

TENDER DOCUMENT

TENDER SPECIFICATION No : **BAP:CF:OT:03/2015-16 Dt: 28/05/2015**

NAME OF WORK:

**“CIVIL MAINTENANCE CONTRACT WORKS IN  
FACTORY FOR ONE YEAR (2015-16 AND 2016-17).”**

PERIOD OF CONTRACT:

**ONE YEAR**

**PART – II – PRICE BID**

( Pages **42** including cover page )



CIVIL PROJECTS & SERVICES  
**BHARAT HEAVY ELECTRICALS LIMITED**  
( A Government of India Undertaking )  
BOILER AUXILIARIES PLANT  
INDIRA GANDHI INDUSTRIAL COMPLEX  
**RANIPET – 632 406**

TENDERER

ACCEPTING OFFICER

**BHARAT HEAVY ELECTRICALS LIMITED**

BOILER AUXILIARIES PLANT

RANIPET - 632406

**PRICE BID**

ESTIMATE REF NO : CF/RB/15/03

NAME OF WORK : CIVIL MAINTENANCE CONTRACT WORKS IN FACTORY FOR ONE YEAR (2015-16 &amp; 2016-17)PART-I

CPWD 2013 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE RS P	AMOUNT RS P
2.27	001 #	Supplying and filling in plinth with Jamuna sand under floors, including watering, ramming, consolidating and dressing complete.	40.000	cum	843.65	33746.00
2.34	002	Supplying chemical emulsion in sealed containers including delivery as specified.				
2.34.1	002A #	Chlorpyriphos/ Lindane emulsifiable concentrate of 20%	5.000	litre	185.95	929.75
4.1	003	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
4.1.3	003A #	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	35.000	cum	2992.10	104723.50
4.1.8	003B #	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	110.000	cum	2895.55	318510.50
4.2	004	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor, etc., up to floor five level, excluding the cost of centering, shuttering and finishing :				
4.2.2	004A #	1:1½:3 (1 cement:1½ coarse sand:3 graded stone aggregate 20 mm nominal size)	5.000	cum	3806.20	19031.00
4.2.3	004B #	1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	20.000	cum	3892.55	77851.00
4.5	005	Providing and fixing up to floor five level precast cement concrete string or lacing courses, copings, bed plates, anchor blocks, plain window sills, shelves, louvers, steps, stair cases, etc., including hoisting and setting in position with cement mortar 1:3 (1 Cement : 3 coarse sand), cost of required centering complete.				

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					RS	P	RS	P
4.5.1	005A #	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	2.000	cum	3622.65		7245.30	
4.10.	006 #	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).	5.000	sqm	142.21		711.05	
4.12	007 #	Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturers specification.	5.000	Per bag of		44.36		

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CPWD 2013 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
						221.80		
5.1	008	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 :						
5.1.1	008A #	1:1:2 (1 cement : 1 coarse sand : 2 graded stone aggregate 20 mm nominal size)	1.000	cum		3187.35		3187.35
5.1.2	008B #	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	1.000	cum		3140.25		3140.25
5.2	009	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement :						
5.2.3	009A #	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	65.000	cum		3993.55		259580.75
5.8	10 #	Reinforced cement concrete work in vertical and horizontal fins individually or forming box louvers, facias and eaves boards up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20 mm nominal size).	1.000	cum		3561.75		3561.75
5.9	11	Centering and shuttering including strutting, propping etc. and removal of form for :						
5.9.1	11A #	Foundations, footings, bases of columns, etc. for mass concrete	125.000	sqm		186.40		23300.00
5.9.2	11B #	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	10.000	sqm		334.50		3345.00
5.9.3	11C #	Suspended floors, roofs, landings, balconies and access platform	45.000	sqm		371.80		16731.00

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					RS	P	RS	P
5.9.5	11D #	Lintels, beams, plinth beams, girders, bressumers and cantilevers	10.000	sqm	309.80		3098.00	
5.9.6	11E #	Columns, Pillars, Piers, Abutments, Posts and Struts	75.000	sqm	423.00		31725.00	
5.9.13	11F #	Vertical and horizontal fins individually or forming box louvers band, facias and eaves boards	10.000	sqm	551.45		5514.50	
5.9.19	11G #	Weather shade, Chajjas, corbels etc., including edges	10.000	sqm	468.20		4682.00	
5.22	12	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.						
5.22.3	12A #	Cold twisted bars	4100.000	kilogram	14.75			

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					RS	P	RS	P
						60475.00		
5.34	13	Extra for providing richer mixes at all floor levels. Note:- Excess/less cement over the specified cement content used is payable /recoverable separately.						
5.34.1	13A #	Providing M-30 grade concrete instead of M-25 grade BMC/ RMC. (Note:- Cement content considered in M-30 is @ 340 kg/cum)	20.000	cum		3.85		77.00
6.1	14	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:						
6.1.2	14A #	Cement mortar 1:6 (1 cement : 6 coarse sand)	20.000	cum		4269.63		85392.50
6.4	15	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 :						
6.4.2	15A #	Cement mortar 1:6 (1 cement : 6 coarse sand)	50.000	cum		4948.23		247411.25
6.13	16	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.						
6.12.2	16A #	cement mortar 1:4 (1 cement : 4 coarse sand)	5.000	sqm		510.54		2552.70
6.13	17	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.						
6.13.2	17A #	Cement mortar 1:4 (1 cement :4 coarse sand)	35.000	sqm		583.74		20430.93
7.1	18	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) upto plinth level with :						
7.1.1	18A #	Cement mortar 1:6 (1 cement : 6 coarse sand)	20.000	cum		2913.03		58260.50

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					RS	P	RS	P
8.2	19	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, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.						
8.2.2	19A	Granite of any colour and shade						
8.2.2.2	19AA #	Area of slab over 0.50 sqm	10.000	sqm	3714.71			37147.06
8.3	20	Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.						
8.3.2	20A #	Granite work	10.000	metre	210.65			
8.9	21	Stone tile (polished) work for wall lining over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and cement slurry @ 3.3 kg/sqm including pointing in white cement complete.						
8.9.1	21A	8mm thick						
8.9.1.2	21AA #	Granite of any colour and shade	20.000	sqm	1753.95			35078.94
9.83	22 #	Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete.	2.000	each	737.35			1474.70

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CPWD 2013 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
9.84	23 #	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete.	2.000	each	1027.20		2054.40	
9.101	24	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete.						
9.101.1	24A #	Single rubber stopper	40.000	each	33.75		1350.00	
9.101.2	24B #	Twin rubber stopper	60.000	each	80.20		4812.00	
9.103	25 #	Providing and fixing bright finished brass 100 mm mortice latch and lock, ISI marked, with six levers and a pair of anodised (anodic coating not less than grade AC 10 as per IS : 1868) aluminium lever handles of approved quality with necessary screws etc. complete.	5.000	each	754.45		3772.25	
9.117	26	Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance $\pm 1$ mm), with wall thickness 2.0 mm ( $\pm 0.2$ mm), corners of the door frame to be Jointed with galvanized brackets and stainless steel screws, joints mitred and Plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 X 19 mm and 1mm ( $\pm 0.1$ mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineer- in-charge						
9.117.2	26A #	Extruded section profile size 42x50 mm	40.000	metre	187.95		7518.00	

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					RS	P	RS	P
9.118	27	Providing and fixing to existing door frames.						
9.118.2	27A #	30 mm thick factory made Polyvinyl Chloride (PVC) door shutter made of styles and rails of a uPVC hollow section of size 60x30 mm and wall thickness 2 mm ( $\pm$ 0.2 mm), with inbuilt decorative moulding edging on one side. The styles and rails mitred and joint 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 25x20 mm and 1 mm ( $\pm$ 0.1 mm) wall thickness. The lock rail made up of H section, a uPVC hollow section of size 100x30 mm and 2 mm ( $\pm$ 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 ( $\pm$ 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 manufacturers specification and direction of Engineer-in-charge.	25.000	sqm	2761.85		69046.25	
9.119	28 #	Providing and fixing factory made P.V.C. door frame of size 50x47 mm with a wall thickness of 5 mm, made out of extruded 5mm rigid PVC foam sheet, mitred at corners and joined with 2 Nos of 150 mm long brackets of 15x15 mm M.S. square tube, the vertical door frame profiles to be reinforced with 19x19 mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100 mm size, complete as per	10.000	metre	433.10		4331.00	

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CPWD 2013 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
		manufacturer's specification and direction of Engineer- in-Charge.						
9.147	29	Providing and Fixing factory made uPVC white colour casement/sliding window / door, made of extruded profiles. Profiles of frames and sash will be mitered cut and fusion welded at all corners, including drilling of holes for fixing hardware and drainage of water etc., making arrangement for fixing of hardware, EPDM gasket, 1.2 ± 0.2 mm thick galvanised steel profile to be inserted in required profile, frame will be fixed to the wall with 8 mm x 100 mm long fasteners, all complete as per direction of Engineer-in-charge. (Glazing, hardware hinges and fitting etc. to be paid separately.) Note :- Each member of window to be measured separately with clear length.						
9.147.2	29A	Casement Window (With friction hinge AND outward opening)						
9.147.2.1	29AA #	Casement Frame (67 mm x 62 mm)	10.000	metre	457.35		4570.35	
9.147.2.2	29AB #	Casement Window Sash / Mullion (67 mm x 75 mm ) (style, rail and intermediate section)	10.000	metre	493.90		4939.00	
9.147.2.3	29AC #	Casement Glazing bead (35 mm x 18 mm)	10.000	metre	166.00		1660.00	
9.148	30	Providing and fixing stainless steel (SS-304 grade) friction hinges to the side/ top hung uPVC windows, of approved quality, with necessary stainless steel screws etc. as per direction of Engineer-in-charge.						
9.148.5	30A #	400 x 19 x 1.9 mm	10.000	each	628.20		6282.00	
9.149	31 #	Providing and fixing casement handle made of zinc alloyed (white powder coated) for uPVC casement window with necessary screws etc. complete.	10.000	each	192.80		1928.00	
10.28	32 #	Providing and fixing stainless steel ( Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing,	20.000	kg	611.10		12222.00	

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CPWD 2013 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
		polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories AND stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, ( for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).						
10.30.	33	Providing AND fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with :						
10.30.1	33A #	4.0 mm thick glass panes	35.000	sqm	727.70		25469.50	
10.30.2	33B #	5.5 mm thick glass panes	10.000	sqm	944.90		9449.00	
11.3	34	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.						
11.3.1	34A #	40 mm thick with 20 mm nominal size stone aggregate	700.000	sqm	214.29		150003.00	
11.36	35 #	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	50.000	sqm	718.71		35935.37	

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CPWD 2013 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
		complete.						
11.37	36 #	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.	50.000	sqm	747.21		37360.37	
11.41	37	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.						
11.41.2	37A #	Size of Tile 600x600 mm	80.000	sqm	1327.66		106212.59	
11.49	38	Providing and laying Vitrified tiles in floor with different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS:15622 , of approved brand AND manufacturer, in all colours and shade, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS : 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).						
11.49.2	38A #	Size of Tile 600x600 mm	20.000	sqm	1539.85		30797.00	
12.20.	39 #	Providing and laying pressed clay tiles (as per approved pattern 20 mm nominal thickness of approved size) on roofs jointed with cement mortar 1:4 (1 cement : 4 coarse sand) mixed with	400.000	sqm	399.58		159832.96	

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					RS	P	RS	P
		2% integral water proofing compound, laid over a bed of 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) and finished neat complete.						
CPWD	40 #	PROVIDING AND LAYING ON TERRACE UPTO FLOOR FIVE LEVEL LIME CONCRETE WITH GRADED BRICK AGGREGATE 25 MM NOMINAL SIZE AND 50 %MORTAR COMPRISING OF 1 LIME PUTTY:2 SURKHI	12.000	CUM	3451.00		41412.00	
12.41	41	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.						
12.41.1	41A #	75 mm diameter	50.000	metre	134.50		6725.00	
12.41.2	41B #	110 mm diameter	50.000	metre	218.60		10930.00	
12.42	42	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.						
12.42.1	42A	Coupler						
12.42.1.1	42AA #	75 mm	15.000	each	100.55		1508.25	
12.42.1.2	42AB #	110 mm	10.000	each	133.55		1335.50	
12.42.3	42B	Single tee with door						
12.42.3.1	42BA #	75x75x75 mm	10.000	each	210.55		2105.50	
12.42.3.2	42BB #	110x110x110 mm	10.000	each	305.35		3053.50	
12.42.4	42C	Single tee without door						
12.42.4.1	42CA #	75x75x75 mm	5.000	each	187.35		936.75	
12.42.4.2	42CB #	110x110x110 mm	5.000	each	244.95		1224.75	

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					RS	P	RS	P
12.42.5	42D	Bend 87.5°						
12.42.5.1	42DA #	75 mm bend	10.000	each	107.50		1075.00	
12.42.5.2	42DB #	110 mm bend	10.000	each	160.25		1602.50	
12.42.6	42E	Shoe (Plain)						
12.42.6.1	42EA #	75 mm Shoe	5.000	each	166.75		833.75	
12.42.6.2	42EB #	110 mm Shoe	5.000	each	290.35		1451.75	
12.43	43	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.						
12.43.1	43A #	75 mm	60.000	each	156.30		9378.00	
12.43.2	43B #	110 mm	80.000	each	173.75		13900.00	
12.45	44	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts AND bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom						

CONTRACTOR/ TENDERER

ACCEPTING OFFICER



# BHARAT HEAVY ELECTRICALS LIMITED

BOILER AUXILIARIES PLANT

RANIPET - 632406

## PRICE BID

ESTIMATE REF NO : CF/RB/15/03

NAME OF WORK : CIVIL MAINTENANCE CONTRACT WORKS IN FACTORY FOR ONE YEAR (2015-16 & 2016-17)PART-I

CPWD 2013 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
		wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G .I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes , finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturers specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting w						
12.45.3	44A #	12.5 mm thick tapered edge gypsum moisture resistant board	200.000	sqm	891.40		178280.00	
12.52	45	Providing and fixing tiled false ceiling of approved materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections ( galvanized @ 120 grams/ sqm, both side inclusive) consisting of main \T\ runner with suitably spaced joints to get required length						

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BOILER AUXILIARIES PLANT

RANIPET - 632406

## PRICE BID

ESTIMATE REF NO : CF/RB/15/03

NAME OF WORK : CIVIL MAINTENANCE CONTRACT WORKS IN FACTORY FOR ONE YEAR (2015-16 & 2016-17)PART-I

CPWD 2013 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
		and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross \T\ of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main \T\ at 600 mm center to center to form a grid of 1200x600 mm and secondary cross \T\ of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main \T\ runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge.						
12.52.3	45A #	12.5 mm thick square edge PVC Laminated Gypsum Tile of size 595x595 mm, made of Gypsum plasterboard, manufactured from natural gypsum as per IS 2095 part I and laminated with white 0.16mm thick fire retardant PVC film on the face side and 12micron metalized polyester on the back side with all edges sealed with the face side PVC film which goes around and wraps the edges and is bonded to the edges and the back side metalized polyester film so as to make the tile a completely sealed unit.	100.000	sqm	1103.00		110300.00	

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## BHARAT HEAVY ELECTRICALS LIMITED

BOILER AUXILIARIES PLANT

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### PRICE BID

ESTIMATE REF NO : CF/RB/15/03

NAME OF WORK : CIVIL MAINTENANCE CONTRACT WORKS IN FACTORY FOR ONE YEAR (2015-16 & 2016-17)PART-I

CPWD 2013 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE RS P	AMOUNT RS P
13.1	46	12 mm cement plaster of mix :				
13.1.2	46A #	1:6 (1 cement: 6 fine sand)	500.000	sqm	112.14	56071.00
13.2	47	15 mm cement plaster on the rough side of single or half brick wall of mix :				
13.2.2	47A #	1:6 (1 cement: 6 fine sand)	75.000	sqm	128.77	9657.83
13.3	48	20 mm cement plaster of mix :				
13.3.2	48A #	1:6 (1 cement: 6 fine sand)	10.000	sqm	150.93	1509.32
13.16	49	6 mm cement plaster of mix :				
13.16.1	49A #	1:3 (1 cement : 3 fine sand)	50.000	sqm	98.22	4911.00
14.5	50	Renewing glass panes, with putty and nails wherever necessary including racking out the old putty:				
14.5.1	50A #	Float glass panes of thickness 4 mm	30.000	sqm	651.40	19542.00
14.5.2	50B #	Float glass panes of thickness 5.5 mm	10.000	sqm	868.60	8686.00
14.9	51 #	Renewal of old putty of glass panes (length)	50.000	metre	21.20	1060.00
16.68	52 #	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design AND shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge.	100.000	sqm	557.45	55745.00
DATA	53 #	SAME AS ABOVE BUT FOR 80 MM THICK PAVER BLOCK	300.000	SQM	662.50	198750.00
16.79	54 #	Providing, laying, spreading and compacting graded stone aggregate (size range 53 mm to 0.075 mm ) to wet mix macadam (WMM) specification including premixing the material with water at OMC in mechanical mix plant, carriage of mixed material by tipper	50.000	cum.	2074.25	103712.50

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# BHARAT HEAVY ELECTRICALS LIMITED

BOILER AUXILIARIES PLANT

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NAME OF WORK : CIVIL MAINTENANCE CONTRACT WORKS IN FACTORY FOR ONE YEAR (2015-16 & 2016-17)PART-I

CPWD 2013 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
		to site, for all leads AND lifts, laying in uniform layers with mechanical paver finisher in sub- base / base course on well prepared surface and compacting with vibratory roller of 8 to 10 tonne capacity to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge.						
17.28	55	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.						
17.28.2	55A	Flexible pipe						
17.28.2.1	55AA #	32 mm dia	10.000	each	72.55			725.00
17.28.2.2	55AB #	40 mm dia	10.000	each	74.90			749.00
17.31	56 #	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.	5.000	each	762.55			3812.75
19.1	57	Extra depth for circular type manhole 0.91m internal dia (at bottom) beyond 0.91 m to 1.67 m						
19.1.2	57A #	150 mm diameter	120.000	metre	282.42			33890.77
19.1.3	57B #	200 mm diameter	10.000	metre	421.14			4211.40
19.6	58	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :						
19.6.5	58A #	450 mm dia. R.C.C. pipe	20.000	metre	674.43			13488.56
19.6.7	58B #	600 mm dia. R.C.C. pipe	20.000	metre	1339.35			26787.08
21.1	59	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						

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# BHARAT HEAVY ELECTRICALS LIMITED

BOILER AUXILIARIES PLANT

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## PRICE BID

ESTIMATE REF NO : CF/RB/15/03

NAME OF WORK : CIVIL MAINTENANCE CONTRACT WORKS IN FACTORY FOR ONE YEAR (2015-16 &amp; 2016-17)PART-I

CPWD 2013 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
		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) :						
21.1.1	59A	For fixed portion						
21.1.1.1	59AA #	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	200.000	kg	343.70		68740.00	
21.1.2	59B	For shutters of doors, windows AND ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)						
21.1.2.1	59BA #	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	120.000	kg	397.75		47730.00	
21.2	60	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade 1 Type 11, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P . brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge.						

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ESTIMATE REF NO : CF/RB/15/03

NAME OF WORK : CIVIL MAINTENANCE CONTRACT WORKS IN FACTORY FOR ONE YEAR (2015-16 &amp; 2016-17)PART-I

CPWD 2013 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
21.2.2	60A #	Pre-laminated particle board with decorative lamination on both sides	50.000	sqm	1066.00		53300.00	
21.3	61	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):						
21.3.1	61A #	With float glass panes of 4.0 mm thickness	35.000	sqm	790.00		27650.00	
21.3.2	61B #	With float glass panes of 5.50 mm thickness	15.000	sqm	1009.00		15135.00	
21.4	62	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 kg, for doors, including cost of cutting floors, embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge.						
21.4.1	62A #	With stainless steel cover plate minimum 1.25 mm thickness	2.000	each	2020.05		4040.10	
21.13	63 #	Providing and fixing 100mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	2.000	each	386.80		773.60	
21.17	64 #	Providing and fixing anodised aluminium grill (anodised transparent or dyed to required shade according to IS: 1868 with minimum anodic coating of grade AC 15) of approved design/pattern, with approved standard section and fixed to the existing window frame with C.P. brass/ stainless steel screws @ 200 mm centre to centre, including cutting the grill to proper opening size for fixing and	30.000	kg	398.45		11953.50	

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BOILER AUXILIARIES PLANT

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## PRICE BID

ESTIMATE REF NO : CF/RB/15/03

NAME OF WORK : CIVIL MAINTENANCE CONTRACT WORKS IN FACTORY FOR ONE YEAR (2015-16 &amp; 2016-17)PART-I

CPWD 2013 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
		operation of handles and fixing approved anodised aluminium standard section around the opening, all complete as per requirement and direction of Engineer-in-charge. (Only weight of grill to be measured for payment).						
23.25	65 #	Supplying and stacking of well decayed cow dung manure at site including royalty and carriage upto 1 km (Cow dung manure measured in stacks will reduced by 8% for Payment).	50.000	cum	190.40		9520.00	
97160651225	66 #	Supplying & fixing of Vista Jaquard brand or Equivalent approved brand vertical blinds 100 mm in approved colour & shade as approved by the Engineer-in-charge. Rate to include cost of all materials for Supply & Fixing of vertical blinds for the existing window openings	20.000	SQM	1213.00		24260.00	
97162801327	67 #	Supplying & fixing of Gareware brand or Equivalent approved brand SUN CONTROL FILM premium grade with solar energy rejection about 78% & glare reduction about 82 % in approved colour & shade as approved by the Engineer-in-charge. Rate to include cost of all materials for Supply & Fixing of sun control film for the Windows/ Doors.	100.000	SQM	420.00		42000.00	
15.60.	68 #	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	10.000	cum	123.85		1238.50	
1.1	69	By Mechanical Transport including loading ,unloading and stacking						
1.1.1	69A	Lime, moorum, building rubbish						
1.1.1.a	69AA #	Upto 1 km	100.000	cum	81.02		8102.00	

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BOILER AUXILIARIES PLANT

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NAME OF WORK : CIVIL MAINTENANCE CONTRACT WORKS IN FACTORY FOR ONE YEAR (2015-16 &amp; 2016-17)PART-I

CPWD 2013 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
1.1.1.b	69AB #	Upto 2 km	100.000	cum	91.79		9179.00	
10.19	70 #	Providing and fixing mild steel round holding down bolts with nuts and washer plates complete.	300.000	kg	71.85		21555.00	
5.33	71	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. (Note :- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/recoverable separately).						
5.33.1	71A #	All works upto plinth level	20.000	cum	3714.55		74291.00	
5.33.2	71B #	All works above plinth level upto floor V level	10.000	cum	4363.10		43631.00	
97160651434	72 #	Grouting the H.D Bolts, underneath the base plates etc., after alignment with non-shrink high strength cementitious grout of such as Tec. Grout 20/40 (or) Pidigrout 5M/10M (or) Flogrout 40/60 (or) Conbextra GP1/GP2 (or) Skrinkomp 30 (or) any other equivalent grout, all as per instructions of Engineer-In-Charge and as per standard specifications. Rate includes cost of Non-Shrink grout, cleaning the sleeves/Pockets, tools, labour etc.,Complete	1.000	CUM	48000.00		48000.00	

# Escalation is not applicable for this Item Sl. No.

CONTRACTOR/ TENDERER

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# BHARAT HEAVY ELECTRICALS LIMITED

BOILER AUXILIARIES PLANT

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NAME OF WORK : CIVIL MAINTENANCE CONTRACT WORKS IN FACTORY FOR ONE YEAR (2015-16 & 2016-17)PART-I

		TOTAL ESTIMATED VALUE BEFORE ESCALATION	3589141.28
		**ESCALATION @	%
			0.00
		TOTAL ESTIMATED VALUE (A)	3589141.28
CONTRACTOR TENDER PERCENTAGE @	ABOVE	<input type="checkbox"/> 1	
	BELOW	<input type="checkbox"/> 2	
	AT PAR	<input type="checkbox"/> 3	_____ % (B) <input type="text"/>
(Percentage in words			)
	SUB TOTAL	<input type="checkbox"/> 4 if above (A) + (B)	(C) <input type="text"/>
		<input type="checkbox"/> 5 if below (A) - (B)	(C) <input type="text"/>
		<input type="checkbox"/> 6 if at par (A)	(C) <input type="text"/>
		<input type="checkbox"/> 7 *SERVICE TAX @ _____ %	(D) <input type="text"/>
SERVICE HEAD :	_____		
	<input type="checkbox"/> 8 TOTAL VALUE OF WORK	[ (C) + (D) ]	(E) <input type="text"/>
	(Rupees in words		)

### NOTE :

- 1) Tick whichever is applicable. In case of omission in Ticking, figures indicated in the amount column will be considered.
- 2) Boxes 1,2,3 any one box is to be ticked as per quote. Boxes 4,5,6 any one box is to be filled in with appropriate figures. Box 8 value is equal to Box 4 or 5 or 6 plus box 7.
- 3) Free Issue of Material by BHEL is Rs. **810616.92 /-**
- \*\*4) Escalation not included for item sl no. marked with # symbol.

CONTRACTOR/ TENDERER

ACCEPTING OFFICER



**BHARAT HEAVY ELECTRICALS LIMITED**

BOILER AUXILIARIES PLANT

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**PRICE BID**

ESTIMATE REF NO : CF/RB/15/03  
NAME OF WORK : CIVIL MAINTENANCE CONTRACT WORKS IN FACTORY FOR ONE YEAR (2015-16 & 2016-17)PART-I

**SPECIAL CONDITION**

CONTRACTOR/ TENDERER

ACCEPTING OFFICER



# BHARAT HEAVY ELECTRICALS LIMITED

BOILER AUXILIARIES PLANT

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## PRICE BID

ESTIMATE REF NO : CF/RB/15/004

NAME OF WORK : CIVIL MAINTENANCE CONTRACT WORKS IN FACTORY FOR ONE YEAR. PART-II

CPWD 2013 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE RS P	AMOUNT RS P
2.1	01	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including disposal of excavated earth upto 50 m and lift upto 1.5 m, disposed soil to be levelled and neatly dressed :				
2.1.1	01A	All kinds of soil	3.000	100 sqm	4553.55	

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BOILER AUXILIARIES PLANT

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## PRICE BID

ESTIMATE REF NO : CF/RB/15/004

NAME OF WORK : CIVIL MAINTENANCE CONTRACT WORKS IN FACTORY FOR ONE YEAR. PART-II

CPWD 2013 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
						13660.65		
2.6	02	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.						
2.6.1	02A	All kinds of soil	200.000	cum		146.50		29300.00
2.7	03	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30 cm in depth, 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50 m and lift upto 1.5 m, disposed earth to be levelled and neatly dressed.						
2.7.1	03A	Ordinary rock	10.000	cum		227.80		2278.00
2.7.2	03B	Hard rock (requiring blasting)	5.000	cum		393.60		1968.00
2.7.3	03C	Hard rock (blasting prohibited)	5.000	cum		571.90		2859.50
2.8	04	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.						
2.8.1	04A	All kinds of soil.	50.000	cum		148.25		7412.50
2.9	05	Excavation work by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains not exceeding 1.5m 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						

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BOILER AUXILIARIES PLANT

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ESTIMATE REF NO : CF/RB/15/004

NAME OF WORK : CIVIL MAINTENANCE CONTRACT WORKS IN FACTORY FOR ONE YEAR. PART-II

CPWD 2013 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
		soils as directed, within a lead of 50m.						
2.9.1	05A	Ordinary rock	3.000	cum	244.90		734.70	
2.9.2	05B	Hard rock (requiring blasting)	3.000	cum	427.75		1283.25	
2.9.3	05C	Hard rock (blasting prohibited)	3.000	cum	574.15		1722.45	
2.10	06	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :						
2.10.1	06A	All kinds of soil						
2.10.1.1	06AA	Pipes, cables etc, not exceeding 80 mm dia.	10.000	metre	118.00		1180.00	
2.10.1.2	06AB	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	20.000	metre	192.75		3855.00	
2.25	07	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.	50.000	cum	101.50		5075.00	
2.26	08	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials.						
2.26.1	08A	All kinds of soil	5.000	cum	41.75		208.75	
2.26.2	08B	Ordinary or hard rock	5.000	cum	74.90		374.50	
2.28	09	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.						

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## PRICE BID

ESTIMATE REF NO : CF/RB/15/004

NAME OF WORK : CIVIL MAINTENANCE CONTRACT WORKS IN FACTORY FOR ONE YEAR. PART-II

CPWD 2013 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE RS P	AMOUNT RS P
2.28.1	09A	All kinds of soil	5.000	100sqm	1124.60	5623.00
2.31	10	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth upto 30 cm measured at a height of 1m above ground level and removal of rubbish upto a distance of 50 m outside the periphery of the area cleared.	150.000	100sqm	579.55	86932.50
2.32	11	Clearing grass and removal of the rubbish upto a distance of 50 m outside the periphery of the area cleared.	200.000	100sqm	296.80	59360.00
2.33	12	Felling trees of the girth (measured at a height of 1 m above ground level) including cutting of trunks and branches removing the roots and stacking of serviceable material and disposal of unserviceable material.				
2.33.1	12A	Beyond 30 cm girth upto and including 60 cm girth	30.000	each	177.85	5335.50
2.33.2	12B	Beyond 60 cm girth upto and including 120 cm girth	30.000	each	786.95	23608.50
14.4	13	Making the opening in brick masonry including dismantling in floor or walls by cutting masonry and making good the damages to walls, flooring and jambs complete, to match existing surface i/c disposal of mulba/ rubbish to the nearest municipal dumping ground.				
14.4.1	13A	For door/ window/ clerestory window	10.000	sqm	447.40	4474.00
15.3	14	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.	20.000	cum	1176.40	23528.00
15.2	15	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.				
15.2.1	15A	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	10.000	cum	806.35	8063.50

CONTRACTOR/ TENDERER

ACCEPTING OFFICER



# BHARAT HEAVY ELECTRICALS LIMITED

BOILER AUXILIARIES PLANT

RANIPET - 632406

## PRICE BID

ESTIMATE REF NO : CF/RB/15/004

NAME OF WORK : CIVIL MAINTENANCE CONTRACT WORKS IN FACTORY FOR ONE YEAR. PART-II

CPWD 2013 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
15.2.2	15B	Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix)	5.000	cum	497.15		2485.75	
15.7	16	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.						
15.7.4	16A	In cement mortar	20.000	cum	681.00		13620.00	
15.9	17	Demolishing stone rubble masonry 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:						
15.9.2	17A	In cement mortar	15.000	cum	812.60		12189.00	
15.12	18	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead :						
15.12.1	18A	Of area 3 sq. metres and below	10.000	each	127.80		1278.00	
15.12.2	18B	Of area beyond 3 sq. metres	5.000	each	175.50		877.50	
15.26	19	Demolishing brick tile covering in terracing including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	10.000	sqm	36.95		369.50	
15.23	20	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.						
15.23.1	20A	For thickness of tiles 10 mm to 25 mm	40.000	sqm	25.55		1022.00	
15.23.2	20B	For thickness of tiles above 25 mm and up to 40 mm	5.000	sqm	39.75		198.75	
15.36	21	Dismantling barbed wire or flexible wire rope in fencing including making rolls and stacking within 50 metres lead.	100.000	kg	10.15		1015.00	
15.43	22	Dismantling manually/ by mechanical means including stacking of						

CONTRACTOR/ TENDERER

ACCEPTING OFFICER



# BHARAT HEAVY ELECTRICALS LIMITED

BOILER AUXILIARIES PLANT

RANIPET - 632406

## PRICE BID

ESTIMATE REF NO : CF/RB/15/004

NAME OF WORK : CIVIL MAINTENANCE CONTRACT WORKS IN FACTORY FOR ONE YEAR. PART-II

CPWD 2013 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE RS P	AMOUNT RS P
		serviceable material and disposal of unserviceable material within 50metres lead as per direction of Engineer-in-charge :				
15.43.1	22A	Water bound macadam road	70.000	sqm	73.90	5173.00
15.43.2	22B	bituminous road	70.000	sqm	143.90	10073.00
15.56	23	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.	5.000	sqm	18.15	90.75
15.57	24	Dismantling aluminium/ Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable surplus material and stacking of serviceable material with in 50 meters lead as directed by Engineer-in-charge.	50.000	sqm	19.80	990.00
15.60.	25	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	10.000	cum	123.85	1238.50
16.83	26	Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.	300.000	sqm	43.65	13095.00
16.84	27	Laying old cement concrete interlocking paver blocks of any design/ shape laid in required line, level, curvature, colour and pattern over and including 50 mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer- in-charge. (Old	200.000	sqm	179.95	35990.00

CONTRACTOR/ TENDERER

ACCEPTING OFFICER



# BHARAT HEAVY ELECTRICALS LIMITED

BOILER AUXILIARIES PLANT

RANIPET - 632406

## PRICE BID

ESTIMATE REF NO : CF/RB/15/004

NAME OF WORK : CIVIL MAINTENANCE CONTRACT WORKS IN FACTORY FOR ONE YEAR. PART-II

CPWD 2013 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
		CC paver blocks shall be supplied by the department free of cost).						
23.1	28	Trenching in ordinary soil up to a depth of 60 cm including removal and stacking of serviceable materials and then disposing of surplus soil, by spreading and neatly leveling within a lead of 50 m and making up the trenched area to proper levels by filling with earth or earth mixed with sludge or/and manure before and after flooding trench with water (excluding cost of imported earth, sludge or manure).	10.000	cum	37.10		371.00	
23.8	29	Spreading of sludge, dump manure and / or good earth in required thickness as per direction of Officer-in-charge (Cost of sludge, dump manure and / or good earth to be paid separately).	100.000	cum	25.15		2515.00	
23.9	30	Mixing earth and sludge or manure in the required proportion specified or directed by the Officer-in-charge..	100.000	cum	17.25		1725.00	
23.20.	31	Filling mixture of earth and sludge or manure in the desired proportion in trenches, flooding with water and leveling (cost of supplying earth and sludge or manure and mixing excluded).	100.000	cum	8.60		860.00	
14.9	32	Renewal of old putty of glass panes (length)	100.000	metre	21.20		2120.00	
15.40	33	Dismantling precast concrete or stone slabs in walls, partition walls etc. including stacking within 50 metres lead:						
15.40.1	33A	Thickness up to 40 mm	10.000	sqm	97.25		972.50	
15.40.2	33B	Thickness above 40 mm up to 75 mm	10.000	sqm	145.65		1456.50	
NOTE	34	The tender will be finalized based on over all L1 basis Inclusive of Service Tax for each section i.e., sum of part A, Part B & Part C inclusive of Service Tax						

# Escalation is not applicable for this Item Sl. No.

CONTRACTOR/ TENDERER

ACCEPTING OFFICER



# BHARAT HEAVY ELECTRICALS LIMITED

BOILER AUXILIARIES PLANT

RANIPET - 632406

## PRICE BID

ESTIMATE REF NO : CF/RB/15/004

NAME OF WORK : CIVIL MAINTENANCE CONTRACT WORKS IN FACTORY FOR ONE YEAR. PART-II

TOTAL ESTIMATED VALUE BEFORE ESCALATION		398563.05
**ESCALATION @ 0.00 %		0.00
TOTAL ESTIMATED VALUE (A)		398563.05
CONTRACTOR TENDER PERCENTAGE @	ABOVE <input type="checkbox"/> 1	
	BELOW <input type="checkbox"/> 2	
	AT PAR <input type="checkbox"/> 3	_____ % (B) <input type="text"/>
(Percentage in words	)	
SUB TOTAL	<input type="checkbox"/> 4 if above (A) + (B)	(C) <input type="text"/>
	<input type="checkbox"/> 5 if below (A) - (B)	(C) <input type="text"/>
	<input type="checkbox"/> 6 if at par (A)	(C) <input type="text"/>
	<input type="checkbox"/> 7 *SERVICE TAX @ _____ %	(D) <input type="text"/>
SERVICE HEAD :	_____	
<input type="checkbox"/> 8 TOTAL VALUE OF WORK	[ (C) + (D) ]	(E) <input type="text"/>
(Rupees in words	)	

### NOTE :

- 1) Tick whichever is applicable. In case of omission in Ticking, figures indicated in the amount column will be considered.
- 2) Boxes 1,2,3 any one box is to be ticked as per quote. Boxes 4,5,6 any one box is to be filled in with appropriate figures. Box 8 value is equal to Box 4 or 5 or 6 plus box 7.
- 3) Free Issue of Material by BHEL is Rs. **0.00** /-
- \*\*4) Escalation not included for item sl no. marked with # symbol.

CONTRACTOR/ TENDERER

ACCEPTING OFFICER



**BHARAT HEAVY ELECTRICALS LIMITED**

BOILER AUXILIARIES PLANT

RANIPET - 632406

**PRICE BID**

ESTIMATE REF NO : CF/RB/15/004

NAME OF WORK : CIVIL MAINTENANCE CONTRACT WORKS IN FACTORY FOR ONE YEAR. PART-II

**SPECIAL CONDITION**

CONTRACTOR/ TENDERER

ACCEPTING OFFICER



# BHARAT HEAVY ELECTRICALS LIMITED

BOILER AUXILIARIES PLANT

RANIPET - 632406

## PRICE BID

ESTIMATE REF NO : CF/RB/15/005

NAME OF WORK : CIVIL MAINTENANCE CONTRACT WORKS IN FACTORY FOR ONE YEAR  
(PART III)

CPWD 2013 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE RS P	AMOUNT RS P
	01	Carrying out miscellaneous type of works (viz. masonry, etc.) which are not quantifiable like chipping of floor, finishing the floor, touch up plastering work, dismantling of floor for making pockets for machine foundations, dismantling of brick work for enabling to fix exhaust fans, fixing of exhaust fans, dismantling of IWCS, EWCS, low level tanks, high level tanks, wash basins and sanitary items, fixing of wash basins which are not susceptible for detailed measurement, minimum labourers to be engaged is 1 - No of Mason & 1 No of USW through out the contract period.				
DATA	01A #	For Mason - 1 No	300.000	MANDAY	346.15	103845.00
DATA	01B #	For USW - 1 No	900.000	MANDAY	284.05	255645.00
DATA	01C #	Carrying of Maintenance and repair works in Carpentry works, Aluminium works, Vertical blind works, Venetian blind works and other like miscellaneous works in civil factory which are not susceptible for detailed measurement etc., Minimum Labourers to be engaged is Carpenter Class-I - 1 No through out the contract period.	300.000	MANDAY	346.15	103845.00

# Escalation is not applicable for this Item Sl. No.

CONTRACTOR/ TENDERER

ACCEPTING OFFICER



# BHARAT HEAVY ELECTRICALS LIMITED

BOILER AUXILIARIES PLANT

RANIPET - 632406

## PRICE BID

ESTIMATE REF NO : CF/RB/15/005  
 NAME OF WORK : CIVIL MAINTENANCE CONTRACT WORKS IN FACTORY FOR ONE YEAR  
 (PART III)

TOTAL ESTIMATED VALUE BEFORE ESCALATION		463335.00
**ESCALATION @ 0.00 %		0.00
TOTAL ESTIMATED VALUE (A)		463335.00
CONTRACTOR TENDER PERCENTAGE @	ABOVE <input type="checkbox"/> 1	
	BELOW <input type="checkbox"/> 2	
	AT PAR <input type="checkbox"/> 3	_____ % (B) <input type="text"/>
(Percentage in words )		
SUB TOTAL	<input type="checkbox"/> 4 if above (A) + (B)	(C) <input type="text"/>
	<input type="checkbox"/> 5 if below (A) - (B)	(C) <input type="text"/>
	<input type="checkbox"/> 6 if at par (A)	(C) <input type="text"/>
	<input type="checkbox"/> 7 *SERVICE TAX @ _____ %	(D) <input type="text"/>
SERVICE HEAD :	_____	_____
<input type="checkbox"/> 8 TOTAL VALUE OF WORK	[ (C) + (D) ]	(E) <input type="text"/>
(Rupees in words )		

### NOTE :

- 1) Tick whichever is applicable. In case of omission in Ticking, figures indicated in the amount column will be considered.
- 2) Boxes 1,2,3 any one box is to be ticked as per quote. Boxes 4,5,6 any one box is to be filled in with appropriate figures. Box 8 value is equal to Box 4 or 5 or 6 plus box 7.
- 3) Free Issue of Material by BHEL is Rs. **0.00** /-
- \*\*4) Escalation not included for item sl no. marked with # symbol.

CONTRACTOR/ TENDERER

ACCEPTING OFFICER



**BHARAT HEAVY ELECTRICALS LIMITED**

BOILER AUXILIARIES PLANT

RANIPET - 632406

**PRICE BID**

ESTIMATE REF NO : CF/RB/15/005  
NAME OF WORK : CIVIL MAINTENANCE CONTRACT WORKS IN FACTORY FOR ONE YEAR  
(PART III)

**SPECIAL CONDITION**

CONTRACTOR/ TENDERER

ACCEPTING OFFICER



# BHARAT HEAVY ELECTRICALS LIMITED

BOILER AUXILIARIES PLANT

RANIPET - 632406

## PRICE BID

ESTIMATE REF NO : CF/RB/15/006

NAME OF WORK : CIVIL MAINTENANCE CONTRACT WORKS IN FACTORY FOR ONE YEAR  
(PART IV)

CPWD 2012 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE RS P	AMOUNT RS P
DATA	02 #	Hire and running charges for supply of JCB. Rate include cost of services of operating staff,all consumables,fuel and supply of lubricating oil etc.,.	300.000	PER HOUR	840.00	

CONTRACTOR/ TENDERER

ACCEPTING OFFICER



# BHARAT HEAVY ELECTRICALS LIMITED

BOILER AUXILIARIES PLANT

RANIPET - 632406

## PRICE BID

ESTIMATE REF NO : CF/RB/15/006

NAME OF WORK : CIVIL MAINTENANCE CONTRACT WORKS IN FACTORY FOR ONE YEAR  
(PART IV)

CPWD 2012 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE RS P	AMOUNT RS P
					210000.00	
DATA	03 #	Hire and running charges for supply of tipper of capacity 9.00 Cum. Rate to include cost of services of operating staff, all consumables, fuel and supply of lubricating oil etc.,.	300.000	PER HOUR	385.00	

CONTRACTOR/ TENDERER

ACCEPTING OFFICER



# BHARAT HEAVY ELECTRICALS LIMITED

BOILER AUXILIARIES PLANT

RANIPET - 632406

## PRICE BID

ESTIMATE REF NO : CF/RB/15/006

NAME OF WORK : CIVIL MAINTENANCE CONTRACT WORKS IN FACTORY FOR ONE YEAR  
(PART IV)

CPWD 2012 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE RS P	AMOUNT RS P
					96250.00	

# Escalation is not applicable for this Item Sl. No.

CONTRACTOR/ TENDERER

ACCEPTING OFFICER



# BHARAT HEAVY ELECTRICALS LIMITED

BOILER AUXILIARIES PLANT

RANIPET - 632406

## PRICE BID

ESTIMATE REF NO : CF/RB/15/006  
 NAME OF WORK : CIVIL MAINTENANCE CONTRACT WORKS IN FACTORY FOR ONE YEAR  
 (PART IV)

		TOTAL ESTIMATED VALUE BEFORE ESCALATION	306250.00
		**ESCALATION @ 5.00 %	0.00
		TOTAL ESTIMATED VALUE (A)	306250.00
CONTRACTOR TENDER PERCENTAGE @	ABOVE <input type="checkbox"/>	_____ %	(B) <input type="text"/>
	BELOW <input type="checkbox"/>		
	AT PAR <input type="checkbox"/>		
(Percentage in words			)
	<input type="checkbox"/> SUB TOTAL	if above (A) + (B)	(C) <input type="text"/>
	<input type="checkbox"/>	if below (A) - (B)	(C) <input type="text"/>
	<input type="checkbox"/>	if at par (A)	(C) <input type="text"/>
	<input type="checkbox"/>	*SERVICE TAX @ _____ %	(D) <input type="text"/>
SERVICE HEAD :	_____		
	<input type="checkbox"/>	TOTAL VALUE OF WORK [ (C) + (D) ]	(E) <input type="text"/>
(Rupees in words			)

### NOTE :

- 1) Tick whichever is applicable. In case of omission in Ticking, figures indicated in the amount column will be considered.
- 2) Boxes 1,2,3 any one box is to be ticked as per quote. Boxes 4,5,6 any one box is to be filled in with appropriate figures. Box 8 value is equal to Box 4 or 5 or 6 plus box 7.
- 3) Free Issue of Material by BHEL is Rs. **0.00** /-
- \*\*4) Escalation not included for item sl no. marked with # symbol.

CONTRACTOR/ TENDERER

ACCEPTING OFFICER



**BHARAT HEAVY ELECTRICALS LIMITED**

BOILER AUXILIARIES PLANT

RANIPET - 632406

**PRICE BID**

ESTIMATE REF NO : CF/RB/15/006

NAME OF WORK : CIVIL MAINTENANCE CONTRACT WORKS IN FACTORY FOR ONE YEAR  
(PART IV)

**SPECIAL CONDITION**

CONTRACTOR/ TENDERER

ACCEPTING OFFICER

### **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 2013. 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 rate 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 organization. The same offered percentage will be applicable with reference to CPWD DSR 2013.
5. Water will be supplied at one point on chargeable basis @ 1% of the contract value, Power will be provided at one terminal point @0.50% of the billed value plus applicable taxes, the contractor has to make their own arrangement for tapping the same with necessary tools & tackles and compressed air will be provided free of charges from the nearest tapping point subject to availability. The contractor should make necessary arrangement for tapping the same. In case BHEL is not able to provide the above facilities, contractor has to make his own arrangement for completion of the work at their own cost.
6. Safety precautions should be taken while doing the work. You will have to follow all safety requirements to carry out the work inside the factory premises.
7. All materials shall conform to the latest IS/IRC specifications
8. All the works to be carried out strictly as per the specifications laid down in Tamil Nadu Building practice and also satisfying relevant IS/IRC specifications.
9. Cement, Reinforcement steel & Structural steel will be issued free of cost for theoretical consumption and at a recovery rate of Rs. 6,030.00 / MT Rs. 51,750.00 / MT and Rs. 48,945.00 / MT respectively up to 5% over and above the theoretical consumption and beyond which penal recovery will be effected at the double the rates specified above.
10. 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.

11. 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.
12. All works shall be carried out as per standard specifications and instructions of Engineer-in-charge.
13. Base preparation, mixing ratio, etc. shall be as per the recommendations of the manufacturer.
14. 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.
15. The contractor has to ensure payment of minimum wages for different category; of workers as announced by Tamil Nadu State Government / BHEL from time to time.
16. Coefficient of consumption for paint, distemper, cement, etc. shall be as per CPWD 2013 data.
17. The contractor shall have to follow all statutory requirements like PF, ESI, etc., throughout the contract period.
18. The General conditions of contract in force shall apply to this contract.
19. The contractor is required to engage a Degree / Diploma holder Engineer throughout the contract period.
20. Time is essence of the contract. Any delay beyond the delivery date will be subjected to LD.
21. The tenderer may visit the site and assess the prevailing conditions before quoting the rate.

## **22. CONTRACT CONDITIONS ON TAXES & DUTIES**

- a) The Tenderer shall have been Registered under Excise, Sales Tax, Tamil Nadu VAT, Service Tax regulations if applicable and provide a copy of such registration to BHEL as part of the tender document. In case of fresh registration/amendment thereon, the same shall be carried out before start of the work. PAN no shall be submitted as part the tender document. (copy to be enclosed)

- b) Service Tax shall be paid by the service provider namely the Tenderer.
- c) Required Tax Invoice as per the existing provisions to be issued in required parts duly signed by the Competent/Authorized Official of the Contractor to BHEL
- d) If due to deficiency in the document submitted, BHEL could not avail CENVAT, VAT Credit, the credit amount will be recovered from the amount due to the Tenderer.
- e) If the payment of statutory dues are not made in accordance with the applicable provisions of the relevant Act within the time specified and Penalty, Interest etc paid/payable by the Contractor, the same shall not be reimbursed by BHEL and the entire implication is only to be borne by the Contractor. The Tenderer shall clearly indicate the rate of applicable taxes and duties for the work to be executed.
- f) The Tenderer shall indicate all exemptions on account of threshold limits or special notification under any statute. Any modification thereon shall also be intimated immediately on changes.
- g) The quote submitted shall include all taxes and duties of whatsoever in nature but exclusive of Service Tax which shall be quoted separately if applicable. The existing rate shall be quoted clearly. If reduced rates are applicable on account of material, labour if any the same shall be indicated clearly. After tender opening addition of any tax & duty is not admissible.
- h) If any composition scheme is to be availed by the Tenderer, the all relevant terms and conditions shall be indicated clearly in the offer. The required compliance under relevant statute shall be carried out.
- i) Any statutory variation will be to the account of BHEL. But if the variation is effective during the delayed/extended period of execution for reasons attributable to the vendor, the same shall be borne by the vendor only.