



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, AC point and Fan installation in Department library and Maintenance free Chemical earthing in Different Lab of SCS building.”

NIT No. & Date:-NISER/IWD-ELECT/ (2017-18)/078
Dt.02.11.2017

Estimated cost of tender: - ₹4, 72,482.00/-

Completion time: - 30 (Thirty) days

NAME OF THE WORK

“Additional Power point, AC point and Fan installation in Department library and Maintenance free Chemical earthing in Different Lab of SCS building.”

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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(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)

TENDER DOCUMENTS

File No. NISER/IWD-ELECT./ (2017-18)/078

Name of work: -“Additional Power point, AC point and Fan installation in Department library and Maintenance free Chemical earthing in Different Lab of SCS building.”

I N D E X

Sl. No.	Particulars	Page No.	Remarks
1.	Notice Inviting Tender and General Term and Condition for works.	1- 09	Tech. Bid
2.	Detailed list of completed works by the Contractor	10	-Do-
3.	Detail credential of the Contractor	11	-Do-
4.	Schedule of Quantities	12-14	Second part
5.	Summary Sheet	15	-Do-
6.	Abstract of cost	16	-Do-
7.	Technical Specifications and other conditions of work	17	
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
 NISER

21/17
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राष्ट्रीय विज्ञान शिक्षा एवं अनुसंधान संस्थान, भुवनेश्वर
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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)/078, Dated. 02.11.2017

Name of the work: -“Additional Power point, AC point and Fan installation in Department library and Maintenance free Chemical earthing in Different Lab of SCS building.”

Estimated Cost	:	Rs. 4, 72,482.00/-
Earnest Money	:	Rs. 9,450.00/-
Period of Completion	:	30 (Thirty Days).
Cost of tender (non-refundable)	:	Rs. 500/- (Rupees five hundred only)

Last date of receipt of tender: **16th Nov. 2017 up to 3.30 p.m.**

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REGISTRAR
NISER
Neel



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 CPWD, MES, Railways and State PWDs and/NISER or 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
Name of the work: -“Additional Power point, AC point and installation in Department library and Maintenance free Che earthing in Different Lab of SCS building.” NIT No. NISER/IWD-ELECT./ (2017-18)/078 , Dt. 02.11.2017	4, 72,482.00 /-	9,450.00 /-	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 ₹9,450.00, 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 16th Nov. 2017** and **the bid will be opened at 4.00 PM on 16th Nov. 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
NISER
 2/11/17
 [Handwritten initials]

General Terms and Conditions:

- 1 Sealed tenders are hereby invited for the work of -“**Additional Power point, AC point and Fan installation in Department library and Maintenance free Chemical earthing in Different Lab of SCS building.**” The estimated cost of work is ₹4, 72,482.00/- (based on DSR-2016). The Earnest Money Deposit is ₹9,450.00/- The Contractor who is registered in CPWD, MES, Railways and State PWDs and/NISER or, 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, 72,482.00/- (**Rupees Four Lakhs Seventy two thousand four hundred and eighty two 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, 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), EMF 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 16th Nov. 2017.** The bid shall be opened at **4.00 PM on 16th Nov. 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 ₹9,450.00 (**Rupees Nine Thousand Four hundred and Fifty 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.
29. **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 27/11/17
NISER


List of completed works by the Contractor:

Detail list of works, completed satisfactorily during last five years (minimum 3), the value of such completed works should be approximately of the same value or near to the value of the present work, for which tender is being submitted by the contractor to NISER

Name of works	Location of site	Value of Work	Name of organization/ engineer in charge under whom the work is completed

N.B:- The copy of work order and completion certificates from the organization may be attached.

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:



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

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

Name of work: - “Additional Power point, AC point and Fan installation in Department library and Maintenance free Chemical earthing in Different Lab of SCS building.”

SCHEDULE OF QUANTITIES

SL No.	Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, VTPN MCB distribution board (MCB Incomer) 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 (Rate in word.....)		1		
2	63 A ratings, TPN MCB, “C” curve, 10 kA breaking capacity (Rate in word.....)		1		
3	6 A to 32 A ratings, TP MCB, “C” curve, 10 kA breaking capacity . (Rate		2		
4	16 A ratings, SP MCB, “C” curve, 10 kA breaking capacity (Rate in word.....)		8		
5	Supply, fixing and wiring of ceiling fan below ceiling (1200 mm sweep institutional type) with 1.5 sq.mm wires and with 2.5 sq.mm insulated earth wire complete with 6A, 240V, SP switches & 5 stepped capacitor type regulator (minimum 100 W capacity). With hanging Rod and below details accessories for ceiling etc. Min Ground clearance: 2700 MM , False ceiling depth: 600-700 MM Required Hanging GI Rod : 900 mm to 1100 mm NOTE: - Installation of fan hook clamp of 85mm long mild steel tee of size 75X75 mm fabricated out of 150mmx75 mm ISMB and making holes at the corners for fixing the same in ceiling with 4 nos of 75x10 mm long anchor fasteners & provide suitable hole in the centre of web for hanging 'S' hook and including with S shape hook made of 12 mm dia rod for hanging ceiling fan, painting of M.S. tee with two coats of red oxide primer, all as per sample approved etc & as per instruction of Engineer in charge. Make: CGL (Rate in word.....)	Each	9		

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

Signature of tenderer
with date & address

6	Supply and laying of 3.5Cx25Sqmm XLPE Armoured Alluminium conductor cable of 1.1 KV grade. (DB In coming) Make: Polycab/Universal (Rate in word.....)	Mtr	30		
7	Supplying and making end termination with brass compression gland and Tinned copper lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required. 3.5C X 25 sq. mm Cable Make: Polycab/CCI/RR Kabel/Universal (Rate in word.....)	Set	2		
8	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required. (Light Fan and Power point Wiring) Cable: 4X 4 sq. mm + 2 X 4sq. mm earth wire Make: Polycab/CCi/RR Kabel (Rate in word.....)	Mtr	100		
9	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. Make: Polycab/CCi/RR Kabel Size: 3C x 2.5 sq. mm (Rate in word.....)	Mtr	400		
10	Supplying and fixing of 9Module modular box with 3 nos. of 6/16A socket outlet with 3nos. of Modular switch including Modular box installation, fixing of switch and socket and connection.) 3 socket and 3nos. Of Switch each Make: Legrand (Myline) only (Rate in word.....)	Eac h	16		
11	Supplying and fixing of FP sheet steel enclosure on surface/ recess along with 32 A, 240 V "C" curve FP MCB complete with connections, testing and commissioning etc. as required (Including MCBs) Make: Legrand/Hager/ABB (Rate in word.....)	Set	2		

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

**Signature of tenderer
with date & address**

12	<p>Supply, Installation, Testing and commissioning of Maintenance free chemical earthing:- Electrode -The Electrode will be a solid steel rod (Copper Cladded Steel Earth Electrode) of 17mm Dia and min 3 mtr length. The thickness of the copper coating will be 250 microns and uniform with tolerance level of 0.1 micron. Earth electrodes will be visually inspected and checked for dimension and length before installation. Electrodes should not get physically crack or depleted in case of bending. The pit to be covered in FRP cover. (Including excavation and filling of material with the back field compound/Bentonite powder etc.) The electrode to be used to be tested and should be approved by CPRI Back fill Compound:- The Earth enhancement material (backfill material) or compound must have composition of Carbon, silica, chloride, calcium, tin, Mg, Lead, PBB, PBDE etc.as per the ISO standard and ISO certified by Govt. of India and to be ISO certified. (Quantity : 23 KG per Pit) Also Back filled compound to be used for good conductivity. (Rate in word.....)</p>	Each	14		
13	<p>Supplying and laying of 25 mm X 5 mm copper strip with with Rhobust pvc sleeve for earthstrip protection at 0.50 metre below ground , including connection/ terminating with nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of brass nut bolt & spring washer spaced at 50mm) (Rate in word.....)</p>	Mtr	80		
14	<p>Supply laying and fixing of 25 mm X 5 mm copper strip with Rhobust pvc sleeve for earthstrip protection, on surface or in recess for connections etc. as required (Including saddeling) (Rate in word.....)</p>	Mtr	110		
15	<p>Providing and fixing earth bus of 50 mm X 5 mm copper strip on surface with proper insulation for connections different earthing point etc. as required with all accessories. (Rate in word.....)</p>	Mtr	2		
16	<p>Supply and Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. 2 X 10 sq. mm Earth wire (Green) (Rate in word.....)</p>	Mtr	90		
Total Amount					

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

**Signature of tenderer
with date & address**

(Total amount Rupees _____)

(Total Items: 16 only)

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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(NIT No. - NISER/IWD-ELECT./ (2017-18)/078, Dt.02.11.2017)

Tender for -“ Additional Power point, AC point and Fan installation in Department library and Maintenance free Chemical earthing in Different Lab of SCS building”

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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Tender for -“ Additional Power point, AC point and Fan installation in Department library and Maintenance free Chemical earthing in Different Lab of SCS building”

ABSTRACT OF COST

TOTAL COST BROUGHT FORWARD FROM PAGE 12 to 14

(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.
9. After installation of Earthing Pit, the contractor should do the required testing of Earthing in presence of NISER representatives/ Engineer. The value of earth resistance should be less than 5 Ohm and in rocky soil the resistance may be up to 8 Ohm.

MEASUREMENT AND RA/ FINAL BILL

1. The contractor shall submit his running and final bills with detail measurement for the purpose of payment & bills after testing and commissioning of electrical apparatus which 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

