

**NOTICE INVITING E-TENDER**

**Name of the work:** Supply, installation Testing and commissioning of Internal electrification works for providing power Plugs at various research labs, I/P & O/P switch gears, pertaining to installation of 3 No's of 20 KVA UPS for XRD lab and XPS lab at IISER permanent campus, Berhampur.

**NIT No - IISERBPR/IWD/NIT/2024-25/22 dated 22/10/2024**

**(Last date of e-Tender submission up to 03.00 pm on 05/11/2024)**

**INSTITUTE WORKS DEPARTMENT**  
**IISER Berhampur**  
**Transit campus, Govt. ITI Berhampur (2nd Floor)**  
**Engineering School Junction N.H-59, Berhampur-760010**  
**(Odisha)**

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**This document contains pages 01 to 28 only is approved.**

For and on behalf of the  
Director, IISER Berhampur

### Notice Inviting e-Tender

Indian Institute of Science Education and Research (IISER), Berhampur, is an autonomous Institute established under Ministry of Education, Government of India. The Executive Engineer, (E) on behalf of The Director, IISER Berhampur invites online percentage rate bids for following work from eligible bidders. The bidders are required to visit the website <https://www.gerpegov.com/IISERBP> for submission of tender.

Sl. No.	Description	Details
1.	NIT No.	<b>IISERBPR/IWD/NIT/2024-25/22</b>
2.	Name of work & Location	Supply, installation Testing and commissioning of Internal electrification works for providing power Plugs at various research labs, I/P & O/P switch gears, pertaining to installation of 3 No's of 20 KVA UPS for XRD lab and XPS lab at IISER permanent campus, Berhampur.
3.	Estimated Amount	<b>Rs. 14,29,078.00/-</b>
4.	Earnest Money	<b>Rs. 28,582.00/-</b> should be in the form of bank transfer (SBI I-Collect). Bidders may visit if any assistance required: <a href="https://www.onlinesbi.com/prelogin/icollectho me.htm">https://www.onlinesbi.com/prelogin/icollectho me.htm</a>
5.	Tender Processing fee (0.1% of the tendered amount + GST @ 18%)	<b>Rs. 1,429.00/- + GST (Non-Refundable) through e-payment in favor of "IISER, Berhampur".</b>
6.	Pre-Bid meeting	<b>28/10/2024 at 11.00Hrs at IISER, Berhampur</b>
7.	Period of completion	<b>45 Days from issue of LOA</b>
8.	Last date & time of on line submission of bid.	<b>05/11/2024 up to 3:00 PM</b>
9.	Last date & time of submission of acknowledgement of submission of EMD and hard copies of the bid documents to IISER Berhampur	<b>Before 3.00PM, 05/11/2024.</b>
10.	Date & time of online opening of technical bid.	The Eligibility Document shall be opened at <b>3:30 PM on 05/11/2024.</b> The online submitted financial bid shall be opened of those bidders who qualify in the eligibility of technical bid. The time and date of opening of e-financial bid of the technically qualified eligible bidders shall be communicated at a later date.
11.	Contact details of IISER Berhampur	0680-2227731 (Sr. Executive Engineer(E))

For and on behalf of the Director,  
IISER Berhampur

**INSTRUCTIONS TO THE CONTRACTOR**

1. The contractor submitting the tender should read the schedule of quantities, additional condition, additional specification, particular specification and other terms and condition given in the NIT. The tender should also read the **General condition of contract for CPWD work 2022 with amendments issued up to last date of submission of bids**, which is available as Government of India Publications.

However, provisions included in the tender document shall prevail over the provisions contained in the standard form. The set of NIT shall be available with the Institute Works Department (IWD), IISER Berhampur. The contractor should also visit the site of work and acquaint himself with the site conditions before tendering. The following conditions, which already form part of the tender conditions, are specially brought to his notice for compliance while filling the tender. They are requested to comply following instructions:

- i) Tenders with any condition including that of conditional rebates shall be rejected forthwith.
  - ii) Tenderer must ensure to quote percentage rate basis. The column meant for quoting rate in figure appears in yellow color 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“. However, if a tenderer quotes nil rates against each item in item rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.
  - iii) The successful tenderer shall be required to submit a performance guarantee of 5% of the agreement amount within 10 days of issue of letter of award. This period can be further extended by the Director, IISER Berhampur upto a maximum period of 3 days on the written request of the contractor with late fee @ 0.1%per day of performance guarantee amount.
  - iv) Labour Cess (1%), GST (As applicable) etc. or any other taxes as may be applicable shall be borne by the contractor. The tenderer shall quote the item rates considering all such prevailing taxes and nothing extra shall be paid.
  - v) All the statutory recoveries shall be made from the running bills of the contractor like Security deposit, TDS on Income tax, TDS on GST, Labour welfare cess etc. or any other statutory recovery as per Government of India norms at the prevailing rates and in the manner prescribed by Government.
2. The firm / contractor who fulfill the following requirements shall be eligible to apply. **Joint Ventures are not accepted.**
    - (a) Should have satisfactorily completed the works as mentioned below during the last **FIVE** years in any Govt. Organizations (Central/State/ Autonomous Bodies/ Research/Government Institutes etc.) ending up to previous day of last date of submission of tenders.

Completed **three similar works** each of value not less than **40%** value of Estimated Cost, or completed **two similar works** each of value not less than **60% of Estimated Cost**, or completed **one similar work** of value not less than **80%** of Estimated Cost.

**\*Similar work shall mean:** “Supply, installation Testing and commissioning of Internal electrification works”. The bidder should have had average annual financial turnover (gross) of at least 15 Lacs, during the immediate last three consecutive year’s balance sheets ending **31.03.2024**. Balance sheets duly audited and certified by the Chartered Accountant (Scanned copy of certificate from CA/Audited Balance Sheet) are to be uploaded. Year in which no turnover is shown would also be considered for working out the average. The multiplication factor of 7% per annum simple interest is not applicable on the Annual Turnover figures.

- (b) The bidder should have not incurred any loss (profit after tax should be positive) **in more than two years during the last three consecutive years ending 31.03.2024**. Balance sheets duly audited and certified by the Chartered Accountant are to be uploaded, together with a solvency certificate issued by any of the Scheduled Banks or a Chartered Accountant
3. The bidder should have valid GST, ESI and EPF registration no. of concerned Government Authorities.
  4. Every page of the documents submitted by the applicant / firm shall be numbered & bear the stamped signature of the firm.
  5. The intending bidder must read the terms and conditions carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.
  6. Information and instructions for bidders posted on website shall be form part of bid documents.
  7. The bid document consisting 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 free of cost [www.gerpegov.com/IISERBP](http://www.gerpegov.com/IISERBP) . The notice can also be seen on [www.iiserbpr.ac.in](http://www.iiserbpr.ac.in) & [www.eprocure.gov.in](http://www.eprocure.gov.in)
- Applicants are advised to keep visiting the above mentioned web-sites from time to time (till the dead line for bid submission) for any updates in respect of the tender documents, if any. Failure to do so shall not absolve the applicant of his liabilities to submit the applications complete in all respects including updates thereof, if any. Incomplete application may be liable for rejection. But the bid can only be submitted after uploading the acknowledgement of e- payment toward EMD in favor of “**IISER Berhampur**” payable at **Berhampur** and processing fee in favor of “IISER, Berhampur” and other documents as specified.
8. The bidders not registered on the website mentioned above, are required to get registered beforehand. If needed, they can be imparted training on online bidding process as per details available on the website.
  9. The intending bidder must have valid class-III digital signature to submit the bid.
  10. On opening date, the bidder can login and see the bid opening process. After opening of bids he will receive the competitor bid sheet.

11. Bidder can upload documents in the form of **JPG format** and **PDF format**.

Sl. No.	Description
1.	Acknowledgement of EMD deposited by bank transfer (SBI I-Collect). Bidders may visit, if any assistance required: <a href="https://www.onlinesbi.com/sbicollect/collecthome.htm">https://www.onlinesbi.com/sbicollect/collecthome.htm</a> OR Bank Guarantee of any schedule bank as per <b>Para 8</b> of CPWD-6 form, against EMD. (Max. 50% of amount).
2.	Certificate of financial turnover from chartered Accountant ( <b>Form-A</b> ) - Performa enclosed.
3.	Details of all works of similar nature of work, completed during the last five years (Ending up to previous day of last date of submission of online tender) ( <b>Form-C</b> ) - Performa enclosed.
4.	Certificate of completed works duly certified by officer not below the rank of Executive Engineer-Performance report of works referred in Form C- ( <b>Form-D</b> ) - Proforma enclosed.
5.	Structure & Organization ( <b>Form E</b> ).
6.	Application Form for Fund Transfer through RTGS / NEFT ( <b>Form-F</b> )
7.	Certificate of Registration for GST and other statutory documents

This tender notice can also be seen on Institute website [www.iiserbpr.ac.in](http://www.iiserbpr.ac.in) & [www.eprocure.gov.in](http://www.eprocure.gov.in)

12. The eligibility criteria may be relaxed by the Competent Authority according to institute requirement.
13. **Requirement for Vendors for uploading online tender.**

P.C. Connected with internet

Registration with portal <https://www.gerpegov.com/IISERBP>

Class-III Digital signature certificate in the name of the company of the vendor is mandatory (in the name of the company who will be submitting the EMD & general information). This may be obtained by calling our helpdesk (09073677150 and 9674758726). Bids will not be recorded without Digital Signature Certificate.

Bidders will have to pay Tender Processing fee (**Amount as per work order including GST**) (Non- Refundable) through e-payment in favour of M/s CEL Ltd.

Note: Please check the Digital Signature Certificate. For more details, bidders may visit e-tendering portal and download the help manuals uploaded in the website.

Contact Person: -

Mr. Abhay kr singh Mob: 09708966660

Email: [helpdeskgerpegov@gmail.com](mailto:helpdeskgerpegov@gmail.com)

Help Desk No: 09073677150/09073677151/09073677152

For and on behalf of the Director,

IISER Berhampur

Contact details:

**IWD, IISER Berhampur**

Email: [jwd\\_electrical@iiserbpr.ac.in](mailto:jwd_electrical@iiserbpr.ac.in) /

[jwd@iiserbpr.ac.in](mailto:jwd@iiserbpr.ac.in)

Phone: 0680-2227731/700

**ACCEPTANCE**

The above Tender (as modified by you as provided in the letters mentioned hereunder) is accepted by IISER Berhampur for Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_).

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

Signature: \_\_\_\_\_

Dated: \_\_\_\_\_

**Authorized signature**  
**IISER Berhampur**

### SCHEDULES

#### SCHEDULE „A“

As per the Schedule of quantities (Annexure-1)

#### SCHEDULE „B“

Schedule of materials to be issued to the contractor: -

S. No	Description of Item	Quantity	Rate	Place of Issue
-As specifically mentioned in schedule of quantities (if any)-				

#### SCHEDULE „C“

Tools and plants to be hired to the contractor

Sl. No	Description	Hire charges per day	Place of Issue
1	2	3	4
-As and when required-			

#### SCHEDULE „D“

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

#### SCHEDULE „E“

Reference to General Conditions of Contract for CPWD works 2022 **with amendments issued up to last date of submission of bids.**

Name of work:

Supply, installation Testing and commissioning of Internal electrification works for providing power Plugs at various research labs, I/P & O/P switch gears, pertaining to installation of 3 No's of 20 KVA UPS for XRD lab and XPS lab at IISER permanent campus, Berhampur.

Earnest Money:

**Rs. 14,29,078.00/-** to be returned after receiving performance guarantee)

Performance Guarantee:

5% of tendered value.

Security Deposit:

2.5% of tendered value or value of work done whichever is lower.

#### SCHEDULE „F“

##### General Rules & Directions:

Office Inviting Tender:	Sr.EE, IWD, IISER Berhampur For and On behalf of the Director, IISER Berhampur
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(i)	Engineer-in-charge	Sr.EE, IWD, IISER Berhampur
2(ii)	Accepting Authority	Director, IISER Berhampur
2(iii)	Percentage on cost of material and labor to cover all overheads and profits	As per standards
2(iv)	Standard Schedule of Rates	CPWD DSR 2022
2(v)	Department	Institute Works Department, IISER Berhampur

**Clauses:**

Clause (1)	i. Time allowed for submission of performance bank Guarantee, program chart (Time & Progress) and applicable labour licenses, registration with EPFO, ESIC 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 beyond the period provided in (i) above.	07 days
Clause (2)	Authority for fixing compensation under Clause-2.	The Director, IISER Berhampur
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	45 days
Clause 11:	Specifications to be followed for execution of work	CPWD specification and the specification given in the BOQ
Clause 12:	Deviation Limit beyond which clauses 12.2 & 12.3 shall apply for lab furnishing building work.	30%
Clause 16:	Competent Authority for deciding reduced rates	The Director, IISER Berhampur
Clause 18:	List of Mandatory machinery, tools and plants to be deployed by the contractor at site.	As required
Clause 25:	<b>Constitution of Dispute Redressal Committee (DRC)</b>	<b>Competent Authority to appoint DRC and Arbitrator</b>
	DRC shall consist of one Chairman and two members.	Director, IISER Berhampur
	Place of Arbitration	Berhampur, Ganjam

**SPECIAL CONDITIONS OF CONTRACT****DEFINITION:**

In the Contract (as hereinafter defined) the following definitions words and expressions shall have the meaning hereby assigned to them except where the context otherwise required.

In the Contract (as hereinafter defined) the following definitions words and expressions shall have the meaning hereby assigned to them except where the context otherwise required.

- i) *Institute* shall mean the IISER, Berhampur.
- ii) *The Engineer-in-charge*, who shall administer the work, shall mean the nominated EIC by the Competent Authority.
- iii) *Government or Govt. of India* shall mean the Indian Institute of Science Education and Research Berhampur represented by its Director.
- iv) The term *Director General of Works* shall mean the Chairman, Building & Works Committee of the Institute.
- v) *Accepting authority* shall mean the Chairman Building and Works Committee, IISER, Berhampur his authorized representative.
- vi) *Superintending Engineer* shall mean the In-charge Superintending Engineer of the Institute, who as overall In-charge and head of the Institute Works Department shall direct the contract.
- vii) *Site Engineers* shall mean the Project Engineer, Jr. Project Engineer (Electrical) appointed by Institute works department.

**DUTIES & POWERS:****2.1 Site Engineers:**

The duties of the Site Engineer(s) are to watch and supervise the works and the workmanship in connection with the works, and to test and examine any materials to be used. He shall have no authority to relieve the contractor of any of his duties or obligations under the contract, except as expressly provided hereunder, nor to order any work involving delay or any extra payment by the Institute and to make any variation in the works.

The Engineer-in-charge, from time to time in writing, delegates to the Site Engineer(s) any of the powers and authorities vested in them. Any written instruction or written approval given by the Site Engineer (s) to the contractor within the terms of such delegation (but not otherwise) shall bind the contractor and the Institute as though it had been given by the Engineer-in-charge provided always as follows:

- a) Failure of the Site Engineer (s) to disapprove any work or materials shall not prejudice the power of the Engineer in-charge to subsequently disapprove such work or materials and to order the pulling down, removal or breaking up thereof.
- b) If the contractor is dissatisfied by reason of any decision of the Site Engineer (s), he shall be entitled to refer the matter to the Engineer-in-charge, who shall thereupon confirm reverse or vary such decision.

**ASSIGNMENT & SUBLETTING:**

- 3.1 The contractor shall not assign the contract or any part thereof or any benefit or interest therein or there under without the written consent of the Engineer in-charge. The whole of the works included in the contract shall be executed by the contractor except where otherwise provided in the contract. The contractor shall not sublet any part of the works without the written consent of the Engineer in-charge and such consent, if given, shall not relieve the contractor from any liability or obligation under the contract, and he shall be responsible for the acts, defaults and neglects of sub-contractor, his agents, servants or workmen, as if they were the acts, defaults or neglects of the contractor provided always that the provision of labour contracts on a piece work basis shall not be deemed to be a subletting under this clause.

**SCOPE OF CONTRACT:**

The contractor shall make his own arrangements for the safe storage of materials; accommodation for his staff etc. and no claim for the temporary accommodation from the contractor shall be entertained.

The contractor shall carry out and complete the said work in every respect in accordance with this contract and as per the directions and to the satisfaction of the Engineer in-charge. Issue of further drawings and / or written instructions, detailed directions and explanations which are hereinafter collectively referred to as instructions of the Director, IISER Berhampur in regards to:

- a) The variation or modification of the design, quality or quantity of works or the addition or omission or substitution of any work.
- b) Any discrepancy in the Drawings or between the Schedule of Quantities and /or Drawings and / or specifications.
- c) The removal from the site of any materials brought thereon by the contractor and paid by the Institute in running account bills the substitution of any other material thereof.
- d) The dismissal from the works of any persons employed thereupon.
- e) The opening up for inspection of any work covered up.
- f) The amending / making good of any defects.

The contractor shall forthwith comply with and duly execute any instructions of work comprised in such Engineer in-charge's instructions, provided always that the verbal instructions and explanations given to the contractor or his representative upon the works shall, if involving a variation, be confirmed in writing by the contractor within seven days and if not dissented in writing within a further seven days by the Engineer in-charge, such shall be deemed to be instructions of the Engineer in-charge within the scope of the contract.

The scope of work shall also include incidental sundry components necessary for complete execution and satisfactory performance of the dismantling work, installation & commissioning with all labour charges, whether or not specifically mentioned in the tender documents, which shall be provided by the contractor at no extra cost.

**CONTRACT DOCUMENT:**

The several documents, forming the contract, are to be taken as mutually explanatory of one another and in case of ambiguities or discrepancies the same shall be explained and adjusted by the Engineer-in-charge who shall thereupon issue to the contractor its interpretation directing in what manner the work is to be carried out. In case the contractor feels aggrieved by the interpretation of the Engineer-in-charge then the matter shall be referred to the Director, IISER Bpr and his decision shall be final, conclusive and binding on both parties to the contract.

**STANDARDS & CODES:**

The design, manufacture and performance of tendered material/equipment shall comply with all currently applicable statutory regulations and safety codes in the locality where the material/equipment will be installed. The material shall also conform to the requirement of the latest editions of applicable Indian Standards/International Standards. The contractor shall refer to the relevant sections of this specification for material/equipment standards and codes. Nothing in this specification shall be construed to relieve the contractor of his responsibility.

The successful tenderer shall be required to enter into an agreement with the Institute. The Bill of Quantities & rates filled by the successful tenderer there in, the **General Conditions of Contract for CPWD work 2022 with amendments issued upto last date of submission of bids**, the Special conditions, additional specifications, minutes of the pre bid conference, negotiation letter and the award letter etc. shall form part of the agreement to be signed by the successful tenderer. The cost of stamp paper and stamp duty, required for the agreement, shall be borne by the contractor.

**MATERIALS AND WORKMANSHIP:**

All materials used shall conform to the requirements of materials specified in this specification. Where material requirements are not specified, they shall conform to the applicable standards and codes approved by the Department. All materials shall be new, free from defects and of good quality in all respects as per the prescribed specifications. Parts shall be free from flaws and objectionable imperfections and shall be machined true in a workman like manner. No deviations from the specified materials are permissible. Wherever materials are not specifically called out, they shall be properly selected by the contractor / manufacturer to the best standards for the particular application and with the prior approval of the Department.

**RATES:**

The rates quoted by the bidder, shall be firm and inclusive of all taxes, and all charges for packing forwarding, insurance, freight and delivery, installation, testing, commissioning etc. at site i/c temporary constructional storage, risks, overhead charges general liabilities/ obligations and clearance from local authorities. However, the fee to be paid to local Govt. bodies/statutory bodies in context with the inspections shall be borne by the department. (Sine the work is expected to be completed within 04Months no escalation clause will be applicable)

**DEFECT LIABILITY PERIOD:**

All material, equipment and installations within the scope of work shall be guaranteed by the contractor **for a period of 12 (Twelve months) months** from the date of completion of work

as recorded in the completion certificate, against unsatisfactory performance of the material and installations and/or any break down, failure, defects due to defective design, poor quality of material and/or bad workmanship. The material, equipment, installations or any other part there of so found defective and/or not as per the contract specifications during the guarantee period shall forthwith be repaired or replaced free of cost within 24 hours of reporting, to the satisfaction of the IISER Berhampur. In case it is noticed by the department that undue delay is being caused by the contractor in doing so, the same will be got done by the department at the risk and cost of the contractor. The decision of the Director, IISER Berhampur in this regard shall be final & binding.

The contractor shall conduct his work, so as not to interfere with or hinder the progress or completion of the work being performed by other contractor(s) or by the Engineer-in-Charge and shall as far as possible arrange his work and shall place and dispose of the materials being used or removed, so as not to interfere with the operations of other contractor or he shall arrange his work with that of the others in an acceptable and coordinated manner and shall perform it in proper sequence to the complete satisfaction of others.

**SITE SUPERVISION:**

The Contractor shall engage qualified and experienced site staff including the mentioned site engineers to execute the works. Registered and licensed trade persons shall be employed under the direct employment of the contractor and shall be full time on site to supervise the works. The decision of the Engineer-In-Charge as to what constitutes this necessity shall be final and binding.

**GODOWN / WORKER ACCOMMODATION:**

The accommodation for workers shall be arranged by the Contractor. Storage space shall be arranged by the Owners. Contractor shall construct the stores at his cost and he shall be responsible for watch and ward of his materials/installations.

**DEPARTURES:**

**No deviation/departure from the terms and conditions shall be acceptable.**

**TAXES:**

All taxes as per prevailing notification of Central / State Government shall be recovered from the contractor's bill.

**SUPPLY OF MATERIAL:**

Merely a provision in the schedule of quantities does not entail the contractor to supply the item. The contractor has to supply the quantities actually required for use on work as per the approved drawings. If at any point of time it comes to the notice that any of the items supplied by the contractor & paid by the Institute is not required for use on work, the amount shall be recovered suo-moto and no claim shall be entertained on this account.

The contractor shall be fully responsible for the safe custody of materials brought by him at site / issued to him even though the materials may be under double lock and key system. The contractor has to make his own arrangement like shed enclosure etc. for keeping the material, providing security etc. The contractor shall be allowed to make temporary structures for stores, offices, sheds, labour huts etc. The contractor shall remove all the structures erected by him necessary for the execution of the work, after completion of the work and clean the site removing all structures and temporary hutments in all respect as per the direction of Engineer-in-charge.

The wages of the labor shall be paid as per the guidelines provided in the CPWD contractor labor regulations.

**TECHNICAL SPECIFICATIONS:****WIRING****1. GENERAL**

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

- Wiring for convenience socket outlet in surface conduit.

**2. STANDARDS AND CODES.**

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

**3. CONDUITS****(i) PVC CONDUITS:**

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

**(ii) BENDS:**

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

**(iii) CONDUIT ACCESSORIES:****(a) STANDARD ACCESSORIES:**

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

**(b) FABRICATED ACCESSORIES:**

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

**4. WIRES**

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

## 5. LAYING OF CONDUITS

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

## 6. SURFACE CONDUITING

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

### (i) FIXING OF CONDUIT FITTINGS AND ACCESSORIES

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

### (ii) CLEANING OF CONDUIT RUNS

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

### (iii) PROTECTION AGAINST DAMPNESS

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

### (iv) EXPANSION JOINTS

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

### (v) LOOP EARTHING

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

## 7. LAYING AND DRAWING OF WIRES

- BUNCHING OF WIRES:** Wires carrying current shall be so bunched in conduits that the outgoing and return wires are drawn into the same conduit. Wires originating from two different phases shall not be run in the same conduit.
- DRAWING OF WIRES:** The drawing of wires shall be done with due regard to the following precautions: - No wire shall be drawn into any conduit, until all work of any nature, that may cause injury to wire is completed. Burrs in cut conduits shall be smoothening before erection of conduits. Care shall be taken in pulling the wires so that no damage occurs to the insulation of the wire. Approved type bushes shall be provided at conduit terminations. Before the wires are drawn into the conduits, conduits shall be thoroughly cleaned of moisture, dust, dirt or any other obstruction by forcing compressed air through the conduits if necessary. While drawing insulated wires into the conduits, care shall be taken to avoid scratches and kinks which cause breakage of conductors. There shall be no sharp bends. The Contractor shall, after wiring is completed, provide a blank metal/sun mica plate on

all switch / outlet / junction boxes for security and to ensure that wires are not stolen till switches / outlets etc. are fixed at no extra cost the contractor shall be responsible to ensure that wires and loop earthing conductors are not broken and stolen. In the event of the wire been partly / fully stolen, the contractor shall replace the entire wiring along with loop earthing at no extra cost. No joint of any nature whatsoever shall be permitted in wiring and loop earthing.

- (iii) **TERMINATION /JOINTING OF WIRES:** Sub-circuit wiring shall be carried out in looping system. Joints shall be made only at distribution board terminals, switches for socket outlets. No joints shall be made inside conduits or junction/draw/inspection boxes. Switches controlling socket outlets shall be connected in the phase wire of the final sub circuit only. Switches shall never be connected in the neutral wire. Wiring conductors shall be continuous from outlet to outlet. Joints where unavoidable, due to any special reason shall be made by approved connectors. Specific prior permission from Engineer-In-Charge in writing shall be obtained before making such joint. Insulation shall be shaved off for a length of 15 mm at the end of wire like sharpening of a pencil and it shall not be removed by cutting it square or wringing. Strands of wires shall not be cut for connecting terminals. All strands of wires shall be twisted round at the end before connection. Conductors having nominal cross sectional area exceeding 1.5 sq. mm shall always be provided with crimping sockets. Tinning of the strands shall be done wherever crimping sockets are not available as per instructions of the Executive Engineer (Electrical). All wiring shall be labelled with appropriate plastic ferrules for identification. At all bolted terminals, brass flat washer of large area and approved steel spring washers shall be used. Brass nuts and bolts shall be used for all connections. The pressure applied to tighten terminal screws shall be just adequate, neither too much nor too less. Switches controlling socket outlets shall be connected to the phase wire of circuits only. Only certified valid license holder wiremen shall be employed to do wiring / jointing work.
- (iv) **LOAD BALANCING:** The Contractor shall plan the load balancing of circuits in 3 phase installation and get the same approved by the Engineer-In-Charge before commencement of the work.
- (v) **COLOUR CODE OF CONDUCTORS** Colour code shall be maintained for the entire wiring installation - red, yellow, blue for three phases, black for neutral and green for earth.

### **8. (i) SWITCHES**

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

### **(ii) FLUSH PLATES**

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

### **(iv) WALL SOCKET OUTLETS**

The 16 Amps wall socket outlets unless otherwise mentioned on the drawings shall be switched, five/six round pin and fitted with automatic linear safety shutters to ensure safety from prying



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

## **9. MEASUREMENT AND PAYMENT OF WIRING**

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

## **10. ROUTINE AND COMPLETION TESTS**

### **(i) INSTALLATION COMPLETION TESTS**

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

1. Wiring continuity test
3. Earth continuity test

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

### **(ii) PERFORMANCE**

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

## **AGREEMENT**

AGREEMENT made this \_\_\_\_\_ day of \_\_\_\_\_ Two Thousand Twenty-Three between the Indian Institute Science Education & Research Berhampur incorporated as Institutions of National Importance under the umbrella of the NIT (Amendment) act, 2012 (NIT Act 2007). **(The act was further amended in 2014, entitled as NITSER ACT 2014)** through its Executive Engineer, IISER Berhampur (hereinafter referred to as "The Institute and M/s \_\_\_\_\_ (Hereinafter referred to as "The Contractor") which expression shall include his/their respective heirs, executors, administrators and assigns of the other part.

WHEREAS the Institute is desirous for the work **"Supply, installation Testing and commissioning of Internal electrification works for providing power Plugs at various research labs, I/P & O/P switch gears, pertaining to installation of 3 No's of 20 KVA UPS for XRD lab and XPS lab at IISER permanent campus, Berhampur"**. and has caused drawings and specifications describing the work to be done and WHEREAS the said drawings as per list attached, the specifications, the priced Schedule of Quantities the conditions of tender and the conditions of contract have been signed by or on behalf of the parties hereto AND WHEREAS the contractor has agreed to execute upon and subject to the condition set forth (herein after referred to as „the said conditions“) the work shown upon the said drawings and described in the said specification and the said priced Schedule of Quantity „at the respective rates mentioned in the priced Schedule of Quantities.

AND WHEREAS the contractor has deposited by Cash / FDR a sum of Rs. \_\_\_\_\_/- (Rupees \_\_\_\_\_ only), with the Institute for the due performance of this agreement.

NOW IT IS HEREBY AGREED AS FOLLOWS:

1. In consideration of the payments to be made to the contractor as herein after provided the Contractor shall upon and subject to the said conditions execute and complete the works shown upon the said drawing and such further detailed drawings as may be furnished to him by the said Institute and described in the said specification, and the said priced Schedule of Quantities.
2. The Institute shall pay the contractor such sums as shall become payable hereunder at the time and in the manner specified in the said conditions.
3. Time is the essence of the agreement. In the event of the Contractor failing to comply with this condition, he shall be liable to pay compensation as per clause 2 of the condition of the contract as decided by the competent authority of the Institute in writing which shall be final and binding on the contractor.
4. The Drawings, specifications and priced Schedule of Quantities above mentioned shall form the basis of this contract and the decision of the Director or Arbitrator or Umpire as mentioned in the conditions of the Contract in reference to all matters of disputes as to material, workmanship or account and as to the intended interpretation of the clause of this agreement or any other document attached here to shall be final and binding on both parties and may be made a rule court.
5. The said contract comprises the work above mentioned and all the subsidiary work connected therewith the same site all may be ordered to be done from time to time

by the institute even though such works may not be shown on the drawings or described in the said specifications or the priced Schedule of Quantities.

6. The institute reserves the right altering the drawings and nature of the work and of adding to or omitting any items of work or of having portions of the same carried out departmentally or otherwise and such alterations or variations shall not vitiate this contract.
7. The said conditions and appendix there to shall be read and construed as forming part of this agreement and the parties here to will respectively abide by and submit themselves to the conditions and stipulations and perform the agreement on their parts respectively in such conditions contained.
8. All other disputes and differences except as excluded by clause 2 shall be referred to arbitration as per clause 25 of the said conditions of contract. The provision of the **Arbitration and Conciliation Act 1996 (26 of 1996)** or any statutory modifications or reenactment thereof and of the rules made there under for the time being in force shall apply to Arbitration proceedings under this clause.
9. All disputes arising out of or in any way connected with this agreement shall be deemed to have arisen in Berhampur and only courts in Berhampur shall have jurisdiction to determine the same.
10. The several parts of this contract have been read to us and fully understood by us. In witness whereof the parties hereto have set their respective hands the day and the year herein above written.

Authorized signature  
IISER Berhampur

In the presence of:

1.

2.

Contractor

**Approved Make List**

<b>Sl. No</b>	<b>Description of Items</b>	<b>Approved Make</b>
1	FRLS PVC Insulated Copper Wire a	Polycab, RR Cables, Havells
2	Power Cables / Control Cables up to 11 KV	Havells, Polycab, Gloster
3	Medium Class PVS Conduit and Accessories	AKG, BEC, PRECISION
4	GI Modular Box	Legrand (Arteor), Schneider Electric (Zencelo), ABB (IVIE)
5	Modular Switch and Socket	Legrand (Arteor), Schneider Electric (Zencelo), ABB (IVIE)
6	MCB, MCB DB, Enclosure Box	Siemens -Betagard, Legrand - Ekinox3, Schneider - Acti 9, ABB-S200M
7	Industrial Power Socket	Legrand, Schneider Electric, ABB

**FINANCIAL INFORMATION**

- I. **Financial Analysis** — Details to be furnished duly supported by figures in Balance Sheet / Profit & Loss Account for 3 (three) years duly certified by the Chartered Accountant, as submitted by the applicant to the Income-Tax Department (Copies to be attached).

Financial Years  
(In Crores)

Sl.No	Details	(1)	(2)	(3)
		2023-24	2022-23	2021-22
i)	Gross annual turnover in works.			
ii)	Profit / Loss			

- II. Financial arrangements for carrying out the proposed works.  
*Note: Attach additional sheets, if necessary*

Signature of Chartered Accountant with seal

Signature (s) of Bidder(s)

**Form-B**

**Details of eligible similar nature of works completed during the last five years**

Sl. No.	Name of work / Project and location	Owner or Sponsoring organisation	Cost of work (in crores)	Date of commencement as per contract	Stipulated date of completion	Actual date of completion	Litigation Arbitration pending / in progress with details	Name and Address/ Telephone number of officer to whom reference may be made.	Whether the work was done on back to back basis Yes / No
1	2	3	4	5	6	7	8	9	10

(Ending up to previous day of last date of submission of online tender)

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

**Signature of Tenderer(s)**

**Performance report of works referred in Form „C“**

(Furnish this information for each individual work from the employer for whom the work was executed)

1. Name of work /  
Project & Location.
2. Agreement No.
3. Estimated Cost
4. Tendered Cost
5. Actual work done
6. Date of start
7. Date of completion
  - a) Stipulated date of completion
  - b) Actual date of completion
8. (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
9. Performance report
  - i) Quality of work Outstanding/ Very good /Good/ Poor
  - ii) Finance Soundness Outstanding/ Very good /Good/ Poor
  - iii) Technical Proficiency Outstanding/ Very good /Good/ Poor
  - iv) Resourcefulness Outstanding/ Very good /Good/ Poor
  - v) General behavior Outstanding/ Very good /Good/ Poor

Date:

Authorized Signatory  
(Seal of the organization)

**Form-D**

1.	Name and address of Bidder	
2.	Telephone No. / Fax No. / email address	
3.	Legal status of the bidder (Attach copies of original document defining the legal status). The applicant is: a) An individual b) A proprietary firm c) A Firm in partnership d) A limited company or corporation	
4.	GST/PAN No	
5.	Name and title of officers with designation to be concerned where similar work carried out.	
6.	Designation of individuals authorized to act for the organization.	
7.	Whether, the agency has similar experience as mentioned in Page No.-06, Para-2(a).	
8.	Whether the Agency is having Annual Turn Over $\geq 15$ Lacs and supporting documents attached (Yes/No)	
9.	EMD Submitted (Yes/No)	

Signature of Bidder



Form-F

**Application Form for Fund Transfer through RTGS / NEFT**

Date:

<b>Counterfoil</b> SBI, Main Branch, Berhampur Received from <b>IISER Berhampur</b> By <b>Cheque</b> / Transfer for RTGS on <b>Bank</b>		<b><u>Application for RTGS Remittance</u></b> SBI Main Branch, Berhampur, Branch Code: 000033 Remitter Name: <b>IISER Berhampur</b> Please Remit the sum of Rs. (Rupees _____ only) As per details below by debiting our Account No: <b>35821019850</b> For the total amount including charges applicable (if any)															
<b>Favoring (beneficiary name)</b> _____		<table border="1"> <tr><td><b>Name of the beneficiary</b></td><td></td></tr> <tr><td><b>Bank's name</b></td><td></td></tr> <tr><td><b>Branch</b></td><td></td></tr> <tr><td><b>IFSC Code</b></td><td></td></tr> <tr><td><b>Account No.</b></td><td></td></tr> <tr><td><b>MICR Code</b></td><td></td></tr> <tr><td><b>Type of Account</b></td><td></td></tr> </table>		<b>Name of the beneficiary</b>		<b>Bank's name</b>		<b>Branch</b>		<b>IFSC Code</b>		<b>Account No.</b>		<b>MICR Code</b>		<b>Type of Account</b>	
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Amount Rs. Bank's Charges Rs..... <b>Total Rs.....</b>		(Authorized Signatory -1) (Authorized Signatory - 2) Address : Finance & Accounts, IISER Berhampur Tel No. : 0680-222 7708															
<table border="1"> <tr><td><b>Cheque No.</b></td><td></td></tr> <tr><td><b>Date</b></td><td></td></tr> <tr><td><b>Amount</b></td><td></td></tr> </table>		<b>Cheque No.</b>		<b>Date</b>		<b>Amount</b>											
<b>Cheque No.</b>																	
<b>Date</b>																	
<b>Amount</b>																	
<b>Prepared and Checked by payee</b>		<b>Forwarded By (Concerned Department / Section)</b>															
Signature of authorized signatory		Signature															
Name		Name															
Designation		Designation															
Firm / Agency Name :		Department															
<b>*Please affix a rubber stamp</b>																	
Date of Transfer																	
Amount Rs																	
Transaction / UTR No.																	

**Part-B (Schedule of Quantities/Price Bid)**

**Name of Work:** Supply, installation Testing and commissioning of Internal electrification works for providing power Plugs at various research labs, I/P & O/P switch gears, pertaining to installation of 3 No's of 20 KVA UPS for XRD lab and XPS lab at IISER permanent campus, Berhampur.

**NIT No:** IISER BPR/IWD/NIT/2024-25/22 dated 21/10/2024

BOQ Sl. No	Description	Qty	Unit	Rate/Unit in Rs (Including all Taxes)	Amount (In Rs.)
1	Wiring for circuit/sub main wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor in surface /recessed medium class PVC conduit as required				
	4x10 sq.mm +2x6 sq.mm earth wire	70	Mtr	1005.00	70350.00
2	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/recessed steel/PVC conduit as required.				
(i)	3 x 2.5 sq. mm	275	Mtr	137.00	37675.00
(ii)	3 x 4 sq.mm	775	Mtr	206.00	159650.00
3	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.				
(i)	20 mm	40	Mtr	128.00	5120.00
(ii)	25 mm	500	Mtr	145.00	72500.00
4	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc.as required.				
(i)	15/16 A switch	366	Each	156.00	57096.00
(ii)	6 pin 15/16 A socket outlet	366	Each	197.00	72102.00
5	Supplying and fixing following size / module GI box along with modular base and cover plate for modular switches in recess etc. as required.				
(i)	3 Module(100 mm x 75 mm)	50	Each	327.00	16350.00
(ii)	6 Module(200mm x 75 mm)	158	Each	402.00	63516.00
6	Supplying and fixing 5A to 32 A rating ,240/415 V,10 KA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MB DB complete with connections, testing and commissioning etc. as required.				

(i)	Single pole	335	Each	256.00	85760.00
(ii)	Double Pole	45	Each	656.00	29520.00
(iii)	Triple Pole and Neutral	20	Each	1228.00	24560.00
7	Supplying and fixing following rating, double pole, 240 V isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
(i)	40 A	5	Each	970.00	4850.00
(ii)	63 A	5	Each	1034.00	5170.00
8	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powdered painted including earthing etc. as required. (But without MCB/RCCB/Isolator)				
(i)	4 way (4+12), double door	5	Each	4091.00	20455.00
9	Supplying and fixing of following ways surface/recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required. (Note: Vertical type MCB TPDB is normally used where 3 Phase outlets are required.)				
	4 way (4+12), Double door	1	Each	7512.00	7512.00
10	Supplying and fixing DP sheet steel enclosure on surface or recess along with 25/32 A 240 V "C" Curve DP MCB complete with connections, testing and commissioning etc. as required.	10	Each	1169.00	11690.00
11	Earthing with G.I earth pipe 4.5-meter-long, 40 mm dia. including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/cock and salt as required.	4	Each	6855.00	27420.00
12	Supplying and fixing DP sheet steel enclosure on surface or recess along with 40/63 A 240 V "C" Curve DP MCB complete with connections, testing and commissioning etc. as required.	5	Each	2605.00	13025.00
13	Supplying and fixing TPN Sheet steel enclosure on surface along with 40/63 Amp, 415 Volt "C" curve, 10 KA breaking capacity TPN MCB Complete with connections, testing and commissioning etc. as required.	5	Each	3781.00	18905.00
14	Supply, Installation, Testing, Commissioning of 32 Ampere Industrial Power Socket	5	Each	5268.00	26340.00

15	Supply, drawing , Testing ,Commissioning of 6 sq. mm 4 core copper cable	100	Meter	976.00	97600.00
16	Supply, drawing , Testing ,Commissioning of 10 sq. mm 4 core copper cable	100	Meter	1873.00	187300.00
17	Supplying and drawing of 4 core 70 sq. mm Aluminium Armoured cable	90	Meter	1802.00	162180.00
18	Supplying and Drawing of 35 sq. mm PVC insulated single core FRLS copper cable	30	Meter	1161.00	34830.00
19	Supplying and Fixing of 4 Pole 63 Amp "C" curve MCB	3	Each	3907.00	11721.00
20	Supplying and Fixing of 4 Pole 160 Amp MCCB	1	Each	17756.00	17756.00
21	Supplying and Fixing of 2 Pole 125 Amp MCCB	3	Each	11449.00	34347.00
22	Supplying and fixing of 2 Pole 63 Amp MCB Ampere	7	Each	2390.00	16730.00
23	Supplying and fixing of 63 Amp (2P+E) Industrial power socket	2	Each	9892.00	19784.00
24	Supplying of 63 Amp highly heat resistance 3 Pin industrial power socket	2	Each	8632.00	17264.00
<b>Total (Including all taxes &amp; Levis)</b>					<b>1429078.00</b>
<b>Bidder to quote in percentage (above/below) Estimated Cost (in Rs)</b>					