

Issued to:



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

SCHEDULE - A**PRICE BID****Tender notice No:HY/FCD/OT-13/09-10****Dt: 12.10.2009****Item no: 4**

Name of the Work:- Construction of new Sub-contract workstation yard(300mX30m) and associated works in Factory area

SNo	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
1	Earth work in excavation in all soils 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.	7341.00	Cu.m	103.40	759059.40
2	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).	643.00	Cu.M	325.25	209135.75
3	Filling with 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 50.00 m and lift upto 1.50 m.	1085.00	Cu.m	45.70	49584.50
4.a	Conveyance of excavated spoil up to a lead of 2 Kms, including loading , unloading and spreading etc. complete as directed by Engineer- in- charge.	6570.00	Cu.M	56.41	370613.70
b	Extra for Conveyance of excavated spoil beyond a lead of 2 Kms and up to a lead of 3 Kms, including loading , unloading and spreading etc. complete as directed by Engineer- in- charge.Additional to 9.a	2300.00	Cu.M	6.91	15893.00
5	Brick work with FPS bricks of class designation 75 in superstructure above plinth level up to ground floor in all shapes and sizes in cement mortar 1:6.	205.00	Cu.m	2357.40	483267.00

SNo	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
6	Coursed rubble masonry in second sort with hard stone in foundation & plinth with cement mortar 1:6 (1 cement : 6 coarse sand) (Extra for compound wall 0.6x0.8x225 Cu-m)	354.00	Cu-m	1913.10	677237.40
7	Providing raised and cut Pointing to CRS walls with cement mortar 1:3 (1 cement : 3 fine sand).	315.00	Sq.m	112.00	35280.00
8	Providing , hoisting and fixing a up to floor five level precast reinforced cement concrete post including setting in cement mortar 1:3 (1 cement : 3 Coarse sand), cost of required centering and shuttering and finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces but excluding the cost of reinforced with 1:1½ :3 (1 cement : 1½ coarse sand : 3 graded stone aggregate)- For DSL posts	32.00	Cu.m	5243.25	167784.00
9	Providing and laying in position concrete of specified grade excluding the cost of centering and shuttering including consolidation by vibrations for all works up to plinth level with 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate of 20 mm nominal size).	1020.00	Cu.m	2449.00	2497980.00
10a	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 with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) -	110.00	Cu.m	3359.60	369556.00
10b	Providing and laying in position ready mix concrete manufactured in fully automatic batching plant and transported to site of work in transit mixer for a lead up to 25 KM having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work including pumping of R.M.C from transit mixer to site of laying, excluding the cost of centering, shuttering finishing and reinforcement including cost of admixures in recommended proportions as per ID: 9103 to accelerate/retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer-in-charge. M 20 grade Reinforced cement concrete by using 320 kgs of cement per cu.m of concrete. All works upto floor V level.	800.00	Cu.m	3886.00	3108800.00

SNo	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
11	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering ,shuttering, finishing and reinforcement ,including consolidation by vibrations for all works up to plinth level with 1:1½ :3 (1 cement : 1½ coarse sand : 3 graded stone aggregate of 20 mm nominal size)	1025.00	Cu.m	3732.00	3825300.00
12	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 form work , curing etc. complete.	9000.00	Sq.m	428.50	3856500.00
13	Centering and shuttering including strutting, propping etc; and removal of form work, for columns, pillars,peirs,abutments,machine foundations, posts and struts.	5610.00	Sq.m	180.40	1012044.00
14	Reinforcement for R.C.C. work including straightening , cutting , bending , placing in position and binding grills with binding wire all complete by cold twisted bars.	67.50	MT	42700.00	2882250.00
15.a	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 -Upto 10.00 M level.	1280.00	Sq.m	95.10	121728.00
b	Cement Plaster to ceiling / internal walls with 12mm thick cement plaster finished with a floating coat of neat cement of mix 1:3 (1 cement : 3 fine sand) .	50.00	Sq.m	107.80	5390.00
16	Applying exterior emulsion paint 2 coats to external new plastered surfaces including curing etc., over a coat of primer (paint will be issued free of cost by BHEL at their stores).	1280.00	Sq m	28.20	36096.00

SNo	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
17.a	Fabrication of structural steel work including all materials going into the process of fabrication and forming and integral form of steel work together with all shop and site rivets and electrodes for site welding as necessary and all site connections comprising sag rods, floor beams, girders, bracings, trusses and frame work for fixed false ceiling and for movable false ceiling, purlins with channel / angles, MS flat supports including all connections as per detailed drawings connected steel works etc., cleats, gusset plates, all bolts, nuts, washers, base plates, anchor bolts as per detailed drawings, cutting, welding and painting 2 coats of red-oxide primer before erection etc., complete. The rate shall include painting 2 coat of Red-oxide as per IS specifications and all charges for handling, leading and loading at the fabrication yard. The rate includes cost of electrodes, gasse etc., The raw structural steel sections will be issued FREE of cost at BHEL stores.	26.00	MT	8805.00	228930.00
b	Erection of Steel work out lined in item No.17a above including the charges for handling, leading and stacking at site at approved locations prior to erection including all site rivetting, bolting, jointing and site welding where ever required.	26.00	MT	3774.00	98124.00
c	Painting at site of all structural steel work with 2 coats of aluminium paint / synthetic enamel paint of approved shade to trusses, columns, girders, bracings etc., with aluminium paint or synthetic enamel paint as required etc., complete. The required paint only will be issued free of cost by B.H.E.L at their stores.	26.00	MT	596.50	15509.00
18	Erection and fixing to line, level and grade CR 52 kg/m Rail at floor level including supplying and fixing of special clamps, nuts washers etc., complete all as per drawings. Only special clamps for 52 kg Rail and crane rails will be issued free of cost by B.H.E.L at their stores. Special clamps and bases shall be welded at 450 mm centre to centre to approximately to the crane girders after aligning the rail. Alignment of crane rail shall be as per BIS code of practice (7215 / 1974). The rail shall be welded with suitable electrodes and shall conform to BIS specifications. The agency shall procure him self the electrodes specially required for welding the rail.	31.00	MT	6000.00	186000.00

SNo	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
19	Dismantling brick masonry walls for all heights, removing and clearing the debries and carting away upto to lead of 2 KM including loading, unloading and spreading segregating useful materials as directed by Engineer-in-charge including the cost of all labour scaffolding etc., complete.	235.00	Cu.m	355.88	83631.80
20	Fabrication and fixing inserts in concrete wall with lugs of required dia welded to the insert plates.(St. Steel,electrodes and gas required for work will be issued on free of cost by BHEL at their stores)	13.00	MT	3500.00	45500.00
21	Dismantling steel work in built up sections in angles tees, flats and channels including all guest plates, bolts, cutting rivets, welding etc., including dismembering and stacking within 50 metres lead.The steel sections like trusses columns etc should be dismantled in such a manner so that it can be reused wherever required as directed by Engineer -in-charge.	27.00	MT	890.11	24032.97
22	Dismantling reinforced cement concrete / plain cement concrete and disposing of debries upto to a lead of 2 KM including loading, unloading and spreading as directed by Engineer-in-charge etc., complete.	100.00	Cu.m	582.68	58268.00
23	Removing of corrugated / semi corrugated, A.C sheets including North Light curves barge boards etc., in roof, sides, gable ends, louvers etc., and stacking the materials carefully for re-use wherever required.	300.00	Sq.m	41.60	12480.00

SNo	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
24	Grass cutting / jungle clearce including cutting the small trees / bushes / shrubs including, uprooting and cleaning the site etc., complete all as directed by Engineer-in-charge.	9070.00	sq m	1.36	12335.20
25.a	Removal of waste product loading into the vehicle and unloading the same at specified yards as directed by the Engineer-in-charge. The vehicle shall be weighed before and after loading for each trip at BHEL weigh bridge. The rate quoted shall include cost of hire charges of vehicle, labour, tools, safety equipment etc., complete. Payment will be made against the weight of the materials disposed: - for wood scrap	20.00	MT	508.00	10160.00
b	do -for MS scrap including MS packing strips etc.	40.00	MT	381.00	15240.00
c	do -for garbage , including oil soaked cotton waste, dry packing grass, packing cartoons and waste papers etc.	40.00	MT	655.00	26200.00
26	Dismantling manually /by mechanical means including stacking of serviceable material and disposal of unserviceable material within a lead of 50 m as directed by Engineer-in-charge- for bituminous road	100.00	Sq.M	66.30	6630.00
27.a	Felling trees of the girth (measured at a height of 1m above ground level) including cutting of trunks and branches removing the roots and stacking of serviceable materials and disposal of unserviceable materials - upto 1.20 M	2.00	Each	359.80	719.60
b	---- upto 2.40 m---	2.00	Each	1658.85	3317.70
28	Preparation of subgrade by excavation earth to an average of 22.5 cm , dressing to camber and consolidation with road roller including making good the undulations etc. and disposal of surplus earth lead upto 50 m .	1880.00	Sq.m	33.90	63732.00
29	Supply and stacking of graded stone aggaregate at site of size range of 63 mm to 45 mm in two layers of 100 mm thick.	376.00	Cu.m	768.45	288937.20

SNo	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
30	Supply and stacking of morrum at site.	125.00	Cu.m	421.85	52731.25
31	Laying water bound macadam 100 MM consolidated thickness with stone aggregate , stone screening and blinding material including screening,sorting , spreading to template and consolidation with power road roller of 8 to 10 tonne capacity etc., complete.-base course with 63 mm to 45 mm size including stone screening 13.20 mmm size.(Payment for stone aggregate, screening and murrum are to be paid separately)	510.00	Cu.m	192.55	98200.50
32	Providing and applying tack coat using bitumen emulsion (Rapid Setting) complying with IS 8887-1995, spraying the bitumen emulsion with mechanically operated spray unit, cleaning and preparing the existing road surface as per specifications.On WBM surface @ 0.40 Kg/Sq. m .	1880.00	Sq.m	18.00	33840.00
33	Providing and Laying premix bituminous macadam base course with stone aggregate of quality size and grading as specified in CPWD specification and straight run bitumen of grade 80/100 @ 4 % by weight of total mix including hot mixing of stone aggregate and bitumen in hot mix plant, transporting mixed material and laying mixed material with paver finisher to the required level and grade , rolling with road roller of 8 to 10 tonne capacity to achieve the required compaction and density of 50 mm compacted thickness.	1880.00	Sq.m	219.75	413130.00
34	Supply and fixing steel windows of approved make including supply and fixing 4 mm thick plain glass with best quality putty, MS handles and peg stays including painting with two coats of synthetic enamel paint over one coat of red oxide paint including supplying and fixing weld mesh 50 x 50 mm (8G x 8 G).The window section and fabrication shall confirm to I.S. 1038.Approx size of windows 1.5mx1.5m	9.00	Sq.m	1900.00	17100.00

SNo	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
35	Supplying and fixing of GI barbed wire of 12 gauge,9.38 kg per100m (minimum) between two post fitted and fixed with G.I. staples ,turn buckles etc complete,2 ply to the fencing poles all as directed by the Engineer –in-charge. Measurement will be made for RMT of each row of the barbed wire.	1800.00	R M	8.45	15210.00
Total:					22293457.97

Rupees : Two Crore twenty two lakhs ninety three thousand four hundred fifty eight only.

Service Tax:- The Service tax as applicable is extra which will be paid by BHEL to the agency after submission of necessary valid documents by the agency.

Note : The Tenders are required to quote the tender value on percentage (%) basis at excess or less or on as per estimate value

Tender %	In figure	In words
Excess		
Less		
Estimated Rate only		

Name of the Contractor :

Signature of the Contractor

Accounts Representative

Opening officer