



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

SCHEDULE- A

Tender Notice No:

HY/FCD/OT-02/17-18, Dt: 05.06.2017

PRICE BID

Item no.: 1

Name of work:- Civil works for compact substations 1000KVA - 6 nos. at different locations.

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
	Part-A : Substation pedestal				
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 etc. complete all as directed by Engineer-in-charge.	125.00	Cu.m	130.80	16,350.00
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) etc. complete all as directed by Engineer-in-charge.	55.00	Cu.M	490.10	26,955.50
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) etc. complete all as directed by Engineer-in-charge.	18.00	Cu.M	2,514.79	45,266.22
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) etc. complete all as directed by Engineer-in-charge.	110.00	Cu.M	2,674.98	2,94,247.80
5	Centering and shuttering including strutting, propping etc.; and removal of form work, for columns, pillars, piers, abutments, foundations, posts and struts etc. complete all as directed by Engineer-in-charge.	400.00	Sq.m	166.90	66,760.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
6	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 etc. complete all as directed by Engineer-in-charge.	7.15	M.T	7,369.00	52,688.35
	Part A Total			₹	5,02,267.87
	Part B: Cable Trench				
1	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 - Beyond 120 cm girth and upto and including 240 cm girth etc. complete all as directed by Engineer-in-charge.	2.00	Each	3,026.30	6,052.60
2	Removal of MS scrap including MS packing strips etc. and garbage collected in the dust bins inside Factory area and open areas as directed by the Engineer In Charge.	40.00	MT	429.13	17,165.20
3	Dismantling reinforced cement concrete / plain cement concrete and disposing of debris upto to a lead of 2 KM including loading, unloading and spreading as directed by Engineer-in-charge etc., complete.	63.00	Cu.m	1,054.10	66,408.30
4	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 etc. complete all as directed by Engineer-in-charge.	878.00	Cu.m	130.80	1,14,842.40
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 all as directed by Engineer-in-charge.	96.30	Cu.M	490.10	47,196.63
6	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) etc. complete all as directed by Engineer-in-charge.	38.00	Cu.M	2,514.79	95,562.02

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
7	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) etc. complete all as directed by Engineer-in-charge.	149.00	Cu.M	2,674.98	3,98,572.02
8	Centering and shuttering including strutting, propping etc.; and removal of form work, for columns, pillars, piers, abutments, foundations, posts and struts etc. complete all as directed by Engineer-in-charge.	1,027.20	Sq.m	166.90	1,71,439.68
9	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 etc. complete all as directed by Engineer-in-charge.	7.44	M.T	7,369.00	54,825.36
10	Casting and placing in position of R.C.C cable trench covers of 65 mm thick in mix of 1:1.5:3 using 20 mm down graded metal including cutting, welding of Angle iron frame, cutting, bending and laying of MS Reinforcement, neat finishing and cost of labour, etc. complete as directed by Engineer-In-Charge. (MS angles, electrodes, Cement and MS Reinforcement only will be issued on free of cost by BHEL at BHEL stores).	256.80	Sq.m	346.50	88,981.20
11	Fabrication and fixing inserts in concrete wall with lugs of required dia welded to the insert plates. (Structural steel, electrodes and gas required for work will be issued on free of cost by BHEL at BHEL stores) etc. complete all as directed by Engineer-in-charge.	4.22	MT	3,500.00	14,770.00
12	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 - 450mm dia R.C.C pipe etc. complete all as directed by Engineer-in-charge.	36.00	RM	599.12	21,568.32
	Part B Total			₹	10,97,383.73
	Part:C: SHED				
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 etc. complete all as directed by Engineer-in-charge.	26.00	Cu.m	130.80	3,400.80

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
2	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) etc. complete all as directed by Engineer-in-charge.	5.00	Cu.M	2,514.79	12,573.95
3	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) etc. complete all as directed by Engineer-in-charge.	95.00	Cu.M	2,674.98	2,54,123.10
4	Centering and shuttering including strutting, propping etc.; and removal of form work, for columns, pillars, piers, abutments, foundations, posts and struts etc. complete all as directed by Engineer-in-charge.	96.00	Sq.m	166.90	16,022.40
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 etc. complete all as directed by Engineer-in-charge.	6.18	M.T	7,369.00	45,540.42
6	Fabrication of structural steel work including all materials going into the process of fabrication and forming an integral part 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 raw structural steel sections, electrodes, gasses will be issued by BHEL on FREE of cost at their stores etc. complete all as directed by Engineer-in-charge.	16.36	MT	8,916.00	1,45,865.76
7	Erection of Steel work out lined in item No.6 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 etc. complete all as directed by Engineer-in-charge.	16.36	MT	3,821.00	62,511.56

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
8	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 BHEL stores etc. complete all as directed by Engineer-in-charge.	16.36	MT	696.00	11,386.56
9	Supply and Fixing of non colour coated aluminium zinc alloy coated metallic hirib profile sheet of nominal 1015-1020mm effective cover width and 28-30 mm deep ribs with subtle square fluting in the five pan at nominal 202-205mm centre-to-centre. The end rib shall be designed for anti-capillary action, to avoid any seepage of water through the lateral overlap. The feen material is manufactured out of nominal 0.45mm base metal thickness (BMT) or 0.5 mm TCT, Hi-Strength steel with minimum 550 MPa yield strength metallic hot dip coated with aluminium - Zinc alloy (55 % Aluminium ,45 % Zinc)as per AS 1397-Zincalume AZ150 (Min 150 Grams / Sq.Mt) Total on both sides) with colour bond steel quality paint coat as per AS/NZS 2728 type 3-4.The paint shall have a total coating thickness of nominal 35 µm, Comprising of nominal 20µm exterior coat on top surface and nominal 5 µm reverse coat on back surface over nominal 5µm primer coat on both surfaces of approved colour shade by concern authority. The plane sheet width shall be 1220 mm.The steel manufactures test certificate for the certificate for the chemical and mechanical properties of steel must be submitted for approval by the engineer-in-charge.	550.00	Sq.m	607.72	3,34,246.00
	Part C Total			₹	8,85,670.55
	Total value of work (Part A + Part B + Part C)			₹	24,85,322.15

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
Note:					
1	BHEL estimate rates are excluding VAT/service tax etc.				
2	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.				
3	Taxes: Bidders shall quote their Basic price exclusive of taxes. The applicable taxes on supply of material or services, as the case may be viz., VAT/Service Tax/GST shall be quoted separately, clearly showing the Service Code/Tariff Head, Rate of Tax and Amount of Tax in the Bid. The reimbursement of taxes to the contractor is contingent upon fulfilment by the contractor of all statutory provisions as stipulated in the relevant taxation statute enabling BHEL to avail the eligible input tax credits. TDS at the rates prescribed under Income Tax Act shall be deducted from the payments due to Contractor and BHEL shall issue the necessary TDS Certificates for such deductions made.				
4	The tender % age quoted by the contractor shall be inclusive of all taxes and duties other than service tax as applicable from time to time.				
5	All the bills of the contractors will be cleared subject to the production of clearance certificate by the contractors in respect of compliance of all statutory requirement, issued by IR section of HR department BHEL.				
6	The agency shall submit the I.R. clearance certificate for the above work and arrange to get the final bill sent to Finance within one month from the actual date of completion of work.				
7	The maintenance period of the work is 12 months . The security deposit will be released after satisfactory completion of the work and after getting I.R clearance and payment of final bill.				
8	The agency has to pay the minimum wages to workers with statutory payments like ESI, PF etc., is as per BHEL notification and as per NIT. For USW=₹ 500.80, SSW=₹ 553.15, SW = ₹ 604.96 + ESI + PF + PPE's and other statutory if any increase in future DA is to be borne by the agency.				
9	The agency has to bring police clearance certificate for the work force.				
10	All the terms and conditions of the contract with respect to taxes & duties are subject to the new taxation laws introduced from time to time (e.g. GST). The terms and conditions will be modified in accordance with the provisions of new laws (e.g. GST).				
11	The work will be awarded to L1-60% +or- 3% (i.e., 4 sub stations) L2-40% +or- 3% (i.e., 2 sub stations). If L2 agrees with L1 rates otherwise 100% work will be awarded to L1 agency.				

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		