



CENTRAL INSTITUTE OF MINING & FUEL RESEARCH
(Council of Scientific & Industrial Research)
Barwa Road, Dhanbad – 826 015 (Jharkhand) INDIA

Name of Contractor:

Dated:

Name of Work : Interior maintenance, roof treatment, water supply, sewerage line, renovation of scientist apartment (bathroom & toilet), shed over the balcony, anti-termite treatment at staff qtrs. , CSIR-CIMFR HQ, Dhanbad.

File no: 23(810)/2017-GA/

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N.B.: Tenderers should confirm that they have received all the above.

1. Cost of tender set received vide D.D. No.:.....,dated:

for Rs.....(Rupees)

Signature of the officer
Issuing tender

2. Earnest Money for Rs.....
Deposited terms or cash/ DD/
Crossed cheque (certified good by
Bank) deposit at all Govt.
Security vide MR No./DD etc./
In favour of the Director, CIMFR, Dhanbad

Date:

Signature of tenderer

/ NOTICE INVITING TENDER

/No. 23(810)/2017-GA/

/ Dated: 01/06/2017

केंद्रीय

7 ((3 (() 40% , (2 (() 60 % (1 (() 80% ()

/ 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 60% of the estimated value) or 1 (one) similar type (equal to 80% of the estimated value) in last (7) seven years.

क्र. Sl.No.	Description of work	Estimated Value	Earnest Money	Time of completion	Cost of Tender Documents
1.	- , , - , , लेट्रिन / Interior maintenance, roof treatment, water supply, sewerage line, renovation of scientist apartment (bathroom & toilet), shed over the balcony, anti-termite treatment at staff qtrs., CSIR-CIMFR HQ, Dhanbad.	98,14,061.00	1,96,285.00	12 / 12 Months	1000.00

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

1. / Valid sales tax, registration no. & Clearance certificate and PAN card.
2. , - मूल्यों) (प्राप्त प्रमाणपत्र / 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.
3. सीपीडब्ल्यूडी, पीडब्ल्यूडी, , , / Registration certificate from CPWD, State PWD, MES, Railway, Defence and other Govt. Department.

2 प्रस्तुतTenders to be submitted in 2 Part System

1. - I / Part - I

Consists of following documents

} (1-3)/ Proof of documents as mentioned above (1-3)
/ Earnest Money

2. -II / Part-II

Consists of following documents

) / Costing along with full specifications of the items involved in the work including all Taxes & Levies as per different laws.

प्रपत्र 13/06/2017 23/06/2017

/ Tender

paper will be available from 13/06/2017 to 23/06/2017 on CIMFR website www.cimfr.nic.in. Cost of Tender Documents will be submitted along with earnest money separately in the form of Account Payee D.D. from any nationalized schedule bank drawn in favour of Director, CIMFR, Dhanbad.

-I - II - स्पष्ट
अक्षरों , /

- I () , 27/06/2017 3.00
- II () 3.30

प्रतिनिधियों / 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 27/06/2017 at 3:00 P.M. and Part - I (Technical bid) will be opened first, after verification of EMD, Part - II (Commercial 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.

- _____ (1670 - _____ / 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, CSIR-CIMFR, RESERVES THE RIGHT OF ACCEPTING ANY TENDER IN PART OR IN FULL OR REJECTING ALL WITHOUT ASSIGNING ANY REASON.
- _____ / LOWEST QUOTING FIRM HAS TO SUBMIT PERFORMANCE GUARANTEE AS PER RULE BEFORE AWARDING THE JOB.
- _____ 2014 ESTIMATE BASED ON DSR – 2014 & PMR.
- _____ विनिदेशों / CPWD SPECIFICATION WILL BE FOLLOWED STRICTLY DURING EXECUTION.
- _____ / HAND WRITTEN TENDER WILL NOT BE ACCEPTED FROM BIDDERS.

D'CIMFR may kindly approve for press advertisement in approved DAVP rate as applicable to Govt. Deptt.

हस्ताक्षरित/-

HOS, Civil

हस्ताक्षरित/-

HORG, Service Dept.

/-

Administrative Officer.

हस्ताक्षरित/-

Director, CIMFR

INSTRUCTION TO BIDDER

1. Tenders are hereby invited for the work of **I) Interior maintenance, roof treatment, water supply, sewerage line, renovation of scientist apartment (bathroom & toilet), shed over the balcony, anti-termite treatment at staff qtrs., 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 **I) Rs. 98,14,061.00 (Rupees ninety eight lacs fourteen thousand & sixty one 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. 98,14,061.00 (Rupees ninety eight lacs fourteen thousand & sixty one only).**
 3. Time for carrying out the work will be **12 (twelve) months for the above work** 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. **1000/- for the above.** 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 **27/06/2017** 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. I* **Rs. 1,96,285/- (Rupees one lac ninety six thousand two hundred eighty five only) & cost of tender document Rs. 1000/- (Rupees one thousand 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 along with 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.
- DEFECTS LIABILITY PERIOD: TWELVE months from the date of completion as certified by the Employer.
 - MINIMUM VALUE OF WORK FOR THE INTERMEDIATE CERTIFICATE: Rs.5,00,000.00 or at the discretion of EIC (Rupees five lacs only). 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 un-commenced 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. **(ACC/Ultratech/Ambuja)**

Steel to be used - Top steel of required section drawn from SAIL/TATA, Billets of ISI specifications.
CIMFR/ CSIR General conditions of contract will be followed strictly and GCC may be seen at Civil Engg. Section, CSIR-CIMFR, BC.

N.B.: GST on works contract will be applicable as per rule after 1st July'2017.

Materials approved as per Indian Standard

Sl. No.	Materials	Approved brand & Manufacture
1.	Cement	ACC/ Ultratech /Ambuja
2.	Reinforcement	SAIL/TATA as per IS
3.	White cement based putty	Birla/Shailimar or equivalent
4.	Oil bound distemper cement primer, synthetic enamel paint water proofing cement paint including cement primer	Dulux/Asian paint/Berger
5.	600x120x5 mm glass shelf with bracket, PVC low level flushing cistern, kitchen sink, wash, hand basin, 600x450 bevelled edge mirror, water closet squatting pan (Indian type) orissa pattern, pedestal type water closet (European type), CP brass long body bib cock, CP brass shower, CP brass stop cock, CP brass angle valve for mixer etc.	Jaquer/Hindware/Parryware
6.	G.I. pipe	TATA/SAIL or equivalent
7.	PTMT towel rail, CPVC pipe, PTMT towel ring	Prayag or equivalent
8.	Water Tank	Sintex/Himgiri/Duroplast.
9.	Ceramic glazed wall tiles & floor tiles	Kajaria / Nitco/Somany
10.	PVC pipes & necessary fittings like bend/tee etc.	Prince or equivalent

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Name of work: **Interior maintenance, roof treatment, water supply, sewerage line, renovation of scientist apartment (bathroom & toilet), shed over the balcony, anti-termite treatment at staff qtrs., CSIR-CIMFR HQ, Dhanbad..**

Sl.	Description	Qty	Unit	Rate (in Fig. & Words)	Amount
1	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	11766.4	sqm		
2	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.	2877.84	sqm		
3	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)	288.22	sqm		
4	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	2858.31	sqm		
5	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :				
	Water thinnable cement primer	10637.1	Sqm		
6	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade :				
	Old work (one or more coats)	32950.57	sqm		

7	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	9614.23	sqm		
8	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in- charge.				
	Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix)	105.88	Cum		
9	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	750	Sqm		
10	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.	78	Each		
11	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in-charge.				
	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	18.287	Cum		
12	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.	1598.96	Sqm		
13	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :				
	25 mm thick	102.44	Sqm		

14	Providing and fixing 1st 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.	1870.36	Sqm		
15	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), including pointing the joints with white cement and matching pigment etc, complete.	264.67	Sqm		
16	Providing and fixing 100 mm sand cast Iron grating for gully trap.	40	Each		
17	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.	16	Each		
18	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	40	Each		
19	Providing and fixing long bend	20	Each		
20	Providing, hoisting and fixing up to floor five level precast reinforced cement concrete in shelves, including setting in cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering, shuttering and finishing with neat cement punning on exposed surfaces but excluding the cost of reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size).	3.106	Cum		
21	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
	Cement mortar 1:6 (1 cement : 6 coarse sand)	4.79	Cum		

22	Brick work 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 in all shapes and sizes in :				
	Cement mortar 1:6 (1 cement : 6 coarse sand)	7.5	Cum		
23	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	214.35	Kg		
24	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.	55.237	Cum		
25	Providing and laying brick flat soling including filling the joints with local sand.	250	sqm		
26	Providing and fixing kitchen sink with C.I. rackets, 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 600x450x 250 mm.	17	each		
27	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:				
	White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap.	72	each		
28	Providing and fixing brass stop cock of approved quality :				
	15 mm nominal bore	25	Each		
29	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.	63	Each		
30	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.	27000	Per Ltr.		

31	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	189	Mtr.		
	20 mm dia nominal bore	163	Mtr.		
32	Providing and fixing brass bib cock of approved quality :				
	15 mm nominal bore	37	Each		
33	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	420	Mtr.		
	110 mm diameter	102.5	Mtr.		
34	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°				
	75 mm bend	190	Each		
	110 mm bend	177	Each		
35	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	15	Each		
36	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:				
	White Vitreous china Orissa pattern W.C. pan of size 580x440	70	each		

	mm with integral type foot rests.				
37	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 :				
	W.C. pan with ISI marked white solid plastic seat and lid.	21	each		
38	Providing and fixing precoated galvanised 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 120 grams 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.	203.5	sqm		
39	Cutting holes up to 30x30 cm in walls including making good the same:				
	With common burnt clay F.P.S. (non modular) bricks	20	Each		
40	40 mm thick marble chips flooring, rubbed and polished to granolithic finish, under layer 28 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size) and top layer 12 mm thick with white, black, chocolate, grey yellow or green marble chips of sizes from 7 mm to 10 mm nominal size, laid in cement marble powder mix 3:1 (3 cement : 1 marble powder) by weight in proportion of 2:3 (2 cement marble powder mix : 3 marble chips) by volume, including cement slurry etc. complete :				
	Light shade pigment with white cement	41.93	sqm		
41	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)	25	Sqm		
42	12 mm cement plaster of mix :				
	1:6 (1 cement: 6 fine sand)	122.14	Sqm		
43	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.				
	15 mm nominal bore	281	Each		
44	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.				
	450 mm long towel rail with total length of 495 mm, 78 mm wide and effective height of 88 mm, weighing not less than 170 gms	10	each		
45	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	72	Each		
	40 mm dia	17	Each		
46	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet :				
	100 mm diameter	59	Each		
47	Providing and fixing PTMT 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.	57	Each		
48	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	5	Cum		
49	15 mm cement plaster on the rough side of single or half brick wall of mix :				

	1:6 (1 cement: 6 fine sand)	480.1	Sqm		
50	Providing and fixing hand shower	10	Each		
51	12 mm cement plaster finished with a floating coat of neat cement of mix :				
	1:4 (1 cement: 4 fine sand)	125	sqm		
52	Providing and fixing soap dish	15	Each		
53	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	4	Each		
	110 mm	4	Each		
54	Dismantling W.C. Pan including removal etc.	15	Each		
55	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.	0.28	Cum		
56	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	29	Cum		
57	Providing and fixing fan hook (M.S.)	20	Each		
58	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	967.25	Mtr.		
59	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	5	Each		
	20 mm nominal bore	123	Each		
60	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :				
	15 mm nominal bore	10	Each		
61	Making door seal	50	Each		
62	Providing & fixing of tank lid	50	Each		
63	Removing APP/ tarfelting etc. complete.	1287.2	Sqm		
64	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)	64.51	Cum		
65	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.	50	Each		
66	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :				
a	20 mm nominal bore	250	Each		
b	25 mm nominal bore	150	Each		
67	Refixing of old sintex water tank including removing,required fitting etc comp work	100	Each		
68	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge.				
a	20 mm nominal outer dia Pipes	150	RM		

b	25 mm nominal outer dia Pipes	150	RM		
c	40 mm nominal outer dia Pipes	400	RM		
d	50 mm nominal outer dia Pipes	500	RM		
69	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc.				
	80 mm dia nominal bore	100	RM		
70	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	25 mm nominal bore	20	Each		
b	40 mm nominal bore	25	Each		
c	50 mm nominal bore	30	Each		
e	80 mm nominal bore	10	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.(non modular) bricks of class designation 7.5	10	Each		
72	Constructing masonry Chamber 60x60x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100mm 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 20mm nominal size) , i/c 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 common burnt clay F.P.S.(non modular) bricks of class designation 7.5	5	Each		
73	Providing, laying and jointing glazed stoneware pipes class SP-1 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	250	RM		
74	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 including bed concrete as per standard design :				
	150 mm diameter S.W. pipe	250	RM		
75	Constructing brick masonry chamber for underground C.I. inspection chamber and bends with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg), R.C.C. top slab with 1:2:4 mix (1 cement: 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand), finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design:				
a	Inside dimensions 455x610 mm and 45 cm deep for single pipe line :				
	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	10	Each		
b	Inside dimensions 500x700 mm and 45 cm deep for pipe line with one or two inlets :				
	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	10	Each		
c	Inside dimensions 600x 850 mm and 45 cm deep for pipe line with three or more inlets :				
	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	10	Each		
76	Extra for depth beyond 45 cm of brick masonry chamber :				

	For 600x850 mm size				
	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	10	metre		
77	Anti-termite treatment will be done by two process one it will be done walls to walls bt spraying chemical emulsion 100 ml. chemical in 9 litre of water and two it will done on wooden item, if there damaging by termite from soil then there will be drill and that point inject the chemical emulsion (100ml cholophyriphos + 2000ml kerosin +7000 ml water) in 9 litre machine and thereafter entire area will be spray by machine				
	On wooden	5994	Sqm		
	Wall to wall	13654	Sqm		
78	Cutting holes up to 15x15 cm in R.C.C. floors and roofs for passing drain pipe etc. and repairing the hole after insertion of drain pipe etc. with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including finishing complete so as to make it leak proof.	336	Each		
79	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.	2071.72	Kg		
80	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :				
	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :	22.68	Sqm		
81	Providing and fixing PTMT 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	56	Each		
82	P/F C.P. grating- 100 mm dia.	168	Each		
83	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.				
	15 mm nominal bore	112	Each		
84	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 a) 15 mm nominal bore				

	15mm nominal bore	280	Each		
85	Providing and fixing C.P.Nipple	672	Each		
86	Providing and fixing C.P. Cap	672	Each		
87	15 mm cement plaster on the rough side of single or half brick wall of mix :				
	1:4 (1 cement: 4 fine sand)	1398.32	Sqm		
88	Providing and fixing uplasticised PVC connection pipe with brass unions :				
	45 cm length				
	15 mm nominal bore	112	Each		
89	Providing and fixing G.I. Pipes complete with G.I. fittings and clamps, i/c making good the walls etc. concealed pipe, including painting with anti corrosive bitumastic paint, cutting chases and making good the wall :				
	15 mm dia nominal bore	280	Mtr.		
	20 mm dia nominal bore	280	Mtr.		
					(Rs.)

Total in words: (Rupees.....) only

Signature of the contractor