

BHARAT HEAVY ELECTRICALS LIMITED						
BOILER AUXILIARIES PLANT						
RANIPET - 632 406						
NAME OF WORK : Civil Works for Retrofit ESP, ESP, ID FAN & DUCT foundations, Flooring Below ESP, Control Room & Cable trench etc., in APGENCO RTS 'B' STATION, Ramagundam TPS 62.50 MW, A.P.						
CPWD 2007	SL. NO	DESCRIPTION OF WORK	QTY	UNIT	RATE	AMOUNT
15.2.1	1a	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 m lead as per direction of Engineer - in- charge. 1:3:6 or richer mix	30.00	CUM	405.30	12158.85
15.2.2	1b	1:4:8 or leaner mix	30.00	CUM	249.59	7487.70
15.3	2	Demolishing RCC work manually/ by mechanical means including stacking of steel bars and disposal disposal of unserviceable material within 50 m lead as per direction of Engineer - in- charge.	120.00	CUM	591.31	70956.60
15.7.4	3	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 m lead in cement mortar as per direction of Engineer - in-charge.	1.00	CUM	341.83	341.83
15.28.2	4	Dismantling roofing including ridges, hips valleys and gutters etc., and stacking the material within 50 metres lead of: Asbestos sheet	1.00	SQM	12.93	12.93
15.18	5	Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc., including dismembering and stacking within 50metres lead.	140.00	KG	0.94	130.90
15.9.2	6	Demolishing stone rubble masonry manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 m lead in cement mortar as per direction of Engineer - in-charge.	1.00	CUM	407.83	407.83
15.12.1	7a	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts, etc. complete and stacking within 50M lead of area 3 sq metres and below	1.00	EACH	60.06	60.06
15.12.2	7b	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts, etc. complete and stacking within 50M lead	1.00	EACH	82.89	82.89

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CPWD 2007	SL. NO	DESCRIPTION OF WORK	QTY	UNIT	RATE	AMOUNT
15.42.1	8a	Dismantling C.I. or asbestos rain water pipe with fittings and clamps including stacking the material within 50M lead from 75mm to 80mm dia	10.00	RM	12.54	125.40
15.42.2	8b	100mm dia	10.00	RM	12.98	129.80
15.42.3	8c	150mm dia	10.00	RM	13.42	134.20
15.56	9	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50M lead	10.00	SQM	9.02	90.20
15.43.1	10	Dismantling Water bound macadam road manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 m lead as per direction of Engineer - in- charge.	100.00	SQM	37.73	3773.00
2.1.1	11	Earthwork in surface excavation not exceeding 30cm in depth but exceeding 1.5m in width as well as 10sqm on plan including disposal of excavated earth upto 50m and lift upto 1.5m, disposed soil to be levelled and neatly dressed in all kinds of soil.	10.00	SQM	22.81	228.14
2.6.1	12	Earthwork in excavation mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth 1.5m in width as well as 10sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed in all kinds of soil.	10.00	CUM	112.04	1120.35
2.7.1	13	Earthwork in excavation mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth, 1.5m in width as well as 10sqm on plan) including disposal of excavated earth , upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed in ordinary rock.	10.00	CUM	167.86	1678.60
2.8.1	14	Earthwork excavation 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 1.5m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50m in all kinds of soil.	5300.00	CUM	113.74	602822.00

CPWD 2007	SL. NO	DESCRIPTION OF WORK	QTY	UNIT	RATE	AMOUNT
2.9.1	15a	Excavation work 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 1.5m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50m in ordinary rock.	20.00	CUM	178.92	3578.30
	15b	Hard rock (Blasting prohibited)	1.00	CUM	365.70	365.70
Agt No 12/2007-08 part 1 item No. 12	16	Pumping out the water from the pits including slushy soil as directed by the Engineer-in-Charge.	500.00	HP/ Hour	27.50	13750.00
2.26	17	Extra for every additional lift of 1.5m or part thereof in				
2.26.1	a	All kinds of soil	3000.00	CUM	20.79	62370.00
2.26.2	b	Ordinary or hard rock	15.00	CUM	37.24	558.53
2.25	18	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 upto 50m and lift upto 1.5m.	3700.00	CUM	50.27	185999.00
2.27	19	Supplying and filling in plinth with good river sand under floors including watering, ramming, consolidating and dressing complete.	100.00	CUM	331.65	33165.00
4.1	20	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - all work upto plinth level.				
4.1.3	a	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	1.00	CUM	3583.20	3583.20
4.1.8	b	1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size)	300.00	CUM	2693.90	808170.00
4.1.10	c	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40mm nominal size)	1.00	CUM	2461.53	2461.53

CPWD 2007	SL. NO	DESCRIPTION OF WORK	QTY	UNIT	RATE	AMOUNT
4.5.1	21	Providing and fixing upto 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 centring, shuttering and finishing smooth with 6mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete in 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	0.10	CUM	5295.79	529.58
5.1	22	Providing and laying in position specified grade of reinforced cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) excluding the cost of centring, shuttering, finishing and reinforcement .				
5.1.3	a	All works upto plinth level	1.00	CUM	3695.56	3695.56
5.2.3	b	All works from plinth level upto floor V level	1.00	CUM	4092.00	4092.00
5.1	23	Providing and laying in position specified grade of reinforced cement concrete 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size) excluding the cost of centring, shuttering, finishing and reinforcement .				
5.1.2	a	All works upto plinth level	135.00	CUM	4105.20	554202.00
5.2.2	b	All works from plinth level upto floor V level	1.00	CUM	4501.59	4501.59
5.8	24	Reinforced cement concrete work in vertical and horizontal fins individually or forming box louvers, facias and eaves boards upto floor five level excluding the cost of centring, shuttering, finishing and reinforcement with 1:1.5:3 (1cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size)	1.00	CUM	4321.63	4321.63
5.9	25	Centring and shuttering including strutting, propping etc. and removal of form for:				
5.9.1	a	Foundations, footings, bases of columns etc. for mass concrete.	1600.00	SQM	131.18	209880.00
5.9.2	b	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	10.00	SQM	198.44	1984.40
5.9.3	c	Suspended floors, roofs, landings, balconies and access platform.	600.00	SQM	206.09	123651.00
5.9.4	d	Shelves (Cast in situ)	10.00	SQM	206.09	2060.85
5.9.5	e	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	50.00	SQM	178.92	8945.75

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5.9.6	f	Columns, Pillars, Piers, Abutments, Posts and Struts	230.00	SQM	262.24	60315.20
5.9.13	g	Vertical and horizontal fins individually or forming box louvers band, facias and eaves boards	120.00	SQM	314.11	37692.60
5.9.19	j	Weather shade, Chajjas, corbels etc., including edges	25.00	SQM	284.46	7111.50
5.17	26	Providing hoisting and fixing upto floor five level precast reinforced cement concrete in vertical & horizontal fins individually or forming box louvers setting in cement mortar 1:2 (1 cement : 2 coarse sand) including the cost of required centring, shuttering and finishing smooth with 6mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete but excluding the cost of reinforcement with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size).	6.00	CUM	7420.05	44520.30
5.22.3	27a	Reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete for mild steel and medium Tensile steel bars.	3000.00	KG	45.65	136950.00
5.22.3	27b	Cold twisted bars	100000.00	KG	46.97	4697000.00
5.22.6	27c	Thermo-Mechanically Treated bars	60000.00	KG	46.97	2818200.00
Data	28	Providing and filling in position of Expansion Joint filler board of 25 mm Thick and 300 mm Depth.	5.00	SQM	543.95	2719.75
5.33	29	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete structural elements, excluding the cost of centring, shuttering, finishing and reinforcement, including admixtures in recommended proportions (as per IS9103) to accelerate, retard setting of concrete improve workability without impairing strength and durability as per direction of Engineer-in-charge - M25 grade reinforced cement concrete by using 410 kg of cement per cum of concrete. All work upto floor v level.	2000.00	CUM	4562.14	9124280.00
6.1.2	30a	Brick work with F.P.S. bricks of class designation 75 in foundation and plinth in: Cement mortar 1:6 (1 cement: 6 coarse sand)	10.00	CUM	2333.93	23339.25

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6.4.2	30b	Brick work with F.P.S. bricks of class designation 75 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:6 (1 cement: 6 coarse sand)	1.00	CUM	2709.96	2709.96
6.12.2	31a	Half brick masonry with F.P.S. brick of class designation 75 in foundations and plinth in. cement mortar 1:4 (1 cement: 4 coarse sand)	10.00	SQM	297.39	2973.85
6.13.2	31b	Half brick masonry with F.P.S. bricks of class designation 75 in superstructure above plinth level up to floor V level. Cement mortar 1:4 (1 cement :4 coarse sand)	20.00	SQM	333.08	6661.60
6.32.2 data	32a	Brick work with clay flyash F.P.S. brick of class designation 75 in plinth level in : Cement Mortar 1:6 (1 Cement: 6 Coarse sand)	10.00	CUM	2008.82	20088.20
6.32.2	32b	Brick work with clay flyash F.P.S. brick of class designation 75 in superstructure above plinth level up to floor five level in : Cement Mortar 1:6 (1 Cement: 6 Coarse sand)	70.00	CUM	2348.17	164371.90
7.1.1	33	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 20mm nominal size) at plinth level with cement mortar 1:6 (1 cement: 6 coarse sand)	1.00	CUM	2022.79	2022.79
11.3.1	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 of 40mm thick with 20mm nominal size stone aggregate.	150.00	SQM	212.25	31836.75
Agt No 11/2002-03 item No 19 CI 2007-260 2002-166	35	Providing shahabad stone slab flooring of 25 mm thick of approved quality and colour laid over 20 mm thick base of cement mortar 1:4, jointed with cement slurry including rubbing and polishing etc., complete. (Non ac area only)	150.00	SQM	344.58	51686.25

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DSR 2002 item No 11.64.2 Cost Index 2007-260 2002-166	36	Providing and fixing homogeneous Polyvinyl chloride sheet /tile in flooring and skirting in approved pattern on a smooth and damp proof base using rubber based adhesives of approved quality and manufacturer like Dunlop S-758, Fevicol SR 998 or equivalent including rolling with light wooden roller weighing about 5 kg. all complete as directed by Engineer-in-Charge, in approved colour and shade. 2.00 mm Thick tile	65.00	SQM	830.86	54006.10
9.1.1	37	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position in Second class Teak wood .	0.10	CUM	57299.00	5729.90
Agt No 12/2007-08 Part IV item No 10	38	Grouting the pockets underneath of base plate with ACC Shrinkkomp or equivalent brand as approved by the Engineer-in-charge, non-shrink free flow grout mix 40. Rate to include cleaning, properly hacking the surface of the pockets and below base plates with necessary centring and shuttering, labour and materials etc. complete as per standard specifications and instructions of Engineer-in-charge. all cleaning and preparation of surface, mixing should be done strictly as per the manufacturers recommendations.	24.00	CUM	36404.45	873706.68
L.S	39	Carrying from BHEL stores/Stack yard at site of work and fixing in position of foundation bolts of various diameter to true to alignment and level using template made for this purpose.The rate shall include cost of template , fabricated out of structural steel.	700.00	NO	55.00	38500.00

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21.1	40	Providing and fixing anodised aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular and other sections of approved make conforming to IS: 733 and IS : 1285, anodised transparent or dyed to required shade according to IS : 1868. (Minimum anodic coating of grade AC 15), fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and panelling to be paid for separately.)				
21.1.1.1	40a	For fixed portion Anodised aluminium (anodised transparent or dyed to required shade according to Is:1868, Minimum anodic coating of grade AC 15)	50.00	Kg	319.50	15974.75
21.1.2.1	40b	For shutters of doors, windows & ventilators including providing and fixing hinges / pivots and making provision for fixing of fittings wherever required including the cost of PVC / neoprene gasket required (Fittings shall be paid for separately.) Anodised aluminium (anodised transparent or dyed to required shade according to Is:1868, Minimum anodic coating of grade AC 15)	125.00	Kg	341.50	42686.88
21.3	41	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC / 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	41a	With float glass panes of 4.0 mm thickness	26.00	SQM	610.45	15871.57
21.3.2	41b	With float glass panes of 5.50 mm thickness	11.00	SQM	740.91	8149.96

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21.4.1	42	Providing and fixing double action hydraulic floor spring of approved brand and manufacture IS : 6315 marked, for doors including cost of cutting floors as required, embedding in floors 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. With stainless steel cover plate.	4.00	EACH	1905.92	7623.66
10.2	43	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete:	5500.00	KG	50.99	280417.50
10.6.1	44a	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths interlocked together through their entire length and jointed together at the end by end locks mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete including the cost of providing and fixing necessary 27.5cm long wire springs grade No.2 and M.S. top cover of required thickness for rolling shutters. 80x1.25mm M.S. laths with 1.25 mm thick top cover.	12.00	SQM	1329.30	15951.54
10.7	44b	Providing and fixing ball bearing for rolling shutters.	2.00	Each	392.15	784.30
10.8.1	44c	Extra for providing mechanical device chain and crank operation for operating rolling shutters. Exceeding 10.00 sqm and upto 16.80 sqm in the area.	12.00	SQM	528.33	6339.96

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10.11	45a	Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators side /top /centre hung with beading and all members such as K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted with 15x3mm lugs, 10cm long, embedded in cement concrete blocks 15x10x10cm of 1:3:6 (1 cement : 3 coarse sand : 6 graded stone ggregate 20mm nominal size) or with wooden plugs and screws or rawl plugs and screws or with fixing clips or with bolts and nuts as required, including providing and fixing of hinges, pivots, float glass panes with glazing clips and special metal sash putty of approved make and a priming coat of approved steel primer excluding the cost of other fittings except necessary hinges or pivots complete as per approved design (Sectional weight of only steel members shall be measured for payment without weight of glass & other fittings.	100.00	KG	196.79	19679.00
Ramagunda m item No 798 /Page 49	45b	Providing and fixing of windows (NCL or equivalent ECO 3000 series windows suitable for residential buildings with grill provision) made of pre-painted steel (Base steel as per IS 513 of 0.6 mm thick galvanized as per IS 277 with Zinc of 120 GSM) primer coated with epoxy primer of 5-7 microns thick, finish painted with a polyester paint of 12-16 microns thick and back coated with 5-7 microns thick alkyd backer . Section for outer frame should be of 48x50mm , centre mullion should be of 48x50mm ,section for shutter should be of 47x 20 mm and fixed glass beading section should be of 12x 12mm .Outer frame and mullions to have rebate for Glazed shutter and a 20 mm provision for guard bars/Grills. The sections are to be cut to length metre joined with corner bracket. Centre mullion is to be fixed with mullion cap. Seccolor Handle seccolor stay, 2 nos of Stainless Steel heavy duty Pivot hinges shall be provided for shutter. The windows should be paneled with 5 mm thick plain float glass .				

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		<p>Rubber Gaskets are provided all around the glass. The above frames should be fixed to the concrete/ masonry wall by means of self expanding screws including 10 mm Square guard bars with 6" (152.4 mm) pitch etc., complete for finished item of work.</p> <p>Double shutter Window with vertical member 4'0" x 4'0" (1219.2mm x 1219.2mm) outer frame section of size 48x50mm shutter frame section size of 47x20mm and mullion section should be of 48x50mm.</p>	15.00	SQM	4359.00	65385.00
12.45.1	46	<p>Providing and fixing at all height false ceiling including providing and fixing of frame work made of special sections power pressed from M.S. sheet and galvanised in accordance with zinc coating of grade 350 as per IS : 277 and consisting of angle cleats of size 25mm wide x 1.6mm thick with flanges of 22mm and 37mm at 1200mm centre to centre one flange fixed to the ceiling with dash fastener 12.5mm dia x 40mm long with 6mm dia bolts to the angle hangers of 25x25x0.55mm of required length, and other end of angle hanger being fixed with nut and bolts to G.I. channels 45x15x0.9mm running at the rate of 1200mm centre to centre to which the ceiling section 0.5mm thick button wedge of 80mm with tapered flanges of 26mm each having clips of 10.5mm at 450mm centre to centre shall be fixed in a direction perpendicular to G.I. channel with connecting clips made out of 2.64mm dia x 230mm long G.I. wire at every junction including fixing the gypsum board with ceiling section and perimeter channels 0.5mm thick 27mm high having flanges of 20mm and 30mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450mm centre to centre with 25mm long drive-all screws @ 230mm interval including jointing and fixing to a flush finish of tapered and square edges of the board with recommended filler, jointing tapes, finisher and two coats of primer suitable for board as per</p>	65.00	SQM	552.31	35900.15

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		with 25mm long drive-all screws @ 230mm interval including jointing and fixing to a flush finish of tapered and square edges of the board with recommended filler, jointing tapes, finisher and two coats of primer suitable for board as per manufactures 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 drawing and specification and direction of the Engineer in Charge but excluding the cost of painting with : 12.5 mm thick tapered edge gypsum board conforming to IS: 2095-Part I.				
22.14.1	47	Grading roofs for water proofing treatment with Cement Concrete 1:2:4 (1 Cement : 2 Coarse sand : 4 graded stone aggregate 20 mm nominal size)	7.00	CUM	3646.45	25525.12
22.8.1	48	Providing and laying four courses water proofing treatment with bitumen felt over roofs consisting of first and third courses of blown bitumen 85/25 or 90/15 conforming to IS : 702 applied hot @ 1.45 Kg per square metre of area for each course, second course of roofing felt type 3 grade-I (hessian based self finished bitumen felt) manufactured by Bengal Bitumen, STP Ltd, Arcus Ltd etc., and fourth and final course of stone grit 6mm and down size or pea-sized gravel spread at 6 cubic diametre per square metre including preparation of surface but excluding grading complete with Bitumen felt (hessian base)type 3 grade I conforming to IS : 1322.	210.00	SQM	203.28	42688.80
12.78/143	49	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 10mm gap for thermal expansion of single socketed pipes				
12.43.2	49a	110 mm diameter	60.00	RM	106.59	6395.40
12.42.1.2	49b	110 mm coupler	10.00	Each	111.82	1118.15
12.42.5.2	49c	110 mm bend - 87.50 degree	10.00	Each	147.62	1476.20
12.42.6.2	49d	110 mm shoe	10.00	Each	289.41	2894.10
12.42.3.2	49e	Single tee with door 110x110x110 mm	1.00	Each	286.77	286.77
12.42.4.2	49f	Single tee without door 110x110x110 mm	1.00	Each	229.30	229.30
13.1.2	50	12mm cement plaster of mix 1:6 (1 cement : 6 coarse sand)	600.00	SQM	74.42	44649.00

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13.2.2	51	15mm cement plaster of mix 1:6 (1 cement :6 coarse sand) on rough side of single or half brickwall.	600.00	SQM	86.41	51843.00
13.28.3	52	12 mm thick plain cement mortar bands in cement mortar 1:4 (1 cement : 4 fine sand) Raised band.	50.00	SQM	181.50	9075.00
13.16.1	53	6 mm cement plaster to ceiling of mix 1:3 (1 cement :3 fine sand)	70.00	SQM	68.37	4785.55
13.37.1	54	White washing three coats with lime to given an even shade	700.00	SQM	7.43	5197.50
13.42.1	55	Distemping with 1st quality acrylic washable distemper (ready mixed) of approved manufacturer and of required shade and colour complete. as per manufacturer's specification. Two coats on new work	250.00	SQM	25.91	6476.25
13.43.1	56	Applying one coat of cement primer of approved brand and manufacture on wall surface :	250.00	SQM	18.92	4730.00
13.48.1	57	Finishing walls with Delux Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications Two coats applied @ 1.25ltr/ 10 Sqm over and including one coat of special primer applied @ 0.75 ltr / 10 Sqm	700.00	SQM	68.48	47932.50
13.61.1	58	Painting with synthetic enamel paint of two coats on new work of approved brand and manufacture to give an even shade.	300.00	SQM	38.89	11665.50
13.69.1	59	Polishing of wood work with ready mixed wax polish of approved brand and manufacture on new work	10.00	SQM	39.38	393.80
1.1.2/54	60	Carriage of materials by mechanical transport including loading, unloading & stacking - excavated earth, debris etc.,				
1.1.2./ 54	60a	1 KM lead	1000.00	CUM	54.36	54362.00
1.1.2./ 54	60b	2 KM lead	4000.00	CUM	62.05	248204.00
	61	PROVIDING FOLLOWING MANPOWER SUPPLY ASSISTANCE.				
	61a	One number clerk with knowledge of computer operation along with supply and operation of one no. latest desk top personal computer and one laserjet multifunction device with fax cum scanner cum printer functions for BHEL site office. (including licensed os , services , maintenance of the computer system and supply and replacement of spares & printer cartridges as required.)	12.00	MAN MONTH	10000.00	120000.00
	61b	One number office boy for BHEL site office.	12.00	MAN MONTH	4000.00	48000.00

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	61c	One number Engineer (D.C.E qualified) for site office operations, maintaining quality checks, records etc.	12.00	MAN MONTH	10000.00	120000.00
		Sub Total			Rs.	22312721.61
		Contractor's Tender Percentage Below/ At Par/ Above% (Words in Tender Percentage)			Rs	
		Add Service Tax Percentage @% (Words in Percentage & value in Rupees)			Rs	
		Total contractor's quoted Value				
		Rupees in words				
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 schedule of rates. The percentage quoted shall be clearly written both in words in figures.				
	2	The quoted percentage will apply to the individual items uniformly and few of the items may/may not be operated.				
	3	The quoted percentage shall be firm through out the contract period.				
	4	The cement adequacy shall be as per CPWD practice.				
	5	Testing of Cement, Reinforcement Steel, Concrete Cubes and other connected building materials as and when required by BHEL/Customer shall be done by the contractor at his own cost in the laboratory as approved by the Engineer in charge.				
	6	You will have to follow all statutory requirements like PF, ESI, Minimum Wages, etc., through out the contract period.				
	7	You will have to follow all safety requirements to carry out the work at SITE.				
	8	The tenderer may visit the site and assess location before quoting the rate.				
	9	The rate indicated in the Schedule here does not include PF, ESI, etc.,				
	10	CONTRACT CONDITIONS ON TAXES & DUTIES				
		a. The Tenderer shall have been Registered under Excise, Sales Tax, 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				

CPWD 2007	SL. NO	DESCRIPTION OF WORK	QTY	UNIT	RATE	AMOUNT	
		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 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 born 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 born by the vendor only.					
	11	SPECIAL CONDITIONS OF CONTRACT FOR MANPOWER SUPPLY ASSISTANCE ETC.					
	a	The quantity of manpower assistance indicated in the rate schedule is only approximate. BHEL will specify the actual requirement as and when the need arises at various stages of execution of contract. BHEL will have the option of not operating any of the items indicated in the rate schedule under manpower supply.					
	b	The manpower provided shall be capable of carrying out the assigned work to the satisfaction of BHEL. BHEL reserves the right to decide on the suitability of the personnel deployed and insist on removal of any employee found unsuitable for the work assigned. The contractor shall forthwith arrange for replacement.					
	12	MANPOWER SUPPLY FOR SITE MANAGEMENT ETC:					
	a	Compliance with statutory obligations as well as any other requirements / provisions with respect to manpower supplied and equipment including insurance, medical facilities, minimum wages, safety requirements, accommodations, conveyance etc., are the responsibility of the Contractor. The rates quoted shall be inclusive of all the above requirements.					
	b	The contractor shall strictly abide by the state and central laws, statutory rules, regulations etc. as indicated in the GCC and other sections of the special conditions of contract. In addition the contractor shall have to comply with professional tax / and PF /ESI/ labour licence regulations for all his employees / workman as per the local authorities / governing bodies instructions.					
	13	SPECIFICATION FOR PC SYSTEM (01. NO.)					

CPWD 2007	SL. NO	DESCRIPTION OF WORK	QTY	UNIT	RATE	AMOUNT
	a	For management of materials receipt, issues etc., site management activities and to prepare statements a PC is required. The Contractor should provide ONE No. of Personal Computer system as per the following specification at their cost. The rate for one no. clerk shall be inclusive of the PC. The scope of contractor shall include providing a licensed operating system (Vista Business version), licensed software (latest version of MS OFFICE with CD/DVD), maintenance, servicing and replacement of spares. The system will be kept in BHEL site office and used exclusively for BHEL's site management activities. Maintenance of the System including supply of spares is the responsibility of the Contractor, and if any fault / failure of the system occurs, it should be rectified immediately without delay at contractor's cost. The scope also includes supply of consumables like printer cartridges etc. as and when required by BHEL.				
	b	SPECIFICATION FOR PC SYSTEM:				
		To be arranged by the Contractor at their cost.				
			Sl.No	Features	Minimum Requirements	
			1	Processor	Intel Pentium 4.2 GHz or above	
			2	Chipset	Intel 845 or higher Intel Chipset	
			3	RAM	1 GB DDR SDRAM	
			4	HDD	250 GB SATA	
			5	FDD	1.44 MB	
			6	Optical Drive	52 X DVD writer or higher, SATA	
			7	Monitor	15" TFT colour	
			8	Key Board	Minimum 104 Keys Windows keyboard	
			9	Mouse	2 Button optical mouse	
			10	Ethernet	Integrated 10/100 Mbps NIC for LAN	
			11	Ports	Minimum 1 parallel, USB	
			12	OS	VISTA Business version	
			13	USB	USB-2	
			14	Accessories	Mouse pad & Dustcovers	
			15	UPS	1KVA UPS with 1 Hr. back up	
			16	Multi Function Printer	A4 size laser jet printer with built in FAX and Scanning facility -20 ppm or above (with all consumables, cartridges etc.)	