

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

NOTICE INVITING TENDER

No. 23(761)/2015-GA/

Dated: 12/01/2016

Sealed tenders are hereby invited from bonafide govt. contractors, registered with CPWD, State, PWD, MES, 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.	Renovation of Director's Bungalow at CSIR-CIMFR, HQ Dhanbad.	10,50,044.00	21,001.00	3 months	500.00

The following proof of documents in duly attested to be submitted alongwith submission of tender.

1. Shop and establishment registration certificate.
2. Valid sales tax, registration no. & Clearance certificate and PAN card.
3. 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.
4. Registration certificate from CPWD, State, PWD, MES, Railway, Defence and other Govt. Department,

Tenders to be submitted in 2 Bid System

1. Part-I

(Technical Bid)

Consists of following documents

- a) Proof of documents as mentioned above (1-4)
- b) Earnest Money
- c) Cost of tender documents

2. Part-II

(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 available from 18/01/2016 to 27/01/2016 on payment basis (Non refundable) in CIMFR website www.cimfr.nic.in, that can be downloaded for submission. Those parties who submit their tender after down loading, shall be required to pay the above mentioned amount Cost of Tender Documents 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 are to be individually sealed in separate envelopes and are to be put in a 3rd 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 **29/01/2016** at 3:00 P.M. and only 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.

- **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-2014 & PMR.**
- **CPWD SPECIFICATION WILL BE FOLLOWED STRICTLY DURING EXECUTION.**
- **HAND WRITTEN QUOTATION WILL NOT BE ACCEPTED FROM BIDDERS.**
- **SIMILAR WORK MEANS CONSTRUCTION & RENOVATION WORKS OF BUILDING ETC.**

D' CIMFR may kindly approve for press advertisement, as well as CIMFR website as per rules.

-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) Renovation of Director's Bungalow at CSIR-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) 10,50,044.00 (Rupees ten lakhs fifty thousand & forty four 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) 10,50,044.00 (Rupees ten lakhs fifty thousand & forty four only)**
3. Time for carrying out the work will be **03 (three) months** 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/-**. 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 **29/01/2016** 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. 21,001/- (Rupees twenty one thousand & one only) & cost of tender document Rs. 500/- (Rupees five hundred 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.
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 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 -----). 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.
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.

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Name of work: **Renovation of Director's Bungalow at CSIR-CIMFR, HQ Dhanbad.**

Sl.	Description	Qty	Unit	Rate (in Fig. & Words)	Amount
1	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.	4	Cum		
2	Supplying and filling in plinth with Jamuna sand under floors, including watering, ramming, consolidating and dressing complete.	2.6	Cum		
3	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	40	100 Sqm		
4	P/L flat brick soiling	47.50	Sqm		
5	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
a	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	0.75	Cum		
b	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	0.30	Cum		
6	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				
	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	1.70	Cum		

7	Providing and laying damp-proof course 40 mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size).2	2	Sqm		
8	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).	2.80	Cum		
9	Centering and shuttering including strutting, propping etc. and removal of form for :				
	Foundation, footing, base of column, roofs, lintels, plinth beams, selses etc.complete.	30	Sqm		
10	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
	Thermo-Mechanically Treated bars	210	Kg		
11	Brick work with common burnt clay (non modular) bricks of class designation 7.5 in foundation and plinth in:				
	Cement mortar 1:6 (1 cement : 6 coarse sand)	0.50	Cum		
12	Brick work with common burnt clay (non modular) bricks of class designation 7.5 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)	10.70	Cum		
13	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.				
	Cement mortar 1:4 (1 cement :4 coarse sand)	10	Sqm		

14	Marble work gang saw cut (polished and machine cut) of thickness 18 mm for wall lining (veneer work), backing filled with a grout of average 12 mm thick in cement mortar 1:3 (1 cement : 3 coarse sand), including pointing with white cement mortar 1:2 (1 white cement : 2 marble dust) with an admixture of pigment to match the marble shade (To be secured to the backing by means of cramps, which shall be paid for separately). Raj Nagar Plain white marble/ Udaipur green marble/ Zebra black marble.				
	Area of slab over 0.50 sqm	12	Sqm		
15	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).				
	Second class teak wood	0.11	Cum		
16	Providing and fixing ISI marked flush door shutters conforming to IS :2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters :				
	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	6.60	Sqm		
17	Providing and fixing wire gauge shutters using galvanized M.S. wire gauge of average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm, for doors, windows and clerestory windows with hinges and necessary screws :				
	30 mm thick shutters				
	with ISI marked M.S. pressed butt hinges bright finished of required size				
	Second class teak wood	1.58	Sqm		
18	Providing 40x5 mm flat iron hold fast 40 cm long including fixing to frame with 10 mm diameter bolts, nuts and wooden plugs and embedding in cement concrete block 30x10x15cm 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size).	18	Each		

19	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete :				
	150x10 mm	4	Each		
20	Providing and fixing bright finished brass door latch with necessary screws etc. complete :				
	250x16x5 mm	2	Each		
21	Providing and fixing bright finished brass handles with screws etc. complete :				
	100 mm	6	Each		
22	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.				
	40 mm thick with 20 mm nominal size stone aggregate	40	Sqm		
23	Providing and fixing Ist quality ceramic glazed wall tiles conforming to IS:15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	120	Sqm		
24	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm	225	Sqm		
25	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10 mm and down gauge), including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design :				
	In 75x75 mm deep chase	5	Rm		

26	Providing and fixing on wall face 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, (i) Single socketed pipes.				
	75 mm diameter	8	Rm		
	110 mm diameter	25	Rm		
27	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				
	75x75x75 mm	2	Each		
	110x110x110 mm	2	Each		
	Bend 87.5°				
	75 mm bend	3	Each		
	110 mm bend	1	Each		
	Shoe (Plain)				
	110 mm Shoe	2	Each		
28	Providing and fixing unplasticised –PVC pipe clips of approved design to unplasticised – PVC rain water pipes by means of 50x50x50 mm 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.				
	75 mm	2	Each		
	110 mm	2	Each		

29	Providing and fixing precoated galvanized iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineerin- charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	12	Sqm		
30	12 mm cement plaster of mix :				
	1:6 (1 cement: 6 fine sand)	130	Sqm		
31	6 mm cement plaster of mix :				
	1:3 (1 cement : 3 fine sand)	12	Sqm		
32	15 mm cement plaster on the rough side of single or half brick wall of mix :				
	1:6 (1 cement: 6 fine sand)	65	Sqm		
33	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	90	Sqm		
34	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade.				
	On old surface (one or more coats)	110	Sqm		
35	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :				
	Cement primer	721	Sqm		
36	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade :				
	Two or more coats on new work	20	Sqm		

37	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground within 50 metres lead :				
	With cement mortar 1:4 (1 cement : 4 fine sand)	30	Sqm		
38	Renewing glass panes, with putty and nails wherever necessary including racking out the old putty:				
	Float glass panes of thickness 4 mm	10	Sqm		
39	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade :				
	One or more coats on old work	721	Sqm		
40	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :				
	One or more coats on old work	150	Sqm		
41	Finishing walls with water proofing cement paint of required shade :				
i	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.	972	Sqm		
ii	Finishing walls with textured exterior paint of required shade : Old work (One or more coats) applied @ 1.82 ltr/10 sqm.	250	Sqm		
42	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	4.34	Cum		
43	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead :				
	Of area 3 sq. metres and below	2	Each		

44	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 :				
	15 mm to 40 mm nominal bore	30	Rm		
45	Dismantling of flushing cistern of all types (C.I./PVC/Vitrious China) including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead.	4	Each		
46	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.	30	Sqm		
47	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required : (Perryware/Jaquar/Cera make)				
	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	1	Each		
48	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required : (Perryware/Jaquar/Cera make)				
	W.C. pan with ISI marked white solid plastic seat and lid	2	Each		
49	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 : (Perryware/Jaquar/Cera make)				
	White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap	5	Each		
50	Providing and fixing white vitreous china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings.	1	Each		

51	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 :				
	White glazed fire clay kitchen sink of size 600x450x250 mm (Parryware/Jaquar/Cera make)	1	Each		
52	Providing and fixing draining board with C.I. brackets including painting of brackets, cutting and making good the walls wherever required :				
	White glazed fire clay draining board of size 600x450x25 mm	1	Each		
53	Providing and fixing white vitreous china water closet squatting pan (Indian type) :				
	Orissa pattern W.C. pan of size 580x440 mm (Parryware/Jaquar/Cera make)	1	Each		
54	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.				
	10 litre capacity – White	1	Each		
55	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.				
	Flexible pipe				
	32 mm dia	5	Each		
56	Providing and fixing 100 mm sand cast Iron grating for gully trap.	10	Each		
57	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.	1	Each		
58	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 :				
	Circular shape 450 mm dia (Parryware/Jaquar/Cera make)	5	Each		

59	Providing and fixing 600x120x5 mm glass shelf with edges round off, 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. (Parryware/Jaquar/Cera make)	5	Each		
60	Providing and fixing toilet paper holder :				
	Vitreous china	2	Each		
61	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms. (Parryware/Jaquar/Cera make)	4	Each		
62	Providing and fixing C.P. towel ring trapezoidal shape 215 mm long, 200 mm wide with minimum distances of 37 mm from wall face with concealed fittings arrangement of approved quality and colour, weighing not less than 88 gms. (Parryware/Jaquar/Cera make)	5	Each		
63	Providing and fixing C.P. towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.				
	600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms. (Parryware/Jaquar/Cera make)	5	Each		
64	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.				
	Internal work - Exposed on wall				
	15 mm dia nominal bore	30	Rm		
	20 mm dia nominal bore	10	Rm		
65	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. External work				
	15 mm dia nominal bore	20	Rm		
	20 mm dia nominal bore	10	Rm		

66	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 :				
	25 to 40 mm nominal bore	2	Each		
67	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				
	25 mm nominal bore	2	Each		
68	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :				
	20 mm nominal bore	2	Each		
69	Providing and fixing uplasticised PVC connection pipe with brass unions :				
	45 cm length				
	15 mm nominal bore	15	Each		
70	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet :				
	100 mm diameter (Parryware/Jaquar/Cera make)	4	Each		
71	Constructing masonry Chamber 30x30x50 cm inside, in brick work in cement mortar 1:4 (1 cement :4 coarse sand) for stop cock, with C. I. surface box 100x100 x75 mm (inside) with hinged cover fixed in cement concrete slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12mm thick, finished with a floating coat of neat cement complete as per standard design :				
	With common burnt clay F.P.S.	1	Each		

72	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :				
	15 mm nominal bore	3	Each		
	20 mm nominal bore	5	Each		
73	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 :				
	15 mm nominal bore	3	Each		
	20 mm nominal bore	2	Each		
74	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :				
	15 mm nominal bore	12	Each		
75	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms. (Perryware/Jaquar/Cera make)				
	15 mm nominal bore	5	Each		
76	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.				
	15 mm nominal bore (Parryware/Jaquar/Cera make)	10	Each		
77	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 (Perryware/Jaquar/Cera make)				
	15mm nominal bore	5	Each		
78	Cutting holes up to 30x30 cm in walls including making good the same:				
	With common burnt clay F.P.S.	2	Each		

79	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) : For fixed portion				
	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	20	Kg		
80	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):				
	With float glass panes of 5.50 mm thickness	5	Sqm		
81	Grading roof for water proofing treatment with				
	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	0.48	Cum		
82	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	1200	Sqm		
83	Providing and fixing ISI marked steel glazed doors, windows and ventilators, side/top centre hung, with beading and all members such as F7D, F4B, K11B etc. complete of standard rolled steel sections, joints mitred and flash butt welded with 15x3mm lugs 10c long embedded in cement concrete block 15x10x10cm of C.C. 1:3:6 (1 cement:3 coarse sand:6 graded stone) aggregate 20 mm nominal size) or with wooden plug and screws or rawl plugs and screws or with fixing clips or with bolts and nuts as required including providing and fixing of glass panes with glazing clips and special metal sash putty or approved make complete including applying a priming coat of approved steel primer excluding the cost of				

	metal beading and other fitting except necessary hinges or pivots as required weight 10 kg/m2	1.80	Sqm		
84	Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350 mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS : 2556, C.I. trap with outlet grating and other couplings in C.P. brass, including painting of fittings and cutting and making good the walls and floors wherever required : Single half stall urinal with 5 litre P.V.C. automatic flushing cistern	1	Each		
					(Rs.)

Signature of the contractor

