



राष्ट्रीय विज्ञान शिक्षा एवं अनुसंधान संस्थान, भुवनेश्वर  
(परमाणु उर्जा विभाग, भारत सरकार का एक स्वयं शासित संस्थान)  
**NATIONAL INSTITUTE OF SCIENCE EDUCATION AND RESEARCH, BHUBANESWAR**  
(AN AUTONOMOUS INSTITUTE UNDER DEPT. OF ATOMIC ENERGY, GOVT. OF INDIA)

Name of Work: -“Additional Power point installation for equipment and Installation of LED Light fixture with wiring in Mathematics building at NISER, Jatni.”

NIT No. & Date:-NISER/IWD-ELECT/ (2017-18)/073  
Dt.12.09.2017

Estimated cost of tender: - ₹4, 68,869.00/-

Completion time: - 30 (Thirty) days

## NAME OF THE WORK

“Additional Power point installation for equipment and Installation of LED Light fixture with wiring in Mathematics building at NISER, Jatni.”

### NOTE

The tenderer should enclose the following documents along with the Bid otherwise tender will be summarily rejected.

- 1) a) Self attested copy of works completed during the last five years from Govt./Semi Govt. organization not below the rank of E.E as per NIT.  
b) Self attested copy of valid Registration Certificate.  
c) Self attested copy of PAN card.  
d) Self attested copy of GST REGISTRATION certificate.  
e) Self attested copy of ELBO License  
f) The cost of tender paper for the bidders who submit the downloaded tender document and EMD amount in separate D.D's as per NIT.
- 2) Contractors shall enclose the above documents (self-attested) along with the bid. Any conditional/ changed or altered bids are liable for rejection. The bidders shall sign all the pages of the bid i.e. NIT, Architectural Drawing (if any), as acceptance of the terms and conditions.
- 3) Incomplete/Partial bid or bid not submitted in prescribed format will be rejected. Bids not submitted/received within stipulated date/time as per NIT will not be accepted.



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**TENDER DOCUMENTS**

File No. NISER/IWD-ELECT./ (2017-18)/073

Name of work: -“Additional Power point installation for equipment and Installation of LED Light fixture with wiring in Mathematics building at NISER, Jatni.”

**I N D E X**

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4.	Schedule of Quantities	12-15	Second part
5.	Summary Sheet	16	-Do-
6.	Abstract of cost	17	-Do-
7.	Technical Specifications and other conditions of work	18	
8.	C.P.W.D. Specifications 2016 of Electrical work	Available in the office of the SO-D (Electrical) of NISER, Jatni. (If required, the same can be made available on written request addressed to the SO-D (Elect.) NISER	

NOTE: The tenderer should confirm before submission of the bid that they are in possession of all the above papers. All the documents issued are to be submitted along with the bid, duly signed by the tenderer while submitting the bid, as acceptance of the terms and conditions of NIT.

TENDER ISSUED TO:

M/s. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Telephone No. \_\_\_\_\_

  
REGISTRAR 12/01/17  
NISER  




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**NOTICE INVITING TENDER**

Director of NISER invites sealed tender on **Single envelope system** for the following work:-

**NIT No. NISER/IWD-ELECT. (2017-18)/073, Dated. 12.09.2017**

Name of the work: -“Additional Power point installation for equipment and Installation of LED Light fixture with wiring in Mathematics building at NISER, Jatni.”

Estimated Cost	:	Rs. 4, 68,869.00/-
Earnest Money	:	Rs. 9,377.00/-
Period of Completion	:	30 (Thirty Days).
Cost of tender (non-refundable)	:	Rs. 500/- (Rupees five hundred only)

Last date of receipt of tender: **21st Sept. 2017 up to 3.30 p.m.**

*NES*  
*12/9/17*  
**REGISTRAR**  
**NISER**

*Dls*



**राष्ट्रीय विज्ञान शिक्षा एवं अनुसंधान संस्थान, भुवनेश्वर**  
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**Tender Notice**

Director of NISER hereby invites sealed tender in a Single envelope for the following work from **registered electrical contractors** of NISER those who have worked for DAE or its Organizations or Govt. /Semi Government organizations and **having a valid ELBO License** and have successfully carried out a minimum of one/two/three similar works (BUILDING or Lab. Wiring/ LAN Points) of 80%/60%/40% respectively of the estimated cost or above, as indicated below during the last five years. The eligible contractors may submit their bid along with supporting documents of fulfilling the above conditions otherwise the bids bear the risk of not being considered. The eligible contractors are also required to submit the self-attested copies of PAN Card, Registration and GST REGISTRATION certificate, ELBO License, etc. as mentioned in the NIT.

In support of fulfilling all the essential conditions mentioned in the previous Para the contractor shall submit the past details, mentioning the name of work, estimated cost, tendered amount, gross value of work done, date of commencement as per agreement & actual date of completion as per agreement along with schedule of quantities executed and any penalty levied due to delay in executing the work from an officer not below the rank of Executive Engineer (Electrical).

Name of Work	Estimated Cost ₹	Earnest Money ₹	Duration of work
<b>Name of the work:</b> -"Additional Power point installation for equipment and Installation of LED Light fixture with wiring in Mathematics building at NISER, Jatni." NIT No. NISER/IWD-ELECT./ (2017-18)/073 , Dt. 12.09.2017	4, 68,869.00 /-	9,377.00 /-	30 (Thirty ) Days

The tender document can be down loaded from the Institute's website <http://www.NISER.ac.in>. & submitted along with tender cost of ₹500.00 & EMD of ₹9,377.00, separately in the form of A/C payee DD/ Banker's cheque drawn on any scheduled Bank, in favor of Finance Officer of NISER.

The tender documents are to be submitted in a Single envelope in sealed cover. The documents in support of eligibility criteria of the contractor, tender cost and EMD along with the bid are to be submitted in a sealed cover super scribing the name of work, address of contractor and date of opening. Bids complete in all respects will be accepted up to **3.30 PM on 21st Sept. 2017** and **the bid will be opened at 4.00 PM on 21st Sept. 2017**.

Director of NISER, reserves the right to accept/reject any/all tenders without assigning any reason whatsoever. Part or incomplete tenders will be summarily rejected. No further correspondences whatsoever shall be entertained in this regard. Canvassing in any manner shall result in rejection of the tender.

Any dispute arising out of this shall subject to Bhubaneswar jurisdiction only.

  
**REGISTRAR** 12/9/17  
**NISER**  


**General Terms and Conditions:**

1. Sealed tenders are hereby invited for the work of -“**Additional Power point installation for equipment and Installation of LED Light fixture with wiring in Mathematics building at NISER, Jatni.**” The estimated cost of work is **₹4, 68,869.00/-** (based on DSR-2016). The Earnest Money Deposit is **₹9,377.00/-** Registered/ empaneled contractors of NISER, those who have worked for DAE or its units or in any Govt./Semi Govt. organizations, having valid ELBO License and have successfully carried out minimum one/two/three similar work (BUILDING or Lab. Wiring/ LAN Points work) of 80%/60%/40% respectively of the estimated cost and above during the last five years, The eligible contractors may submit their bid along with supporting documents of fulfilling the above conditions otherwise their bids bear the risk of not being considered. The eligible contractors are also required to submit the self-attested copies of PAN card, registration and GST REGISTRATION certificate.

In support of fulfilling all the essential conditions mentioned in the previous Para the contractor shall submit the details of the past work, mentioning the name of work, estimated cost, tendered amount, gross value of work done, date of commencement as per agreement & actual date of completion as per agreement along with schedule of quantities executed and any penalty levied due to delay in executing the work from an officer not below the rank of Executive Engineer (Electrical).

2. The estimated cost of the work is **₹4, 68,869.00/- (Rupees Three Lakhs Thirty eight Thousand Seven hundred and seventy seven only.)** (as per DSR- 2016).
3. Period for completion of the work will be **30 (Thirty) days** and the date of commencement shall be reckoned from the tenth day of issue of award letter.
4. The tender documents can be made available at the office of SO-D (Elect.) on written request along with the tender cost through DD. No cash will be accepted towards tender cost.
5. Tenders should be submitted in the prescribed format (Non-transferable), which may be down loaded from NISER website: [www.NISER.ac.in](http://www.NISER.ac.in), or collected from the office of the SO-D (Elect.) by depositing the tender cost of **₹500/- (Rupees Five hundred only)** through A/c payee DD or pay order from any scheduled bank drawn in favor of the Finance Officer of NISER before the date of submission. In case of downloaded tenders, the cost of tender document shall be submitted along with the bid. Please note that tender documents are not transferable.
6. Tender documents are to be submitted in a sealed cover. The cost of tender (if downloaded), EMD and the documents in support of eligibility criteria along with the bid should be covered in a single envelope **super scribing the name of work, address of contractor and date of opening**. Tenders complete in all respects, will be accepted up to **3.30 PM on 21st Sept. 2017**. The bid shall be opened at **4.00 PM on 21st Sept. 2017**. Please note, that bids submitted without tender cost (if downloaded) and EMD are summarily being rejected.

Tenders should be dropped in the Tender Box before the closing date and time indicated above or should be send by regd. /speed post to **Scientific Officer-D (Elect.)** of NISER at **Jatni Campus, Bhipur, Dist: Khurda, Pin-752050** to ensure that the same reaches before the date and time indicated above. Late or delayed tenders are liable for rejection.

7. The Earnest Money amounting to **₹9,377.00 (Rupees Six thousands Seven hundred and Seventy six only)** as demand draft or pay order from any scheduled Bank and drawn in favor of the **Finance Officer of NISER** should be deposited along with the tender documents. Tender received without earnest money will be invalid and rejected.

8. Director of NISER does not bind himself to accept the lowest or any tender and reserves the right to accept the tender either in whole or in part. The decision of the Director shall be final in this regard.
9. Canvassing in any manner or form will lead to rejection of the Bid.
10. The tenderer shall not be permitted to bid for works in any unit of DAE where any of his/her relatives are employed. He shall also intimate the names of any such persons who are working with him in any capacity or subsequently employed by him and whose relatives are working in DAE or its units.

**NOTE :**

A person shall be deemed to be a relative of another if, (a) they are members of a Hindu undivided family; or (b) they are husband and wife; or (c) the one is related to the other in the following manner : Father, Mother (including step mother), Son (including step son), Son's wife, Daughter (including step daughter), Father's father, Son's son, Son's wife, Son's daughter, Son's daughter's husband, Daughter's husband, Daughter's son, Daughter's son's wife, Daughter's daughter, Daughter's husband, Brother (including step brother), Brother's wife, Sister (including step sister), Sister's husband.

11. The Bid shall remain valid for a minimum period of 90 days from the date of opening of the tender for the purpose of acceptance and award of work. Validity beyond 90 days from the date of opening shall be by mutual consent.
12. The Tenderer shall quote the rates both in figures as well as words. The cost of individual items shall also be worked out and mentioned in the financial bid (both in figures and words). On check if there are differences between the rates quoted by the tenderer in words and in figures or in the amount worked out by him, the following procedure shall be followed
  - i) When there is a difference between the rates in figures and in words, the rates, which correspond to the amounts worked out by the bidder for individual items, shall be reckoned.
  - ii) In case, the amount of an individual item is not mentioned by the bidder or it does not correspond with the rate written either in figures or in words, the rate quoted by the bidder in words shall be reckoned.
  - iii) In case the rate quoted by the bidder, both in figures and in words tallies but the amount is not worked out correctly, the total rate quoted by the bidder shall be taken as correct.
13. The tenderer should see and obtain the drawings. In case of any queries, necessary clarifications may please be sought from the office of the Scientific Officer-D (Electrical). No claim whatsoever will be entertained in this regard for any alleged ignorance, thereof.
14. Before tendering, the tenderer shall inspect the site to fully acquaint himself about the condition in regard to accessibility to site, nature and extent of ground, working condition of site and locality including stacking of materials, conditions affecting accommodations and movement of labour, etc., which are required for satisfactory execution of the work. No ignorance of the same, whatsoever shall be entertained under any circumstances.
15. EMD is liable to be forfeited if the contractor fails to commence the work as per award letter.

16. Except writing rates and amount, the tenderer should not write any conditions or make any changes, additions, alterations and modifications in the printed tender form. Tenderer who are desirous to offer rebate the same should be brought out separately in the covering letter and submit along with the financial bid.
17. Some of the provisions of the contract are given below.
- a). DEFECT LIABILITY PERIOD - Twelve months from the date of completion as certified by the authorized engineer.
  - b). MINIMUM VALUE OF WORK FOR THE INTERMEDIATE CERTIFICATE Intermediate certificate for a lesser amount can be admitted for payment at the discretion of the Institute.
  - c). SECURITY DEPOSIT - A sum @ 5% of the gross amount of the bill shall be deducted from each running bill of the contractor, till the sum along with the sum already deposited as earnest money, will amount to security deposit of 5% of the tendered value of the work. In addition, the contractor shall be required to deposit an amount equal to 5% of the tendered value of the contract as **Performance Security** within the period prescribed for commencement of work in the letter of award issued to him.
  - d). COMPENSATION – In the event of any delay in completion of the work beyond the scheduled period, the contractor shall pay an amount equal to one per cent of the total cost of work or such smaller amount as decided by Director of NISER (whose decision shall be final) as compensation to the institute, for every week that the work remains un-commenced or unfinished. Compensation to be paid shall not exceed ten per cent of the estimated cost of the total work as per award letter.
18. Stores to be issued: - No material shall be issued by the Institute. The responsibility for arranging all materials from approved manufacturer as per award letter lies with the contractor.
19. There will be deduction of TAX from every RA bill and also from the final bill of the contractor at the rate prescribed by govt. of India from time to time.
20. The successful bidder will be required to submit the names, qualifications and experiences of the supervising staff to be deployed for execution of the work. In case of any changes occurring during the course of execution of the said work, the same shall also be intimated by the bidder to the institute.
21. The tenderer should also submit the detail list of tools and plants/ machineries/ equipment, etc. that he proposes to place at the site of work.
22. The Contractor shall have to make his own arrangements for storage of materials required for execution of the work and NISER in any manner shall be held responsible for the storage and safe custody of the said materials at work site.
23. Electricity will be supplied to the site of work at one point only if required and Contractor can do onward distribution with metering arrangement as per the requirement. Electricity charges; if any will be recovered from the Contractor's bill based on meter readings towards its consumption.



24. Before commencement of the work, the contractor has to submit the list of tools and plants brought to the site of work. No items other than the list submitted will be allowed to be taken out from the work site.
25. All the mandatory testing charges will be borne by the contractor.
26. Cost escalation in any manner whatsoever, will not be accepted for the said work, where in the stipulated period of completion of work is 18 (eighteen) months or less.
27. The work will be executed as per CPWD guidelines and DAE works procedure under the supervision of Engineer-In-charge of NISER.
28. **The tenderer shall show all the original documents which he/she has furnished in the tender within two working days after opening of bid, else otherwise the bid of the tenderer will not be considered.**

  
REGISTRAR  
NISER  




**DETAIL CREDENTIALS OF THE CONTRACTOR**

Contractors shall fill this form and enclose it with the original copy of tender (Technical Bid)

Name of the Contractor \_\_\_\_\_

Firm of the Contractor \_\_\_\_\_

Telephone No. (Official) \_\_\_\_\_

Office Address \_\_\_\_\_

Residential Address : \_\_\_\_\_

Is the firm limited? : Yes/No.

Give name and address of partners:

Name (s)	Address (s)
----------	-------------

(a)

(b)

(c)

Partnership deed

(Please enclose self-attested copy with the bid)

Name of Bankers

M/s. \_\_\_\_\_

Power of Attorney

Please enclose attested copy/original Power of Attorney in case of firm

**NAME AND ADDRESS OF PERSON HOLDING POWER OF ATTORNEY**

Name \_\_\_\_\_

Address \_\_\_\_\_

Specimen signature, of persons holding Power of Attorney.

Registration particulars:-

1. Registered with:
2. Registration No.:
3. Financial limit up to which registered:
4. Trade for which registered:
5. Details of BUILDING (if any):
6. Details of Furniture (if any):
7. Details of Electrification(if any):
8. Details of Sanitary Installation (if any):
9. Details of Earthwork (if any):
10. Supply of materials:



# राष्ट्रीय विज्ञान शिक्षा एवं अनुसंधान संस्थान, भुवनेश्वर

(परमाणु उर्जा विभाग, भारत सरकार का एक स्वयं शासित संस्थान)

**NATIONAL INSTITUTE OF SCIENCE EDUCATION AND RESEARCH, BHUBANESWAR**

(AN AUTONOMOUS INSTITUTE UNDER DEPT. OF ATOMIC ENERGY, GOVT. OF INDIA)

Name of work: -“Additional Power point installation for equipment and Installation of LED Light fixture with wiring in Mathematics building at NISER, Jatni.”

## SCHEDULE OF QUANTITIES

SL No.	Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
	<b>Light Fixtures &amp; Fittings:</b>				
1	Supply, installation, testing & commissioning of <b>fixtures &amp; fittings etc complete with accessories, tube/LED/lamp etc</b> along false ceiling fixed with wall plug on ceiling or by 2 nos. (minimum) of 6 mm, anchor fasteners or on wall by means of 25 x3 mm G.I strip bend into shape & with 2 nos. of wood screws, nylon plug etc., suitable supporting frame fixed with rag bolts grouted on the wall/anchor fastener on the beam/on the column/Ceiling & other fixing accessories etc provision & as per the instruction of E.I.C. <b>Note:1) Min Ground clearance: 2700 MM</b> <b>2) False ceiling depth: 600-700 MM</b> <b>3) All fixtures shall be with low loss electronic ballast.</b>				
	Decorative Recessed mounted (595 mm x 595) Luminaire with FullGlow (High Efficiency) 38 Watt LED Luminarie Ref Model : RC380B LED34S-6500 G3 PSD OD or Similar light Make: Philips Only <b>(Unit Rate Rupees _____)</b>	Nos.	8		
2	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit/PVC Casing as required. Make: Polycab/CCi/RR Kabel Size: 3 x 1.5 sq. mm <b>(Unit Rate Rupees _____)</b>	Mtr	110		

No. of Cutting :  
No. of Corrections :  
No. of Over writing :

Signature of tenderer  
with date & address

3	Supplying and fixing of 6Module modular box with 3 nos. of 5/6A socket outlet with 2 nos. of Modular switch including Modular box installation, fixing of switch and socket and connection.) 3 socket and 2nos. Of Switch each Make: Legrand (Myline) only  (Unit Rate Rupees _____)	Nos.	20		
4	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ PVC conduit/PVC casing n capping as required. (Power point Wiring) Cable: 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire Make: Polycab/CCi/RR Kabel (Unit Rate Rupees _____)	Mtr	250		
5	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 160 A, tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required. (vertical TPN distribution boards (x160 h3 MCCB incomer)(Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.) 8 way, MCCB+24 modules VYV08DM, Hager (Hager/Legrand/ Equivalent) Approved Make (Unit Rate Rupees _____)	Each	1		
6	160A, 36kA, X160 frame h3 MCCB (Hager/Schnider) (Unit Rate Rupees _____)	Nos.	1		
7	100 A 3P MCCB C curve - 10 kA Make: Hager/Legrand (Unit Rate Rupees _____)	Nos.	4		
8	100 A 4P MCCB C curve - 10 kA Make: Hager/Legrand (Unit Rate Rupees _____)	Nos.	4		
9	63 A, 16 kA, TPMCB Make: Hager/Legrand (Unit Rate Rupees _____)	Nos.	4		

Total No. of cuttings:

Total No. of corrections:

Total No. of Over writings:

Signature of the Tenderer

10	Supply, Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of following size on wall surface as required with double run 8 SWG GI wire. Cable Size: 3.5Cx50 Sq MM CU Armoured Copper flexible cable. Cable Make: Polycab/CCI/RR Kabel  <b>(Unit Rate Rupees _____)</b>	Mtr	50		
11	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 kV grade as required. 3½ X 50 sq. mm (35 mm) <b>(Unit Rate Rupees _____)</b>	Set	2		
12	Supply, Laying and fixing of one number PVC insulated and PVC sheathed / XLPE unarmoured power cable of 1.1 kV grade of following size on wall surface as required with double run 8 SWG GI wire. 3.5Cx35 Sq MM MM CU Un-armoured Copper flexible cable. Make: Polycab/CCI/RR Kabel <b>(Unit Rate Rupees _____)</b>	Mtr	30		
13	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 kV grade as required. 3½ X 35 sq. mm (35 mm) <b>(Unit Rate Rupees _____)</b>	Set	6		
14	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in existing Casing capping 4 X 10 sq. mm + 2 X 6 sq. mm earth wire Make: Polycab <b>(Unit Rate Rupees _____)</b>	Mtr	100		

Total No. of cuttings:

Total No. of corrections:

Total No. of Over writings:

**Signature of the Tenderer**

15	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in existing Casing capping 4 X 6 sq. mm + 2 X 6 sq. mm earth wire Make: Polycab  (Unit Rate Rupees _____)	Mtr	50		
16	Supplying and fixing 6way 6 Module double door sheet steel enclosure on surface/ recess along without MCB complete with connections, testing and commissioning etc. as required. Hager:VYM06C Make: Hager/Legrand  (Unit Rate Rupees _____)	Each	3		
17	Supplying and fixing 4P double door sheet steel enclosure on surface/ recess along with 63 A, 415 V "C" curve 10KA FP MCB complete with connections, testing and commissioning etc. as required. Make: Hager/Legrand  (Unit Rate Rupees _____)	Each	2		
18	Supply and fixing of following sizes of Casing Capping along with Accessories in surface/recess including cutting the wall and making good the same in case of making recessed conduit as required. Casing Capping Size:- 50x16 mm , Make:- Precesion/AKG/Kingal  (Unit Rate Rupees _____)	Meter	100		
19	Supply and fixing of 25 MM Dia PVC Flexible conduit in surface as required.  (Unit Rate Rupees _____)	Meter	50		
<b>Total Amount</b>					

Total No. of cuttings:

Total No. of corrections:

Total No. of Over writings:

(Total amount Rupees \_\_\_\_\_)

(Total Items: 19 only)

Date: .....

**Signature of the Tenderer  
With Address**

**NOTE**

Bidders are required to quote against each item legibly and arrive at the total cost of work. The summary sheet and abstract of cost should be filled in properly. All pages should be duly signed by the bidder failing which the tender may be rejected.



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**TENDER DOCUMENTS**

(NIT No. - NISER/IWD-ELECT./ (2017-18)/073, Dt.12.09.2017)

**Tender for** -“Additional Power point installation for equipment and Installation of LED Light fixture with wiring in Mathematics building at NISER, Jatni.”

**SUMMARY SHEET**

1. Brought forward from Page No.....	Schedule of quantities:	Rs.
2. From page No.....	-do-	Rs.
3. From page No.....	-do-	Rs.
4. From page No.....	-do-	Rs

TOTAL

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

C.O. to Page – ABSTRACT OF COST Rs. \_\_\_\_\_

**SIGNATURE OF THE TENDERER**





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(NIT No. NISER/IWD-ELECT./ (2017-18)/073, Dt.12.09.2017)

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**ABSTRACT OF COST**

TOTAL COST BROUGHT FORWARD FROM PAGE 12 to 15

(Rupees \_\_\_\_\_  
\_\_\_\_\_ ) only

**SIGNATURE OF THE TENDERER**

### Technical Specifications

1. **Work should be carried out as per CPWD electrical specification.**
2. **Circuit wiring:** - Phase, Neutral & Earth wire shall be connected up to Switch Box.
3. In wiring, no joints in wiring will be permitted anywhere, except in switch box or point outlets, where jointing of wires will be allowed with use of suitable connector.
4. **2.5 sq mm for points & circuit wiring, 4 sq. mm for power plug point wiring, 6 sq mm & above size for Sub-main wiring, i.e. Panel to DB etc. as per site plan/project requirement as directed by Engineer-in-charge.**
5. Drawing of PVC insulated copper conductor cable should not be excess from maximum capacity of conduit, as per clause [4.2.1 (ii)]
6. MCB DBs pre-wired type & brand name/make as specified in the tender only.
7. Only quality materials of reputed make as specified in the tender will be used in work.
8. The contractor shall engage suitably **skilled/licensed workmen** of various categories for execution of work & **supervised by supervisors / Engineer of appropriate qualification** & experience to ensure proper execution of work. They will carry out instructions of Engineer-in-charge & other senior officers of the Institute during progress of work.

### MEASUREMENT AND RA/ FINAL BILL

1. The contractor shall submit his running and final bills with detail measurement for the purpose of payment & bills shall be processed by the various offices for payment, as per existing procedure. He has to sign the MB Book as an acceptance to the measurements carried out by the engineer in charge of NISER, based on which the RA/Final Bill shall be generated for payment.
2. The contractor shall extend all possible co-operations for checking the measurement. Decision of the engineer in charge (electrical) of NISER shall prevail. In case of any dispute, the final decision lies with the Director of NISER, which shall be binding on both the parties.

### OTHERS

If, the contractor has to remove/dismantle any old, damaged wiring & fixtures etc. for the purpose of execution of the said work, the same shall be deposited with NISER Stock Yard along with the list of materials under intimate to the concerned Engineer in- Charge. No extra payment will be made by the institute for this purpose.

**SIGNATURE OF THE TENDERER**