

BHARAT HEAVY ELECTRICALS LIMITED
RAMACHANDRAPURAM :: HYDERABAD - 32
TOWNSHIP ADMINISTRATION / ELECTRICAL DEPARTMENT

Tender No.: HY/TA/OT-02/2012-13
Date : 21.04.2012
Item No.: 04

SCHEDULE - 'A'

MODIFICATION WORKS IN TOWNSHIP MRS, INSTALLATION OF NEW BREAKER PANELS AND LAYING OF CABLES.

Sl. No.	Nature of work	Unit	Qty	Rate	Amount
(1)	(2)	(3)	(4)	(5)	(6)
PART-A : CIVIL WORKS					
PREPARATORY WORKS					
1	Labour charges for removing of chain link meshes and angles and re-fixing the same at required places including cost of cutting, welding, painting with 2 coats of red oxide and 2 coats of enamel paint etc.; all complete as directed by Engineer-in-charge. <i>Approx. size of mesh : 9m (L) x 2m (H)</i>	One Opern	1.00	1,500.00	1,500.00
2	Dismantling brick work in cement mortar manually / by mechanical means including stacking of serviceable materials and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.	One Cum	5.50	566.60	3,116.30
3	Labour charges for removing and re-fixing door (1m x 2.5m) at required places all as directed by Engineer-in-charge.	One Opern	1.00	300.00	300.00
4	Demolishing cement concrete of 1:3:6 or richer mix manually / by mechanical means including disposal of materials within 50 metres lead as per direction of engineer-in-charge.	one cum	0.20	671.05	134.21
5	Brick work in CM 1:6 using ground moulded bricks for all thicknesses of walls including curing, cost of all materials etc. complete all as directed by Engineer-in-charge.	One Cum	11.50	3,316.55	38,140.33
6	Plastering in cement mortar 1:6, 20 mm thick including curing, cost of all materials etc., complete all as directed by Engineer-in-charge.	One Sqm	92.00	156.15	14,365.80
7	Applying two or more coats of white washing with lime on plastered works to give an even shade including cost of all materials etc. complete all as directed by Engineer-in-charge.	One Sqm	92.00	7.05	648.60
MODIFICATION TO EXISTING TRENCH					
8	Demolishing R.C.C work manually / by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-Charge.	one cum	1.60	978.95	1,566.32
9	Earth work in excavation all kinds of soils by mechanical means (Hydraulic excavation) / manual means over areas exceeding 30 cm indepth including disposal of excavated earth, lead up to 50m and all lift, disposed earth to be levelled and neatly dressed for all kinds of soil etc. complete all as directed by Engineer-in-charge.	One Cum	6.00	129.35	776.10

Sl. No.	Nature of work	Unit	Qty	Rate	Amount
(1)	(2)	(3)	(4)	(5)	(6)
10	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level. 1:5:10 (Cement : coarse sand : graded stone aggregate 40mm nominal size of machine crushed) including curing and cost of all materials etc. complete all as directed by engineer-in-charge.	One Cum	1.00	3,087.45	3,087.45
11	Providing and laying in position Reinforced cement concrete of grade 1:1.5:3 (cement : coarse sand : graded stone aggregate 20mm nominal size) including cost of curing etc.complete all as directed by Engineer-in-charge.	One Cum	2.00	5,094.85	10,189.70
12	Providing MS reinforcement including cutting, bending and binding of rods, tying grills, conveyance and placing of reinforcement in position, cost of steel, binding wire and all handling charges etc., complete.	One Kg	250.00	62.25	15,562.50
13	Providing Steel / Plywood shuttering with necessary oil coat to give smooth and even surface including centering , strutting , propping etc. and removal of form work for cast in situ concrete etc. complete all as directed by Engineer-in-charge.	One Sqm	22.00	311.20	6,846.40
14(a)	Supply of structural steel as follows: MS angle (50x50x6) : 15 metre MS channel (100x50x5) : 30 metre	One Kg	360.00	42.50	15,300.00
14(b)	Labour charges for fabricating & fixing of structural steel as above in required sizes including cost of cutting, welding, painting with 2 coats of red oxide and 2 coats of enamel paint etc.; all complete as directed by Engineer-in-charge.	One Kg	360.00	12.00	4,320.00
PART-B : INSTALLATION OF PANELS					-
15	Shifting, Assembly, Erection and Commissioning of 11KV, 1250 A, VM-12 , BHEL make, Indoor type VCBs. The VCBs shall be suitably erected on the trenches. The job includes primary injection, secondary injection and testing of relays mounted on VCB panels. <i>Approx. size of each panel : 820(W) x 1831(L) x 2692(H) mm.</i>	Nos.	11.00	15,000.00	165,000.00
16	Supply and fixing of all sizes nuts and bolts required for erection of the panels; complete all as directed by Engineer-in-charge.	Kg.	30.00	75.00	2,250.00
17	Supply, fixing and testing of heat shrinkable <u>indoor type cable end termination kit</u> suitable for 3-core, 95/120 sq mm XLPE Aluminium conductor cable, 11kV grade inclusive of all materials and lugs etc., complete all as directed by engineer in charge. (make : Raychem)	Nos.	10.00	6,450.00	64,500.00
18	Supply, fixing and testing of heat shrinkable <u>outdoor type cable end termination kit</u> suitable for 3-core, 95/120 sq mm XLPE Aluminium conductor cable, 11kV grade inclusive of all materials and lugs etc., complete all as directed by engineer in charge. (make : Raychem)	Nos.	10.00	8,187.00	81,870.00

Sl. No.	Nature of work	Unit	Qty	Rate	Amount
(1)	(2)	(3)	(4)	(5)	(6)
19	Labour charges for cutting & fixing of chequered plates (6mm thick) in required sizes including cost of cutting, welding, painting with 2 coats of red oxide and 2 coats of enamel paint etc.; all complete as directed by Engineer-in-charge. <i>(MS chequered plate will be supplied by BHEL free of cost)</i>	SqM	6.50	733.20	4,765.80
20	Providing Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories and watering pipe of 2.7 metre long etc. strictly as per IS: 3043, The work includes supply of material for alternate layers of charcoal, salt and making RCC/brick chambers with MS/cast iron cover with locking arrangement; complete all as directed by Engineer-in-charge.	1 set	2.00	8,559.00	17,118.00
21	Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia G.I. pipe from earth electrode including connection with G.I. nut, bolt, spring, washer excavation and re-filling etc. as required.	metre	30.00	364.00	10,920.00
22	Dismantling of the existing OCB panels without damaging & Removing of existing cables from MRS and shifting to the identified place (not more than 300 metres distance) without damage; complete all as directed by Engineer-in-charge. -- A total of 8 nos. of panels to be dismantled. -- Approx. 12 nos of 95 Sq.mm HT cable of each 50 metres length.	1 set	1.00	60,000.00	60,000.00
PART-C : EXTERNAL CABLE LAYING					-
23	Demolishing cement concrete of 1:4:8 or leaner mix manually / by mechanical means including disposal of materials within 50 metres lead as per direction of engineer-in-charge.	one cum	3.50	413.65	1,447.78
24	Dismantling of bituminous road 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.	Sqm	6.00	119.95	719.70
25	Providing, laying and fixing 250mm dia RCC pipe in ground complete with RCC collars, jointing with cement mortar 1:2 (1 cement : 2 fine sand) including trenching (0.75m deep) and refilling etc as required ; complete all as directed by Engineer-in-charge.	metre	8.00	394.00	3,152.00
26	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 11 KV grade of size upto 120 sq mm, in the existing masonry open duct as required; complete all as directed by Engineer-in-charge.	Metre	70.00	20.50	1,435.00
27	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 11 KV grade of size upto 120 sq mm, direct in ground including excavation of trench (0.5m width x 0.75m depth), sand cushioning, protective covering with shahabad stones and refilling the trench etc as required; complete all as directed by Engineer-in-charge.	Metre	320.00	213.00	68,160.00

Sl. No.	Nature of work	Unit	Qty	Rate	Amount
(1)	(2)	(3)	(4)	(5)	(6)
28	Laying of one number additional PVC insulated and PVC sheathed / XLPE power cable of 11 KV grade of size upto 120 sq mm, direct in ground in the same trench in one tier horizontal formation including sand cushioning, protective covering and refilling the trench etc as required; complete all as directed by Engineer-in-charge.	Metre	190.00	146.00	27,740.00
29	Providing and laying in position cement concrete of grade 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size) excluding the cost of centering and shuttering, including curing and cost of all materials etc. complete all as directed by engineer-in-charge.	One Cum	3.00	4,024.00	12,072.00
TOTAL		(Rupees six lakhs thirty seven thousand three and paise ninety eight only)			637,003.98

Note:- The tenderers are required to quote their tender value on %age basis at excess or less or on par with estimated value.

Tender (%)	Figures	words
Excess		
Less		
Estimate rate only		

Conditions :

1	A penalty of 0.5% of the gross value of work will be levied for every week's delay of work subject to a maximum penalty of 10% of the gross value of work.
2	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.
3	Service tax will be extra if applicable for this contract. Service Tax if paid by the contractor with respect to this work will be reimbursed by BHEL on production of documentary evidence for having paid the service tax by the contractor.
4	In case there is any difference in the quoted % age between figures and words, the resultant higher tender value will be taken for evaluation of tender priority and while awarding, lower tender value will be taken and this should be binding on the contractor.
5	The department reserves the right to cancel the work without assinging any reasons therefor.
6	Conditional offers are not acceptable.
7	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 BHEL-HR department.
8	The maintenance period of the work is 12 months from the actual date of completion of work. The security deposit will be released after satisfactory completion of the maintenance period.