

BAP: CF&D:16 / 3289

June 14, 2008

To

Dear Sir(s),

Sub: Maintenance works in Engineering building & Shop office Toilets (Phase I) and Administration building Toilets (phase II) in factory - Reg.

Ref: Tender Notice No .BAP: CF: 13 / 2008 - 09 Dt 14..06.2008 .

We herewith enclose the document for the above work. You are required to submit most competitive offer in a sealed cover so as to reach the **OFFICE OF AGM (Civil Projects & Services) before 15.00 Hrs. on 01.07.2008.**

The tender will be opened by 15.00 hrs. on the same day. The Earnest Money Deposit for the above work is as given below and this will be accepted in the form of DD, drawn in favour of, BHEL/RANIPET-6 payable at RANIPET-6, (OR) Cash receipt issued by BHEL authorities on remittance of cash (as permissible under Income Tax Act) at Cash Office BHEL/RANIPET-6. Without EMD, your tender will not be considered.

THE SUCCESSFUL TENDERER IS REQUIRED TO START THE WORK IMMEDIATELY AND COMPLETE THE WORK WITHIN THE STIPULATED TIME. UNDER ANY CIRCUMSTANCES NO EXTENSION OF TIME WILL BE GRANTED.

NAME OF WORK : **Maintenance works in Engineering building & Shop office Toilets (Phase I) and Administration building Toilets (phase II) in factory**

EMD AMOUNT : **Rs 1.00 Lakh**

DATE OF OPENING: **01.07.2008**

PERIOD OF CONTRACT : **Four months**

We hope to receive your offer on the due date of opening and in case you are not interested to quote, then you please state the reasons and return back the documents.

Increasing the rates subsequent to opening of tender is not admissible and the tender is liable for cancellation / forfeiture of EMD. The rates quoted in the tender shall remain valid for a period of Three Months from the date of opening the tender.

Rate quoted shall be firm throughout the contract period and include all royalties, terminal taxes, central or provincial excise tax, sales tax, tax on works contract and any other taxes leviable under the State or Central Government Rules. The Bharat Heavy Electricals Limited will not entertain any claim in this regard. Service tax if any shall be reimbursed to you on production of documentary evidences.

No deviations to the tender conditions will normally be accepted.

Thanking you,

Yours faithfully,

For and on behalf of BHEL,

(C.CHELLADURAI)

DGM (Civil Factory & Designs)

Encl.: Tender Document



Bharat Heavy Electricals Limited
Boiler Auxilaries Plant,
Ranipet –632 406

SPECIAL CONDITIONS OF CONTRACT

- 1 The tenderer shall quote a percentage above or below or at par, the rates shown in the Bill of Quantities based on CPWD DSR 2007. The percentage quoted shall be clearly written both in words and figures.
- 2 The quoted percentage will apply to the individual items uniformly .
- 3 The above rates does not include PF & ESI remittance .The tenderer shall quote inclusive of PF & ESI contribution to their workers.
- 4 Items of work other than those mentioned in Bill of Quantities will have to be carried out at the rates to be fixed by this organisation .The same offered percentage will be applicable with reference to CPWD DSR 2007.
- 5 Power and water will be available free of charges from the nearest tapping point . The contractor should make necessary arrangement for tapping the same.
- 6 Safety precautions should be taken while doing the work.
- 7 Rate quoted shall be firm throughout the contract period and include all royalties, terminal taxes, central or provincial excise tax, sales tax, tax on works contract and any other taxes leviable under the State or Central Government Rules. The Bharat Heavy Electricals Limited will not entertain any claim in this regard
- 8 All materials shall confirm to the latest IS/IRC specifications
- 9 All the works to be carriedout strictly as per the specifications laid down in Tamil Nadu Building practice and also satisfying relevant IS/IRC specifications.
- 10 Cement and Reinforcement steel will be issued at free of cost.
- 10a Cement and Reinforcement steel will be issued free of cost for theoretical consumption and at a recovery rate of Rs. 4,318.60/MT and 'Rs. 30809.30/MT respectively upto 5% over and above the theoretical consumption beyond which penal recovery will be effected at the double the rates specified above.
- 11 Once the work is completed the contractor should remove all the unwanted materials from the site time to time and it should be disposed off as per the instructions of Engineer-in-charge without any further delay.
- 12 All the rates are inclusive of scaffolding charges ,sundries & contingencies , carriage of materials ,cost of brush ,sand paper, ladder, gum, putty, turpentine, caustic soda or washing soda, mixing charges etc., complete.
- 13 All works shall be carried out as per standard specifications and instructions of Engineer-in-charge.
- 14 Base preparation, mixing ratio,etc. shall be as per the recommendations of the manufacturer.
- 15 All materials, colour, shade,brand, etc. shall be got approved from the Engineer-in-charge before the start of the work and shall confirm to the latest IS/IRC specifications..



Bharat Heavy Electricals Limited
Boiler Auxilaries Plant,
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- 16 The current minimum wages per day for USW is Rs.136.30/-
- 17 Coefficient of consumption for paint, distemper, cement, etc. shall be as per CPWD 2007 data.
- 18 The contractor have to follow all statutory requirements like PF ,ESI etc.,through out the contract period.
- 19 The General conditions of contract in force shall apply to this contract.
- 20 The contracator is required to engage a Degree & Diploma holder Engineer through out the contract period.
- 21 **The rates are to be quoted exclusive of service Tax if any. You will have to submit the Service Tax Registration Certificate to BHEL . You will have to remit the service tax if any and claim reimbursement from BHEL as per contract condition on production of necessary documents . If for any reason , tenderer has to pay penalty ,interest on service tax,the tenderer has to bear such additional payment. BHEL will pay only the Service Tax at actual .**
- 22 Time is essence of the contract. Any delay beyond the delivery date will be subjected to LD.
- 23 BHEL reserves the right of splitting the work as its description to TWO OR MORE parties. For the purpose of split up Administrative Building Toilets will be ordered on L1 (Part 2- Estimated Value is 7.78 Lakhs) and balance Engineering Building & Shop office toilets will be ordered on L2 at the ordering rate of L1 (Part -1 Estimated Value is Rs 7.22 Lakhs).

BHARAT HEAVY ELECTRICALS LIMITED

BOILER AUXILIARIES PLANT

RANIPET - 632406

ESTIMATE

ESTIMATE REF NO : CF/RB/26

NAME OF WORK : MAINTENANCE WORKS IN ENGG BLDG & SHOP OFFICE TOILETS IN FACTORY (PART-1)

CPWD 2007 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE RS P	AMOUNT RS P
15.	01	Restricted partial dismantling for the following items where extra care has to be taken to safe guard the existing structures .				.00
15.7.4	01A	DISMANTLING OF BRICK MASONRY IN CEMENT MORTAR WALLS AT ALL LEVELS & HEIGHTS AND DISPOSAL OF DISMANTLED MATERIALS WITHIN 100M LEAD.	3	CUM	310.75	932.25
15.2.1+15.2	01B	DEMOLISHING/DISMANTLING OF PLAIN CEMENT CONCRETE WORKS AT ALL LEVELS AND HEIGHTS AND DISPOSAL OF UNSERVICEABLE MATERIALS WITHIN 100M LEAD	3	CUM	297.68	893.04
15.3	01C	DEMOLISHING/DISMANTLING OF REINFORCED CEMENT CONCRETE WORKS AT ALL LEVELS AND HEIGHTS INCLUDING STACKING OF STEEL BARS AND HANDING OVER TO BHEL STORES AND DISPOSAL OF UNSERVICEABLE MATERIALS WITHIN 100M LEAD	4	CUM	537.55	2150.20
15.23.2	01D	DISMANTLING OF EXISTING MOSAIC FLOOR/DADOING LAID IN CEMENT MORTAR INCLUDING STACKING MATREIALS WITHIN100 M	500	SQM	16.60	8300.00
15.52	01E	DISMANTLING OF FLUSING CISTERN OF ANY SIZE INCLUDING STACKING OF USEFUL MATERIALS NEAR THE SITE AND DISPOSAL OF UNSERVICEABLE MATERIALS WITHIN 50M LEAD.	25	EACH	143.35	3583.75
15.40.1	01F	DISMANTLING PRECAST CONCRETE OR STONE SLABS IN WALLS, PARTITION WALLS, ETC. INCLUDING STACKING WITHIN 50 METRES LEAD OF VARIABLE THICKNESS UP TO 75MM.	3	SQM	44.10	132.30
S1 AGT 01/01	01G	DISMANTLING OF GI PIPES (EXTERNAL WORKS) INCLUDING STACKING AT BHEL STORES (FOR 15MM TO 40MM DIA NOMINAL SIZE GI PIPES)	190	RM	3.00	570.00
15.56	01H	Dismantling old plaster or skirting raking out joints and cleaning the	10	SQM	8.20	82.00

CONTRACTOR/ TENDERER

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ESTIMATE

NAME OF WORK : MAINTENANCE WORKS IN ENGG BLDG & SHOP OFFICE TOILETS IN FACTORY (PART-1)

CPWD 2007 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
		surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.						
15.42.2	01I	Dismantling C.I. or asbestos rain water pipe with fittings and clamps including stacking the material within 50 metres lead :UPTO 100MM DIA PIPE	25	RM	11.80			295.00
15.12.1	01J	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 SQM AND BELOW	10	SQM	54.60			546.00
2.27	02	SUPPLYING AND FILLING IN PLINTH WITH GOOD RIVER SAND UNDER FLOORS INCLUDING, WATERING, RAMMING, CONSOLIDATING AND DRESSING COMPLETE	3	CUM	301.50			904.50
4.1.8	03	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level 1:4::8 (1 cement 4 fine sand: 8graded stone aggregate 40 mm nominal size)	3	CUM	1568.40			4705.20
5.9.3	04A	CENTERING AND SHUTTERING INCLUDING STRUTTING, PROPPING, ETC, AND REMOVAL OF FORM FOR THE FOLLOWINGS. SUSPENDED FLOORS, ROOFS, LANDINGS, BALCONIES AND ACCESS PLATFORM	10	SQM	187.35			1873.50
5.9.5	04B	LINTELS, BEAMS, PLINTH BEAMS, GIRDERS, BRESSUMERS AND CANTILEVERS	10	SQM	162.65			1626.50
5.22.3	05	REINFORCEMENT FOR RCC WORK INCLUDING STRAIGHTENING, CUTTING, BENDING, PLACING IN POSITION AND BINDING ALL COMPLETE FOR MILD STEEL AND COLD TWISTED BARS	200	KG	10.95			2190.00
5.1.3	06	PROVIDING AND LAYING IN POSITION SPECIFIED GRADE OF REINFORCED CEMENT CONCRETE EXCLUDING THE COST OF CENTERING, SHUTTERING, FINISHING AND REINFORCEMENT WITH 1:2:4 (1 CEMENT : 2 COARSE SAND : 4 GRADED STONE	3	CUM	1702.00			5106.00

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ESTIMATE**NAME OF WORK : MAINTENANCE WORKS IN ENGG BLDG & SHOP OFFICE TOILETS IN FACTORY (PART-1)**

CPWD 2007 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE RS P	AMOUNT RS P
		AGGREGATE 20MM NOMINAL SIZE) - ALL WORKS UP TO PLINTH LEVEL.				
6.4.2	07	PROVIDING BRICK WORK WITH LOCALLY AVAILABLE BEST BRICKS FROM APPROVED SOURCE IN CEMENT MORTAR 1:6 (1 CEMENT : 6 FINE SAND). RATE TO INCLUDE COST OF LABOUR, SCAFFOLDING CHARGES, MATERIAL AND CURING ETC., COMPLETE. BRICKS SHALL BE OF APPROVED QUALITY AND GRADE AS APPROVED BY THE ENGINEER IN CHARGE. FOR ALL WORKS IN FOUNDATION & GROUND FLOOR.	2	CUM	2033.65	4067.30
6.13.2	08	PROVIDING BRICK PARTITION IN HALF BRICK WALL IN CEMENT MORTAR 1:4 USING LOCALLY AVAILABLE BEST COUNTRY BRICKS AS APPROVED BY THE ENGINEER IN CHARGE	20	SQM	247.68	4953.60
13.1.2	09	PLASTERING IN CEMENT MORTAR 1:6, 12 MM THICK ON EVEN SURFACE AS PER STANDARD SPECIFICATION. RATE TO INCLUDE COST OF SCAFFOLDING, LABOUR AND MATERIALS ETC., COMPLETE.	70	SQM	49.00	3430.00
13.2.2	10	PLASTERING IN CEMENT MORTAR 1:6, 15 MM THICK ON UNEVEN AND OUTSIDE SURFACE AS PER STANDARD SPECIFICATION. RATE TO INCLUDE COST OF SCAFFOLDING, LABOUR AND MATERIALS ETC., COMPLETE.	15	SQM	56.28	844.20
13.16.1	11	6MM CEMENT PLASTER OF MIX 1:3 (1 CEMENT : 3 FINE SAND) FOR ROOF CEILING.	35	SQM	43.14	1509.90
PWD SOR07-01	12	LABOUR CHARGES FOR FIXING WINDOWS AND VENTILATORS ALONG WITH FRAMES IN POSITION ETC., COMPLETE	5	SQM	68.00	340.00
17.1.1.1	13	PROVIDING AND FIXING WATER CLOSET SQUATTING PAN (INDIAN TYPE W.C.PAN) WITH 100MM P OR S TRAP, 10 LITRE LOW WHITE PVC FLUSHING CISTERN WITH MANUALLY CONTROLLED DEVICE (HANDLE LEVER) CONFORMING TO IS:7231, WITH ALL FITTINGS AND FIXTURES COMPLETE	20	EACH	2304.65	46093.00

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ESTIMATE**NAME OF WORK : MAINTENANCE WORKS IN ENGG BLDG & SHOP OFFICE TOILETS IN FACTORY (PART-1)**

CPWD 2007 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
		INCLUDING CUTTING AND MAKING GOOD THE WALLS AND FLOORS WHEREEVER REQUIRED. WHITE VITREOUS CHINA ORISSA PATTERN W.C.PAN OF SIZE 580X440MM WITH INTEGRAL TYPE FOOT RESTS.						
17.2.1	14	PROVIDING AND FIXING WHITE VITREOUS CHINA PADESTAL TYPE WATER CLOSET (EUROPEAN TYPE W.C.PAN) WITH SEAT AND LID,10 LITRE LOW LEVEL WITH PVC FLUSHING CISTERN 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 WHEREEVER REQUIRED. W.C.PAN WITH ISI MARKED BLACK SOLID PLASTIC SEAT AND LID.	7	EACH	2152.50		15067.50	
17.31	15A	PROVIDING AND FIXING 600X450MM BEVELLED EDGE MIRROR OF SUPERIOR GLASS (OF APPROVED QUALITY) COMPLETE WITH 6MM THICK HARD BOARD GROUND FIXED TO WOODEN CLEATS WITH C.P. BRASS SCREWS AND WASHERS COMPLETE.	7	EACH	493.65		3455.55	
17.32.2	15B	PROVIDING AND FIXING MIRROR THICKNESS OF REQUIRED SHAPE AND SIZE WITH PLASTIC MOULDED FRAME OF APPROVED MAKE AND SHADE WITH 6 MM THICK HARD BOARD BACKING. RECTANGULAR SHAPE 453 X 357 MM	7	EACH	465.10		3255.70	
18.15.1	16	PROVIDING AND FIXING BRASS BIB COCK OF 15MM NOMINAL SIZE APPROVED QUALITY.	13	EACH	191.70		2492.10	
18.52.1	17	PROVIDING AND FIXING CP BRASS STOP COCK (CONCEALED) OF STANDARD DESIGN AND OF APPROVED MAKE CONFIRMING TO IS : 8931 - FOR 15MM NOMINAL BORE.	13	EACH	262.55		3413.15	
18.16.2	18	PROVIDING AND FIXING CP BRASS STOP COCK OF APPROVED QUALITY 20MM NOMINAL BORE.	5	EACH	322.10		1610.50	

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CPWD 2007 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
18.17.1	19	PROVIDING AND FIXING GUN METAL GATE VALVE OF 25MM NOMINAL BORE WITH CI WHEEL OF APPROVED QUALITY (SCREWED END)	7	EACH	285.50		1998.50	
18.21.1.1	20	SUPPLYING AND FIXING FLEXIBLE HOSE CONNECTOR						.00
18.21.2.1	20A	15 mm nominal bore -45 cm length	10	EACH	44.75		447.50	
18.21.2.2	20B	20 mm nominal bore - 45 cm length	10	EACH	56.35		563.50	
18.10.1	21A	PROVIDING AND FIXING GI PIPES COMPLETE WITH GI FITTINGS AND CLAMPS, INCLUDING CUTTING AND MAKING GOOD THE WALLS ETC., (INTERNAL WORK) 15MM DIA NOMINAL BORE	220	RM	105.85		23287.00	
18.10.2	21B	20MM DIA NOMINAL BORE	20	RM	133.85		2677.00	
18.10.3	21C	25MM DIA NOMINAL BORE	95	RM	179.65		17066.75	
8.2.2.2	22A	PROVIDING AND FIXING 18 MM THICK GANG SAW CUT MIRROR POLISHED PREMOULDED AND PREPOLISHED) MACHINE CUT FOR KITCHEN PLATFORMS ,VANITY COUNTERS ,WINDOW SILLS ,FACIAS AND SIMILAR LOCATIONS OF REQUIRED SIZE OF APPROVED SHADE ,COLOUR AND TEXTURE LAID OVER 20 MM THICK BASE CEMENT MORTAR 1:4 (1 CEMENT :4 COARSE SAND) WITH JOINTS TREATED WITH WHITE CEMENT, MIXED WITH MATCHING PIGMENT, EPOXY TOUCH UPS, INCLUDING RUBBING, CURING MOULDING AND POLISHING TO EDGE TO GIVE HIGH GLOSS FINISH ETC. COMPLETE AT ALL LEVELS. FOR GRANITE OF ANY COLOUR AND SHADE AREA OF SLABS OVER 0.50 SQM	40	SQM	2514.12		100564.80	
8.2.2.2	22B	Same as above but granite slab will be supplied at free of cost at dept stores	10	SQM	593.60		5936.00	
8.3.2	22C	EXTRA FOR PROVIDING EDGE MOULDING TO 18 MM THICK MARBLE STONE COUNTERS,VANITIES ETC., OVER THE ABOVE ITEM INCLUDING MACHINE POLISHING TO EDGE TO GIVE HOGH GLOSS FINISH ETC.,	120	RM	97.60		11712.00	

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ESTIMATE**NAME OF WORK : MAINTENANCE WORKS IN ENGG BLDG & SHOP OFFICE TOILETS IN FACTORY (PART-1)**

CPWD 2007 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE RS P	AMOUNT RS P
		COMPLETE AS PER DESIGN APPROVED BY ENGINEER-IN-CHARGE. GRANITE WORK .				
11.3.1	23	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 20 mm nominal size stone aggregate	10	SQM	104.89	1048.90
18.57.1	24A	PROVIDING AND FIXING C.P.BRASS PUSH COCK OF APPROVED QUALITY 15MM DIA NOMINAL BORE	5	EACH	113.90	569.50
12.42.5.1	25A	PROVIDING AND FIXING ON WALL FACE UNPLASTICISED - RIGID 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 10MM GAP FOR THERMAL EXPANSION 75MM BEND	7	EACH	88.40	618.80
12.42.4.1	25B	75MX75X75MM TEE WITHOUT DOOR	7	EACH	157.70	1103.90
12.40.1	25C	75 MM DIAMETERSINGLE SOCKETED PIPES	65	RM	95.00	6175.00
12.42.5.2	25D	110 MM BEND	7	EACH	134.20	939.40
12.42.6.2	25E	110 MM SHOE	7	EACH	263.10	1841.70
12.40.2	25F	110 MM DIAMETER SINGLE SOCKETED PIPES	30	RM	163.40	4902.00
5.18.1	26	Providing, precast cement concrete Jali 1:2:4 (1 Cement : 2 coarse sand : 4 stone aggregate 6mm nominal size) reinforced with 1.6 mm dia mild steel wire including centring and shuttering, roughening cleaning, fixing and finishing in cement mortar 1:3 (1 cement :3 fine sand) etc.complete excluding plastering of the jambs,sills and soffits.50 MM THICK	3	SQM	359.20	1077.60

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ESTIMATE

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CPWD 2007 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE RS P	AMOUNT RS P
14.42.2	27	WHITE WASHING WITH LIME TO GIVE AN EVEN SHADE ONE COAT ON OLD WORK	200	SQM	2.55	510.00
14.42.1	28	WHITE WASHING WITH LIME TO GIVE AN EVEN SHADE TWO COATS ON OLD WORK	100	SQM	4.10	410.00
13.37.1	29	WHITE WASHING THREE COATS ON NEWLY PLASTERED SURFACE AND IN CEILING USING BEST SHELL LIME TO GIVE AN EVEN SHADE INCLUDING CLEANING AND BRUSHES OF WALLS AND PREPARING SURFACE IN ACCORDANCE WITH STANDARD SPECIFICATIONS. RATE TO INCLUDE COST OF MATERIALS, LABOURS ETC.,	325	SQM	6.75	2193.75
13.61.1	30	PAINTING WITH READY MIXED SYNTHETIC ENAMEL PAINT OF APPROVED BRAND AND MANUFACTURE IN ALL SHADES TO GIVE AN EVEN SHADE FOR NEW STEEL WORK WITH TWO COATS.	10	SQM	33.25	332.50
14.67.1	31	FINISHING WALLS WITH PREMIUM ACRYLIC SMOOTH EXTERIOR PAINT WITH SILICONE ADDITIVES OF REQUIRED SHADE - FOR OLD WORK (TWO OR MORE COATS APPLIED @1.43 LTR / 10 SQM) OVER EXISTING CEMENT PAINT SURFACE.	65	SQM	46.60	3029.00
1.1.1	32	CONVEYANCE OF SURPLUS EARTH/DISMANTLED MATERIALS LIKE BRICK WORK, PCC, RCC, ETC., BEYOND INITIAL LEAD AND UPTO A LEAD OF 2 KMS INCLUDING LOADING, LEADING, UNLOADING, SPREADING, LEVELLING AND CONSOLIDATING IF REQUIRED ETC., COMPLETE ALL AS PER STANDARD SPECIFICATION & INSTRUCTIONS OF ENGINEER-IN-CHARGE.	30	CUM	39.53	1185.90
17.71	33	PROVIDING AND FIXING PTMT LIQUID SOAP CONTAINER 109MM WIDE, 125MM HIGH AND 112MM DISTANCE FROM WALL OF STANDARD SHAPE WITH BRACKET OF THE SAME MATERIALS WITH SNAP FITTINGS OF APPROVED QUALITY COLOUR AND MAKE, WEIGHING NOT LESS THAN 105 GMS.	10	EACH	164.65	1646.50

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ESTIMATE**NAME OF WORK : MAINTENANCE WORKS IN ENGG BLDG & SHOP OFFICE TOILETS IN FACTORY (PART-1)**

CPWD 2007 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
17.33	34	PROVIDING AND FIXING 600 X 120 X 5MM GLASS SHELF WITH EDGES ROUND OF SUPPORTED ON ANODISED ALUMINIUM ANGLE FRAME WITH CP BRASS BRACKETS AND GUARD RAIL COMPLETE FIXED WITH 40MM LONG SCREWS, RAWL PLUGS, ETC COMPLETE.	10	EACH	218.80		2188.00	
19.4.1.1	35	PROVIDING AND FIXING SQUARE MOUTH SW GULLY TRAP GRADE 'A' COMPLETE WITH CI GRATING BRICK MASONRY CHAMBER WITH WATER TIGHT CI COVER WITH FRAME OF 300 X 300 MM SIZE (INSIDE) THE WEIGHT OF COVER TO BE NOT LESS THAN 4.50 KG AND FRAME TO BE NOT LESS THAN 2.70 KG AS PER STANDARD DESIGN - FOR 100 X 100 MM SIZE P TYPE	5	EACH	795.29		3976.45	
17.7.1	36	PROVIDING AND FIXING WASH BASIN WITH CI / MS BRACKETS, 15MM CP BRASS PILLAR TAPS, 32MM CP BRASS WASTE OF STANDARD PATTERN, INCLUDING PAINTING OF FITTINGS AND BRACKETS, CUTTING AND MAKING GOOD THE WALLS WHEREVER REQUIRE - FOR WASH BASIN SIZE 630 X 450MM WITH A SINGLE 15MM CP BRASS PILLAR TAP.	7	EACH	1332.90		9330.30	
18.22.1	37	PROVIDING AND FIXING CP BRASS SHOWER ROSE WITH 15 OR 20MM INLET - FOR 100MM DIA	5	EACH	40.40		202.00	
9.118.1	38	Providing and fixing to existing door frames 24 mm thick factory made PVC door shutters made of styles and rails of a UPVC hollow section of size 59x24 mm and wall thickness 2 mm + 0.2 mm with inbuilt edging on both sides. The styles and rails mitred and joined at the corners by means of M.S. galvanised/plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm + 0.1 mm wall thickness.						.00

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CPWD 2007 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
9.118.1	38A	The lock rail made up of 'H' section, a UPVC hollow section of size 100x24 mm and 2 mm + 0.2 mm wall thickness fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a UPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm + 0.1 mm wall thickness . The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge.	32	SQM	2190.50		70096.00	
9.117.2	38B	Providing and fixing factory made UPVC door frame made of UPVC extruded section having overall dimension of 42x50 mm (tolerance +_ 1 mm) with wall thickness 2.0 mm +_ 0.2 mm, corners of the door frame to be mitred and joined by means of plastic/M.S. galvanised brackets and stainless steel screws. The hinge side vertical of the frames reinforced by galvanised M.S. tube of size 19x19 mm and 1 mm +_ 0.1 mm wall thickness and 3 Nos. stainless steel hinges fixed to the frame complete as per manufacturers specification and direction of Engineer-in-charge.	50	RM	146.80		7340.00	
LOCAL RATE	39	SUPPLYING AND FIXING OF PVC NAHANI TRAP 100X50MM	20	EACH	50.00		1000.00	
17.69.2	40	SUPPLYING AND FIXING OF CP WASTE COUPLING	20	EACH	100.20		2004.00	
LOCAL RATE	41	SUPPLYING AND FIXING OF CP 100 MM DIA GRATING.	20	EACH	50.00		1000.00	
11.38	42A	PROVIDING AND LAYING CERAMIC GLAZED FLOOR TILES 300 X 300 MM (THICKNESS TO BE SPECIFIED BY THE MANUFACTURER) OF FIRST QUALITY CONFORMING TO IS 15622 OF APPROVED MAKE IN ALL COLOURS AND SHADES , AS APPROVED BY ENGINEER-IN-	110	SQM	566.46		62310.60	

CONTRACTOR/ TENDERER

ACCEPTING OFFICER

BHARAT HEAVY ELECTRICALS LIMITED

BOILER AUXILIARIES PLANT

RANIPET - 632406

ESTIMATE

NAME OF WORK : MAINTENANCE WORKS IN ENGG BLDG & SHOP OFFICE TOILETS IN FACTORY (PART-1)

CPWD 2007 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
		CHARGE LAID ON 20MM THICK CM 1:4 (1 CEMENT : 4 COARSE SAND) INCLUDING POINTING THE JOINTS WITH WHITE CEMENT AND MATCHING PIGMENT ETC. COMPLETE.						
11.38	42B	Same as above but glazed tile will be supplied at free of cost at dept stores.	10	SQM	167.40		1674.00	
11.36	43A	PROVIDING AND FIXING FIRST QUALITY CERAMIC GLAZED WALL TILES CONFORMING TO IS 15622 (THICKNESS TO BE SPECIFIED BY THE MANUFACTURE) OF APPROVED MAKE IN ALL COLOURS AND SHADES AS APPROVED BY ENGINEER-IN-CHARGE IN SKIRTING, RISERS OF STEPS AND DADOS OVER 12MM THICK BED OF CM 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.	100	SQM	492.26		49226.00	
11.36	43B	Same as above but glazed tile will be supplied at free of cost at dept stores.	10	SQM	184.05		1840.50	
AGT25/07-08	44A	PROVIDING AND FIXING WHITE VITREOUS CHINA FLAT BACK LIPPED FRONT URINAL OF SIZE 430X260X350 MM WITH ELECTRONIC FLUSHING SYSTEM OPERATED IN D.C. CURRENT WITH STANDARD FLUSH PIPE AND C.P BRASS SPREADERS WITH BRASS UNIONS AND G.I CLAMPS COMPLETE , INCLUDING PAINTING OF FITTINGS AND BRACKETS, CUTTING AND MAKING GOOD THE WALLS WHEREVER REQUIRE POWER POINT WILL BE PROVIDED BY BHEL FREE OF COST AT REQUIRED LEVEL.	16	EACH	11969.10		191505.60	
AGT25/07-08	44B	Same as above but intergrated EFS A/C Urinal system will be supplied at free of cost at dept stores.	2	EACH	595.10		1190.20	
13.68.1	45	French spirit polishing : TWO or more coats on new works including a coat of wood filler.	10	SQM	75.60		756.00	
19.1.1	46	Providing, laying and jointing glazed stoneware pipes grade `A₂ with stiff	10	RM	94.66		946.60	

CONTRACTOR/ TENDERER

ACCEPTING OFFICER

BHARAT HEAVY ELECTRICALS LIMITED

BOILER AUXILIARIES PLANT

RANIPET - 632406

ESTIMATE

NAME OF WORK : MAINTENANCE WORKS IN ENGG BLDG & SHOP OFFICE TOILETS IN FACTORY (PART-1)

CPWD 2007 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE RS P	AMOUNT RS P
		mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete 100 mm diameter				

TOTAL ESTIMATED VALUE 722846.49

CONTRACTOR TENDER PERCENTAGE @ ABOVE / BELOW / AT PAR _____%

(Percentage in words)

TOTAL VALUE OF WORK

=====

=====

CONTRACTOR/ TENDERER

ACCEPTING OFFICER

BHARAT HEAVY ELECTRICALS LIMITED

BOILER AUXILIARIES PLANT

RANIPET - 632406

ESTIMATE

ESTIMATE REF NO : CF/RB/27

NAME OF WORK : MAINTENANCE WORKS IN ADMINISTRATIVE BLDG TOILETS IN FACTORY.(PART -2)

CPWD 2007 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE RS P	AMOUNT RS P
15.	01	Restricted partial dismantling for the following items where extra care has to be taken to safe guard the existing structures .				.00
15.7.4	01A	DISMANTLING OF BRICK MASONRY IN CEMENT MORTAR WALLS AT ALL LEVELS & HEIGHTS AND DISPOSAL OF DISMANTLED MATERIALS WITHIN 100M LEAD.	5	CUM	310.75	1553.75
15.2.1+15.2	01B	DEMOLISHING/DISMANTLING OF PLAIN CEMENT CONCRETE WORKS AT ALL LEVELS AND HEIGHTS AND DISPOSAL OF UNSERVICEABLE MATERIALS WITHIN 100M LEAD	5	CUM	297.68	1488.40
15.3	01C	DEMOLISHING/DISMANTLING OF REINFORCED CEMENT CONCRETE WORKS AT ALL LEVELS AND HEIGHTS INCLUDING STACKING OF STEEL BARS AND HANDING OVER TO BHEL STORES AND DISPOSAL OF UNSERVICEABLE MATERIALS WITHIN 100M LEAD	7	CUM	537.55	3762.85
15.23.2	01D	DISMANTLING OF EXISTING MOSAIC FLOOR/DADOING LAID IN CEMENT MORTAR INCLUDING STACKING MATREIALS WITHIN100 M	120	SQM	16.60	1992.00
15.52	01E	DISMANTLING OF FLUSING CISTERN OF ANY SIZE INCLUDING STACKING OF USEFUL MATERIALS NEAR THE SITE AND DISPOSAL OF UNSERVICEABLE MATERIALS WITHIN 50M LEAD.	45	EACH	143.35	6450.75
15.40.1	01F	DISMANTLING PRECAST CONCRETE OR STONE SLABS IN WALLS, PARTITION WALLS, ETC. INCLUDING STACKING WITHIN 50 METRES LEAD OF VARIABLE THICKNESS UP TO 75MM.	5	SQM	44.10	220.50
S1 AGT 01/01	01G	DISMANTLING OF GI PIPES (EXTERNAL WORKS) INCLUDING STACKING AT BHEL STORES (FOR 15MM TO 40MM DIA NOMINAL SIZE GI PIPES)	310	RM	3.00	930.00
15.56	01H	Dismantling old plaster or skirting raking out joints and cleaning the	15	SQM	8.20	123.00

CONTRACTOR/ TENDERER

ACCEPTING OFFICER

BHARAT HEAVY ELECTRICALS LIMITED

BOILER AUXILIARIES PLANT

RANIPET - 632406

ESTIMATE**NAME OF WORK : MAINTENANCE WORKS IN ADMINISTRATIVE BLDG TOILETS IN FACTORY.(PART -2)**

CPWD 2007 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
		surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.						
15.42.2	01I	Dismantling C.I. or asbestos rain water pipe with fittings and clamps including stacking the material within 50 metres lead :UPTO 100MM DIA PIPE	40	RM	11.80			472.00
15.12.1	01J	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 SQM AND BELOW	15	SQM	54.60			819.00
2.27	02	SUPPLYING AND FILLING IN PLINTH WITH GOOD RIVER SAND UNDER FLOORS INCLUDING, WATERING, RAMMING, CONSOLIDATING AND DRESSING COMPLETE	5	CUM	301.50			1507.50
4.1.8	03	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level 1:4::8 (1 cement 4 fine sand: 8graded stone aggregate 40 mm nominal size)	5	CUM	1568.40			7842.00
5.9.3	04A	CENTERING AND SHUTTERING INCLUDING STRUTTING, PROPPING, ETC, AND REMOVAL OF FORM FOR THE FOLLOWINGS. SUSPENDED FLOORS, ROOFS, LANDINGS, BALCONIES AND ACCESS PLATFORM	15	SQM	187.35			2810.25
5.9.5	04B	LINTELS, BEAMS, PLINTH BEAMS, GIRDERS, BRESSUMERS AND CANTILEVERS	15	SQM	162.65			2439.75
5.22.3	05	REINFORCEMENT FOR RCC WORK INCLUDING STRAIGHTENING, CUTTING, BENDING, PLACING IN POSITION AND BINDING ALL COMPLETE FOR MILD STEEL AND COLD TWISTED BARS	320	KG	10.95			3504.00
5.1.3	06	PROVIDING AND LAYING IN POSITION SPECIFIED GRADE OF REINFORCED CEMENT CONCRETE EXCLUDING THE COST OF CENTERING, SHUTTERING, FINISHING AND REINFORCEMENT WITH 1:2:4 (1 CEMENT : 2 COARSE SAND : 4 GRADED STONE	4	CUM	1702.00			6808.00

CONTRACTOR/ TENDERER

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BHARAT HEAVY ELECTRICALS LIMITED

BOILER AUXILIARIES PLANT

RANIPET - 632406

ESTIMATE**NAME OF WORK : MAINTENANCE WORKS IN ADMINISTRATIVE BLDG TOILETS IN FACTORY.(PART -2)**

CPWD 2007 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE RS P	AMOUNT RS P
		AGGREGATE 20MM NOMINAL SIZE) - ALL WORKS UP TO PLINTH LEVEL.				
6.4.2	07	PROVIDING BRICK WORK WITH LOCALLY AVAILABLE BEST BRICKS FROM APPROVED SOURCE IN CEMENT MORTAR 1:6 (1 CEMENT : 6 FINE SAND). RATE TO INCLUDE COST OF LABOUR, SCAFFOLDING CHARGES, MATERIAL AND CURING ETC., COMPLETE. BRICKS SHALL BE OF APPROVED QUALITY AND GRADE AS APPROVED BY THE ENGINEER IN CHARGE. FOR ALL WORKS IN FOUNDATION & GROUND FLOOR.	3	CUM	2033.65	6100.95
6.13.2	08	PROVIDING BRICK PARTITION IN HALF BRICK WALL IN CEMENT MORTAR 1:4 USING LOCALLY AVAILABLE BEST COUNTRY BRICKS AS APPROVED BY THE ENGINEER IN CHARGE	30	SQM	247.68	7430.40
13.1.2	09	PLASTERING IN CEMENT MORTAR 1:6, 12 MM THICK ON EVEN SURFACE AS PER STANDARD SPECIFICATION. RATE TO INCLUDE COST OF SCAFFOLDING, LABOUR AND MATERIALS ETC., COMPLETE.	110	SQM	49.00	5390.00
13.2.2	10	PLASTERING IN CEMENT MORTAR 1:6, 15 MM THICK ON UNEVEN AND OUTSIDE SURFACE AS PER STANDARD SPECIFICATION. RATE TO INCLUDE COST OF SCAFFOLDING, LABOUR AND MATERIALS ETC., COMPLETE.	165	SQM	56.28	9286.20
13.16.1	11	6MM CEMENT PLASTER OF MIX 1:3 (1 CEMENT : 3 FINE SAND) FOR ROOF CEILING.	45	SQM	43.14	1941.30
PWD SOR07-01	12	LABOUR CHARGES FOR FIXING WINDOWS AND VENTILATORS ALONG WITH FRAMES IN POSITION ETC., COMPLETE	10	SQM	68.00	680.00
17.1.1	13	PROVIDING AND FIXING WATER CLOSET SQUATTING PAN (INDIAN TYPE W.C.PAN) WITH 100MM P OR S TRAP, 10 LITRE LOW WHITE PVC FLUSHING CISTERN WITH MANUALLY CONTROLLED DEVICE (HANDLE LEVER) CONFORMING TO IS:7231, WITH ALL FITTINGS AND FIXTURES COMPLETE	15	EACH	2304.65	34569.75

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BHARAT HEAVY ELECTRICALS LIMITED

BOILER AUXILIARIES PLANT

RANIPET - 632406

ESTIMATE**NAME OF WORK : MAINTENANCE WORKS IN ADMINISTRATIVE BLDG TOILETS IN FACTORY.(PART -2)**

CPWD 2007 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
		INCLUDING CUTTING AND MAKING GOOD THE WALLS AND FLOORS WHEREEVER REQUIRED. WHITE VITREOUS CHINA ORISSA PATTERN W.C.PAN OF SIZE 580X440MM WITH INTEGRAL TYPE FOOT RESTS.						
17.2.1	14	PROVIDING AND FIXING WHITE VITREOUS CHINA PADESTAL TYPE WATER CLOSET (EUROPEAN TYPE W.C.PAN) WITH SEAT AND LID,10 LITRE LOW LEVEL WITH PVC FLUSHING CISTERN 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 WHEREEVER REQUIRED. W.C.PAN WITH ISI MARKED BLACK SOLID PLASTIC SEAT AND LID.	13	EACH	2152.50		27982.50	
17.31	15A	PROVIDING AND FIXING 600X450MM BEVELLED EDGE MIRROR OF SUPERIOR GLASS (OF APPROVED QUALITY) COMPLETE WITH 6MM THICK HARD BOARD GROUND FIXED TO WOODEN CLEATS WITH C.P. BRASS SCREWS AND WASHERS COMPLETE.	8	EACH	493.65		3949.20	
17.32.2	15B	PROVIDING AND FIXING MIRROR THICKNESS OF REQUIRED SHAPE AND SIZE WITH PLASTIC MOULDED FRAME OF APPROVED MAKE AND SHADE WITH 6 MM THICK HARD BOARD BACKING. RECTANGULAR SHAPE 453 X 357 MM	8	EACH	465.10		3720.80	
18.15.1	16	PROVIDING AND FIXING BRASS BIB COCK OF 15MM NOMINAL SIZE APPROVED QUALITY.	27	EACH	191.70		5175.90	
18.52.1	17	PROVIDING AND FIXING CP BRASS STOP COCK (CONCEALED) OF STANDARD DESIGN AND OF APPROVED MAKE CONFIRMING TO IS : 8931 - FOR 15MM NOMINAL BORE.	27	EACH	262.55		7088.85	
18.16.2	18	PROVIDING AND FIXING CP BRASS STOP COCK OF APPROVED QUALITY 20MM NOMINAL BORE.	10	EACH	322.10		3221.00	

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BOILER AUXILIARIES PLANT

RANIPET - 632406

ESTIMATE**NAME OF WORK : MAINTENANCE WORKS IN ADMINISTRATIVE BLDG TOILETS IN FACTORY.(PART -2)**

CPWD 2007 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
18.17.1	19	PROVIDING AND FIXING GUN METAL GATE VALVE OF 25MM NOMINAL BORE WITH CI WHEEL OF APPROVED QUALITY (SCREWED END)	13	EACH	285.50		3711.50	
18.21.1.1	20	SUPPLYING AND FIXING FLEXIBLE HOSE CONNECTOR						.00
18.21.2.1	20A	15 mm nominal bore -45 cm length	10	EACH	44.75		447.50	
18.21.2.2	20B	20 mm nominal bore - 45 cm length	10	EACH	56.35		563.50	
18.10.1	21A	PROVIDING AND FIXING GI PIPES COMPLETE WITH GI FITTINGS AND CLAMPS, INCLUDING CUTTING AND MAKING GOOD THE WALLS ETC., (INTERNAL WORK) 15MM DIA NOMINAL BORE	330	RM	105.85		34930.50	
18.10.2	21B	20MM DIA NOMINAL BORE	30	RM	133.85		4015.50	
18.10.3	21C	25MM DIA NOMINAL BORE	155	RM	179.65		27845.75	
8.2.2.2	22A	PROVIDING AND FIXING 18 MM THICK GANG SAW CUT MIRROR POLISHED PREMOULDED AND PREPOLISHED) MACHINE CUT FOR KITCHEN PLATFORMS ,VANITY COUNTERS ,WINDOW SILLS ,FACIAS AND SIMILAR LOCATIONS OF REQUIRED SIZE OF APPROVED SHADE ,COLOUR AND TEXTURE LAID OVER 20 MM THICK BASE CEMENT MORTAR 1:4 (1 CEMENT :4 COARSE SAND) WITH JOINTS TREATED WITH WHITE CEMENT, MIXED WITH MATCHING PIGMENT, EPOXY TOUCH UPS, INCLUDING RUBBING, CURING MOULDING AND POLISHING TO EDGE TO GIVE HIGH GLOSS FINISH ETC. COMPLETE AT ALL LEVELS. FOR GRANITE OF ANY COLOUR AND SHADE AREA OF SLABS OVER 0.50 SQM	10	SQM	2514.12		25141.20	
8.2.2.2	22B	Same as above but granite slab will be supplied at free of cost at dept stores	10	SQM	593.60		5936.00	
8.3.2	22C	EXTRA FOR PROVIDING EDGE MOULDING TO 18 MM THICK MARBLE STONE COUNTERS,VANITIES ETC., OVER THE ABOVE ITEM INCLUDING MACHINE POLISHING TO EDGE TO GIVE HOGH GLOSS FINISH ETC.,	180	RM	97.60		17568.00	

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BOILER AUXILIARIES PLANT

RANIPET - 632406

ESTIMATE**NAME OF WORK : MAINTENANCE WORKS IN ADMINISTRATIVE BLDG TOILETS IN FACTORY.(PART -2)**

CPWD 2007 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE RS P	AMOUNT RS P
		COMPLETE AS PER DESIGN APPROVED BY ENGINEER-IN-CHARGE. GRANITE WORK .				
11.3.1	23	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 20 mm nominal size stone aggregate	15	SQM	104.89	1573.35
18.57.1	24A	PROVIDING AND FIXING C.P.BRASS PUSH COCK OF APPROVED QUALITY 15MM DIA NOMINAL BORE	25	EACH	113.90	2847.50
12.42.5.1	25A	PROVIDING AND FIXING ON WALL FACE UNPLASTICISED - RIGID 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 10MM GAP FOR THERMAL EXPANSION 75MM BEND	8	EACH	88.40	707.20
12.42.4.1	25B	75MX75X75MM TEE WITHOUT DOOR	8	EACH	157.70	1261.60
12.40.1	25C	75 MM DIAMETERSINGLE SOCKETED PIPES	85	RM	95.00	8075.00
12.42.5.2	25D	110 MM BEND	8	EACH	134.20	1073.60
12.42.6.2	25E	110 MM SHOE	8	EACH	263.10	2104.80
12.40.2	25F	110 MM DIAMETER SINGLE SOCKETED PIPES	50	RM	163.40	8170.00
5.18.1	26	Providing, precast cement concrete Jali 1:2:4 (1 Cement : 2 coarse sand : 4 stone aggregate 6mm nominal size) reinforced with 1.6 mm dia mild steel wire including centring and shuttering, roughening cleaning, fixing and finishing in cement mortar 1:3 (1 cement :3 fine sand) etc.complete excluding plastering of the jambs,sills and soffits.50 MM THICK	4	SQM	359.20	1436.80

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ACCEPTING OFFICER

BHARAT HEAVY ELECTRICALS LIMITED

BOILER AUXILIARIES PLANT

RANIPET - 632406

ESTIMATE**NAME OF WORK : MAINTENANCE WORKS IN ADMINISTRATIVE BLDG TOILETS IN FACTORY.(PART -2)**

CPWD 2007 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
14.42.2	27	WHITE WASHING WITH LIME TO GIVE AN EVEN SHADE ONE COAT ON OLD WORK	800	SQM	2.55		2040.00	
14.42.1	28	WHITE WASHING WITH LIME TO GIVE AN EVEN SHADE TWO COATS ON OLD WORK	200	SQM	4.10		820.00	
13.37.1	29	WHITE WASHING THREE COATS ON NEWLY PLASTERED SURFACE AND IN CEILING USING BEST SHELL LIME TO GIVE AN EVEN SHADE INCLUDING CLEANING AND BRUSHES OF WALLS AND PREPARING SURFACE IN ACCORDANCE WITH STANDARD SPECIFICATIONS. RATE TO INCLUDE COST OF MATERIALS, LABOURS ETC.,	675	SQM	6.75		4556.25	
13.61.1	30	PAINTING WITH READY MIXED SYNTHETIC ENAMEL PAINT OF APPROVED BRAND AND MANUFACTURE IN ALL SHADES TO GIVE AN EVEN SHADE FOR NEW STEEL WORK WITH TWO COATS.	40	SQM	33.25		1330.00	
14.67.1	31	FINISHING WALLS WITH PREMIUM ACRYLIC SMOOTH EXTERIOR PAINT WITH SILICONE ADDITIVES OF REQUIRED SHADE - FOR OLD WORK (TWO OR MORE COATS APPLIED @1.43 LTR / 10 SQM) OVER EXISTING CEMENT PAINT SURFACE.	935	SQM	46.60		43571.00	
1.1.1	32	CONVEYANCE OF SURPLUS EARTH/DISMANTLED MATERIALS LIKE BRICK WORK, PCC, RCC, ETC., BEYOND INITIAL LEAD AND UPTO A LEAD OF 2 KMS INCLUDING LOADING, LEADING, UNLOADING, SPREADING, LEVELLING AND CONSOLIDATING IF REQUIRED ETC., COMPLETE ALL AS PER STANDARD SPECIFICATION & INSTRUCTIONS OF ENGINEER-IN-CHARGE.	50	CUM	39.53		1976.50	
17.71	33	PROVIDING AND FIXING PTMT LIQUID SOAP CONTAINER 109MM WIDE, 125MM HIGH AND 112MM DISTANCE FROM WALL OF STANDARD SHAPE WITH BRACKET OF THE SAME MATERIALS WITH SNAP FITTINGS OF APPROVED QUALITY COLOUR AND MAKE, WEIGHING NOT LESS THAN 105 GMS.	5	EACH	164.65		823.25	

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BOILER AUXILIARIES PLANT

RANIPET - 632406

ESTIMATE**NAME OF WORK : MAINTENANCE WORKS IN ADMINISTRATIVE BLDG TOILETS IN FACTORY.(PART -2)**

CPWD 2007 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
17.33	34	PROVIDING AND FIXING 600 X 120 X 5MM GLASS SHELF WITH EDGES ROUND OF SUPPORTED ON ANODISED ALUMINIUM ANGLE FRAME WITH CP BRASS BRACKETS AND GUARD RAIL COMPLETE FIXED WITH 40MM LONG SCREWS, RAWL PLUGS, ETC COMPLETE.	5	EACH	218.80		1094.00	
19.4.1.1	35	PROVIDING AND FIXING SQUARE MOUTH SW GULLY TRAP GRADE 'A' COMPLETE WITH CI GRATING BRICK MASONRY CHAMBER WITH WATER TIGHT CI COVER WITH FRAME OF 300 X 300 MM SIZE (INSIDE) THE WEIGHT OF COVER TO BE NOT LESS THAN 4.50 KG AND FRAME TO BE NOT LESS THAN 2.70 KG AS PER STANDARD DESIGN - FOR 100 X 100 MM SIZE P TYPE	10	EACH	795.29		7952.90	
17.7.1	36	PROVIDING AND FIXING WASH BASIN WITH CI / MS BRACKETS, 15MM CP BRASS PILLAR TAPS, 32MM CP BRASS WASTE OF STANDARD PATTERN, INCLUDING PAINTING OF FITTINGS AND BRACKETS, CUTTING AND MAKING GOOD THE WALLS WHEREVER REQUIRE - FOR WASH BASIN SIZE 630 X 450MM WITH A SINGLE 15MM CP BRASS PILLAR TAP.	23	EACH	1332.90		30656.70	
18.22.1	37	PROVIDING AND FIXING CP BRASS SHOWER ROSE WITH 15 OR 20MM INLET - FOR 100MM DIA	5	EACH	40.40		202.00	
9.118.1	38	Providing and fixing to existing door frames 24 mm thick factory made PVC door shutters made of styles and rails of a UPVC hollow section of size 59x24 mm and wall thickness 2 mm + 0.2 mm with inbuilt edging on both sides. The styles and rails mitred and joined at the corners by means of M.S. galvanised/plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm + 0.1 mm wall thickness.						.00

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BOILER AUXILIARIES PLANT

RANIPET - 632406

ESTIMATE**NAME OF WORK : MAINTENANCE WORKS IN ADMINISTRATIVE BLDG TOILETS IN FACTORY.(PART -2)**

CPWD 2007 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
9.118.1	38A	The lock rail made up of 'H' section, a UPVC hollow section of size 100x24 mm and 2 mm + 0.2 mm wall thickness fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a UPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm + 0.1 mm wall thickness . The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge.	58	SQM	2190.50		127049.00	
9.117.2	38B	Providing and fixing factory made UPVC door frame made of UPVC extruded section having overall dimension of 42x50 mm (tolerance +_ 1 mm) with wall thickness 2.0 mm +_ 0.2 mm, corners of the door frame to be mitred and joined by means of plastic/M.S. galvanised brackets and stainless steel screws. The hinge side vertical of the frames reinforced by galvanised M.S. tube of size 19x19 mm and 1 mm +_ 0.1 mm wall thickness and 3 Nos. stainless steel hinges fixed to the frame complete as per manufacturers specification and direction of Engineer-in-charge.	100	RM	146.80		14680.00	
LOCAL RATE	39	SUPPLYING AND FIXING OF PVC NAHANI TRAP 100X50MM	5	EACH	50.00		250.00	
17.69.2	40	SUPPLYING AND FIXING OF CP WASTE COUPLING	30	EACH	100.20		3006.00	
LOCAL RATE	41	SUPPLYING AND FIXING OF CP 100 MM DIA GRATING.	30	EACH	50.00		1500.00	
11.38	42A	PROVIDING AND LAYING CERAMIC GLAZED FLOOR TILES 300 X 300 MM (THICKNESS TO BE SPECIFIED BY THE MANUFACTURER) OF FIRST QUALITY CONFORMING TO IS 15622 OF APPROVED MAKE IN ALL COLOURS AND SHADES , AS APPROVED BY ENGINEER-IN-	10	SQM	566.46		5664.60	

CONTRACTOR/ TENDERER

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BHARAT HEAVY ELECTRICALS LIMITED

BOILER AUXILIARIES PLANT

RANIPET - 632406

ESTIMATE**NAME OF WORK : MAINTENANCE WORKS IN ADMINISTRATIVE BLDG TOILETS IN FACTORY.(PART -2)**

CPWD 2007 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
		CHARGE LAID ON 20MM THICK CM 1:4 (1 CEMENT : 4 COARSE SAND) INCLUDING POINTING THE JOINTS WITH WHITE CEMENT AND MATCHING PIGMENT ETC. COMPLETE.						
11.38	42B	Same as above but glazed tile will be supplied at free of cost at dept stores.	120	SQM	167.40		20088.00	
11.36	43A	PROVIDING AND FIXING FIRST QUALITY CERAMIC GLAZED WALL TILES CONFORMING TO IS 15622 (THICKNESS TO BE SPECIFIED BY THE MANUFACTURE) OF APPROVED MAKE IN ALL COLOURS AND SHADES AS APPROVED BY ENGINEER-IN-CHARGE IN SKIRTING, RISERS OF STEPS AND DADOS OVER 12MM THICK BED OF CM 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.	220	SQM	492.26		108297.20	
11.36	43B	Same as above but glazed tile will be supplied at free of cost at dept stores.	90	SQM	184.05		16564.50	
AGT25/07-08	44A	PROVIDING AND FIXING WHITE VITREOUS CHINA FLAT BACK LIPPED FRONT URINAL OF SIZE 430X260X350 MM WITH ELECTRONIC FLUSHING SYSTEM OPERATED IN D.C. CURRENT WITH STANDARD FLUSH PIPE AND C.P BRASS SPREADERS WITH BRASS UNIONS AND G.I CLAMPS COMPLETE , INCLUDING PAINTING OF FITTINGS AND BRACKETS, CUTTING AND MAKING GOOD THE WALLS WHEREVER REQUIRE POWER POINT WILL BE PROVIDED BY BHEL FREE OF COST AT REQUIRED LEVEL.	4	EACH	11969.10		47876.40	
AGT25/07-08	44B	Same as above but intergrated EFS A/C Urinal system will be supplied at free of cost at dept stores.	28	EACH	595.10		16662.80	
13.68.1	45	French spirit polishing : TWO or more coats on new works including a coat of wood filler.	90	SQM	75.60		6804.00	
19.1.1	46	Providing, laying and jointing glazed stoneware pipes grade `A₂ with stiff	90	RM	94.66		8519.40	

CONTRACTOR/ TENDERER

ACCEPTING OFFICER

BHARAT HEAVY ELECTRICALS LIMITED

BOILER AUXILIARIES PLANT

RANIPET - 632406

ESTIMATE**NAME OF WORK : MAINTENANCE WORKS IN ADMINISTRATIVE BLDG TOILETS IN FACTORY.(PART -2)**

CPWD 2007 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE RS P	AMOUNT RS P
		mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete 100 mm diameter				

TOTAL ESTIMATED VALUE 778654.40

CONTRACTOR TENDER PERCENTAGE @ ABOVE / BELOW / AT PAR _____%

(Percentage in words)

TOTAL VALUE OF WORK

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CONTRACTOR/ TENDERER

ACCEPTING OFFICER