multiway connector.

Rubber grommets shall be provided so that metal parts should not come in contact with any power or control wires/cables.

Minimum size of terminals for control wiring shall be 2.5sq.mm or higher to suit the wiring sizes stipulated. Clipon type terminals shall be provided. 20% spare terminals shall be provided on each terminal block. The terminal blocks for C.T connections shall have C.T disconnection and shorting facility.

Stranded conductors shall be terminated with tinned copper lugs at both ends before connections are made.

Wiring shall be finger touch proof at all places. Where the terminals of equipment meters/relay and accessories are not finger touch proof, insulating shrouds shall be provided.

Control wiring requirements will be communicated to the successful bidder. The bidder shall include necessary auxiliary contactors, A/M switches, timers & wiring for the same.

Communication ports to be wired to terminals using appropriate connectors and wires to avoid any loss of data or corruption in transmission.

For power monitoring system all MDMs shall be daisy chained such that upto 30MDMs are connected in a single loop. RS 485 cable shall be used for this purpose and terminated in the incomer or bus coupler panel to facilitate external connection.

## **11.0 EARTHING**

All cubicles shall be connected to a common copper earth busbar of specified size running throughout the length of the switchboard and brought outside at the both ends. All doors and movable parts shall be connected to the earth bus with flexible connections.

Provision shall be made to connect the earthing busbar to the plant earthing grid at two ends. All non-current carrying metallic parts of the mounted equipment shall be earthed.

## **12.0 DRAWING AND DOCUMENTATION**

The manufacturer shall submit for approval a schedule of drawings which shall include the single line diagram, general arrangement of switch board & busduct, component list with all protective devices, their settings, rated current, foundation plan and control wiring along with terminal chart. The approval of general arrangement should be obtained before the fabrication of cubicles is started. Approval of schematic drawings, single line and control wiring drawings shall be obtained before the manufacturer proceeds with the cubicle wiring.

Manufacturer shall submit for approval the single line general arrangement drawings including component list, foundation drawings and control wiring. The approval of general arrangement

drawing should be obtained before the fabrication of cubicles is started. Approval of schematic drawings, single line and control wiring drawings shall be obtained before the manufacturer proceeds with the cubicle wiring.

The approval of drawings shall not relieve the manufacturer of his responsibility of supplying equipment conforming to the relevant specifications and standards.

Once manufacturer's schematic diagrams have been finally approved, the manufacturer shall prepare wiring connection diagram for each cubicle. These diagrams shall show all wiring inside

the cubicle starting from the cubicle terminal strips. These diagrams which will be used for trouble shooting shall be submitted before delivering the equipment at site.

A detailed B.O.Q with component specifications and recommended spares with unit rate there of shall be submitted one month before the delivery of the switchboards.

As a part of the contract, following documentation shall be supplied by the L-1 bidder.

Sl.No Description With Tender For approval For records Prints Soft copy

- a) General arrangement and foundation plan of switchboard with cross sectional details
- b) Schematic Wiring diagrams
- c) Terminal diagram
- d) Switchboard-wise bill of quantity with detailed component specifications and makes.
- e) List of recommended spares
- f) Test certificates for switchboards
- g) Test certificates for all bought out components like relays, meters, capacitors, ACBs etc
- h) Installation and maintenance instructions for ACBs, Relays and Electronic meters

### **13.0 FEEDER QUANTITY & DETAILS**

The bidder shall quote for the rating & quantity of feeders as per BOQ and BOM. The BOM is for reference purpose, changes might be made as per site requirement. Discrepancies if any shall be clarified in pre-bid meeting.

A detailed switchboard wise bill of quantity is furnished along with the Bid Document. The makes of components is also highlighted. AIIMS, Bhubaneswar reserves the right to select the makes of components.

The component specifications shall be as per this specification. The drawing does not quantify the auxiliary items like terminals, auxiliary contactors and internal power & control wiring accessories which shall be assessed by the supplier and included in the prices. No extra claims will be entertained for any variation in the quantities of these items.

The bus bar ratings and physical disposition of the feeders shall be determined from the accompanying single line diagram.

### **14.0 INSPECTION**

The switchboards shall be offered for inspection at the manufacturers works and the same shall not be dispatched till they are cleared by Engineer- in-charge.

### 15.0 TESTS

The following checks and tests shall be carried out :

Visual checks covering overall dimensions, flange details of busduct entry component ratings makes etc.

Operation tests on ACBs, MCCBs etc.  
Testing of all mechanical & Electrical interlocks.

### 16.0 GUARANTEE

The switchboards shall be guaranteed for trouble-free operation for a period of 24 months from the date of substantial completion of the installation at site. Any defects noticed during this period shall be rectified free of charge at the shortest possible time.

### 17.0 TRAINING

The vendor shall train the engineers and technicians of AIIMS, Bhubaneswar for servicing of ACBs, testing of releases and operation of interlocks.

### 18.0 INSTALLATION

The scope of work will include assembling & installation of the switchboards. These switchboards may be installed at various floors/locations as indicted on the drawings which will be provided to the successful bidder. Necessary tools of requisite height duly painted shall be supplied and installed by the switchboard vendor.

The scope of work shall include but not be limited to

- a) Shifting the switchboards to site
- b) Assembling all the panels dismantled for dispatch
- c) Tightening of all buslinks, testing, commissioning

### 19.0 APPROVED MAKES

The equipment / installation materials to be supplied shall be selected from among the makes list .

## **II. INSTALLATION & COMMISSIONING**

1. Installation and commissioning procedure of the new panel shall be carried out as per approved OEM SOPs or manual.
2. Installation and commissioning of new panel at site to be done by successful vendor.
3. Unloading of the new panel and erection/installation and commissioning shall be within the scope of the Vendor (Contractor).
4. Technical literature, instruction Manual & routine maintenance, test and calibration certificate if needed shall be provided by the agency.
5. No space shall be allotted to the agency for storing the panel. Transportation of the panel from the storage area to the substation for installation and commissioning is under the scope of the vendor.
6. Delivery, Installation & Commissioning: The panel shall be delivered, installed & commissioned at:  
**All India Institute of Medical Sciences, Bhubaneswar, At- Sijua, Po- Dumuduma, Bhubaneswar, Pin code 751019.**

**III. Warranty:**

The warranty shall be 24 months reckon from the date of commissioning of the Panel. Warranty shall cover free replacement of faulty or defective items supplied under this contract. Warranty shall also cover rectification of any defect in workmanship without any cost to AIIMS, Bhubaneswar. The cost of transportation for replacement/repairing of equipment during warranty period is under the scope of the agency.

**IV. COMPLIANCE OF SAFETY MANAGEMENT SYSTEM:**

The vendor must comply to various guidelines on safety management system being followed in AIIMS, Bhubaneswar for executing works under the scope. Salient points of this Safety Management System are mentioned below:

1. The vendor shall engage only skilled, capable, and competent personnel who are fully conversant with the system for installation & commissioning(I&C) and repair/maintenance jobs. The Vendor shall ensure that the personnel engaged for I&C activities have prior experience of the same and provide documentary proof or undertaking of the same.
2. The vendor shall ensure complete safety of the equipment and personnel deployed by him and must take full responsibility for their safety.
3. The vendor shall provide the necessary safety gadgets and personal protective devices and Personnel Protective Equipment (PPEs) to his personnel.
4. The vendor's personnel shall follow and take necessary work permit before carrying out any work.
5. The vendor's personnel shall take every possible care to keep the environment clean and free from pollution during delivery & I&C of the material.
6. The vendor's personnel should understand the implication of the known hazards related to the work undertaken by them and the necessity of having an emergency plan ready to counter them, should anything go wrong.
7. While providing the services, the vendor's personnel shall follow the procedures and systems taking all control measures in all the stages of works to avoid any untoward incidents.
8. The vendor shall fully understand AIIMS, Bhubaneswar 's safety policy and should take necessary steps to align their safety policy with AIIMS, Bhubaneswar 's; so as to accommodate and implement AIIMS, Bhubaneswar 's safety policy in the jobs undertaken by them.
9. The vendor shall have to report all sorts of near mishap, incidents and accidents to AIIMS, Bhubaneswar Engineer immediately. For any clarification with regard to the above, the Vendor may contact concerned AIIMS, Bhubaneswar Engineer.

**V. Instructions to the Bidder**

1. The bidder shall provide detailed technical literature and the datasheet of the panel to be supplied indicating all the parameters as per technical Specifications along with their bids.
2. The Panel shall be designed for high integrity and long life.
3. The bidder has to strictly comply with the technical specifications as per BOM, tender document and deviation, if any, may lead to rejection of the bid.
4. The Warranty of the items supplied shall be minimum 24 months from the date of commissioning .
5. The quote for installation and commissioning charges shall be included in the quote of the panel and accessories.
6. The bidder has to take the make and design approval of the panel from Engineer in charge after which panel manufacturing will be started.

**Executive Engineer (Elect.)  
AIIMS Bhubaneswar**

### DETAILED BILL OF MATERIAL

Sl. No.	DESCRIPTION	Unit	QTY
<b>Incomer - LT1</b>			
<b>1</b>	<b>I/C- 4000A ACB (Terminals suitable for Busduct Entry)</b>	<b>Nos.</b>	<b>1</b>
i	4000A 4P EDO ACB, 50KA/1Sec (Spring Charging Motor-220V AC, Closing & Trippnig Coils-220V AC), LSIG Protection + UVR + Aux. contact 6Q + AUP 5 contact + MOC + Padlocking + PBC + Key Lock	Nos.	1
ii	MFM, CL-1, RS485, Modbus	Nos.	1
iii	Digital Voltmeter with S/SW, CL-1	Nos.	1
iv	Digital Ammeter with S/SW, CL-1	Nos.	1
v	4000/5A, CI-1, 15VA CT, Resin Cast	Nos.	3
vi	Phase Indicating Lamps (RYB)	Nos.	3
vii	On / Off/ Trip Indicating Lamps (R,G,A)	Nos.	4
viii	SC/TCH/Service/Test Position Indicating Lamps (B,W)	Nos.	4
ix	Push Button- Reset	Nos.	1
x	TNC	Nos.	1
xi	L/R selector Switch, 2P, 2W w/o Off, 6A	Nos.	1
xii	Auxiliary Contactor, 2NO+2NC, AC, 220V AC	Nos.	8
xiii	6A DP MCB (10KA)	Nos.	1
xiv	6A SP MCB (10KA)	Nos.	7
xv	2.5A TP MPCB, 50KA, O/L & S/C Protection	Nos.	1
xvi	PT : 415V/ $\sqrt{3}$ /110V/ $\sqrt{3}$ , 1Ph, CL-1, 50VA	Nos.	3
xvii	6A SP MCB (10KA)	Nos.	1
xviii	Numerical Relay EF, OC, UV with necessary arrangement	Nos.	2
xix	Trip Circuit Supervision Relay	Nos.	1
xx	Buzzer	Nos.	1
<b>Incomer - LT2</b>			
<b>2</b>	<b>I/C- 4000A ACB (Terminals suitable for Busduct Entry)</b>	<b>Nos.</b>	<b>1</b>
i	4000A 4P EDO ACB, 50KA/1Sec (Spring Charging Motor-220V AC, Closing & Trippnig Coils-220V AC), LSIG Protection + UVR + Aux. contact 6Q + AUP 5 contact + MOC + Padlocking + PBC + Key Lock	Nos.	1
ii	MFM, CL-1, RS485, Modbus	Nos.	1
iii	Digital Voltmeter with S/SW, CL-1	Nos.	1
iv	Digital Ammeter with S/SW, CL-1	Nos.	1
v	4000/5A, CI-1, 15VA CT, Resin Cast	Nos.	3
vi	Phase Indicating Lamps (RYB)	Nos.	3
vii	On / Off/ Trip Indicating Lamps (R,G,A)	Nos.	4
viii	SC/TCH/Service/Test Position Indicating Lamps (B,W)	Nos.	4

ix	Push Button- Reset	Nos.	1
x	TNC	Nos.	1
xi	L/R selector Switch, 2P, 2W w/o Off, 6A	Nos.	1
xii	Auxiliary Contactor, 2NO+2NC, AC, 220V AC	Nos.	8
xiii	6A DP MCB (10KA)	Nos.	1
xiv	6A SP MCB (10KA)	Nos.	7
xv	2.5A TP MPCB, 50KA, O/L & S/C Protection	Nos.	1
xvi	PT : 415V/ $\sqrt{3}$ /110V/ $\sqrt{3}$ , 1Ph, CL-1, 50VA	Nos.	3
xvii	6A SP MCB (10KA)	Nos.	1
xviii	Numerical Relay EF, OC, UV with necessary arrangement	Nos.	2
xix	Trip Circuit Supervision Relay	Nos.	1
xx	Buzzer	Nos.	1
<b>Incomer - DG Set</b>			
<b>3</b>	<b>I/C- 4000A ACB (Terminals suitable for Busduct Entry)</b>	<b>Nos.</b>	<b>1</b>
i	4000A 4P EDO ACB, 50KA/1Sec (Spring Charging Motor-220V AC, Closing & Trippnig Coils-220V AC), LSIG Protection + UVR + Aux. contact 6Q + AUP 5 contact + MOC + Padlocking + PBC + Key Lock	Nos.	1
ii	MFM, CL-1, RS485, Modbus	Nos.	1
iii	Digital Voltmeter with S/SW, CL-1	Nos.	1
iv	Digital Ammeter with S/SW, CL-1	Nos.	1
v	4000/5A, Cl-1, 15VA CT, Resin Cast	Nos.	3
vi	Phase Indicating Lamps (RYB)	Nos.	3
vii	On / Off/ Trip Indicating Lamps (R,G,A)	Nos.	4
viii	SC/TCH/Service/Test Position Indicating Lamps (B,W)	Nos.	4
ix	Push Button- Reset	Nos.	1
x	TNC	Nos.	1
xi	L/R selector Switch, 2P, 2W w/o Off, 6A	Nos.	1
xii	Auxiliary Contactor, 2NO+2NC, AC, 220V AC	Nos.	8
xiii	6A DP MCB (10KA)	Nos.	1
xiv	6A SP MCB (10KA)	Nos.	7
xv	2.5A TP MPCB, 50KA, O/L & S/C Protection	Nos.	1
xvi	PT : 415V/ $\sqrt{3}$ /110V/ $\sqrt{3}$ , 1Ph, CL-1, 50VA	Nos.	3
xvii	6A SP MCB (10KA)	Nos.	1
xviii	Numerical Relay EF, OC, UV with necessary arrangement	Nos.	2
xix	Trip Circuit Supervision Relay	Nos.	1
xx	Buzzer	Nos.	1
<b>Buscoupler</b>			
<b>1</b>	<b>B/C- 4000A ACB</b>	<b>Nos.</b>	<b>1</b>
i	4000A 4P EDO ACB, 50KA/1Sec (Spring Charging Motor-220V AC, Closing & Trippnig Coils-220V AC), LSIG Protection + UVR + Aux. contact 6Q + AUP 5 contact + MOC + Padlocking + PBC + Key Lock	Nos.	1
ii	On / Off/ Trip Indicating Lamps (R,G,A)	Nos.	4
iii	SC/TCH Indicating Lamps (B,W)	Nos.	3
iv	Push Button- Reset	Nos.	1
v	TNC	Nos.	1
vi	L/R selector Switch, 2P, 2W w/o Off, 6A	Nos.	1
vii	Auxiliary Contactor, 2NO+2NC, AC	Nos.	1

viii	6A DP MCB (10KA)	Nos.	1
ix	6A SP MCB (10KA)	Nos.	7
<b>Outgoing Feeder</b>			
<b>1</b>	<b>O/G- 2000A ACB (Terminals suitable for Cable Entry)</b>	<b>Nos.</b>	<b>1</b>
i	2000A 3P EDO ACB, 50KA/1Sec (Spring Charging Motor-220V AC, Closing & Trippnig Coils-220V AC), LSIG Protection + MOC + Padlocking + PBC	Nos.	1
ii	MFM, CL-1, RS485, Modbus	Nos.	1
iii	2000/5A, CI-1, 10VA CT, Resin Cast	Nos.	3
iv	On / Off/ Trip Indicating Lamps (R,G,A)	Nos.	3
v	TNC	Nos.	1
vi	L/R selector Switch, 2P, 2W w/o Off, 6A	Nos.	1
vii	6A DP MCB (10KA)	Nos.	1
viii	6A SP MCB (10KA)	Nos.	5
<b>2</b>	<b>O/G- 2000A ACB (Terminals suitable for Cable Entry)</b>	<b>Nos.</b>	<b>2</b>
i	2000A 4P EDO ACB, 50KA/1Sec (Spring Charging Motor-220V AC, Closing & Trippnig Coils-220V AC), LSIG Protection + MOC + Padlocking + PBC	Nos.	2
ii	MFM, CL-1, RS485, Modbus	Nos.	2
iii	2000/5A, CI-1, 10VA CT, Resin Cast	Nos.	6
iv	On / Off/ Trip Indicating Lamps (R,G,A)	Nos.	6
v	TNC	Nos.	2
vi	L/R selector Switch, 2P, 2W w/o Off, 6A	Nos.	2
vii	6A DP MCB (10KA)	Nos.	2
viii	6A SP MCB (10KA)	Nos.	10
<b>3</b>	<b>O/G- 1250A ACB (Terminals suitable for Cable Entry)</b>	<b>Nos.</b>	<b>2</b>
i	1200A 4P EDO ACB, 50KA/1Sec (Spring Charging Motor-220V AC, Closing & Trippnig Coils-220V AC), LSIG Protection + MOC + Padlocking + PBC	Nos.	2
ii	MFM, CL-1, RS485, Modbus	Nos.	2
iii	1200/5A, CI-1, 10VA CT, Resin Cast	Nos.	6
iv	On / Off/ Trip Indicating Lamps (R,G,A)	Nos.	6
v	TNC	Nos.	2
vi	L/R selector Switch, 2P, 2W w/o Off, 6A	Nos.	2
vii	6A DP MCB (10KA)	Nos.	2
viii	6A SP MCB (10KA)	Nos.	10
<b>4</b>	<b>O/G- 400A MCCB (Terminals suitable for Cable Entry)</b>	<b>Nos.</b>	<b>4</b>
i	400A FP MCCB, 50KA, MP-LSIG + ROH + Rear Terminals + Aux. contact	Nos.	4
ii	MFM, CL-1, RS485, Modbus	Nos.	4
iii	400/5A, CI-1, 10VA CT, Resin Cast	Nos.	12
iv	On / Off/ Trip Indicating Lamps (R,G,A)	Nos.	12
v	6A SP MCB (10KA)	Nos.	16
vi	Annunciator and Buzzer arrangement for all Outgoing feeder	Nos.	1

## 2. Bus Trunking (BOM-2)

<b>BOM of BUS TRUNKING</b>			
<b>SLNo.</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTITY</b>
1	Straight Feeder-Indoor (without Outlet)- IP 55	Mtrs.	102
2	90 Deg Bends (Fabricated Cost) – IP 55	Mtrs.	As Per Site Requirement
3	Flange End (Fabrication Cost)- IP 55	Nos.	As Per Site Requirement
4	Phase Inversion (Fabrication Cost) -IP 55	Nos.	As Per Site Requirement
5	Double offset Elbow (Fabrication Cost)- IP 55	Nos.	As Per Site Requirement
6	Adaptor Box	Nos.	06
7	Copper Braided Flexibles	Sets	06
8	Canopy	Mtrs.	As Per Site Requirement
9	Termination Links	Sets	As Per Site Requirement
10	External Earthing 50X6 Cu	Mtrs.	204
11	GI Support (Supply & Fabrication)	Kgs.	As Per Site Requirement

### 3. Adapter Panel and Retrofitting Work (BOM-3)

<b>Sl. No.</b>	<b>Catalog No</b>	<b>Description</b>	<b>Make</b>	<b>Unit</b>	<b>Qty</b>
<b>RETROFITTING &amp; TESTING COMMISSIONING OF 4000A, 4P, 65KA EDO TYPE ACB IN THE EXISTING 3200A ACB WITH ALL REQUIRED ACCESSORIES, BUSBAR &amp; ALL COMPLETE WORK</b>					
1	<b>O/G - 4000A ACB (Terminals suitable for Busduct Entry)</b>			No.	1
i	1SDA073176R1	E4.2N 4000 EKIP Touch LSIG 4p WMP (Moving Part)	ABB	No.	1
ii	1SDA073916R1	E4.2N W FP lu=4000 or V version 4p HR HR (Fixed Part)	ABB	No.	1
iii	1SDA073674R1	Shunt Open Release YO E1.2.E6.2-XT7-XT7M 220-240V AC/DC	ABB	No.	1
iv	1SDA073687R1	Shunt Close Release YC E1.2.E6.2-XT7M 220-240V AC/DC	ABB	No.	1
v	1SDA073711R1	Spring Charged Motor M E1.2 220-250V AC/DC	ABB	No.	1
vi	1SYS272012R0064	6A DP MCB (10KA)	ABB	No.	1
vii	EPLR240A	On / Off/ Trip Indicating Lamps (R,G,A)		No.	3
viii	EPLR240A	Phase Indicating Lamps (RYB)		No.	3
ix	4000A ACB Retro Fitting with Aluminium Busbar, Accessories & Complete work			No.	1
<b>SITC OF ADAPTER PANEL FOR LT-1, LT-2 &amp; DG O/G PANEL WITH BUSBAR &amp; ALL REQUIRED ACCESSORIES AS REQUIRED IN ALL COMPLETE WORK</b>					
2	Retrofitting of Adaptor Panel for 4000A ACB Feeder with Aluminium Busbar & Complete Work (Panel Dimension : H - 2050 mm, W - 1100/900 mm, D - 400 mm)			No.	3

**Executive Engineer (Elect.)**

### Technical Bid (Eligibility Criteria)

The scanned copies of the following mandatory documents to be uploaded on e-Tendering Portal in the following format.

Sl. No.	Details/ Particulars	Uploaded (Yes/No)	Page No.
(A)	Submitting Earnest Money Deposit.		
(B)	Proforma – III, IV, VI duly filled in and signed with stamp.		
(C)	Certificates of Work Experience to be issued by the officer of the rank not below Executive Engineer.		
(D)	Certificate of Registration for GST and acknowledgement, up to date filed return if required		
(E)	Attested Copies of PAN No.		
(F)	Copies of Profit/ Loss statement and Balance sheet of last five years		
(G)	Copies of Contractor's Valid Electrical License (MV and above). Refer eligibility criteria point no. 6.		
(H)	The Bidder(s) should have their Registered Office/Branch in Bhubaneswar. If not, an Office should be opened in Bhubaneswar within 30 (Thirty) Days of the award of Work. Details of Address Proof of Office located at Bhubaneswar should be given to EE(Elect.)		
(I)	Declarations to be given by the Tenderer(s) (as per Page 41).		
(J)	Profit/Loss : The bidder should not have incurred any loss (Profit after Tax should be positive ) in more than two years during available the last five consecutive balance sheet , duly audited and certified by Chartered Accountant.		
(K)	Each page of the e-tender documents should be duly signed with seal otherwise the bid shall become invalid.		
(L)	Affidavit as per <b>Proforma-VII</b>		
(M)	<i>Scanned copy of original solvency to be uploaded.</i>		
(N)	Tender Specific OEM Certificate		
(O)	Annual turn over certificate of last 3 years		

**PROFORMA OF SCHEDULES - F (ELECTRICAL)**

**SCHEDULE 'A'**

Schedule of quantities : **Attached**

**SCHEDULE 'D'**

Extra schedule for specific requirements/  
document for the work, if any. : **Nil**

**SCHEDULE 'E'**

Reference to General Conditions of contract : CPWD General Conditions of Contract 2023 (Construction) modified and amendment up to the last date of submission of tender.

**Name of work** : **Supply, Installation, Testing And Commissioning Of New Lt Panel For 3 IPD Chiller Plant At Hospital Complex, AiiMS Bhubaneswar.**

Estimated cost of work : **₹ 2,28,20,913.00**  
(i) Earnest money : 2% of estimated value.  
(ii) Performance Guarantee : 5% of tendered value.  
(iii) Security Deposit : 2.5% of tendered value.

**SCHEDULE 'F'**

**GENERAL RULES & DIRECTIONS:**

Officer inviting tender : **Executive Engineer (Electrical), AIIIMS Bhubaneswar on behalf of Executive Director AIIIMS Bhubaneswar.**

Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2 & 12.3. : See below

**Definitions:**

**2(v) Engineer-in-Charge** : **Executive Engineer, AIIIMS Bhubaneswar (Odisha)**

**2(viii) Accepting Authority** : **Executive Director, AIIIMS Bhubaneswar (Odisha)**

**2(x) Percentage on cost of materials and labour to cover all overheads and profits.** : **15%**

**2(xi) Standard Schedule of Rates** : **As per Market Rates and DSR -2023**

**2(xii) Department** : **Engineering Department, AIIIMS Bhubaneswar.**

**9(ii) Standard CPWD contract Form** : **GCC 2023 (Construction) & CPWD Form-7 as**

**modified & corrected up to last date of receipt of Bid/tender.**

### CLAUSE 1

- (i) Time allowed for submission of Performance Guarantee, Thereof from the date of issue of letter of acceptance : **15 Days**
- (ii) Maximum allowable extension with late fee @ 0.1% per day of Performance Guarantee amount beyond the period Provided in (i) above : **15 Days**

### CLAUSE 2

Authority for fixing compensation under clause 2 : Executive Director, AIIMS Bhubaneswar.

### Clause 2A

Whether Clause 2A shall be applicable : **NA**

### CLAUSE 5

Number of days from the date of issue of letter of acceptance for reckoning date of start : **15 Days**

Time allowed for execution of work – : **4 Months**

#### Authority to decide:

- (i) Extension of time : Executive Engineer, AIIMS Bhubaneswar
- (ii) Rescheduling of mile stones : Superintending Engineer/ Executive Director, AIIMS Bhubaneswar
- (iii) Shifting of date of start in case of delay in handing over of site : Superintending Engineer/ Executive Director, AIIMS Bhubaneswar

### PROFORMA OF SCHEDULES

#### CLAUSE 5

Schedule of handing over of site

Part	Portion of Site	Description	Time Period for handing over reckoned from date of Completion
Part A	Portion without any hindrance	All works	15 days
Part B	Portions with encumbrances	NA	NA
Part C	Portions dependent on work of other agencies	NA	NA

**CLAUSE 6A applicable : Yes**

#### CLAUSE 7 A

Whether clause 7A shall be applicable : **NA**

**CLAUSE 10A : As required by Engineer-In-Charge**

#### CLAUSE 10B (i)

Whether Clause 10 B (i) shall be applicable : **Not Applicable**

#### CLAUSE 10C

Component of labour expressed as percent of value of work : **Applicable**

**CLAUSE 10CC : Not Applicable**

#### Clause 11

Specifications to be followed for

execution of work : (i) CPWD Specifications General Specifications for Electrical Works - Internal - 2024 with modification up to last date of tender submission. (ii) CPWD general specifications for electrical works, part-IV 2013, substation work. (iii) CPWD Specification Volume-I and II 2019 for civil work

**CLAUSE 12**

Authority to decide deviation : **Executive Director, AIIMS Bhubaneswar**

**12.2&12.3**

Deviation Limit beyond which clauses

12.2 & 12.3 shall apply for building work : 100%,

**12.5**

(i) Deviation Limit beyond which clauses

12.2 & 12.3 shall apply for foundation work

(except items mentioned in earth work subhead in DSR and related items) : N/A

(ii) Deviation Limit for items mentioned in earth

work subhead of DSR and related items : N/A

**CLAUSE 16**

Competent Authority for deciding reduced rates. : Superintending Engineer

**CLAUSE 18**

List of mandatory machinery, tools & plants to be deployed by the contractor at site : As required by Engineer -in- Charge

**CLAUSE 19 C**.....Engineer- in charge

**CLAUSE 19 D**..... Engineer- in charge

**CLAUSE 19 G** ..... Engineer- in charge

**CLAUSE 19 K** ..... Engineer- in charge

**CLAUSE 25** ..... (i) **Conciliator-** Dispute Redressal Committee (DRC) to be constituted by Executive Director, AIIMS, Bhubaneswar

(ii) Arbitrator appointing authority- **Executive Director, AIIMS, Bhubaneswar**

(iii) **Place of Arbitration- Bhubaneswar**

**CLAUSE 32** : **Applicable**

**Requirement of Technical Representative(s) and recovery Rate**

SNo	Minimum Qualification of Technical Representative	Discipline	Designation (Principal Technical / Technical representative)	Minimum experience	Number	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of Clause 32(i)	
						Figures	Words
1	Graduate Engineer	Electrical	Principal Technical Representative	2 - years	ONE	Rs. 15,000/- PM	Rupees Fifteen Thousand Per Month each
OR	Diploma Engineer	Electrical	(Project Planning/ Site/ billing Engineer)	5-years	ONE	Rs.15000/- PM.	Rupees Fifteen Thousand Per Month each

Assistant Engineers retired from Government services that are holding Diploma will be treated at par with Graduate Engineers. Diploma holder with minimum 10 year relevant experience with a reputed construction co. can be treated at par with Graduate Engineers for the purpose of such deployment subject to the condition that such diploma holders should not exceed 50% of requirement of degree engineers.

**CLAUSE 38** : **Not Applicable**

**List of Mandatory Documents to be filled in by the bidders in various forms to be scanned and uploaded within the period of bid submission**

1	OEM Authorization certificate.
2	Scanned Copy of EMD (Original to be submitted as mentioned in Information and Instructions for Bidders for e-Tendering)
3	Letter of transmittal (Annexure-A)
4	Vendor Details as per (Annexure-B)
5	Structure & Organization (Annexure-C)
6	Declaration by Bidder (Annexure-D)
7	Consent Letter (Annexure-E)
8	Self Certification under Preference to “MAKE IN INDIA” Policy (Annexure –F)
9	GST Registration Certificate
10	Proof of Average Annual Financial Turnover should be at least 50% of the estimated cost put to tender during the immediate last three consecutive financial years (Proforma III)
11	Details of The Similar Works Completed In Last Seven Years (Performa-IV)
12	Details of ongoing/existing works (Proforma-VI)
13	Affidavit on non-judicial paper of Rs. 100/- duly attested by Notary/ Magistrate for PAST CONTRACTUAL PERFORMANCE (Proforma-VII)
14	Valid Electrical License (MV or Above)
15	Attested Copies of PAN No.
16	Submit 3 years IT return till Assessment year 2024-25.
17	The Bidder should have their Registered Office/Branch in Bhubaneswar. If not, an Office should be opened in Bhubaneswar within 30 (Thirty) Days of the award of Work. Details of Address Proof of Office located at Bhubaneswar should be given to EE(Elect).

**Manufacturers' Authorization Form**

To;

The Executive Director  
All India Institute of Medical Sciences  
AIIMS, Bhubaneswar

**Tender No :**

**Dated :**

**E-Tender for the work of : "Supply, Installation, Testing And Commissioning Of New Lt Panel For 3 IPD Chiller Plant At Hospital Complex, Aiims Bhubaneswar."**

**Equipment Name :** Electrical Panel, Busduct

**Dear Sir/Madam;**

1. We \_\_\_\_\_ (Name of the OEM) are the original manufacture of the above equipment having registered office at \_\_\_\_\_ (full address with telephone No/Fax \_\_\_\_\_ do hereby declares to give required support to \_\_\_\_\_ through M/S \_\_\_\_\_, who is participating in Tender having No \_\_\_\_\_ of AIIMS, Bhubaneswar.

2. We also hereby declare that we have the capacity to provide the spare parts of the equipment within the stipulated time and also provide service to it.

Name :  
For and on behalf of M/S \_\_\_\_\_  
Faithfully,

Yours  
  
(Name)  
(Name of the Manufacturers)

Place :

Date :

**Note :** This letter of authority should be on the letter head of the OEM and Shall be signed by a Authorized person from OEM of **Siemens/ ABB/ Schneider for Panel and Schneider/ Legrand/ Godrej for Busduct.**

(Annexure-A)

**LETTER OF TRANSMITTAL**

From:

To

The Executive Engineer,  
AIIMS, Bhubaneswar (Odisha)**Subject:** Submission of bids for the work of “Supply, Installation, Testing And Commissioning Of New Lt Panel For 3 IPD Chiller Plant At Hospital Complex, Aaims Bhubaneswar.”

Sir,

Having examined the details given in the bid document for the above work, I/we hereby submit the relevant information.

1. I/we hereby certify that all the statement made and information supplied in the enclosed forms A to H and accompanying statement are true and correct.
2. I/we have furnished all information and details necessary for eligibility and have no further pertinent information to supply.
3. I/we authorize Engineer-In-Charge or his representative to approach individuals, employers, firms and corporation to verify our competence and general reputation.
4. I/we submit the requisite certified net worth or solvency certificate and authorize the Executive Engineer, AIIMS, Bhubaneswar to approach the Bank issuing the solvency certificate to confirm the correctness there of. I/we also authorize the Executive Engineer, AIIMS, Bhubaneswar to approach individuals, employers, firms and corporation to verify our competence and general reputation.
5. I/we submit the following certificates in support of our suitability, technical knowledge and capability for having successfully completed the following eligible similar works:

Name of work	Certificate from

**Certificate: It is certified that the information given in the enclosed eligibility bid are correct. It is also certified that I / We shall be liable to be debarred, disqualified / cancellation of enlistment in case any information furnished by me / us is found to be incorrect.**

Enclosures:

Date of submission:

Signature(s) of Bidder(s)  
Seal of bidder

**Annexure-B****FORM FOR DETAILED INFORMATION BY BIDDER**  
**(Vendor Details)**

1.	Name of the Bidder	
2.	Permanent Account No (PAN)	
3.	Particulars of Bank Account	
4.	a) Name of the Bank	
	b) Account Number	
	c) Name of the Branch	
	d) Branch Code	
	e) Address	
	f) City Name	
	g) Telephone No	
5.	Legal status of the bidder (attach copies of original document defining the legal status)	
	a) An Individual	
	b) A proprietary firm	
	c) A firm in partnership	
	d) A limited company or Corporation	
6.	GST Registration Certificate No	
7.	Valid Email ID of the Bidder	
8.	Complete Postal Address of the bidder	

**Annexure-C****STRUCTURE & ORGANISATION**

1. (a) Name
  - (b) Address of the bidder
2. (a) Telephone no.
  - (b) Telex no.
  - (c) Fax no.
  - (d) E-mail
3. Legal status of the bidder (attach copies of original document defining the legal status)
  - (a) An Individual
  - (b) A proprietary firm
  - (c) A firm in partnership
  - (d) A limited company or Corporation
4. Particulars of registration with various Government Bodies if any (attach attested photocopy)  
**Organization/Place of registration Registration No.**
  - 1.
  - 2.
  - 3.
5. Names and titles of Directors & Officers with designation to be concerned with this work.

**Signature of Bidder(s) with Seal****Annexure-D****DECLARATION**

It is to certify that:

- 1) I/We agree with the terms and conditions of it and understood that it will form part of the agreement.
- 2) I hereby certify that none of my Relative(s) are employed in AIIMS Bhubaneswar, Odisha. In case at any stage, it is found that the information given by me is false/incorrect, AIIMS shall have the absolute right to take any action as deemed fit without any prior intimation to me”.
- 3) I/We undertake and confirm that eligible Work(s) has/have not been got executed through another contractor on back to back basis. Further, it is stated that, if such a violation comes to the notice of Department, than I/We shall be debarred for bidding in AIIMS in future forever. Also, if such a violation comes to the notice of AIIMS, Bhubaneswar before date of start of work, the Engineer-In-Charge shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee.
- 4) I / We have signed (with stamp) uploaded documents of the tender before submitting the same.
- 5) All the information and documents given/ uploaded for bids are true.
- 6) I / We have provided our e-Mail id for any communication in this regard.
- 7) I have read carefully & understood the important instructions to the all bidders.

Date.....

E-Mail: \_\_\_\_\_

Contractor  
(Sign with Seal)

**(Annexure-E)****CONSENT LETTER**

**“Supply, Installation, Testing And Commissioning Of New Lt Panel For 3 IPD Chiller Plant At Hospital Complex, Aiiims Bhubaneswar.”**

I/We hereby give my/ our consent to work as contractor till the completion of work and I/we will be responsible for execution of work only by skilled persons in the field of **related work** as per satisfaction of Engineer-In-Charge.

I/We have experience to technically execute, take measurements and will produce computerized measurement sheets of work before covering hidden work / job and other exposed works in time as per clause 6 otherwise measurement will be recorded by the representative of Engineer-In-Charge which will be bound to me. Final measurement with bill will be produced by me/us within one month after completion date otherwise representative of Engineer-In-Charge will prepare the same which will be acceptable and bound to me/us and no any claim in this regard will be made by me/us.

I/We will provide all invoices and related test certificates of materials as required by E-In-C. All Analysis of rates for Extra, Deviation items etc. will be produced by me/us in consultation with representative of Engineer-In- Charge on time for getting approval from Competent Authority of AIIMS before execution of work or otherwise the same will be prepared by the department and will be bound to me/us.

I/we will also engage suitable and skill Engineer(s) for the work as per Clause 32 of General Condition of Contract.

I further certify that the above particulars pertaining to me are correct.

I/We will produce all uploaded documents in original for physical verification before issue of Letter of Acceptance or / and as demanded by Engineer-In Charge before the payment.

I/We will submit “No Claim Certificate” in the approved format in company letter head after receiving final bill payment.

**Signature of contractor with seal**

## ANNEXURE-F

**Self Certification under Preference to “MAKE IN INDIA” Policy****CERTIFICATE**

In line with Government Public Procurement Order No. P-45021/2/2017-BE-II dt. 15/06/2017, its revision dated 04/06/2020 and any subsequent modifications/Amendments from time to time and as applicable on the date of submission of tender, we hereby certify that we \_\_\_\_\_ (Name of Contractor/Firm/ Agency) are local Contractors and will meet the requirement of minimum Local content (50%) as defined in above orders for the material against Tender No \_\_\_\_\_, if selected as Lowest Bidder.

Details of location at which local value addition will be made is as follows:

-----

-----

The information furnished hereinafter is correct to the best of my knowledge and belief and I undertake to produce relevant records before the procuring entity or any other Government authority for the purpose of assessing the local content of goods/services/works supplied by me.

In the event of the local content of the goods/services/works mentioned herein is found to be incorrect and not meeting the prescribed supplier class categorization criteria as per said order, based on the assessment of procuring agency(ies)/Government Authorities for the purpose of assessing the local content, action shall be taken against me in line with the PPP-MII order and provisions of the Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rule for which for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.

Thanking You

Seal and Signature of Authorized Signatory

**PROFORMA-III**

Date: \_\_\_\_\_

I. Financial Analysis – Details to be furnished duly supported by figures in balance sheet/profit & loss account for the last three financial years duly certified by the Chartered Accountant, as submitted by the applicant to the Income Tax Department (Copies to be attached).

<b>Financial Years</b>	<b>2021-22</b>	<b>2022-23</b>	<b>2023-24</b>
<b>Gross Annual Turn over</b>			

- (i) Gross Annual Turn Over on construction works.
- (ii) Profit/Loss.

II. Financial arrangements for carrying out the proposed work.

**Signature of Bidder (s)**

**PROFORMA-IV****DETAILS OF ELIGIBLE SIMILAR NATURE OF WORKS COMPLETED DURING THE  
LAST SEVEN YEARS ENDING PREVIOUS DAY OF LAST DAY OF SUBMISSION OF  
TENDERS**

Ser. No.	Name of the Work/Project and Location	Owner or sponsoring organization	Cost of work in corers of rupees	Date of commencement as per contract	Stipulated date of completion	Actual date of completion	Litigation/ arbitration cases pending/ in progress with details*	Name and address/telephone No of officer to whom reference may be made	Whether work was done on back to back basis Yes/No
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(j)	(k)
1.									
2.									
3.									
4.									
5.									
6.									
7.									

**\*Indicate gross amount claimed and amount awarded by the Arbitrator.**

**Note:**

**1. The Bidder shall submit the attested Copies of the Completion Certificates from the Client i.e. Department(s) of Govt./Semi Govt./PSU/Autonomous Bodies of Govt..**

**Signature of Bidder(s)**

**PROFORMA-VI****DETAILS OF ON-GOING/EXISTING WORKS**

<b>Ser. No.</b>	<b>Name of the Work/Project and Location</b>	<b>Owner or sponsoring organization</b>	<b>Cost of work in corers of rupees</b>	<b>Date of commencement as per contract</b>	<b>Stipulated date of completion</b>	<b>Anticipated date of Completion of work</b>	<b>Any other Relevant information</b>
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1.							
2.							
3.							
4.							
5.							
6.							
7.							

**Note:**

**1. The Bidder shall submit the attested Copies of the Completion Certificates from the Client i.e. Department(s) of Govt./Semi Govt./PSU/Autonomous Bodies of Govt..**

**Signature of Bidder(s)**

**PROFORMA-VII****AFFIDAVIT**

(To be submitted on Rs. 10/- Indian Non-Judicial Stamp Paper)

I/We hereby certify that, the above firm has not been ever blacklisted by any Central/State Government/Public Undertaking/Institute on any account.

I/We also certify that, Firm will supply the item(s) as per the specification given by Institution and also abide all the Terms & Conditions stipulated in Tender.

I/We also certify that, the information given in Bid is true and correct in all aspects and in any case at a later date, it is found that any details provided are false and incorrect, any contract given to the concerned firm or participation may be summarily terminated at any state, the firm will be blacklisted and Institute may impose any action as per e-Tender Rules.

*“I/We undertake and confirm that eligible similar works(s) has/have not been got executed through another Agency 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 Performance Guarantee”.*

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 Slip No.6 as available on website [www.eprocure.gov.in](http://www.eprocure.gov.in) / [www.aiimsbhubaneswar.edu.in](http://www.aiimsbhubaneswar.edu.in) or in the office of Superintendent 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, ..... S/o Shri ..... resident of ..... hereby certify that none of my Relative(s) as defined in Paragraph 14 of CPWD W-6 is/are employed in AIIMS Electrical Zone, Odisha. In case at any stage, it is found that the information given by me is false/incorrect, AIIMS shall have the absolute right to take any action as deemed fit without any prior intimation to me”.

**Date:** \_\_\_\_\_

**Signature of the Tenderer**

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

- (c) “I/We undertake and confirm that eligible similar Work(s) has/have not been got executed through another Agency on back to back basis. Further, it is stated that, if such a violation comes to the notice of Department, then I/We shall be debarred for bidding in AIIMS in future forever. Also, if such a violation comes to the notice of AIIMS, Bhubaneswar before date of start of work, the Superintending Engineer shall be free to forfeit the entire amount of Performance Guarantee”.

**Date:** \_\_\_\_\_

**Signature of the Tenderer**

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

**BIDDERS UNDERTAKING**

E-Tender for the work of: Tender for “**Supply, Installation, Testing And Commissioning Of New Lt Panel For 3 IPD Chiller Plant At Hospital Complex, Aiims Bhubaneswar.**”

To be submitted online by:

**TENDER**

I/We have read and examined the notice inviting tender, schedule, A,B,C,D,E & F, specifications applicable, Drawings & Designs, General Rules and Directions, Conditions of Contract, clauses of contract, Special conditions, Schedule of Rate & other documents and Rules referred to in the conditions of contract and all other contents in the tender document for the work.

I/We hereby tender for the execution of the work specified for the AIIMS Bhubaneswar within the time specified in Schedule 'F', viz., schedule of quantities and in accordance in all respects with the specifications, designs, drawings and instructions in writing referred to in Rule-1 of General Rules and Directions and in Clause 11 of the Conditions of contract and with such materials as are provided for, by, and in respects in accordance with, such conditions so far as applicable.

I/We agree to keep the tender open for **One Hundred Eighty (180) days** from the due date of opening of financial bid and not to make any modification in its terms and conditions.

A sum of **Rs.....** is hereby forwarded in Receipt Treasury Challan/ Deposit at Call Receipt of a Scheduled Bank/ Fixed Deposit Receipts of a Scheduled Bank/ Demand Draft of a Scheduled Bank/ Bank Guarantee issued by a Scheduled Bank as earnest money. A copy of the earnest money in Receipt Treasury Challan/ Deposit at Call Receipt of a Scheduled Bank/ Fixed Deposit Receipts of a Scheduled Bank/ Demand Draft of a Scheduled Bank/ Bank Guarantee issued by a Scheduled Bank is submitted with tender. If I/We, fail to furnish the prescribed performance guarantee within prescribed tender, I/we agree that the said President of India or his successors, in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I/We fail to commence work as specified, I/We agree that President of India or his successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said performance guarantee absolutely. The said Performance Guarantee shall be guarantee to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the General Conditions of Contracts (CPWD). Further, I/we agree that in case of forfeiture of earnest money or performance guarantee as aforesaid, I/We shall be debarred for participation in the re-tendering process of the work.

I/We undertake and confirm that eligible similar work(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 tendering in AIIMS Bhubaneswar 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 Deposited / Performance Guarantee.

I/We hereby declare that I/we shall treat the tender documents drawings and other records connected with the work as secret/confidential documents and shall not communicate information/derived therefrom to

any person other than a person to whom I/We am/are authorized to communicate the same or use the information in any manner prejudicial to the safety of the State.

Dated.....

Signature of Contractor  
Postal Address

Witness:

e-Mail id

Address:

Occupation:

(To be filled in by the contractor/witness as applicable)

### ACCEPTANCE

The above tender (as modified vide letters mentioned hereunder) is accepted by me for and on behalf of the AIIMS Bhubaneswar for a sum of ₹. \_\_\_\_\_ \* \_\_\_\_\_

(Rupees \_\_\_\_\_ \* \_\_\_\_\_ )

The letters referred to below shall form part of this contract Agreement:-

a) \_\_\_\_\_ \*

b) \_\_\_\_\_

c) \_\_\_\_\_

For & on behalf of the AIIMS Bhubaneswar.

Signature.....

Dated .....

Designation.....

## FORM OF EARNEST MONEY DEPOSIT

### (Bank Guarantee Bond)

WHEREAS, contractor..... (Name of contractor) (Hereinafter called "the contractor") has submitted his tender dated..... (date) for the construction of ..... (name of work) (hereinafter called "the Tender")

KNOW ALL PEOPLE by these presents that we ..... (name of bank) having our registered office at ..... (Hereinafter called "the Bank") are bound unto ..... (Name and division of Executive Engineer) (hereinafter called "the Engineer-in-Charge") in the sum of Rs. .... (Rs. in words ..... ) for which payment well and truly to be made to the said Engineer-in-Charge the Bank binds itself, his successors and assigns by these presents.

SEALED with the Common Seal of the said Bank this .....day of ..... 20... . THE CONDITIONS of this obligation are:

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

(2) If the contractor having been notified of the acceptance of his tender by the Engineer-in-Charge:

(a) fails or refuses to execute the Form of Agreement in accordance with the Instructions to contractor, if required; OR

(b) fails or refuses to furnish the Performance Guarantee, in accordance with the provisions of tender document and Instructions to contractor,

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

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

DATE .....SIGNATURE OF THE BANK

WITNESS .....

SEAL (SIGNATURE, NAME AND ADDRESS)

\*Date to be worked out on the basis of validity period of 6 months from last date of receipt of tender.

## FORM OF PERFORMANCE SECURITY (BANK GUARANTEE)

To  
 EXECUTIVE ENGINEER (Electrical),  
 AIIMS BHUBANESWAR,  
 SIJUA, DUMUDUMA,  
 BHUBANESWAR-751019

1. In consideration of the Executive 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 Agency(s)") for the work (hereinafter called "the said agreement}") having agreed to production of an irrevocable Bank Guarantee for Rs. (Rupees only) as a security/ guarantee from the Agency(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 Agency(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 Agency (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 Agency (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 Agency (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 Agency(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 Agency (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 Agency (s) or for any forbearance, act of omission on that part of the Government or any indulgence by the Government to the said Agency (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 Agency (s). We lastly undertake not to revoke this (Indicate the name of Bank) guarantee except with the previous consent of the Government in writing.
8. 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 \_\_\_\_\_

**NO CLAIM CERTIFICATE**

(On company letterhead)

To,  
 Executive Engineer (Electrical),  
 AIIMS, Bhubaneswar

Name of Work :

Agreement No. :

Workorder No. :

Sub: No claim declaration / certificate

We have claimed the sum of Rs. (Rupees ..... only) as full and final settlement of all the payments due for the above stated work under the above-mentioned contract agreement, between us and AIIMS, Bhubaneswar. We hereby unconditionally, and without any reservation whatsoever, certify that with this payment, we shall have no claim whatsoever, of any description, on any account, against Procuring Entity, against aforesaid contract agreement executed by us. We further declare unequivocally, that with this payment, we have received all the amounts payable to us, and have no dispute of any description whatsoever, regarding the amounts worked out as payable to us and received by us, and that we shall continue to be bound by the terms and conditions of the contract agreement, as regards performance of the contract.

Yours faithfully,

Signatures of contractor

or Officer authorised to sign the contract documents

on behalf of the contractor

(Company stamp)

Date: .....

Place: .....

**WORK COMPLETION**

(On company letterhead)

To,  
Executive Engineer (Electrical),  
AIIMS, Bhubaneswar

Name of Work :

Agreement No. :

Workorder No. :

Sub: Work Completion certificate.

Certify that the work is completed on \_\_\_\_\_ as per term and conditions of work order and no defect are present. No surplus material or garbage are available at this site of our work.

Yours faithfully,

Signatures of contractor

Date:

Place:

## PBG Release Certificate

(On company letterhead)

To,  
Executive Engineer (Electrical),  
AIIMS, Bhubaneswar

Name of Work :

Agreement No. :

Workorder No. :

Sub: Release of PBG submitted against the work.

Dear Sir,

With reference to above cited workorder for the job “**Supply, Installation, Testing And Commissioning Of New Lt Panel For 3 IPD Chiller Plant At Hospital Complex, Aiims Bhubaneswar.**” has been completed. We request you to release our PBG submitted against the job, for which we will be grateful to you.

Yours faithfully,

Signatures of contractor

Date:

Place:

## SD Release Certificate

(On company letterhead)

To,  
Executive Engineer (Electrical),  
AIIMS, Bhubaneswar

Name of Work :

Agreement No. :

Workorder No. :

Sub: Release of SD deducted against the work.

Dear Sir,

With reference to above cited workorder for the job “**Supply, Installation, Testing And Commissioning Of New Lt Panel For 3 IPD Chiller Plant At Hospital Complex, Aiims Bhubaneswar.**” has been completed. We request you to release our SD submitted against the job, for which we will be grateful to you.

Yours faithfully,

Signatures of contractor

Date:

Place:

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

This Agreement is made at.....on this.....day of.....2025.

**BETWEEN**

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. **AIIMS/BBSR/ENGG/ELECT//2025**) (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 New Lt Panel For 3 IPD Chiller Plant At Hospital Complex, Aiims Bhubaneswar.**” herein after 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 processor the Contract execution.

(c) The Principal/Owner shall endeavor to exclude from the Tender process any person, whose conduct in the past has been of biased nature.

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

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

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

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

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

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

(c) The Bidder(s)/Contractor(s) will not commit any offence under the relevant IPC/PC Act. Further the Bidder(s)/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 be fall upon a person, his/her reputation or property to influence their participation in the tendering process).

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

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

1. If the Bidder(s)/Contractor(s), either before award or during execution of Contract has committed a

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

2. **Forfeiture of 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 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 been unmade.

3. If the Contractor is a partnership or a consortium, this Pact must be signed by all the partners or by one or more partner holding power of attorney signed by all partners and consortium members. In case of a Company, the Pact must be signed by a representative duly authorized by board resolution.
4. should one or several provisions of this Pact turnout to be invalid; the remainder of this Pact remains valid. In this case, the parties will strive to come to an agreement to their original intensions.
5. It is agreed term and condition that any dispute or difference arising between the parties with regard to the terms of this Agreement/Pact, any action taken by the Owner/Principal in accordance with this **Agreement/Pact or interpretation thereof shall not be subject to arbitration.**

#### **Article - 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.

#### **Article – 9: Terms And Conditions of Payment**

- a. The payments for the work shall be released by AIIMS, Bhubaneswar as foolowing manner:-
  - i. 60 % of amount will be released after Supply of Panel and Busduct at site.
  - ii. 40 % of amount will be released after installation, testing and commissioning .
- b. The vendor shall submit the documents along with the bill .
  - (i) Delivery Challan of all the material supplied.
  - (ii) Test Certificate of Equipment.
  - (iii) Bank Account details/ e-payment details of the vendor.
  - (iv) Warranty/Guarantee Certificate if applicable.
  - (v) GST return up-to-date Voucher.
  - (vi) Colour Photos for Executed work on glossary paper.
  - (vii) Noclaim certificate (Final bill)
- c. The Security Deposit @ 2.5% of gross amount of the bill shall be deducted from the bills, which shall be released after successful completion of warrenty Period i.e. Two year from the date of completion of work, without any interest thereupon.
- d. The Income Tax as application shall be deducted from the bills unless exempted by the Income Tax Department.
- e. In case of any failure of / delay in services the penalty shall be invoked as per Clause-2 of GCC of CPWD works-2020, by the as per schedule F.
- f. All melba/rubbish/waste, garbage etc generated due to any operation and maintenance work, the same shall be disposed of by the Agency to the authorized municipal dumping ground and nothing extra shall paid on this account. In case of non-removal/disposal in the specified period, a compensation of **₹ 1000/- (Rupee One Thousand only) per day** shall be recovered from the Agency.
- g. The Agency shall maintain the installations clean and tidy inside as well as around the installations and buildings. No rags and waste etc. shall be thrown near the building. This shall be deposited in the dustbins provided nearby. If Substation area mention in the scope is found untidy a lump sum amount **(Rs. 1000/- per day)** will be deducted from the Agency's bill.

#### **The other terms and conditions stated below: -**

- (a) All the Terms & conditions of the Tender document will form as the part of this Agreement.
- (b) The agency shall be solely responsible for compliance to provisions of various Labour, Industrial and any other Laws applicable and all Statutory Obligations such as Wages, Allowances,

Compensations, EPF, Bonus, Gratuity, ESI etc. relating to personnel deployed in AIIMS, Bhubaneswar. The client shall have no liability in this regard.

- (c) The Agency shall be solely responsible for any Accident/Medical/Health related Liabilities/Compensation for the personnel deployed at it at AIIMS, Bhubaneswar site. The Client shall have no liability in this regard.
- (d) Any violation of Instructions/Agreement or Suppression of facts will attract cancellation of Agreement without any reference or any notice period.
- (e) The Contract can be terminated by giving 01 (One) Month Notice by the AIIMS, Bhubaneswar.
- (f) In case of Non-Compliance with the contract, the Client reserves its right to: -
- (i) Cancel/Revoke the contract; **and/or**
- (ii) Impose penalty up to 10% of the total Annual Value of Contract.
- (g) Performance Security of 5 % of the Annual Contract Value, whichever is higher in the form of Fixed Deposit Receipt or Bank Guarantee form a scheduled Bank shall be furnished by the Agency at the time of signing of the Agreement.
- (h) The personnel provided by the Agency will not claim to become the employees of AIIMS, Bhubaneswar and there will be no employee and Employer relationship between the personnel engaged by the Agency & AIIMS, Bhubaneswar.
- (i) There would be no increase in rates payable to the Agency during the Contract Period except any revision by the MoH & FW, Govt. of India.
- (j) The Agency also agrees to comply with annexed Terms & Conditions of the Tender and amendments thereto from time to time.
- (k) Decision of Client in regard to interpretation of the Terms & Conditions of the Tender shall be final and binding on the Agency.
- (l) The Agency shall ensure full compliance with Tax Laws of India with regard to this contract and shall be solely responsible for the same. The Agency shall keep Client fully indemnified against liability of Tax, Interest, Penalty and any other legal Liability etc. of the Agency in respect thereof, which may arise. No Service Tax will be paid by AIIMS, Bhubaneswar. The Books of Accounts of the Agency as regards this outsourcing work shall be open for examination by the Institute as and when required.
- (m) In case of any dispute between the Agency and Client, Client shall have the right to decide. However, all matters of jurisdiction shall be at the Local Courts of Bhubaneswar.
- (n) THIS AGREEMENT will take effect from the \_\_\_\_\_ day of \_\_\_\_\_ Month of \_\_\_\_\_ 2025(Two Thousand Twenty-five) and shall be valid till completion of work.

This day of \_\_\_\_\_ 2025, both the parties here to have caused their respective common seals to be hereunto affixed (or have hereunto set their respective hands and seals) the day and year mentioned above in Bhubaneswar in the presence of the witness: -

For and on behalf of the 'AIIMS, Bhubaneswar'

For and on behalf of the 'Agency'

Signature of the Authorized Official

Signature of the Authorized Official

(Name of the Official with Seal)

(Name of the Official with Seal)

By the said \_\_\_\_\_  
\_\_\_\_\_ (Name)  
\_\_\_\_\_ on behalf of 'Agency'  
in presence of Witness \_\_\_\_\_  
Name \_\_\_\_\_  
Address \_\_\_\_\_

By the said \_\_\_\_\_  
\_\_\_\_\_ (Name)  
\_\_\_\_\_ on behalf of  
'Agency'  
in presence of Witness \_\_\_\_\_  
Name \_\_\_\_\_  
Address \_\_\_\_\_

**BANKERS CERTIFICATE FROM A SCHEDULED BANK**

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

This certificate is issued without any guarantee or responsibility on the Bank or any of the officers.

**(Signature) For the Bank**

**NOTE**

1. Bankers Certificates should be on letter head of the Bank, addressed to tendering authority.
2. In case of Partnership firm, certificate should include names of all partners as recorded with the Bank.

## PERFORMANCE REPORT OF WORKS REFERRED TO IN FORMS 'C'

1. Name of work/project & Location:
2. Agreement No:
3. Estimated Cost:
4. Tendered Cost:
5. Date of Start:
6. Date of completion:
  - (i) Stipulated date of completion:
  - (ii) Actual date of completion:
7. Amount of compensation levied for delayed completion, if any:
  - (a) Whether case of levy of compensation for delay has been decided or not - Yes/No
  - (b) If decided, amount of compensation levied for delayed completion, if any:
8. Amount of reduced rate items, if any
9. Performance Report:
  - (1) Quality of work : Outstanding/Very Good/Good/Poor
  - (2) Financial Soundness : Outstanding/Very Good/Good/Poor
  - (3) Technical Proficiency : Outstanding/Very Good/Good/Poor
  - (4) Resourcefulness : Outstanding/Very Good/Good/Poor
  - (5) General Behaviour : Outstanding/Very Good/Good/Poor

**Dated :**

**Executive Engineer or Equivalent**

## Financial Bid

**Name of Work: - “Supply, Installation, Testing And Commissioning Of New Lt Panel For 3 IPD Chiller Plant At Hospital Complex, Aiiims Bhubaneswar.”**

**NIT No: AIIMS/BBSR/ENGG/ELECT/62/2025**

SI No	Description Of Item	Unit	QTY.	Per Unit Rate	Total Amount
1	<p>Supplying, installation, testing and commissioning of cubical type LT panel suitable for 415V, 3 Phase, 50 Hz AC supply system fabricated in compartmentalized (preferably) design from CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates including cleaning &amp; finishing complete with 7 tank process for powder coating in approved shade, having suitable capacity extensible type TPN Aluminium Alloy bus bars of high conductivity, DMC/ SMC/ FRP bus bar supports, with short circuit withstand capacity of 65KA for 1 Sec., bottom base channel of MS section not less than 100mm x 50mm x 5mm thick, fabrication shall be done in transportable sections, entire panel shall have a common copper earth bar of size 25mm x 5mm at the rear with 2 Nos. earth stud, solid connections from main busbar to switch gears with required size of Al. bus bars and control wiring with 2.5sq. mm. zero halogen fire redundant insulated copper conductor S/C cable, cable alleys, cable gland plates in two half, i/c providing following switch gears. <b>(General arrangement and schematic Drawings and Make to be approved by the Department before start of fabrication).</b></p> <p>All ACB shall have Micro processor based O/C, S/C, &amp; E/F release</p> <p>All MCCB shall have Micro processor based release</p> <p>All CTs and PTs shall be cast resin type.</p> <p>All Breakers (ACBs) shall have LCD Display</p> <p>All ACB's shall have spare wired contacts for On, Off, Trip, racking, rackout spring charge status for SCADA communication along with LCD display and RS485 port for communication.</p> <p>Protection Relays, TVM/MFM shall have RS485 Modbus Communication protocol for SCADA communication</p> <p>(All MCCB shall have adjustable overload, short circuit, earth fault all with adjustable time delays and instantaneous short circuit)</p> <p>Makes:- LT Panel :- ABB (ArTUK)/ Siemens (SIEPAN Elite)/ Schneider (ENSET)/ Schneider (BLOCKSET)</p> <p>ACB(Latest Model Suitable for Integration with SCADA):- ABB/ Schneider/ Siemens</p> <p>MCCB(Microprocessor Based):- ABB/ Schneider/ Siemens</p> <p><b>As per Detail Bill of Material - 1</b></p>	Each	1	₹ 1,02,41,137.00	₹ 1,02,41,137.00

2	<p>Supplying, installing by suspension on ceiling, testing and commissioning of Air Insulated Compact Type/ Sandwich Type Bus Trunking for use on 3 phase 4 wire 415 volts, 50Hz A.C. supply with metal clad enclosure <b>having IP-55 rating after fixing the adapter boxes and all accessories</b>, made of 1.6mm thick steel sheet duly powder coated in convenient sections complete with 4 Nos aluminium bus bars <b>having current density of 130 A/ sq cm at nominal current rating</b>, necessary joints, Phase inversion, elbow joints &amp; expansion joints and bends, fire barrier and copper flexible end connections at both ends Earthing with <b>2 runs of 50 mm x 6 mm copper earth strip</b> as per <b>IEC 61439</b> including necessary supports etc. , G.I. clamping brackets, suspenders, angle iron bracket, steel fasteners, connecting to earthing system etc. as per specifications attached as required.</p> <p>Note:- The bus trunking shall be measured along the length of enclosure. The copper/ aluminium strips which will go inside L.T. panels &amp; end termination boxes of transformers/ panels shall not be taken into measurement of bus trunking quantity.</p> <p>Makes: Busduct - Legrand/ Schneider/Godrej <b>4000 A, Short Circuit Breaking Capacity-160 kA</b> <b>As per Detail Bill of Material - 2</b></p>	MTR	102	₹ 93,764.81	₹ 95,64,011.00
3	<p>Supplying, installation, testing and commissioning of Adapter Panel with Retrofitting Work <b>As per Detail Bill of Material - 3</b></p>	Each	1	₹ 19,06,880.00	₹ 19,06,880.00
4	<p>SITC of Maintenance free chemical earthing of 3-meter length 50 mm dia copper bonded earthing electrode with 50 kg EBFC. Earth pit digging by manually size of earth pit 3feet/2.5 ft X 10 ft depth and providing masonry enclosure with cover plate having locking arrangement complete as required. Electrode - 50MM Copper Cladded Earth 3 mtr length. The thickness of the copper coating will be 250 microns and uniform with tolerance level of 0.1 micron <b>with good soil if required</b></p>	Each	4	₹ 27,411.00	₹ 1,09,644.00
5	<p>Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge. Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)</p>	Cum	10	₹ 2,368.53	₹ 23,685.00
6	<p>Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer incharge. <b>All kinds of soil</b></p>	Cum	75	₹ 172.71	₹ 12,953.00
7	<p>Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.</p>	Cum	4	₹ 2,066.41	₹ 8,266.00
8	<p>Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)</p>	Cum	4	₹ 6,628.08	₹ 26,512.00
9	<p>Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level : <b>Thermo-Mechanically Treated bars of grade Fe-500D or more.</b></p>	Kg	1200	₹ 104.94	₹ 1,25,928.00

10	Centering and shuttering including strutting, propping etc. and removal of form for : <b>Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc.</b>	Sqm	155	₹	819.75	₹	1,27,061.00
11	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:1½:3 (1 Cement: 1½ coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	Cum	15	₹	8,801.51	₹	1,32,023.00
12	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead upto 50 m and lift upto 1.5 m.	Cum	80	₹	190.71	₹	15,257.00
13	Brick work with non modular fly ash bricks conforming to IS:12894, class designation 10 average compressive strength in super structure above plinth level up to floor V level in : <b>Cement mortar 1:4 (1 cement : 4 coarse sand)</b>	Cum	4	₹	8,720.37	₹	34,881.00
14	<b>CEMENT PLASTER (IN COARSE SAND): 12 mm cement plaster of mix : 1:4 (1 cement: 4 coarse sand)</b>	Sqm	24	₹	347.70	₹	8,345.00
15	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) : For fixed portion : <b>Powder coated aluminium (minimum thickness of powder coating 50 micron)</b>	kg	145	₹	516.57	₹	74,903.00
16	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) : For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) : <b>Powder coated</b>	kg	120	₹	617.32	₹	74,078.00

	<b>aluminium (minimum thickness of powder coating 50 micron)</b>				
17	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item): <b>With float glass panes of 5 mm thickness (weight not less than 12.50 kg/sqm)</b>	Sqm	15	₹ 1,464.61	₹ 21,969.00
18	Providing and fixing Brass 100mm mortice latch and lock with 6 levers without pair of handles (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	Each	4	₹ 514.57	₹ 2,058.00
19	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In stringers, treads, landings etc. of stair cases, including use of chequered plate wherever required, all complete	kg	352	₹ 120.26	₹ 42,332.00
20	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	kg	800	₹ 130.09	₹ 1,04,072.00
21	Providing and fixing 25 mm X 5 mm copper strip in 40 mm dia G.I. pipe from earth electrode including connection with brass nut, bolt, spring, washer excavation and re-filling etc. as required.	Mtrs.	100	₹ 1,649.18	₹ 1,64,918.00
<b>Total (inclusive GST)</b>				<b>₹ 2,28,20,913.00</b>	

**PERFORMA FOR QUOTING RATES**

<b>Name of Work:- “Supply, Installation, Testing And Commissioning Of New Lt Panel For 3 IPD Chiller Plant At Hospital Complex, Aiiims Bhubaneswar.”</b>	
<b>e-NIT No: AIIMS/BBSR/ENGG/ELECT//2025</b>	
<b>Total Estimated Amount (including GST) in Rs. - ₹ 2,28,20,913.00</b>	
Name of Contactor -	
Total Estimated Amount of SITC work (including of GST ) in Rs.	<b>₹ 2,28,20,913.00</b>
Percentage above/at par/below the total estimated cost	<i>This is the Sample .Donot quote rate here.</i>
% in words	<i>This is the Sample .Donot quote rate here.</i>
Total Amount Including GST- (Rs.)	<i>This is the Sample .Donot quote rate here.</i>

(Rupees \_\_\_\_\_ *This is the Sample .Donot quote rate here.* \_\_\_\_\_ only)

**Note: -**

- MR = To be read as Market Rate.**
- The Bidder must submit Financial Bid in On-Line Mode.
- I/We have gone through the terms & conditions as stipulated in the tender and confirm to accept and abide the same.
- No other charges would be payable by the Institute
- Quantity mentioned above is tentative, it may increase or decrease as per site requirement.
- Agency has to bring samples as per above preferred brands only and Engineer-In-Charge shall approve one sample out of the samples brought by the Agency. The Agency has to use material of that approved sample only. No claim in this regard shall be entertained.
- In case of non-availability of material of approved make, prior approval from Engineer-In-Charge shall be obtained for another make.
- The quoted should be inclusive of GST as applicable.

I, the contractor certify that I am filling this template after understanding all the items of schedule of Quantity of e-NIT page no.-----

Name : \_\_\_\_\_

Business Address: \_\_\_\_\_

Signature of the Bidder: -

Date : \_\_\_\_\_

Place : Bhubaneswar

Seal of the Bidder \_\_\_\_\_

## E-TENDERING INSTRUCTIONS TO BIDDERS

**General.** The Special Instructions (for e-Tendering) supplement ‘Instruction to Bidders’, as given in this Tender Document. Submission of Online Bids is mandatory for this Tender. E-Tendering is a new methodology for conducting Public Procurement in a transparent and secured manner. Suppliers / Vendors will be the biggest beneficiaries of this new system of procurement. For conducting electronic tendering, AIIMS BHUBANESWAR has decided to use the portal <http://eprocure.gov.in/AIIMSBBBSR> website.

### Instructions.

1. **Tender Bidding Methodology.** Two Stage Online Bidding.
2. **Broad outline of activities from Bidders prospective:**
  - (a) Procure a Class III Digital Signature Certificate (DSC).
  - (b) Register on the e-Procurement portal <http://eprocure.gov.in/AIIMSBBBSR> website.
  - (c) Create Users on the above portal.
  - (d) View Notice Inviting Tender (NIT) on the above portal.
  - (e) Download Official Copy of Tender Documents from the above portal.
  - (f) Seek Clarification to Tender Documents on the above portal. View response to queries of bidders, posted as addendum, by AIIMS, Bhubaneswar.
  - (g) Bid-Submission on the above portal.
  - (h) Attend Public Online Tender Opening Event (TOE) on the above portal - Opening of Technical Part.
  - (j) Post-TOE Clarification on the above portal (Optional) – Respond to AIIMS, Bhubaneswar’s Post-TOE queries.
  - (k) Attend Public Online Tender Opening Event (TOE) on the above portal - Opening of Financial Part (Only for Technical Responsive Bidders).

*For participating in this tender online, the following instructions are to be read carefully. These instructions are supplemented with more detailed guidelines on the relevant screens of the above portal.*

3. **Digital Certificates.** For integrity of data and authenticity / non-repudiation of electronic records, and to be compliant with IT Act 2000, it is necessary for each user to have a Digital Certificate (DC), also referred to as Digital Signature Certificate (DSC), of Class III, issued by a Certifying Authority (CA) licensed by Controller of Certifying Authorities (CCA) [refer <http://www.cca.gov.in>].

4. **Registration.** To use the Electronic Tender portal <http://eprocure.gov.in/AIIMSBBBSR> website., vendors need to register on the portal. Registration of each organization is to be done by one of its senior persons vis-à-vis Authorized Signatory who will be the main person coordinating for the e-tendering activities. In the above portal terminology, this person will be referred to as the Super User (SU) of that organization. For further details, please visit the website/portal, and follow further instructions as given on the site. Pay Annual Registration Fee as applicable.

**Note.** : *After successful submission of Registration details and Annual Registration Fee, please contact to the Helpdesk of the portal to get your registration accepted/ activated.*

- (a) The Bidder must ensure that after following above, the status of bid submission must become - “Submitted”.
- (b) Please take due care while scanning the documents so that the size of documents to be uploaded remains minimum. If required, documents may be scanned at lower resolutions say at 150 dpi. However, it shall be sole responsibility of bidder that the uploaded documents remain legible.

(c) It is advised that all the documents to be submitted are kept scanned or converted to PDF format in a separate folder on your computer before starting online submission.

(d) The Financial part/BOQ may be downloaded and rates may be filled appropriately. This file may also be saved in a folder on your computer. Please don't change the file names & total size of documents (Preferably below 5 MB per document) may be checked.

**5. Bid submission.** The entire bid-submission would be online on the Tender wizard portal i.e. <https://eprocure.gov.in/AIIMS>, Bhubaneswar.

**6. Broad outline of submissions are as follows: -**

- (a) Submission of Bid Parts (Technical & Financial).
- (b) Submission of information pertaining to Bid Security/ EMD.
- (c) Submission of signed copy of Tender Documents/Addendums.

7. The TECHNICAL PART shall consist of Electronic Form of Technical Main Bid and Bid Annexure. Scanned/Electronic copies of the various documents to be submitted under the Eligibility Conditions, offline submissions, instructions to bidders and documents required establishing compliance to Technical Specifications and Other Terms & Conditions of the tender are to be uploaded.

8. The FINANCIAL PART shall consist of Electronic Form of Financial Main Bid and Financial Bid Annexure, if any. Scanned copy of duly filled price schedule (Section VII) for both packages are to be uploaded. If required, additional documents in support of taxes, quoted duties etc may also be uploaded.

**9. Tender Processing Fee. As per applicable.**

**10. Public Online Tender Opening Event (TOE).** The e-Procurement portal offers a unique facility for 'Public Online Tender Opening Event (TOE). Tender Opening Officers as well as authorized representatives of bidders can attend the Public Online Tender Opening Event (TOE) from the comfort of their offices. For this purpose, representatives of bidders (i.e. Supplier organization) duly authorized. Every legal requirement for a transparent and secure 'Public Online Tender Opening Event (TOE)' has been implemented on the portal. As soon as a Bid is decrypted, the salient points of the Bids are simultaneously made available for downloading by all participating bidders. The medium of taking notes during a manual 'Tender Opening Event' is therefore replaced with this superior and convenient form of 'Public Online Tender Opening Event (TOE)'. The portal a unique facility of 'Online Comparison Statement' which is dynamically updated as each online bid is opened. The format of the Statement is based on inputs provided by the Buyer for each Tender. The information in the Comparison Statement is based on the data submitted by the Bidders. A detailed Technical and / or Financial Comparison Statement enhance Transparency. Detailed instructions are given on relevant screens. The portal has a unique facility of a detailed report titled 'Online Tender Opening Event (TOE)' covering all important activities of 'Online Tender Opening Event (TOE)'. This is available to all participating bidders for 'Viewing/Downloading'. There are many more facilities and features on the portal. For a particular tender, the screens viewed by a Supplier will depend upon the options selected by the concerned Buyer.

***Important Note.*** *In case of internet related problem at a bidder's end, especially during 'critical events' such as – a short period before bid-submission deadline, during online public tender opening event it is the bidder's responsibility to have backup internet connections. In case there is a problem at the e-procurement / e-auction service-provider's end (in the server, leased line, etc) due to which all the bidders face a problem during critical events, and this is brought to the notice of AIIMSBBBSR by the bidders in time, then AIIMS, Bhubaneswar will promptly reschedule the affected event(s).*

**9. Other Instructions.** For further instructions, the vendor should visit the home-page of the portal. The complete help manual is available in the portal for Users intending to Register / First-Time Users, Logged-in users of Supplier organizations. Various links are also provided in the home page.

***Important Note.*** : It is strongly recommended that all authorized users of Supplier organizations should thoroughly peruse the information provided under the relevant links, and take appropriate action. This will prevent hiccups and minimize teething problems during the use of the said portal.

***The following 'FOUR KEY INSTRUCTIONS for BIDDERS' must be assiduously adhered to :-***

1. Obtain individual Digital Signature Certificate (DSC) well in advance of your first tender submission deadline on the portal.
2. Register your organization on the portal well in advance of your first tender submission deadline on the portal
3. Get your organization's concerned executives trained on the portal well in advance of your first tender submission deadline on the portal
4. Submit your bids well in advance of tender submission deadline on the portal (There could be last minute problems due to internet timeout, breakdown etc.)
5. While the first three instructions mentioned above are especially relevant to first-time users on the portal, the fourth instruction is relevant at all times. Minimum Requirements at Bidders end Computer System with good configuration (Min P IV, 1 GB RAM, Windows XP) Broadband connectivity. Microsoft Internet Explorer 8.0 or above. Digital Certificate(s) Vendors Training Program Necessary training to each and every registered bidder under this portal shall be impacted by the ASP, M/s. ITI, Bhubaneswar, if required, before participation in the online tendering.
6. For any further Assistance <http://eprocure.gov.in/AIIMSBBBSR> website for E-tendering queries contact representative NIC helpdesk.