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BHARAT HEAVY ELECTRICAL LIMITED , JHANSI
FACTORY CIVIL DEPARTMENT

PRICE BID PART "B"

Rate Contract for mis civil w ork in Factory area for year 2009-10

S.No.	Ref: DSR 2007	Description of Items	Unit	Qty	Rate DSR 2007	Rate offered by contractor in percentage (above / below of DSR 2007)
1	1.1.2/4/54	Carriage of Earth up 1 km . By mechanical transport including loading unloading and stacking .The rate will be applicable to net quantities after deduction of prescribed percentage for voids mentioned in the specification under sub head 'Carriage of materials "	Cum	150	49.42 % Above / Below for S. No. 1 to 70
2	2.6.1/64	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 for all kinds of soil.	Cum	290	101.85	
3	2.25/67	Filling available excavated earth in trenches, plinth sites of foundations etc in layers not exceeding 20 cm in depth consolidating each deposited layer by ramming and watering , lead up to 50 meters and lift upto 1.5 mtr	Cum	100	45.70	
4	4.1.3/79	Providing and laying in position Cement concrete -1:2:4 (1 Cement: 2 coarse sand : 4 graded stone aggregate 20mm nominal size) excluding the cost of entering and shuttering all work upto plinth level .	Cum	20	3257.45	
5	4.1.8/79	Providing and laying in position Cement concrete -1:4:8 (1 Cement: 4 coarse sand : 8 graded stone aggregate 40mm nominal size) excluding the cost of entering and shuttering all work upto plinth level .	Cum	40	2449.00	
6	5.1.3/88	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	Cum	10	3359.60	
7	5.3/88	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15- landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases up to floor five level excluding the cost of centering, shuttering, finishing and reinforcement with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	Cum	22	3673.85	
8	15.7.4/226	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge. In cement mortar	Cum	5	310.75	
9	5.9.3/89	Centering and shuttering including strutting, propping etc. and removal of form for : Suspended floors, roofs, landings, balconies and access platform.	Sqm	70	187.35	
10	5.22/92	Reinforcement for R.C.C.work including straightening , cutting ,bending , placing in position and binding all complete Cold twisted bars	Kg	1800	42.70	
11	5.24/92	Extra for rendering smooth the top of suspended floors, landings and staircases (treads and risers) with cement mortar 1:2 (1 cement : 2 coarse sand) including a floating coat of neat cement and protecting the surface with a layer of 7.5 cm of earth laid over 15 mm of fine sand in case of suspended floor and bricks laid in mud mortar in case of landings and steps including subsequent removal and cleaning of the same.	Sqm	70	47.40	
12	6.1.2/99	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)	Cum	10	2121.75	

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		bricks of class designation 75 kg (1000 mm x 200 mm x 100 mm) (cur brick) in Super structure 1:6 (1 cement : 6 coarse sand) upto floor five level .	Cum	40	2357.40
		Super structure with FPS bricks of class designation 75 kg (1000 mm x 200 mm x 100 mm) (II nd class kanpur brick) in Super structure 1:3 (1 cement : 3 coarse sand) .	Cum	6	214.85
15	6.13.2/100	Half brick masonry with brick of class 75 designation in super structure above plinth level upto floor five level cement mortar 1:4 (1 cement and 4 cement mortar)	Sqm	14	302.80
16	7.1.1/109	R.R.Masonry with hard stone in foundation and plinth - 1:6(1 cement :6 coarse sand) including leveling up with cement concrete 1:6;12 (1 cement :6 coarse sand ; 12 graded stone aggregate of 20mm nominal size) .	Cum	15	1838.90
17	9.21.1/140	Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters : 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	Sqm	20	929.95
18	11.1.2/172	Brick on edge flooring with bricks of class designation 75 including cement slurry etc. complete in cement mortar with F.P.S bricks 1: 6 9 1 cement : 6 coarse sand)	Sqm	100	296.20
19	11.3.1/172	Cement concrete flooring 1;2;4 (1 cement: 2 coarse sand : 4 graded stone aggrega) finshied with a floating coat of neat ceemnt including cement slurry , but excluding the cost of nosing of steps etc . Complete. 40mm thick with 20mm nominal size stone aggregate .	Sqm	50	192.95
20	11.4/172	52 mm thick cement concrete flooring with concrete hardener topping under layer 40 mm thick cement concrete 1;2;4(1 cement : 2 coarse sand ; 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardner consisting of mix 1.2 (1 cement hardner mix : 2 graded stone aggregate 6mm nominal size) by volume hardening compound is mixed @2 liter per 50 kg of cement or as per manufacturers specifications. this includes cost of cement slurry , but excluding the cost of nosing of steps etc . complete .	Sq mtr	50	286.55
21	11.36/177	P& laying 1st quality Ceramic glazed wall tiles conforming to IS :15622 (thickness to be specified by the manufacturer) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-charge in skirting, risers of steps and dados over 12mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 303kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	Sqm	100	556.60
22	11.37/177	P& laying Ceramic glazed floor tiles 300 x300 mm (thickness to be specified by the manufacturer)of 1st quality confirming to IS :15622 of approved make in all colours such as White, Ivory, Grey, Fume Red Brown laid on 20mm thick Cement mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement and matching pigment etc. complete.	Sqm	100	598.65
23	11.41.2/178	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption's less than 0.08% and conforming to IS : 15622 of approved make in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 60x60 cm	Sqm	70	1448.55
24	11.42/178	Deduct for not using 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) bedding in laying of floor tiles.	Sqm	-70	233.95
25	11.43/178	Fixing glazed/ Ceramic/ Vitrified floor tiles with cement based high polymer modified quick-set tile adhesive (Water based) conforming to IS: 15477 , using 5kg. adhesive per sqm of tile area, in average 3mm thickness.	Sqm	70	224.70

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		1:6 (1 cement : 6 fine sand)	Sqm	400	67.65% Above / Below for S. No. 1 to 70
		1:6 (1 cement : 6 fine sand)	Sqm	400	78.55	
		plaster of paris putty of 2 mm and surface to prepare the surface ete	Sqm	250	47.20	
29	13.37.1/204	(three or more coats) to give an even shade: New work	Sqm	250	6.75	
30	13.39.1/204	Colour washing such as green, blue or buff to give an even shade : New work (two or more coats) with a base coat of white washing with lime	Sqm	500	9.30	
31	13.41.1/204	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade New work (two or more coats) over and including priming coat with cement primer.	Sqm	500	41.55	
32	13.43.1/204	Applying one coat of cement primer of approved brand and manufacture on wall surface : Cement primer.	Sqm	300	17.20	
33	13.60.1/206	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade: Two or more coats on new work	Sqm	500	40.05	
34	13.62.1/207	Painting with synthetic enamel paint of approved brand and manufacture of requird colour to give an even shade two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture.	Sqm	400	51.30	
35	15.12.1/227	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking w ithin 50 metres lead : Of area 3 sq. metres and below	Each	8	54.60	
36	15.56/231	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.	Sqm	36	8.20	
37	16.15.1/241	R.C.C. Standards post/ struts/rails/ pales of mix 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 12.5 mm nominal size) with wooden plugs or 6mm bar nibs wherever required as per direction of Engineer-in-charge (cost of earth works in excavation, concrete works in foundation to be paid separately).	Cum	1.20	12473.10	
38	16.17/242	Fencing with R.C.C. post placed at required distance, embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be strutted on both sides and end post one side only, provided with horizontal lines and two diagonals of barbed wire 9.38 kg per 100 metres (min) between the two posts fitted and fixed with G.I. staples on wooden plugs or G.I. binding wire tied to 6 mm bar nibs fixed while casting the post (cost of R.C.C. posts, struts, earth work and concrete to be paid for separately) :- Payment to be made per metre cost of total length of barbed wire used. With G.I. barbed wire	M	500	5.85	
39	17.1.1/263	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required : White Vitreous china Orissa pattern W.C. pan of size 580x440mm with integral type foot rests.	Nos	5	2304.65	
40	17.2.1/263	Providing and fixing white vitrous china pedestal type water closet European type W.C. pan with seat and lid , 10 litre low level white P.V.C. flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required WC pan with ISI mark white solid plastic seat and lid .	Nos	5	2152.50	

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		white vitreous china flat back or front urinal basin of 340x410x265mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required : Range of two urinal basins with 5 litre white P.V.C. automatic flushing cistern.	Nos	1	3393.60
42	17.6.2/264	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 30x260x350mm and 340x410x265mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required : Range of four urinal basins with 10 litre white P.V.C. automatic flushing cistern.	Nos	1	5789.45
43	17.7.2/264	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require : White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap.	Nos	6	1201.70
44	17.31/267	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.	Nos	6	493.65
45	18.9.1/292	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge. 15 mm nominal outer dia .Pipes.	M	30	92.60
46	18.9.2/292	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge. 20 mm nominal outer dia .Pipes.	M	40	107.70
47	18.10.1/292	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, including cutting and making good the walls etc. 15 mm dia. nominal bore	M	100	105.85
48	18.12.2/292	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. 20 mm dia. nominal bore	M	50	116.60
49	18.15.1/293	Providing and fixing brass bib cock of approved quality : 15 mm nominal bore	Each	20	191.70
50	19.1.2/315	Providing, laying and jointing glazed stoneware pipes grade A with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete : 150 mm diameter	M	50	151.65
51	19.6.2/316	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 : 150 mm dia. R.C.C. pipe	M	50	202.85

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52	19.7.1/317	<p>dry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) R.C.C. top slab with 1:2:4 mix (1 cement : 4 graded stone aggregate 20mm nominal size) foundation concrete 1:4:8 mix (1 cement : 8 graded stone aggregate 20mm nominal size) inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement complete as per standard design : Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :</p>	Each	2	5383.70
53	21.1.1.1/337	<p>Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/appropriate Z sections and other sections of approved make conforming to IS: 733 and IS : 1285, 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 / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and paneling to be paid for separately) : For fixed portion Anodised Aluminium (anodised or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC15)</p>	kg	50	290.45
54	21.1.2.1/337	<p>Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/appropriate Z sections and other sections of approved make conforming to IS: 733 and IS : 1285, 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 / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and paneling to be paid for separately) for fixed Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC15)</p>	kg	25	310.45
55	21.2.2/337	<p>Providing and fixing 12mm thick pre-laminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, 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. Pre-laminated particle board with decorative lamination on both sides.</p>	sq mtr	5	812.6
56	21.3.1/338	<p>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)with float glass panes of 4.0 mm thickness .</p>	sq mtr	10	554.95
57	21.3.2/338	<p>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)with float glass panes of 5.50 mm thickness .</p>	sq mtr	10	673.55

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		Double action hydraulic floor spring manufacture IS : 6315 marked, for cutting floors as required, d cover plates with brass pivot and outer box with slide plate direction of Engineer-in-charge with te	Nos	5	1733.5% Above / Below for S. No. 1 to 70
59	21.8.1/338	Filling the gap in between aluminium frame & adjacent RCC/Brick /stone work by providing weather silicon sealant over backer rod of approved quality as per architectural and direction of Engineer-in-charge complete.	mtr	50	58.85	
60		Any or other item not covered above but covered in DSR 2007	basic value		100000.00	
		Supply of items as per approved by engineer in charge				
61	0020/1	Hiring of Hydraulic Excavator (3D) with driver and fuel	Day	5	6000.00	
62	18/1649/280	Polyethylene water storage tank with cover and suitable locking arrangement	Per litre	2000	4.00	
63	0039/2	Hiring of tractor trolley with operating staff .	per day	20	1000	
64	983/13	Fine sand	Cu meter	50	320.00	
65	0295/5	Stone aggregate-20mm	Cu meter	10	700.00	
66	0298/5	Stone aggregate-6mm	Cu meter	10	750.00	
67	0297/5	Stone aggregate-10mm	Cu meter	10	700	
68	0293/5	Stone aggregate-40mm	Cu meter	10	650	
69	2602/97	FPS Bricks class designation 75	Nos	10000	1.90	
70	7060/131	Hydraulic door closer tubular type Aluminium section body of approved brand .	Nos	10	765.00	
		Sub total A				
		Non schedule items				
71	EX-1	Fabrication & erection of steel structure (steel supplied by BHEL) including primer & painting of approved brand (1st quality of Asian/Berger/Nerolac/Shalimar make) .(Rate as per agreement BHEL/JHS/CED fy-04/08-09 d t 10/7/2008)	Kg	1800	
72	EX-2	Providing and fixing A.C. Sheets 6mm thick(1.5 mtr to 3.0 mtr long) complete with Hook, GI washer ,Nut, Bitumen washer approved by engineer incharge . (Rate as per agreement BHEL/JHS/CED fy-04/08-09 d t 10/7/2008)	Sqm	150	
73	EX-5	P/F PVC floor 1.5mm thick as per approved quality , brand and colour by Engineer in charge (Rate as per agreement no ARC/Fy-03/08-09)	Sqm	39	
74	EX-6	Removal of existing AC Sheet 6mm thick (1.5 mtr to 3.0 mtr long) and making proper staking of servisable items and disposal of non useable material up to 500 meter lead . (Rate as per agreement no Fy-04/08-09)	Sqm	100	
75	EX-7	Refixing of old AC Sheet on labour basis (all material supplied by BHEL) (Rate as per agreement no ARC/ FY-03 /08-09)	Sqm	100	
76	EX-8	Dismantalling of Steel structure including cutting lowering etc and making proper staking of servisable items and disposal of non useable material up to 500 meter lead . (Rate as per agreement no Fy-04/08-09)	Kg	800	
77	EX-9	Re-erection of dismantled steel structure including welding ,cutting as per direction of engineer in charge and etc primer & painting of approved brand (1st quality of Asian/Berger/Nerolac/Shalimar make) .(Rate as per agreement BHEL/JHS/CED fy-04/08-09 d t 10/7/2008) .	Kg	800	
		Service Tax extra @ 4.0788%				

(Note- .Item no 1 to 70 must be offered in % below /above on CPWD DSR- 2007 and item no 71 to 77 in item rate).

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