



सी एस आई आर - सी आई एम एफ आर, डीगवाडीह
(Council of Scientific & Industrial Research)

NOTICE INVITING TENDER/एन आई टी

File: QP/GE/1/Elect/504/17-18

Date: 02.07.2018

On line tenders are invited for the work at CSIR-CIMFR, Digwadih Campus, P.O: FRI , Dhanbad from approved and eligible electrical contractors of CPWD, State PWD, MES, RAILWAYS , P&T Department and in CSIR or Govt / Semi Govt. organization etc having successfully completed 03 (Three), 02 (Two) or 01(One) similar type of work for an amount equal to 40%, 60%, or 80% of estimated cost respectively during last seven years ending last day of month previous to the one in which tender were invited.

The following proof of documents duly attested to be submitted along with submission of tender.

1. GST Registration Certificate as applicable.
2. Income Tax Certificate/ PAN Card.
3. Valid Electrical license.
4. Completion certificate of similar type of works (including schedule) of values as mentioned above from an officer Not below the rank of executive engineer of the concerned department.
5. Tender paper will not be issued by postal arrangement.
6. Computerized Price bid documents (Rate and Amount)

	Name of work /काम का नाम	Est. cost In Rs.	Earnest Money (Rs.)	Cost of tender paper	Time of completion
1.	Renovation of Electrical works at Trainee Hostel at CIMFR, DC.	Rs. 10,02,197.00	Rs.20,044.00	Rs. 500.00	90 (ninety) Days

PART –I

- i) Proof of documents as mentioned above
- ii) Cost of Tender documents in the form of D.D.
- iii) Earnest Money Deposit in the form of D.D.

PART-II

- i) Price Bid documents (Description of item and rates)

On line tenders will be available from 04/07/2018 to 16/07/2018 in www.eproc.gov.in and that can be downloaded and submitted on line. Those parties who submit their tender documents after downloading, the papers shall be required to pay the above mentioned cost for Tender Documents & Earnest money in the form of Account Payee D.D. from any nationalized schedule bank drawn in favour of Director, CIMFR, Dhanbad payable at SBI, Hirapur, along with their Technical Bid.

The Part-I & Part-II should be submitted on line on or before 18/07/2018 at 3:00 P.M and bids will be opened on 19/07/2018 at 3.30 P.M in presence of the intending tenderers or their authorized representatives whoever present themselves at the time of opening of tenders. **The Tender Cost and EMD have to be submitted on the address of ELECTRICAL SECTION CIMFR, DIGWADIH CAMPUS, PIN-828108.** Part II (commercial bid) will be opened on later stage in presence of the qualified tenderers or their authorized representatives.

(Subcontracting is not allowed in case the party subcontract the awarded work, EMD will be forfeited and terminated from the contract).

EARNEST MONEY SHOULD BE DEPOSITED IN THE FORM OF ACCOUNT PAYEE DEMAND DRAFT FROM ANY NATIONALIZED SCHEDULE BANK PAYABLE AT SBI, HIRAPUR (CODE-1670) DHANBAD IN FAVOUR OF DIRECTOR, CENTRAL INSTITUTE OF MINING & FUEL RESEARCH, DHANBAD.

INCOMPLETE TENDERS, LATE / DELAYED TENDERS AS WELL AS TENDERS WITHOUT EARNEST MONEY SHALL BE SUMMARILY REJECTED.

LOWEST QUOTING FIRM HAS TO SUBMIT PERFORMANCE GUARANTEE AS PER RULE BEFORE AWARDING THE JOB. ESTIMATE BASED ON DSR-2016 & MARKET RATE. CPWD SPECIFICATION WILL BE FOLLOWED STRICTLY DURING EXECUTION.

HAND WRITTEN QUOTATION WILL NOT BE ACCEPTED FROM BIDDERS. SIMILAR WORK MEANS IN THE FIELD OF ELECTRICAL RENOVATION WORKS OR ANY SIMILAR TYPE OF WORK.

DIRECTOR, C S I R - CIMFR, RESERVES THE RIGHT OF ACCEPTING ANY TENDER IN PART OR FULL OR REJECTING ALL WITHOUT ASSIGNING ANY REASON.

sd/-

Administrative officer

INSTRUCTION TO BIDDER

1. Tenders are hereby invited for the work of (i) Renovation of Electrical works at Trainee Hostel at CIMFR, DC. File No: **QP/GE/1/Elect/504/17-18** from contractors of appropriate class of CPWD, Railways, MES, Post & Telegraph Department and/or from those who have carried, out similar, works for CSIR and Semi-Govt. Organizations. amounting to and above. The tenders are required to produce proof of fulfilling these conditions along with latest Income Tax Clearance Certificate while making request for issue to Tender documents.

2. Time for carrying out the work will be **90 (ninety) days (For Sl. No-1)**, and the date of Commencement reckoned from the tenth day of issue of the work order.

3. Complete Contract documents to be compiled with by the tenderer whose tender may be accepted can be seen at the office of **Electrical Engineering Section, CIMFR, Digwadih Campus, Dhanbad-828108.**

4. **Tender paper will be available** from 04/07/2018 to 16/07/2018 on www.eproc.gov.in or in **CIMFR website www.cimfrindia.nic.in**, Those parties who submit their tenders, shall be required to pay the above mentioned amount **(Cost of Tender Documents)** in the form of account payee D.D. drawn in favour of Director, CIMFR, Dhanbad payable at SBI, Hirapur, along with their Technical Bid. Sale of tenders shall be stopped two days before the date of opening of tenders on 18/07/2018 at 3:30 pm.

5. The Cost of tender document **Rs. 500/- (Rupees five hundred only)** and the Earnest Money amounting to **Rs. 20,044.00 (rupees twenty thousand forty four only)** as demand draft or pay order of a schedule bank and drawn in favour of "Director CIMFR, Dhanbad" should accompany the tender. **Tenders received without earnest money will be invalid.**

6. The employer does not bind himself to accept the lowest or any tender and reserves to himself the right of accepting the whole or any part of the tenderer shall be bound to perform the same at the rates quoted.

7. Canvassing in connection with the tenders is prohibited and the tenders submitted by the contractor who resort to canvassing are liable for rejection.

8. The tender shall not be permitted to tender for works in the concerned unit of CSIR in which a relative is posted in grade between Controlled of Administration and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or subsequently employed by him and who relatives are as mentioned above.

NOTE : A person shall be deemed to be a relative of another if, and only 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's, mother (including step mother), Son (including step son), Son's wife, Daughter (including step daughter), father's father, son's son, Son's son's wife, son's daughter husband, Daughter's husband, Daughter's son, Daughter's son's wife, Daughter's daughter, Daughter's daughter's husband, Brother (including step brother), Brother's wife, Sister (including step sister), Sister's husband.

9. Tender submitted shall remain valid for 90 days from the date of opening for the purpose of acceptance and award of work, validity beyond 90 days from the date of opening shall be by mutual consent.

10. **The tenderer shall quote rates both in figures and words.** He shall also work-out the amount for each item or work and write in both 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 tenderer shall be taken as correct.
- ii) When the amount of an item is not worked out by the tenderer or it does not correspond with the rate written either in figures or in words, the rate quoted by the tenderer in words shall be taken as correct.
- iii) When the rate quoted by tenderer in figures and in words tallies but the amount is not worked out correctly the rate quoted by the tenderer shall be taken as correct and not the amount.

11. The tenderer should see drawings and in case of doubt obtain required particulars, which may in any way influence his tender from the Engineer as no claim whatsoever will be entertained for any alleged ignorance thereof.

12. Before tendering, the tenderer shall inspect the site to fully acquaint himself about the condition in regard to accessibility of site, nature and extent of ground, working condition of site and locality including stacking of materials, Installations of tools and plants (T&P) etc., conditions affecting accommodations and movement of labour etc. required for the satisfactory execution of the work contract. No claim whatsoever on such account shall be entertained by the Employer in any circumstances.

13. Earnest money will be forfeited if the contractor fails to commence the work as per letter of award.
14. Except writing rates and amount, the tenderer should not write any conditions or make any changes, additions, alterations and modifications in the printed form of tenders. Tenderers who are desirous to offer rebate the same should be brought out separately in the covering letter and submitted alongwith the tender.
15. Some of the provisions of General Conditions of Contract are given below. Interpretation however shall be as given in the General Conditions of Contract.
- a) DEFECTS LIABILITY PERIOD: TWELVE months from the date of completion as certified by the Employer.
 - b) MINIMUM VALUE OF WORK FOR THE INTERMEDIATE CERTIFICATE: Rs. _____ (Rupees _____ Only). Intermediate certificate for a lesser amount can be admitted for payment at the discretion of the Engineer.
 - c) SECURITY DEPOSIT: Security deposit shall be deducted from the running bills of 10% of the gross value of work done and measured inclusive of Earnest Money subject to a maximum of Rs. ----- (Rupees -----)
 - d) COMPENSATION: Contractor shall pay as compensation an amount equal to one percent or such smaller amount as the Employer (whose decision in writing shall be final) may decide on the cost of the whole work shown in the agreement, for every week that the work remains uncommenced or unfinished or due quantity of work remains incomplete after the proper dates. Compensation to be paid shall not exceed ten percent of the estimated cost of work as showing in the agreement.
16. Schedule showing approximate quantity of materials to be supplied by the Employer under Clause: 6 of the General conditions of contract for works contracted to be executed and the rate at which they are to be charge

Particulars of materials	Approx. Qty.	Rates at which the material will be charged to the contractor			Place of delivery
		Unit	(Rs.) (Figure)	Rupees (Words)	

NOTE : The Tenderer shall ensure that particulars in the above form are filled in by the Engineer before he submits the tender.

17. For all specialist jobs e.g. lights for conditioning, Public address, fire protection, security surveillance and building management systems, technical (covering also general conditions and commercial terms) and financial offers will be given separately in two sealed covers.

CSIR-CENTRAL INSTITUTE OF MINING AND FUEL RESEARCH (DIGWADIH CAMPUS)

File no- QP/GE/1/ELECT/504/17-18

Name of Work - Renovation of Electrical works at Trainee Hostel at CIMFR, DC

Sl no	Item description	Quantity	Rate (Rs)	Amount (Rs)
1.	Wiring for light point/fan point/exhaust fan point/call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable (make – Anchor /polycab / havells with ISI mark)in surface /recessed medium class PVC conduit (make-Polycab / Havells/Anchor with ISI mark), with modular switch , moduler plate ,suitable size GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated Group A (1.10.1)	130 nos		
2.	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connection but excluding modular plate etc as required. (Switch & Socket make- Anchor/ Cona/ Havells with ISI mark). a) 5/6 amps switch. (1.24.1) b) 15/16 amps switch. (1.24.3) c) 3 pin5/6 amps socket outlet(1.24.4) d) 6 pin 15 Amps socket outlet(1.24.5) e) 2 way 5/6 Amp switch (1.24.2)	47 nos 28 nos 47 nos 48 nos 04 nos		
3.	Supplying and fixing following size/modules ,GI box alongwith modular base and cover plate for modular switches in recess etc. i) 1 or 2 module (75cm x 75cm) (1.27.1) ii) 4 modules (125mm x 75mm)(1.27.3) iii) 6 module (200mm x 75 mm)(1.27.4) iv) 8 module (125mm x 125 mm) (1.27.5)	42 nos 04 nos 22 nos 26 nos		
4.	Wiring for circuit / sub main wiring along with earth wire with the following size of FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit as required. (conductor make- Anchor/ havells / HPL/ polycab) a. 2 x 2.5 sq.mm + 1 x 2.5 sq.mm earth wire (1.14.2) b. 2 x 4 sq.mm + 1 x 4 sq.mm earth wire (1.14.3) c. 4 x 10 sqmm + 2 x 6 sqmm earth wire (1.14.10)	397 m 498 m 18 m		
5.	Supplying and fixing two module stepped type electronic fan regulator (Anchor/Havells)on the existing modular plate switch box including connections but excluding modular plate etc. as required. (1.25)	22 nos		
6.	Supplying and fixing modular blanking plate on the existing modular plate and switch box excluding modular plate as required. (1.26)	30 nos		
7.	Supplying and Laying of one number PVC insulated and PVC sheathed / XLPE aluminium armoured power cable of 1.1 kV grade of following size direct in ground including excavation, sand cushioning , protective covering and refilling the trench etc. as required. (cable make- Polycab / Finolex/ Havells with ISI mark and IEC certified and TC,WC/GC must be provided) 6 sqmm 2 core	176 m		

8.	Supplying and Laying of one number PVC insulated and PVC sheathed / XLPE aluminium armoured power cable of 1.1 kV grade of following size direct in existing RCC /Metal /Hume pipe. as required. (cable make- Polycab / Finolex/ Havells with ISI mark and IEC certified and TC,WC/GC must be provided) 6 sqmm 2 core	54 m		
9.	Supplying and Laying of one number PVC insulated and PVC sheathed / XLPE aluminium armoured power cable of 1.1 kV grade of following size inside the wall by cutting the wall or in wall surface clamping it with 1mm thick saddle and making good. as required. (cable make- Polycab / Finolex/ Havells with ISI mark and IEC certified and TC,WC/GC must be provided) 6 sqmm 2 core	40 m		
10.	Supply and fixing of light class GI pipe of 50 mm dia (nominal) 3 metres length alongthe pole for protection of underground cable as required Pipe make- TATA/JINDAL with ISI mark (12.37)	18 nos		
11.	Supply and fixing of light class GI pipe of 80 mm dia (nominal) 3 metres length alongthe pole for protection of underground cable as required Pipe make- TATA/JINDAL with ISI mark (12.38)	2 nos		
12.	Supplying ,laying and fixing of one number PVC insulated and PVC sheathed/ XLPE aluminium armoured power cable of 1.1 KV grade of following size inside the wall by cutting the wall clamping it with 1mm thick saddle and making good as required (cable make- Polycab / Finolex/ Havells with ISI mark and IEC certified and TC,WC/GC must be provided) a) 35 sqmm 3.5 core	100 m		
13.	Supplying ,laying and fixing of one number PVC insulated and PVC sheathed/ XLPE power cable of 1.1 KV grade of following size inside the wall by cutting the wall and making good as required a) 50 Sqmm 3.5 core	100 m		
14.	Supplying and Laying of one number PVC insulated and PVC sheathed/ XLPE power cable of 1.1 KV grade of following size direct in ground including aluminum armoured power cable direct in ground including excavation sand cushioning, protective covering and refilling the trench etc as required. (cable make- Polycab / Finolex/ Havells with ISI mark and IEC certified and TC,WC/GC must be provided) a) 150 sqmm 3.5 core	35m		
15.	Supplying and Laying of one number PVC insulated and PVC sheathed/ XLPE aluminium armoured power cable of 1.1 KV grade of following size on wall/ pole (clamped with 40 x 3 mm MS flat clamp) etc as required. (cable make- Polycab / Finolex/ Havells with ISI mark and IEC certified and TC,WC/GC must be provided) a) 150 sqmm 3.5 core	10 m		

16.	Supplying and Laying of one number PVC insulated and PVC sheathed/ XLPE power cable of 1.1 KV grade of following size direct in ground including aluminum armoured power cable direct in ground including excavation sand cushioning, protective covering and refilling the trench etc as required. (cable make- Polycab / Finolex/ Havells with ISI mark and IEC certified and TC,WC/GC must be provided) a) 25 sqmm 2 core	35m		
17.	Supplying and Laying of one number PVC insulated and PVC sheathed/ XLPE aluminium armoured power cable of 11 KV grade of following size on wall/ pole (clamped with 40 x 3 mm MS flat clamp) etc as required. (cable make- Polycab / Finolex/ Havells with ISI mark and IEC certified and TC,WC/GC must be provided) a) 25 sqmm 2 core	10m		
18.	Supplying and making outdoor end termination with cast resin compound (make-cab seal/M seal/polycab/Rachame with ISI or IEC mark) including aluminium lugs and other joining materials for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable 1.1 kV grade as required i) 2 x 25 sqmm ii) 3.5 x 150 sqmm	01 no 01 no		
19.	Supplying and fixing following way single pole and neutral sheet steel MCB distribution board , (make-L&T/Siemens/Havells) 240 v, on recess/ surface complete with tinned copper bus bar , neutral bus bar , earth bar , din bar , interconnections, power painted including earthing etc. as required (But without MCB) 6 way double door (2.3.1)	01 no		
20.	Supplying and fixing 5A to 32 A rating 240/415 V ,10 KA “C” curve , miniature circuit breaker suitable (make-L&T/Siemens/Havells) for inductive load of following poles in the existing MCB DB complete with connections , testing and commissioning etc. as required Single pole and neutral (2.10.2)	02 nos		
21.	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. i) 2 x 6 sqmm (9.1.1) ii) 2 x 25 sqmm (9.1.4) iii)3.5 x 35 sq mm iv)3.5 x 50 sqmm v) 3.5 x 150 sqmm	44 nos 01 no 04nos 04 nos 01 no		
22.	Supplying and fixing of following way horizontal type three pole and neutral ,sheet steel ,dust protected, MCB distribution box (make-L&T/Siemens/Havells),415V ,on surface/recess , complete with tinned copper bus bar, common neutral link , earth bar , din bar ,interconnections , powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator) i) 4 way (4 + 12) double door (2.4.1) ii) 6 way (4 + 18), Double door (2.4.2) iii) 8 way (4 + 24) Double door (2.4.3)	02 nos 01 no 04 nos		
23.	Supply and fixing following rating four pole 415 V MCB (make-L&T/Siemens/Havells) in existing MCBDB complete with connection , testing , and commissioning as required. Make-L&T /Havelles/ Siemens a) 63 Amps b)100 Amps	03 nos 02 nos		

24.	Supplying and fixing 5A to 32 A rating 240/415 V ,10 KA “C” curve , miniature circuit breaker (make-L&T/Siemens/Havells) suitable for inductive load of following poles in the existing MCB DB complete with connections , testing and commissioning etc. as required Single pole (2.10.1)	73 nos		
25..	Supply and erection of metallic pole fabricated with medium grade GI pipe of dia 65mm of length 2.5 m and joined with 50mm dia GI pipe of length 1 m by GI reducer socket of size 65mm x 50mm by welding and materials should be TATA/JINDAL,with ISI mark, foundation should be made in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size) including excavation ,refilling, welding , machining etc. as required.	18 nos		
26.	Supply and fixing of Suitable size thermoplastic outdoor fire proof cable junction box (make- Hensel /Schneider with ISI or IEC certified) IP 55/ IP65 , size 200 mm x 160 mm x 98 mm fitted with 2 nos suitable Aluminium bus bar and 10/ 16 Amp fuse link (bus-bar size : 4” x 0.75” x 0.25”) for 6/4 sq mm size cable in wall / Pole etc as required	22 nos		
27.	Supplying and fixing metal box of following sizes (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including painting etc. as required. i) 100mm x 100mm x 60mm (1.22.2) ii) 180mm x 100mm x 60mm (1.22.5) iii) 200mm x 250mm x 60mm (1.22.7)	30 nos 25 nos 20 nos		
28.	Installation ,testing ,commissioning of pre wired fluorescent fitting/ LED fitting / wall fan of all types ,complete with all accessories and tube etc. directly on ceiling /wall including connection with 1.5 sqmm FRLS PVC insulated copper conductor single core cable and earthing etc. as required (1.41)	54 nos		
29.	Earthing with copper earth plate 600 mm x 600 mm x 3 mm thick including accessories , and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 m long etc. with charcoal /coke and salt as required. (5.6)	02 nos		
30.	Providing and fixing 25mm x 5 mm GI strip on surface or in recess for connections etc. as required.(5.15)	20 m		
31.	Installation of exhaust fan in the existing opening , including making good the damage ,connection ,testing ,commissioning etc. as required. Upto 450mm sweep (1.50.1)	22 nos		
32.	Supply and fixing of single phase electronic motor starter on suitable moduler board including connection	22 nos		
33.	Dismantling of old wiring including switch boards etc. from wall and deposit to electrical section.	500 m		
34.	Providing and making steel pole collar with cement concrete (1 cement : 3 coarse sand : 6 stone aggregate 20 mm) of specified size and shape including form work , plastering if required ,curing etc. as required (volume of pole / pipe not to be deducted) (11.5)	6 cum		

35.	<p>Supply, installation, testing and commissioning of Polycarbonate made (shock proof, rust free, corrosion free, acid and chemical resistant, fire retardant, having high impact, made of halogen and silica free recyclable material), UVresistant, having high grade gasket made of Polyurethane, should withstand glow wire test at 9600c, should be flame retardant, the feeder pillar panel should hold Type Test certificate(CPRI) with switchgear assemblies as per IEC60 439-1. following tests performed and passed out satisfactorily:</p> <ol style="list-style-type: none"> 1. Temperature Rise. 2. Dielectric Properties. 3. Short circuit withstand current - Rated peak & short time withstand current and Rated Conditional Short Circuit Current. 4. Effectiveness of Protective Circuits. 5. Clearance & Creepage Distance. 6. Mechanical Operation <p><u>Note: The board manufacturer must submit the copy of type test reports for Polycarbonate Thermoplastic Board only. Test Reports submitted of other material of construction like MS, SS will not be applicable. Each Board shall have individual routine test report of the manufacturer.</u></p> <p>System Voltage – 415V, 3Ø, 4Wire, 50Hz. Bus bar :- 400A Rating Cable entry (Incoming & out going) – from bottom Incoming – 320 A FP 36KA MCCB- 01 No. with indication lamp/voltmeter/ammeter</p> <p>Outgoing – 125A FP 25KA MCCB – 02 Nos 63A FP 25KA MCCB – 02 Nos 25A FP 25KA MCCB – 02 Nos 10A DP 10KA MCB – 01 No</p> <p>Make : MCCB – L&T, SIEMENS Make of enclosure: Hensel / Schneider Indoor/Floor Mounting</p>	01 no		
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