



BHARAT HEAVY ELECTRICALS LIMITED
RAMACHANDRAPURAM::HYDERABAD::32
FACTORY CIVIL ENGINEERING DEPARTMENT

SCHEDULE- A

Tender Notice No:

HY/FCD/OT-01/2013-14, Dt: 03.05.2013

PRICE BID

Item no.: 2

Name of work: Misc. Masonry works in Factory and Administrative building area.

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
1	Demolishing brick work manually / by mechanically means including stacking of serviceable material and disposing off unserviceable materials within 50 meters lead as per directions of Engineer-in-charge. - in cement mortar	110.00	Cu.M	310.75	34,182.50
2	Demolishing stone rubble masonry manually / by means including stacking of serviceable material and disposing of unserviceable materials within 50 meters lead as per directions of Engineer-in-charge. - in cement mortar	6.00	Cu.M	370.75	2,224.50
3	Dismantling doors, windows and clerestory windows (steel & wood) shutters including chowkhats, architrave, holdfasts etc. complete and stacking within 50 meters lead.	28.00	Sq.M	75.35	2,109.80
4a	Earth work in excavation by mechanical means (Hydraulic Excavators) / manual means in foundations trenches or drains (not exceeding 1.5m in width or 10 Sq.m 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.	165.00	Cu.m	103.40	17,061.00
4b	----do---- up to First additional depth of 1.50 M to 3.00 M.	9.00	Cu.M	122.30	1,100.70
5	Earth work in excavation by mechanical means (Hydraulic Excavators) / manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 Sq.m on plan) including disposal of excavated earth, lead upto 50 m and lift upto 1.5 m, disposing earth to be levelled and neatly dressed for Hard Rock (Blasting prohibited) etc. complete as directed by Engineer-in-charge.	6.00	Cu.M	325.25	1,951.50
6	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidation each deposited layer by ramming and watering, lead upto 50 m lift upto 1.5 m etc. complete as directed by Engineer-in-charge.	44.00	Cu.M	45.70	2,010.80
7	Conveyance of excavated spoil up to a lead of 2 Kms, including loading , unloading and spreading etc. complete as directed by Engineer- in- charge.	165.00	Cu.M	56.41	9,307.65

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
8	Providing and laying in position plain cement concrete of specified grade, consolidation excluding the cost of centering and shuttering - all work up to plinth level with 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate of 20 mm nominal size) etc. complete as directed by Engineer-in-charge.**	193.00	Cu.M	1,560.50	3,01,176.50
9 a	Providing and laying in position plain cement concrete of specified grade, consolidation by vibration excluding the cost of centering and shuttering - all work up to plinth level with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) etc. complete as directed by Engineer-in-charge.**	77.00	Cu.M	1,585.00	1,22,045.00
9 b	Plain cement concrete work in walls (any thickness) including attached pilasters, buttersses, plinth and string courses, fillets, columns, lintels, beams, pillars, piers, abutments. Posts and struts etc. up to floor five level excluding cost of centering, shuttering, finishing and reinforcement : with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) etc. complete as directed by Engineer-in-charge. **	17.00	Cu.M	1,906.50	32,410.50
10	Reinforced cement concrete work in walls (any thickness) including attached pilasters, buttersses, plinth and string courses, fillets, columns, lintels, beams, pillars, piers, abutments. Posts and struts etc. up to floor five level excluding cost of centering, shuttering, finishing and reinforcement : with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) etc. complete as directed by Engineer-in-charge.**				
a	for slab	1.50	One Cu.M	2,001.50	3,002.25
b	columns and column footings	1.50	One Cu.M	1,916.00	2,874.00
c	Lintels and beams	1.50	One Cu.M	1,916.00	2,874.00
d	walls	1.50	One Cu.M	1,916.00	2,874.00
e	Providing and laying in position reinforced cement concrete excluding cost of centering, shuttering, finishing and reinforcement all works upto plinth level : with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) etc. complete as directed by Engineer-in-charge.**	1.70	One Cu.M	1,687.00	2,867.90
11	Coursed rubble masonry (second sort) with hard stone in foundations & plinth with cement mortar 1:6 (1 Cement : 6 Coarse sand) etc. complete as directed by Engineer-in-charge.**	22.00	Cu.M	1,521.00	33,462.00
12	Brick work with FPS bricks of Ground moulded in superstructure above plinth level up to floor V level in all shapes and sizes in cement mortar 1:6 etc. complete as directed by Engineer-in-charge.**	99.00	Cu.M	2,104.00	2,08,296.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
13a	Half brick masonry with FPS bricks of Ground moulded in superstructure above plinth level upto floor V level in cement mortar 1:4 (1cement : 4 Coarse sand) including plastering with cement mortar 1:6 20 mm (1 cement : 6 coarse sand) on both sides etc. complete as directed by Engineer-in-charge.**	22.00	Sq.m	334.00	7,348.00
b	...do.. With reinforcement of 6 mm dia MS rounds at every 4th layer, but excluding cost of steel and its fabrication etc. complete as directed by Engineer-in-charge.**	6.00	Sq.m	334.30	2,005.80
14	Plastering in CM 1:6, 12 mm thick to internal and external surfaces of walls including the cost of all materials, labour, curing etc. complete as directed by Engineer-in-charge.**	99.00	Sq.m	54.00	5,346.00
15a	Plastering in CM 1:6, 20 mm thick to internal and external surfaces of walls including the cost of all materials, labour, curing etc. complete as directed by Engineer-in-charge. - Upto 10.00 m height **	550.00	Sq.m	65.80	36,190.00
b	-----do-----for height 10.01 m to 14.40 m height. **	22.00	Sq.m	82.60	1,817.20
c	-----do-----for height 14.41 m to 20.00 m height. **	22.00	Sq.m	116.20	2,556.40
16	Plastering to the ceiling in CM 1:3, 6mm (1 cement : 3 fine sand) etc. complete as directed by Engineer-in-charge.**	17.00	Sq.m	43.00	731.00
17	Finishing the top of the concrete flooring in CM 1:3, 15mm thick including neat finishing, curing etc. complete as directed by Engineer-in-charge.**	132.00	Sq.m	103.30	13,635.60
18	Flooring in 25 mm thick using 1:3 (1cement : 3 parts of granite stone chips of 3 to 10 mm guage (no sand) ellies pattern first sort including neat finishing, curing, cost of materials etc.; complete. **	550.00	Sq.m	130.40	71,720.00
19	Flooring in 25 mm thick using 1:1 granolithic flooring in 25 mm thick (1 cement : 1 parts of granite stone chips of 3 to 10 mm guage (no sand) ellies pattern first sort including neat finishing, curing, cost of materials etc.; complete. **	330.00	Sq.m	42.00	13,860.00
20	Fixing Chowkhat in existing opening in brick / RCC wall with dash fastners of appropriate size / chemical fastener (3No.s on each vertical member of door chowkhat and 2 No.s on each verticle member of window 1.20m height as per CPWD specifications including cost of dash fasteners / chemical fastners etc. complete as directed by Engineer-in-charge.	11.00	Each	81.05	891.55
21	Providing and fixing 16mm MS Fan Clamps of standard shape and size in existing RCC slab including cutting chase and making good and painting exposed portion of the clamps etc. complete as directed by Engineer-in-charge.	8.00	Each	113.85	910.80

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
22	Reinforcement for R.C.C. work including straightening , cutting, bending, placing in position and binding all complete by cold twisted bars etc. complete as directed by Engineer-in-charge. (BHEL will issue Tor Steel at BHEL stores on free of cost).	1.10	M.T	4,003.00	4,403.30
23	Dismantling the broken RCC covers and casting and fixing with new cable trench covers with reinforced cement concrete 1:1.5:3 using 20 mm and down graded metal including the cost of cutting, welding of angle iron frame, sprinkling of ironite at 2 Kgs/sq.m. and neat finishing excluding the cost of angle iron and M.S. reinforcement (Angle iron will be supplied by BHEL at BHEL stores and M.S. rounds on cost recovery basis under separate item by BHEL at BHEL stores). Thickness of covers will be varying from 75 mm to 100 mm etc. complete as directed by Engineer-in-charge.**	44.00	Sq.m	237.76	10,461.22
24	Granolithic topping of 25 mm thick using 1 cement 1 granite chips of 10mm down graded laid over base concrete when it is green conditions and ironite finishing 12mm thick using a mix of 50Kg of ironite, 200 Kg of cement and 0.30 Cu.m of granite metal 6mm down graded including cost of from work, curing etc. complete as directed by Engineer-in-charge.**	8.50	Sq.m	295.50	2,511.75
25	Plastering over roof slab in CM 1:4, 20mm thick mixed with water proofing compound, Make: "Sika" @ 3% by weight of cement as per manufacturer's specification, curing as directed. Rate quoted shall include finishing, cost of all materials and labour etc. complete as directed by Engineer-in-charge. (Cement =7.69 kgs/sq.m x3% WP@ Rs 20.00 per kg=Rs 4.61) upto 10 m height.**	550.00	Sq.m	81.30	44,715.00
26 a	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacture) 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 @ 3.3 Kg per Sq.m including painting in white cement mixed with pigment of matching shade etc. complete as directed by Engineer-in-charge.**	165.00	Sq.m	556.80	91,872.00
b	Providing and Laying ceramic glazed floor tiles 300 X 300 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 20mm thick cement mortar 1:4 (1cement : 4 Coarse sand) including pointing the joints with white cement and matching pigments etc. complete as directed by Engineer-in-charge.**	110.00	Sq.m	598.65	65,851.50

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
27	Supplying and laying of vitrified tiles of brighter shades and marble design of Premium Quality (1st quality) in required texture, design and colour, for flooring /skirting /cladding using vitrified tiles of size 600 x 600mmx8 mm thick of approved make. It includes cost of cutting, champering of tiles to required size, with base of Conmax C - 500 tile adhesive for fixing tiles on existing mosaic/cement flooring, jointing the tiles with colour tint etc. complete as directed by Engineer-in-charge. The rate quoted shall include cost of all materials, labour, adhesives, colour tint material, leads and lifts etc. complete. Amount will be paid on the basis of measurement of the area of finished work only. It also includes surface preparation of existing ceramic floor giving necessary slopes, cleaning joints and grouting joints with pigmented additives to match shade of the tile, making pockets for electrical, communication, network cables etc. complete as directed by Engineer-in-charge.**	110.00	Sq.m	950.00	1,04,500.00
28	Providing and fixing 10mm thick acid and alkali resistant tiles of approved make and colour using acid and or alkali resisting mortar bedding and joints filled with acid and or alkali resisting cement as per IS:4457 complete as per the directions of Engineer-in-charge in flooring on a bed of 10 mm thick mortar 1:4 (1acid proof cement : 4 coarse sand) with acid and alkali resistant tile etc. complete as directed by Engineer-in-charge. Including cement motor CM (1:4) to required depth.	220.00	Sq.m	873.00	1,92,060.00
29	Supply & fixing 10 mm thick best quality approved colour and design machine cut granite tiles of size 600 mm x 300 mm with mirror polished granite stone for flooring, platforms, cladding, vanity counter Facia etc. and for any other locations including cutting, champering, rounding and mirror polishing etc. complete as directed. Cost of the granite shall be Rs. 650/- per sq. m and tiles will be selected by department within the above specified cost. Including cement motor CM (1:4) to required depth.	55.00	Sq.m	810.00	44,550.00
30	Supply & fixing of 18 mm thick best quality Jet Black colour machine cut mirror polished granite slabs in required sizes for counter wash basins, floorings, vanity counter, claddings, facias etc. including cutting, champering, rounding and mirror polishing etc. complete as directed. Cost of granite slabs shall be Rs. 1600/- per Sq. m and granite slabs of required design and colour will be selected by department etc. complete as directed by Engineer-in-charge. Including cement motor CM (1:4) to required depth.	55.00	Sq.m	3,070.92	1,68,900.60

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
31	Supply of JCB for levelling the surplus earth debris heaps located at various locations in factory area, as directed by Engineer-in-charge. The JCB should work minimum 8 machine hours per day. Rate includes all charges like fuel, hire charges etc. complete as directed by Engineer-in-charge.	264.00	One M/c Hour	750.00	1,98,000.00
	Total			₹	18,66,668.32
	Add increase in Vat 1% over the material cost (70% of contractor scope)			₹	13,066.68
	Total value of work			₹	18,79,735.00
Total : ₹ Eighteen lakhs seventy nine thousand seven hundred thirty five only					

Note: ** The cement, Reinforcement steel will be issued by BHEL on free of cost at BHEL stores.

1	A penalty of 0.5% of the gross value of work will be levied for every week's delay of work or part there of subject to a maximum penalty of 10% of the gross value of work executed after the period of completion.
2	The rates are inclusive of all taxes and duties except Service tax, which is extra as per service tax norms will be paid by BHEL to the agency after submission of necessary documents.

Note : The bidders are required to quote the tender value on percentage (%) basis at excess or less or on par with estimate value in figures and words.

Tender %	In figure	In words
Excess		
Less		
Estimated value		