

# CENTRAL INSTITUTE OF MINING & FUEL RESEARCH, DHANBAD

(Council of Scientific & Industrial Research)

Barwa Road, Dhanbad- 826 015 (Jharkhand) INDIA



## CIVIL ENGINEERING SECTION

### Tenders Documents

*for*

### Execution of

**Detailed surveying of existing land, Office and township building including layout plan of CIMFR (HQ), Barwa Road, Dhanbad.**

*In*

**CIMFR Dhanbad.**

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NIT NO.:

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**CENTRAL INSTITUTE OF MINING & FUEL RESEARCH, DHANBAD**  
(Council of Scientific & Industrial Research)

**NOTICE INVITING TENDER**

No. 23(490, 500, 509, 510)/2011-GA/

Dated: 17/01/2012

Sealed tenders are hereby invited from bonafide govt. contractors, registered with CPWD, State, PWD, MES, Post and Telegraphs, Railway, Defence and other Govt. Department, CSIR or any of its laboratories, who have successfully completed at least 3 (three) similar type (equal to 40% of the estimated value) or 2 (two) similar type (equal to 50% of the estimated value) or 1 (one) similar type (equal to 80% of the estimated value) in last (7) seven years.

Sl.	Description of work	Estimated Value	Earnest money	Time of completion	Cost of Tender Documents
1.	Detailed surveying of existing land, Office and township building including layout plan of CIMFR (HQ), Barwa Road, Dhanbad.	4,81,000.00	9,620.00	3 months	500.00
2.	Providing & fixing of concertina coil from gate no. 1 to DJ Hostel to Main Pump House, Director's Bungalow to Post Office and Repairing work at Guest House, CIMFR, HQ, Dhanbad.	3,92,408.00	7,850.00	3 months	500.00
3.	Repair and Maintenance of sanitary, water supply & drainage system at colony area, CIMFR, HQ, Dhanbad.	12,35,535.00	24,715.00	8 months	500.00
4.	Providing and fixing wire net on the top of boundary of staff qtrs. at CIMFR, HQ, Dhanbad.	2,31,507.00	4,635.00	3 months	500.00

1. Attested xerox copies of valid sales tax, registration no. & Clearance certificate and PAN card.
2. Attested xerox copies of completion certificate alongwith payment received of the similar works (including schedule) of values as mentioned above from an officer not below the rank of Executive Engineer of the concerned Department.

**Tenders to be submitted in 2 Bid System**

**1. Technical Bid**

**Consists of following documents**

- a) Proof of documents as mentioned above (1-2)
- b) Earnest Money
- c) Cost of tender document (non-refundable)

**2. Price Bid**

**Consists of following documents**

- a) Costing alongwith full specifications of the items involved in the work including all Taxes & Levies as per different laws.

**Tender paper will be downloaded by the agency from CIMFR website ([www.cimfr.nic.in](http://www.cimfr.nic.in)) from 24/01/2012 to 03/02/2012 up to 4:00 P.M. Cost of Tender Documents will be in the form of Account Payee D.D. from any nationalized schedule bank drawn in favour of Director, CIMFR, Dhanbad payable at SBI, Hirapur. NIT may also be available at CIMFR website [www.cimfr.nic.in](http://www.cimfr.nic.in). For further enquiry- Phone: 0091-326-2296023/ Extn: 4282; Fax : 0091-326-229-6025**

The Part-I & Part-II are to be individually sealed in separate envelopes and are to be put in a 3<sup>rd</sup> envelope which shall also be sealed and superscribed with the name of work in bold letters, address of the depositors and to be dropped in the Tender Box kept in the Office of the Administrative Officer, CIMFR, Dhanbad, after obtaining date, signature of Administrative Officer / Section Officer on or before 07/02/2012 at 3:00 P.M. and technical bid will be opened on the same day 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.

- **AFTER EVALUATION OF TECHNICAL BID, TECHNICALLY QUALIFIED BIDDERS WILL BE COMMUNICATED BEFORE OPENING OF PRICE BID.**
- **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.**
- **DIRECTOR, CIMFR, RESERVES THE RIGHT OF ACCEPTING ANY TENDER IN PART OR FULL OR REJECTING ALL WITHOUT ASSIGNING ANY REASON.**
- **LOWEST QUOTING FIRM HAS TO SUBMIT PERFORMANCE GUARANTEE AS PER RULE BEFORE AWARDING THE JOB.**
- **ESTIMATE BASED ON DSR-2007 & MARKET RATE.**
- **CPWD SPECIFICATION WILL BE FOLLOWED STRICTLY DURING EXECUTION.**

D' CIMFR may kindly approve for press, advertisement through the following agency in approved rate DAVP as applicable to Govt. Deptt.

1. The Telegraph, Kolkata Publication (English daily)
2. Hindustan Times, New Delhi Publication (English National)
3. Prabhat Khaber, Dhanbad Edition (Hindi Local) – Pointer advertisement

Name of Media – M/s Union Publicity Bureau, 34B, Ballygunge Gardens, Golpark, Kolkata – 700 019

-Sd/-  
Head Civil

-Sd/-  
Co-ordinator, Civil

-Sd/-  
Administrative Officer.

-Sd/-  
**Director, CIMFR**

## INSTRUCTION TO BIDDER

1. Tenders are hereby invited for the work of **1) Detailed surveying of existing land, Office and township building including layout plan of CIMFR (HQ), Barwa Road, Dhanbad. 2) Providing & fixing of concertina coil from gate no. 1 to DJ Hostel to Main Pump House, Director's Bunglow to Post Office and Repairing work at Guest House, CIMFR, HQ, Dhanbad. 3) Repair and Maintenance of sanitary, water supply & drainage system at colony area, CIMFR, HQ, Dhanbad. 4) Providing and fixing wire net on the top of boundary of staff qtrs. at CIMFR, HQ, Dhanbad.** 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. Organisations amounting to Rs. **1) 4,81,000.00 (Rupees four lakhs eighty one thousand only) 2) 3,92,408.00 (Rupees three lakhs ninety two thousand four hundred & eight only) 3) 12,35,535.00 (Rupees twelve lakhs thirty five thousand five hundred thirty five only) 4) 2,31,507.00 (Rupees two lakhs thirty one thousand five hundred & seven only)** and above. The tenders are required to produce proof of fulfilling these conditions alongwith latest Income Tax Clearance Certificate while making request for issue to Tender documents.
  2. Estimated cost is Rs. **1) 4,81,000.00 (Rupees four lakhs eighty one thousand only) 2) 3,92,408.00 (Rupees three lakhs ninety two thousand four hundred & eight only) 3) 12,35,535.00 (Rupees twelve lakhs thirty five thousand five hundred thirty five only) 4) 2,31,507.00 (Rupees two lakhs thirty one thousand five hundred & seven only).**
  3. Time for carrying out the work will be **03 (three) months for Sl. no.1, 2 & 4, 08 (eight) months for sl. no. 3** and the date of commencement shall be reckoned from the tenth day of issue of award letter.
  4. Complete Contract documents to be compiled with by the tenderer whose tender may be accepted can be seen at the office of **Civil Engineering Section, CIMFR, Dhanbad.**
  5. Tenders should be on the specified from (Non-transferable) which may be obtained from the office of **Administrative Officer, CIMFR, Dhanbad** during office hours on payment of Rs. **500/- each**. In case (non-refundable) 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, alongwith their Technical Bid. Sale of tenders shall be stopped two days before the date of opening of tenders.
  6. Tenders should be submitted in double sealed covers superscribed with the name of the work, date and time of opening written both on the inner and outer envelopes. They will be received upto 3.00 P.M. on **07/02/2012** and will be opened at 3.30 P.M. on same day in the office of **Administrative Officer, CIMFR, Dhanbad** Tenders should be dropped in the tender box before the closing date and time indicated. CIMFR will not be held responsible for delay, loss or non-receipt of application or tender document of either side if sent by post and will not entertain any correspondence in this regard. Tenders sent by Telex/Telegram/Fax/E-mail/Post).
  7. The Earnest Money amounting to Rs. *For Sl no. 1) **Rs. 9,620/- (Rupees nine thousand six hundred twenty only)** For Sl no. 2) **Rs. 7,850/- (Rupees seven thousand eight hundred fifty only)** For Sl no. 3) **Rs. 24,715/- (Rupees twenty four thousand seven hundred fifteen only)** For Sl no. 4) **Rs. 4,635/- (Rupees four thousand six hundred thirty five only)** as demand draft or pay order of a schedule band and drawn in favour of Director CIMFR, Dhanbad should accompany the tender. Tenders received without earnest money will be invalid.*
  8. 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.
  9. Canvassing in connection with the tenders is prohibited and the tenders submitted by the contractor who resort to canvassing are liable for rejection.
  10. 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 are relatives 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.***
11. 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.
  12. 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.

13. 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.
14. 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.
15. Earnest money will be forfeited if the contractor fails to commence the work as per letter of award.
16. 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.
17. Some of the provisions of General Conditions of Contract are given below. Interpretation how ever shall be as given in the General Conditions of Contract.
- DEFECTS LIABILITY PERIOD: TWELVE months from the date of completion as certified by the Employer.
  - MINIMUM VALUE OF WORK FOR THE INTERMEDIATE CERTIFICATE: Rs.----- (Rupees -----). Intermediate certificate for a lesser amount can be admitted for payment at the discretion of the Engineer.
  - 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 -----)
  - 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.
18. 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 rates at which they are to be charged for :

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.

19. 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.
- 20 a) Issue of cement and steel are subjected to availability in CIMFR Stores and the recovery of materials will be made as stated in SI No. 18 of BOQ, in case issue is made from CIMFR Stores.
- b) In case of non-availability of materials i.e. cement and steel in CIMFR Store, the agency has to procure the same after obtaining due authorization from the department and the materials to be got approved by the Engineer-in-Charge and materials brought to site are to be entered in store's ledger before using the same to work. No extra carrying cost for transportation of materials will be paid by the department.

Cement to be used - Fresh Portland cement of 15 specification IS-1911-1967.

Steel to be used - Top steel of required section drawn from SAIL, Billets of ISI specifications.

CIMFR/ CSIR General conditions of contract will be followed.

**CENTRAL INSTITUTE OF MINING & FUEL RESEARCH, DHANBAD**  
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Name of work: **Detailed surveying of existing land, Office and township building including layout plan of CIMFR (HQ), Barwa Road, Dhanbad.**

Sl.	Description	Qty	Unit	Rate (in Fig. & Words)	Amount
1.	Topographical survey of the area of Institute & Township premises at CIMFR, HQ, on scale 1:1000 along with contouring 1 m interval and layout plan of different buildings, boundary wall, road net work, water supply distribution systems, drainage & sewerage system, H.T. & L.T. poles cables (Telephone) locations etc. all complete up to satisfaction on CIMFR.	161.82	Acre		

**Scope of the work:**

1. To provide location and distance of the buildings, surface drain, valve chambers, inspection chambers & septic tanks etc.
2. To provide layout of existing pipe line for external water supply of different diameter and sewer line.
3. To provide location of H.T. & L.T. for both electrical and telephones, pump houses, sump well and overhead reservoirs.
4. To provide plans in auto cad drawing giving dimensions and distance of sl. No. 1-3 above.

**Terms & conditions:**

1. The rate will be inclusive of transportations of men, Machine & incidental etc.
2. Final drawing will be submitted in 2 soft copies in CD and 4 hard copies.
3. The above rate is inclusive of all taxes and duties including service tax.
4. No extra payment will be paid for cleaning of jungle during execution of the survey.
5. Income tax will be deducted from the bills as per rule.
6. Payment will be made based on submission of progress report and value of payment should not less than 50% of the order value on submission of Bank Guarantee. Balance payment will be made after satisfactory completion of the work.

Signature of the contractor



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Barwa Road, Dhanbad- 826 015 (Jharkhand) INDIA



## CIVIL ENGINEERING SECTION

**Tenders Documents**

*for*

**Execution of**

**Providing & fixing of concertina coil from gate no. 1 to DJ Hostel to Main Pump House,  
Director's Bungalow to Post Office and Repairing work at Guest House, CIMFR, HQ,  
Dhanbad.**

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*In*

**CIMFR Dhanbad.**

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Name of work: **Providing & fixing of concertina coil from gate no. 1 to DJ Hostel to Main Pump House, Director's Bungalow to Post Office and Repairing work at Guest House, CIMFR, HQ, Dhanbad.**

Sl.	Description	Qty	Unit	Rate (in Fig. & Words)	Amount
1.	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.				
	In cement mortar	15.40	Cum		
2.	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.	2.03	Cum		
3.	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.				
	1:3:6 or richer mix	5.25	Cum		
4.	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
	All kinds of soil.	7.03	Cum		
5.	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15 cm deep and disposal of rubbish, lead upto 50 m and lift upto 1.5 m.				
	All kinds of soil.	19.61	100 Sqm		
6.	Supplying and filling in plinth with Jamuna sand under floors including, watering, ramming consolidating and dressing complete.	1.50	Cum		
7.	Providing and laying one brick flat soling including filling the joints with sand.	38.91	Sqm		
8.	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	3.87	Cum		

9.	Brick work with bricks of class designation 75 in foundation and plinth in:				
	Cement mortar 1:6 (1 cement : 6 coarse sand)	3.87	Cum		
10.	Brick work with bricks of class designation 75 in superstructure above plinth level up to floor V level in all shapes and sizes in :				
	Cement mortar 1:6 (1 cement : 6 coarse sand)	21.00	Cum		
11.	Half brick masonry with bricks of class designation 75 in superstructure above plinth level up to floor V level.				
	Cement mortar 1:4 (1 cement :4 coarse sand)	6.40	Sqm		
12.	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases up to floor five level excluding the cost of centring, shuttering, finishing and reinforcement with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	1.205	Cum		
13.	Centering and shuttering including strutting, propping etc. and removal of form for :				
a	Suspended floors, roofs, landings, balconies and access platform.	7.09	Sqm		
b	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	2.88	Sqm		
14.	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.				
	Cold twisted bars	109.93	Kg		
15	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level :				
a	1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 40 mm nominal size).	2.37	Cum		
b	1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size).	1.323	Cum		
16.	12 mm cement plaster of mix :				
	1:4 (1 cement: 4 fine sand)	180.17	Sqm		
17.	6 mm cement plaster of mix :				
	1:3 (1 cement: 3 fine sand)	7.35	Sqm		

18.	Providing and fixing factory made UPVC door frame made of UPVC extruded section having an overall dimension as below (tolerance $\pm 1\text{mm}$ ) with wall thickness $2.0\text{mm} \pm 0.2\text{mm}$ , corners of the door frame to be mitred and welded of plastic, galvanized brackets and stainless steel screws. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 X 19mm and $1\text{mm} \pm 0.1\text{mm}$ wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturers specification and direction of Engineer-in-charge				
	Extruded section profile size 42x50 mm.	9.55	Mtr.		
19.	Providing and fixing to existing door frames.				
	25mm thick PVC flush door shutters made out of a one piece Multi chamber extruded PVC section of the size of 762mm X 25mm or less as per requirement with an average wall thickness of $1\text{mm} \pm 0.3\text{mm}$ . PVC foam end cap of size 23x10mm are provided on both vertical edges to ensure the overall thickness of 25mm. An M.S. tube having dimensions 19mm x 19mm is inserted along the hinge side of the door. Core of the door shutter should be filled with High Density Polyurethane foam. The Top & Bottom edges of the shutter are covered with an end-cap of the size 25MM X 11MM. Door shutter shall be reinforced with special polymeric reinforcements as per manufactures' specification and direction of Engineer-in-charge to take up necessary hardware and fixtures. Stickers indicating the locations of hardware will be pasted at appropriate places	3.26	Sqm		
20.	Providing and fixing aluminium sliding door bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with nuts and screws etc. complete :				
	250x16 mm	1 No.	Each		
21.	Providing and fixing aluminium tower bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868 ) transparent or dyed to required colour or shade with necessary screws etc. complete :				
	200x10 mm	5 Nos.	Each		
22.	Providing and fixing aluminium handles ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete :				
	100 mm	4 Nos.	Each		

23.	P/F Jaquar make, swirel mirror 450 mm dia cat. No. 1195	2 Nos.	Each		
24.	P/F Jaquar make, 600 mm dia long glass shelf cat. No. 1171	2 Nos.	Each		
25.	P/F 1 <sup>st</sup> quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer) of approved make in all colours, shade except burgundy, bottle green black of any size as approved by Engg.-in-charge in skirting, risers of steps and dados over 12 mm thick bed cement mortar 1:3 (1 cement: 3 coarse sand) and jointeing with grey cement slurry @ 3.3 kg per sqm including pointing in white cement mixed with pigment of matching shade complete. Pointed with finishing 300 x 300 mm Kajaria provenzo service.	25.00	Sqm		
26.	Marble stone flooring with 18mm thick marble stone (sample of marble shall be approved by Engineer-in-charge) over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with grey cement slurry including rubbing and polishing complete with :				
	Agaria White	6.00	Sqm		
27.	P/F white vitreous china pedestal type water closet (European type W.C. Pan) with seat and lead 10 ltrs. Low level white PVC flushing cistern with manually controlled device (handle lever) conforming to IS:7231 with all fittings and fixture complete cutting and making good the walls and floors wherever required: W.C. Pan with ISI marked black solid plastic seat and lead: Hindware make, CLED, Catalog no.20050, size : (H x W x P) 83x36x73 cm cistern 22 cm, catalog no. 21032 'S' trap distance -22 cm.	1 No.	Each		
28.	Providing and fixing Urinal cat no. 6002	2 Nos.	Each		
29.	Providing and fixing Urinal censor cat no. 51087	2 nos.	Each		
30.	P/F wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required : white vitreous china wash basin. Hindware make Delta cat. no. 10010	2 Nos.	Each		
31.	Providing and fixing white vitreous china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings. Hindware make catalogue no. 11003	2 Nos.	Each		
32.	P/F 15mm Angular stop cock of Jaquare make Cat. No. 053	2 Nos.	Each		

33.	Providing and fixing on wall face un plasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion.(i) Single socketed pipes.				
	40 mm diameter	3.60 mtr.	Mtr.		
	75 mm diameter	1.50 mtr.	Mtr.		
	110 mm diameter	4.00 mtr.	Mtr.		
34.	Providing and fixing on wall face un plasticised - PVC moulded fittings/ accessories for un plasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion.				
	Bend 87.5°				
	75 mm bend	2 Nos.	Each		
	110 mm bend	2 nos.	Each		
35.	P/F Jaquar make soap dispenser with glass bottle cat no. 1135	1 No.	Each		
36.	P/F Jaquar make single towel rail 600 mm long cat. no. 1111	1 no.	Each		
37.	P/F toilet paper paper holder Jaquar make cat no. 7751	1 no.	Each		
38.	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, including cutting and making good the walls etc. <b>Internal work – Exposed on wall.</b>				
	15 mm dia. nominal bore	6.05	Mtr.		
39.	Concealed pipe including painting with anti corrosive bitumastic paint, cutting chases and making good the wall				
	15 mm dia nominal bore	22.62	Mtr.		
40.	Providing & fixing Jaquar make bib cock with long thread cat. No. 039.	3 Nos.	Each		
41.	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.				
	15 mm nominal bore.	2 Nos.	Each		

42.	Providing and fixing uplasticised PVC connection pipe with brass unions :				
	45 cm length				
	15 mm nominal bore	6 Nos.	Each		
43.	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete	18.55	Sqm		
44.	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade:				
	Two or more coats on new work	18.55	Sqm		
45.	Supplying at site Angle iron post & strut of required size including bottom to be split and bent at right angle in opposite direction for 10 cm length and drilling holes upto 10 mm dia. etc. complete.	1284.14	Kg.		
46.	Providing and fixing concertina coil fencing with required dia 610 mm(having 15 nos. round per 6 metre length) up to 3m height of wall with existing angle iron 'Y' shaped placed 2.4 m or 3.00 m apart and with 9 horizontal R.B.T. stud tied with G.I. staples and G.I. clips to retain horizontal including necessary bolts or G.I. barbed wire tied to angle iron all complete as per direction of Engineer-in-charge with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	640.60	Mtr.		
47.	Finishing walls with water proofing cement paint of required shade :				
	New work (Two or more coats applied @ 3.84 kg/10 sqm).	158.52	Sqm		
48.	P/F RCC Jali (Jafri) and boundary wall	42.70	Sqm		
49.	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.				
	Flexible pipe				
	40 mm dia	4 Nos.	Each		
					<b>(Rs.)</b>

Signature of the contractor



# CENTRAL INSTITUTE OF MINING & FUEL RESEARCH, DHANBAD

(Council of Scientific & Industrial Research)

Barwa Road, Dhanbad- 826 015 (Jharkhand) INDIA



## CIVIL ENGINEERING SECTION

**Tenders Documents**

*for*

**Execution of**

**Repair & Maintenance of Sanitary, Water supply & Drainage System at Colony area at  
CIMFR, HQ, Dhanbad.**

*In*

**CIMFR Dhanbad.**

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NIT NO.:

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**CENTAL INSTITUTE OF MINING & FUEL RESEARCH, DHANBAD**

*(Council of Scientific & Industrial Research)*

**Name of work: Repair & Maintenance of Sanitary, Water supply & Drainage System at Colony area at CIMFR, HQ, Dhanbad.**

Sl.	Description of work	Quantity	Unit	Rate (in Fig. & Words)	Amount
1.	Providing and fixing on wall face un plasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion.(i) Single socketed pipes.				
a.	75 mm diameter	140.00	Metre		
b.	110 mm diameter	250.00	Metre		
2.	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps,32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require :				
a.	White Vitreous China Wash basin size 630x450mm with a single 15 mm C.P. brass pillar tap.	42.00	Each		
3.	Providing and fixing kitchen sink with C.I. brackets, C.P. brass chain with rubber plug, 40 mm C.P. brass waste complete, including painting the fittings and brackets, cutting and making good the walls wherever required :				
a.	White glazed fire clay kitchen sink of size 600x450x250 mm.	20.00	Each		
4.	Providing and fixing white vitreous china water closet squatting pan (Indian type)				
a.	Long pattern W.C. pan of size 580 mm	25.00	Each		
5.	Providing and fixing white vitreous china pedestal type (European type/ wash down type) water closet pan.	10.00	Each		
6.	Providing and fixing a pair of white vitreous china foot rests of standard pattern for squatting pan water closet: 250x130x30 mm	50.00	Pair		
7.	Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete.				
a.	10 litre capacity - White	75.00	Each		
8.	Providing and fixing solid plastic seat with lid for pedestal type W.C. pan complete : White solid plastic seat with lid	15.00	Each		

9.	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. Flexible pipe				
a.	32 mm dia	80.00	Each		
b.	40 mm dia	75.00	Each		
10.	Providing and fixing 100mm sand cast iron grating for gully trap.	35.00	Each		
11.	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	45.00	Each		
12.	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing :				
a.	Oval shape 450x350mm (outer dimensions)	40.00	Each		
13.	Providing and fixing 600x120x5mm glass shelf with edges round of supported on anodised aluminium angle frame with C.P. brass brackets and guard rail complete fixed with 40 mm long screws, rawl plugs etc., complete.	65.00	Each		
14.	Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors :				
a.	100 mm inlet and 100 mm outlet. Sand cast iron S&S as per IS: 3989.	20.00	Each		
	Sand Cast Iron S&S as per IS: 1729.	20.00	Each		
b.	100 mm inlet and 75 mm outlet. Sand cast iron S&S as per IS - 3989	8.00	Each		
	Sand Cast Iron S&S as per IS- 1729.	10.00	Each		
15.	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality and colour. 450MM long towel rail with total length of 495mm, 78mm wide and effective height of 88mm, weighing not less than 170gms.	65.00	Each		
16.	Dismantling of flushing cistern of any size including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead.	70.00	Each		
17.	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, including cutting and making good the walls etc. <b>Internal work – Exposed on wall.</b>				
a.	15 mm dia. nominal bore	610.00	Metre		
b.	20 mm dia. nominal bore	220.00	Metre		
c.	25 mm dia. nominal bore	95.00	Metre		
d.	40 mm dia. nominal bore	45.00	Metre		

e.	50 mm dia. nominal bore	45.00	Metre		
18.	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. <b>External work</b>				
a.	15 mm dia. nominal bore	250.00	Metre		
b.	20 mm dia. nominal bore	150.00	Metre		
c.	25 mm dia. nominal bore	150.00	Metre		
d.	40 mm dia. nominal bore	100.00	Metre		
e.	50 mm dia. nominal bore	40.00	Metre		
f.	65 mm dia. nominal bore	30.00	Metre		
g.	80 mm dia. nominal bore	20.00	Metre		
19.	Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete :				
a.	25 to 40 mm nominal bore	5.00	Each		
b.	50 to 80 mm nominal bore	3.00	Each		
20.	Providing and fixing brass bib cock of approved quality. 15 mm nominal bore	110.00	Each		
21.	Providing and fixing brass stop cock of approved quality. 15 mm nominal bore	110.00	Each		
22.	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				
a.	25 mm nominal bore	10.00	Each		
b.	32 mm nominal bore.	10.00	Each		
c.	40 mm nominal bore	9.00	Each		
d.	50 mm nominal bore	15.00	Each		
23.	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :				
a.	15 mm nominal bore	65.00	Each		
b.	20 mm nominal bore	75.00	Each		
c.	25 mm nominal bore	65.00	Each		
24.	Providing and fixing uplasticised PVC connection pipe with brass unions : 30 cm length				
a.	15 mm nominal bore	85.00	Each		
b.	20 mm nominal bore	50.00	Each		
	45 cm length				
a.	15 mm nominal bore	75.00	Each		

b.	20 mm nominal bore	95.00	Each		
25.	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet :				
a.	100 mm diameter	50.00	Each		
b.	150 mm diameter	4.00	Each		
26.	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work)				
a.	15 mm nominal bore	50.00	Each		
b.	20 mm nominal bore	35.00	Each		
c.	25 mm nominal bore	25.00	Each		
d.	40 mm nominal bore	12.00	Each		
e.	50mm nominal bore	15.00	Each		
27.	Providing and fixing G.I. Union in existing G.I. pipe line, cutting and threading the pipe and making long screws including excavation, refilling the earth or cutting of wall and making good the same complete wherever required :				
a.	15 mm nominal bore	18.00	Each		
b.	20 mm nominal bore	15.00	Each		
c.	25 mm nominal bore	15.00	Each		
d.	40 mm nominal bore	15.00	Each		
e.	50mm nominal bore	15.00	Each		
28.	Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI : 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank	20000.00	Per Litre		
29.	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931: 15 mm nominal bore.	75.00	Each		
30.	Providing and fixing PTMT extension nipple for water tank pipe, fittings of approved quality and colour.				
a.	15 mm nominal bore. Weighing not less than 32 gms.	15.00	each		
b.	20mm nominal bore. Weighing not less than 40gms.	35.00	each		
c.	25mm nominal bore. Weighing not less than 62 gms.	20.00	each		
31.	Dismantling G.I. pipes (external work) including excavation and refilling trenches after taking out the pipes, manually/ by mechanical means including stacking of pipes within 50 metres lead as per direction of Engineer-in-charge :				
a.	15 mm to 40 mm nominal bore	870.00	metre		
b.	Above 40 mm nominal bore	250.00	metre		

32.	Providing & fixing of mosaic sink	35.00	Each		
33.	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion.				
	Bend 87.5°				
a.	75 mm bend	75.00	Each		
b.	110 mm bend	75.00	Each		
34.	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50mm hard wood plugs, screwed with M.S. screws of required length including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.				
a.	75 mm bend	65.00	Each		
b.	110 mm bend	125.00	Each		
35.	Dismantling of W.C. Pan	65.00	Each		
36.	Providing & fixing of PVC long bend	70.00	Each		
37.	Dismantling of mosaic sink	35.00	Each		
38.	Dismantling of porcelain sink	20.00	Each		
39.	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement including cement slurry, but excluding the cost of nosing of steps etc. complete. 40mm thick with 20mm nominal size stone aggregate.	90.00	Sqm		
40.	12 mm cement plaster of mix : 1:6 (1 cement : 6 fine sand)	40.00	Sqm		
41.	Dismantling PVC pipe				
a.	3" dia.	125.00	Metre		
b.	4" dia.	225.00	Metre		
42.	Dismantling wash basin	40.00	Metre		

43.	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer-in-charge.	15.00	Cum		
44.	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion.				
	Single tee with door				
a.	75x75x75 mm	35.00	each		
b.	110x110x110 mm	35.00	each		
45.	Providing & fixing of tank lid.	35.00	Each		
46.	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases up to floor five level excluding the cost of centering, shuttering, finishing and reinforcement with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	3.00	Cum		
47.	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. Mild steel and Medium Tensile steel bars.	200.00	Kg.		
48.	Centering and shuttering including strutting, propping etc. and removal of form for : Shelves (Cast in situ).	50.00	Sqm		
49.	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.	3.00	Cum		
50.	Brick work with bricks of class designation 75 in superstructure above plinth level up to floor V level in all shapes and sizes in: Cement mortar 1:6 (1 cement : 6 coarse sand)	8.00	Cum		
51.	Providing & fixing of soap dish	20.00	Each		
52.	Providing & fixing of 3" gate valve	7.00	Each		
53.	Providing & fixing of PVC pipe -40mm	65.00	Metre		
54.	Providing & fixing of Jet spray	20.00	Each		
55.	Providing, laying and jointing glazed stoneware pipes grade 'A' with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete : 150 mm diameter.	50.00	Metre		
56.	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design: 150 mm diameter S.W. pipe.	50.00	Metre		
57.	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) up to haunches of S.W. pipes	50.00	Metre		

	including bed concrete as per standard design : 150 mm diameter S.W. pipe 150 mm diameter S.W. pipe.				
58.	Dismantling of old S.W. pipes including breaking of joints and bed concrete stacking of useful materials near the site within 50 m lead and disposal of unserviceable materials into municipal dumps: 150 mm diameter.	50.00	Metre		
59.	Constructing masonry Chamber 90x90x100 cm, inside with 75 class designation brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100 mm. top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size ) necessary excavation foundation concrete 1:5:10 (1 cement : 5 fine sand:10 graded stone aggregate 40 mm nominal size ) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design : With bricks.	4.00	Each		
60.	Constructing masonry Chamber 120x120x100 cm, inside with 75 class designation brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100 mm. top diameter, 160 mm bottom diameter and 180 mm deep ( inside) with chained lid and RCC top slab 1:2:4 mix (1 cement :2 coarse sand : 4 graded stone aggregate 20 mm nominal size) necessary excavation foundation concrete 1:5:10 (1 cement : 5 fine sand:10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design : With bricks.	4.00	Each		
					(Rs.)

Signature of the Contractor



# CENTRAL INSTITUTE OF MINING & FUEL RESEARCH, DHANBAD

(Council of Scientific & Industrial Research)

Barwa Road, Dhanbad- 826 015 (Jharkhand) INDIA



## CIVIL ENGINEERING SECTION

**Tenders Documents**

*for*

**Execution of**

**Providing and fixing wire net on the top of boundary of staff qtrs. at CIMFR, HQ,  
Dhanbad.**

*In*

**CIMFR Dhanbad.**

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NIT NO.:

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**CENTRAL INSTITUTE OF MINING & FUEL RESEARCH, DHANBAD**  
**(Council of Scientific & Industrial Research)**

Name of work: **Providing and fixing wire net on the top of boundary of staff qtrs. at CIMFR, HQ, Dhanbad.**

Sl.	Description	Qty	Unit	Rate (in Fig. & Words)	Amount
1.	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	32.59	Sqm		
2.	Brick work with bricks of class designation 75 in superstructure above plinth level up to floor V level in all shapes and sizes in :				
	Cement mortar 1:6 (1 cement : 6 coarse sand)	3.68	Cum		
3.	Half brick masonry with bricks of class designation 75 in superstructure above plinth level up to floor V level.				
	Cement mortar 1:4 (1 cement :4 coarse sand)	13.65	Sqm		
4.	12 mm cement plaster of mix :				
	1:6 (1 cement: 6 coarse sand)	77.72	Sqm		
5.	Finishing walls with water proofing cement paint of required shade :				
	Old work (one or more coats applied @ 2.20 kg/10 sqm) over priming coat of primer applied @ 0.80 litres/10 sqm complete including cost of Priming coat.	77.72	Sqm		
6.	Cutting holes up to 15x15 cm in walls including making good the same: with bricks	80	Each		
7.	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level :				
	1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 40 mm nominal size).	0.96	Cum		
8.	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete:	3274.24	Kg.		
9.	Supplying at site :				

	Welded steel wire fabric of required width rectangular mesh painted with two or more coats of enamel paint of approved shade over a coat of primer (Painting to be paid for separately).	1314	Kg.		
10.	Welded steel wire fabric fencing with posts of specified material and of standard design placed and embedded in cement concrete blocks 45x45x60cm of mix 1:5:10 (1 cement:5 fine sand : 10 graded stone aggregate 40mm nominal size) every 15th post, last but one end post and corner post shall be strutted on both sides and end post on one side only and struts embedded in cement concrete blocks 70x45x50cm of the same mix, provided with welded steel wire fabric fixed between the posts fitted and fixed with G.I. staples on wooden plugs or tied to 6 mm bar nibs with G.I. binding wire (cost of posts, welded steel wire fabric, painting, earth work in excavation and concrete to be paid for separately) :	438	Sqm		
11.	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:				
	Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture.	438	Sqm		
12.	Felling trees on the girth (measured at a height of 1 m above ground level including cutting of trunks etc.)	18	Each		
					<b>(Rs.)</b>

Signature of the contractor