



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

SCHEDULE- A

Tender Notice No:

HY/FCD/OT-34/14-15, Dt: 01.12.2014

PRICE BID

Item no.: 1

Name of work: Providing foundation for Weigh-in-Motion system.

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
	Part-A: Civil Works				
1	Dismantling reinforced cement concrete / plain cement concrete and disposing of debries upto a lead of 2 KM including loading, unloading and spreading as directed by Engineer-in-charge etc., complete.	56.00	Cu.m	582.68	32,630.08
2	Earth work in excavation in all soils by mechanical means (Hydraulic Excavators) / manual means in foundations trenches or drains 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.	16.00	Cu.m	103.40	1,654.40
3	Providing and laying in position cement 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). Only cement will be issued by BHEL on free of cost at their store.	23.00	Cu.M	1,560.50	35,891.50
4	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).	50.00	Cu.M	1,641.30	82,065.00
5	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.(Reinforcement steel will be supplied by BHEL on free of cost at their stores)	4.00	M.T	4,003.00	16,012.00
6	Centering and shuttering including strutting, propping etc.; and removal of form work, for foundations, footings, bases of columns etc. for mass concrete- up to plinth level.	84.00	Sq.m	119.25	10,017.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
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.	11.00	Cu.M	56.41	620.51
8	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.(Cement only will be issued on free of cost by BHEL)	210.00	Sq.m	203.44	42,722.40
9	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.	5.00	Cu.M	45.70	228.50
10	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)	0.50	MT	2,685.49	1,342.75
11	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 - 150mm dia R.C.C pipe.	20.00	RM	202.85	4,057.00
12	Construction of brick masonry chamber of dimension 0.914 x 0.457 x 0.914 m (3' x 1'6" x 3') with brick in CM 1:6 including plastering over both sides with CM 1:4, 20 mm thick and fitted with light weight CI frame and cover of size 0.914 x 0.457 m in CM 1:4 including bed concrete of CC 1:4:8 as required, supplying and fixing one CI steps in brick masonry if necessary if necessary including earth work excavation in all soils, refilling around the chamber removing the surplus earth etc. complete as directed.CI frame and cover of 40 kgs.	1.00	Each	2,742.00	2,742.00
13	Making connection of drain or sewer line with existing manhole including breaking in to making good the walls, floors with cement concrete 1:2:4 mix(1 cement:2 coarse sand: 4 graded stone aggregate) cement plastered on both sides with CM 1:3 finished with a floating coat of neat cement and making necessary channel for drain etc. complete. For pipes 100 to 230 mm diameter	1.00	Each	164.30	164.30
	Total of Part-A			₹	2,30,147.44

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
	Part-B: Electrical Works				
1	Supply and Erection of Special Earth pits for Electronic Earthing with 600X600X6 mm Tinned Copper Plate. 50mm dia 2600mm long GI Pipe with holes of 1/4" dia at 4" apart at random & 2nos 25X6, 2600mm long tinned copper flat material as per drawing. The Work including the supply of material for alternate layers of charcoal (75 Kgs), salt (150 kgs) and making RCC/Brick Chambers with MS/Cast Iron Cover. Contractor shall dig 300mm depth and 200mm width trench in the soil for laying the Copper Cable from Earth Pit Electrode to Equipment.	1.00	Nos	22,140.00	22,140.00
2	a) Supply and fixing of 250V, 20/16 Amps Power Socket cum switch Roma Type code 21124 and 21066 of Anchor make or North West. Fixed on suitable modular type concealed box top cover. Testing & commissioning.	2.00	Nos	434.60	869.20
3	b) Supply and installation of concealed / surface PVC/MS Pipe wiring with 2.5 Sq. mm PVC insulated copper wire multistrand of make Finolex / Radiant / Finecab / Havells / L&T. The wiring point for 20/16 Amps power socket including 14 G / 1.5 Sq.mm green color copper wire for earth continuity. Independent circuit for each socket from power MCB Distribution board (As per IS for wiring point) Testing and commissioning. The wiring should not be mixed with lighting pipe wiring and it should be run separately in the room / shed at a height of 2 feet from the ground level or as per site engineers instruction.	2.00	Pts	1,408.76	2,817.52
4	c) Supply and fixing of 3Pin, 250V 10 Amps power socket cum switch with indication Roma Type code 21113 and 21033 of Anchor make or North West. Fixed on suitable Modular type concealed box top cover. Testing & Commissioning.	2.00	Nos	356.70	713.40
5	d) Supply and execute the concealed / surface PVC/MS Pipe wiring with 1.5 Sq.mm 660 / 1100V Grad. PVC insulated copper wire multi strand of make Finolex / Radiant / Finecab / Havells / L&T. In PVC Pipe of suitable dia (As per IS for wiring points) with 14 G / 1.5 Sq.mm green colour copper wire for Earth Continuity. Each Light / Fan point should be connected to three plate ceiling rose code 30090 of Roma Modular type of Anchor or North West make / connector suspended duly with conduit / PVC Pipe etc., Each circuit should not have more than 7 points or 700 Watts.	2.00	Pts	952.84	1,905.68

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
6	e) Supply and laying of PVC Conduit pipe of 1.5 mm thickness 1" dia with necessary clamps, couplers, bends, junction boxes at every 3.6 mts. The conduit shall be laid concealed / surface for drawing telephone cables and also be laid in building slab for lighting circuits as per the site engineer's instruction.	50.00	Mts	27.06	1,353.00
7	Shifting and laying of LT power PVC armoured aluminium cable including Dressing				
	a) 4C X 16 / 10 / 6 / 4 Sq.mm	50.00	Mts	9.84	492.00
8	Shifting and laying of LT copper power cable including Dressing				
	a) 1C X 70 Sq.mm	30.00	Mts	9.84	295.20
9	Power cable termination including supply of cable glands & lugs(Copper/Aluminium).				
	a) 4C X 16 / 10 / 6 / 4 Sq.mm	16.00	Nos	194.34	3,109.44
10	LT Copper Power cable termination including supply of cable glands & lugs(copper).				
	a) 1C X 70 Sq.mm	2.00	Nos	158.26	316.52
	Total of Part-B			₹	34,011.96
	Total Value of work			₹	2,64,159.40
Total : ₹ Two lakhs sixty four thousand one hundred fifty nine and forty paise only					

Note:

1	A penalty of 0.50 % of the gross value of work will be levied for every week's or part thereof delay in execution of work by the agency, subject to a maximum penalty of 10 % of gross value of the total work executed.
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		