



BHARAT HEAVY ELECTRICALS LIMITED

RAMACHANDRAPURAM :: HYDERABAD-32
TOWNSHIP ADMINISTRATION

TENDER DOCUMENTS (PRICE BID)

ANNUAL ELECTRICAL MAINTENANCE WORKS CONTRACT IN TOWNSHIP (GROUP-4).

Tender Notice : HY/TA/E/OT-04/2017-18, Dt. 26.12.2017

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1. Schedule - A : Schedule of rates and approximate quantities

NAME & ADDRESS OF TENDERER:

PHONE NO. : _____

E-mail : _____

SIGN. OF TENDERER

SCHEDULE - 'A'

ANNUAL ELECTRICAL MAINTENANCE WORKS CONTRACT IN TOWNSHIP (GROUP - 4)

Sl. No.	SAC Code	Nature of work	Unit	Qty.	Rate	Amount (Rs.)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
		GROUP-4 (HT/LT Lines, cables & street lights)				-
						-
1	995468	Transportation & Erection of Heavy Duty RCC pole of length above 8.0m and upto 11.0m in brick ballast and ramming the foundation, finishing with 150mm thick cement concrete (1:3:6) layer on top including excavation and refilling etc as required; complete all as directed by Engineer-in-charge.	Each	25	2,723.76	68,094.11
2	995469	Dismantling of pole / street light standard / strut embedded in cement concrete foundation etc. as required; complete all as directed by Engineer-in-Charge.	Each	25	859.00	21,475.00
3	995468	Supplying and erection of stay set complete (galvanised) with 19/20 mm dia X 1.8 metres long stay rod, anchor plate of size 45 cm X 45 cm X 7.5 mm, thimble, stay clamps, turn buckle (20 mm X 60 cm), 7/ 3.15 mm dia G.I. stay wire and strain insulator etc in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling etc. as required; complete all as directed by Engineer-in-charge.	Each	10	2,996.90	29,968.99
4	995468	Supply & erection of MS plain ended swaged tubular pole [specifications as per IS 2713 -1980, 410 SP25] of 8.50m length, in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling etc. as required. The pole shall have single arm arrangement, junction box etc. and painted with primary coat of red oxide and black bituminous paint upto ground level with base plate; complete all as directed by Engineer-in-charge.	No.	5	7,820.71	39,103.54
5	995468	Supply & fixing of stay wire stranded galvanised of size 7/10 SWG as directed by engineer incharge	Mtr.	25	101.33	2,533.13
6	995468	Supply & stringing fixing in position, binding of GI guarding for road crossing with necessary cradle guard etc., as directed by engineer incharge.	Mtr.	35	94.57	3,309.95
7	995469	Supplying and erection of 75 mm X 90 mm shackle insulator for a working pressure of 1100V, with G.I. Bolt, nuts and straps etc. as required; complete all as directed by Engineer-in-charge.	Each	30	124.60	3,738.00
8	995469	Supplying and erection of 11 KV disc insulator for 11 KV over head lines with galvanised insulator fittings, ball and socket type and complete with galvanised strain clamps, bolts, nuts, washers etc. as required; complete all as directed by engineer incharge	Each	6	374.48	2,246.90
9	995469	Supply & erection of single run of ACSR conductor, 7/2.11mm diameter including binding wire on to the existing insulators; complete all as directed by Engineer-in-charge.	Mtr.	55	22.20	1,220.73
10	995469	Supply & erection of single run of ACSR conductor, 7/2.59mm diameter including binding wire on to the existing insulators; complete all as directed by Engineer-in-charge.	Mtr.	200	29.92	5,983.00
11	995469	Supply & erection of single run of ACSR conductor, 7/3.60mm diameter including binding wire on to the existing insulators; complete all as directed by Engineer-in-charge.	Mtr.	100	48.25	4,825.00
12	-	Supply & fixing of following sizes of copper flat / strips on surface or in recess for connections as required; complete all as directed by Engineer-in-charge.			-	-
(a)	995469	25mm x 5mm copper strip. (1.12 kg/m)	Metre	5	735.01	3,675.05
(b)	995469	50mm x 5mm copper strip. (2.24 kg/m)	Metre	5	1,379.33	6,896.66

Sl. No.	SAC Code	Nature of work	Unit	Qty.	Rate	Amount (Rs.)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
13	995469	Supply & fixing of HT side porcelain bushes for 250 kVA transformer should have test certificate as directed by engineer incharge.	Each	3	195.84	587.52
14	995469	Supply & fixing of LT side porcelain bushes for 250 kVA transformer should have test certificate as directed by engineer incharge.	Each	3	174.72	524.16
15	995469	Maintenance of signage board at main check post which includes servicing, cleaning, checking, rectification and replacement of cables / wires / LED drivers / boards etc., (required materials will be supplied by dept.). Providing of necessary safety equipment and taking safety precautions for the above operation is a must and sole responsibility of the contractor. The above operation to be completed as directed by engineering incharge.	operation	1	18,000.00	18,000.00
16	995469	Supply & fixing of timer switch type TSQ-100 of L&T make; complete all as directed by Engineer-in-charge.	Each	3	3,505.92	10,517.76
17	995479	Coping of poles in proper sloping above the foundation with cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 stone aggregate 20mm) of specified size and shape including form work, plastering if required, curing etc. as required; complete all as directed by Engineer-in-charge.	Cu.M	10	3,894.33	38,943.30
18	995468	Supply, fabrication & fixing of MS channel horizontal / V-shape cross arms / ring arms etc. of different sizes including drilling holes for insulator pins, bolts, nuts and washers etc. and painting with primer and finish paint as required; complete all as directed by Engineer-in-charge.	Kg.	35	196.35	6,872.25
19	995468	Supply, fabrication & fixing of MS flat iron clamps including drilling holes for fixing of cross arms etc. as required; complete all as directed by Engineer-in-charge.	Kg.	45	91.44	4,114.69
20	995469	Restrining of loose hanging guardings wherever necessary as required; complete all as directed by Engineer-in-charge.	Mtr.	40	8.00	320.00
21	995468	Supply, fabrication and mounting of 1.6 mm thick MS sheet enclosure for power control cubicle panel / boxes with hinges & mechanical locking arrangements etc., including cutting, bending, drilling, welding & reveting etc., complete and painting with powder coating including cost and conveyance of all materials and labour charges; complete all as directed by Engineer-in-charge.	Kg.	100	177.10	17,710.00
	-	MISC. PAINTING WORKS			-	-
22	995473	Applying two coats of snowcem or equivalent cement paint of approved brand to old surface including cost & conveyance of all materials etc. (BHEL/P13/15) as directed by Engineer-in-charge.	Sq.M	10	59.52	595.20
23	995473	Cleaning and applying of two coats of Red-oxide primer paint including cost & conveyance of all materials etc. as directed by Engineer-in-charge.	Sq.M	130	58.56	7,612.80
24	995473	Cleaning and applying of two coats of Al. base paint for final painting including cost & conveyance of all materials etc. as directed by Engineer-in-charge.	Sq.M	255	69.12	17,625.60
25	995473	Cleaning and applying of two coats of postal Red paint on the poles etc. including cost & conveyance of all materials etc. as directed by Engineer-in-charge.	Sq.M	25	69.12	1,728.00
26	995473	Cleaning and applying of two coats of Dark admiral grey paint for MD boards, panel boards, transformers etc. including cost & conveyance of all materials etc. as directed by Engineer-in-charge.	Sq.M	50	69.12	3,456.00
27	995473	Painting of BHEL serial no. on Electrical poles with black paint on white painted surface etc. including cost & conveyance of all materials etc. as directed by Engineer-in-charge.	Sq.M	50	58.56	2,928.00

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SI. No.	SAC Code	Nature of work	Unit	Qty.	Rate	Amount (Rs.)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
	-	CABLE TRENCHES & MISC. ITEMS			-	-
28	-	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground including excavation (0.6 x 0.9m), sand cushioning, protective covering and refilling the trench etc as required; complete all as directed by Engineer-in-charge. (cable will be supplied by BHEL)			-	-
(a)	995469	Upto 35 sq. mm	Metre	380	162.87	61,888.97
(b)	995469	Above 35 sq. mm and upto 95 sq. mm	Metre	350	168.87	59,103.00
29	-	Laying of one number additional PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size 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. (cable will be supplied by BHEL)			-	-
(a)	995469	Upto 35 sq. mm	Metre	100	112.07	11,206.89
(b)	995469	Above 35 sq. mm and upto 95 sq. mm	Metre	60	118.07	7,084.13
30	995469	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 (0.6 x 0.9 m), sand cushioning, protective covering (using shahabad stones) and refilling the trench etc as required; complete all as directed by Engineer-in-charge. (cable will be supplied by BHEL)	Metre	200	208.87	41,773.14
31	995433	Earth work excavation for laying of additional cable, replacing of damaged cables and diverting the existing cable trenches in different routes as directed by engineer in charge.	Cu.M	150	65.00	9,750.00
32	995469	Providing earthing conforming to IS:3043 with 40 mm dia G.I. earth pipe and all accessories including excavation of pit, filling with homogenous layers of coke/charcoal & salt and providing masonry enclosure with hinged cover plate having locking arrangement and watering pipe etc.; including cost and conveyance of all materials; complete as directed by Engineer-in-charge.	Set	1	3,281.60	3,281.60
33	995433	Supply and laying of local sand including cost of conveyance to site and spreading for sub stations.	Metric Ton	8	437.39	3,499.12
34	-	Supplying and embedding following dia G.I. pipe (medium class) in pole collar/ foundation (during casting) for cable entry including bending the pipe to the required shape complete as required; complete all as directed by Engineer-in-charge.			-	-
(a)	995469	50 mm dia G.I. pipe	Metre	50	316.93	15,846.68
(b)	995469	100 mm dia G.I. pipe	Metre	60	715.01	42,900.36
35	-	Providing, laying and fixing following dia RCC pipe NP2 class (light duty) in ground complete with RCC collars, jointing with cement mortar 1:2 (1 cement : 2 fine sand) including trenching (75 cm deep) and refilling etc as required; complete all as directed by Engineer-in-charge.			-	-
(a)	995424	150 mm dia	Metre	25	319.50	7,987.49
(b)	995424	250 mm dia	Metre	25	383.34	9,583.42
36	995469	Supplying and making outdoor cable end termination with heat shrinkable jointing kit complete with all accessories including lugs suitable for 3 core - 120 sq. mm. XLPE aluminium conductor cable of 11 KV grade as required; complete all as directed by Engineer-in-charge.	Each	2	7,856.25	15,712.50
37	998599	Cutting / trimming of trees / branches including shrubs and bushes along the overhead HT & LT electrical lines and at substations in township by engaging a minimum of 4 persons with tools such as rope, axe, power saw etc. as required for effective work including all safeguards & incidental; all complete as per the instructions of the Engineer-in-charge or his authorized representative.	Day	10	2,200.00	22,000.00

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Sl. No.	SAC Code	Nature of work	Unit	Qty.	Rate	Amount (Rs.)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
38	997319	Engaging a tractor (along with driver) with trolley / water tanker for transporting of cables and electrical material from factory main store to Township Electrical store including loading & unloading and Watering of all substations and earth pits with one unskilled person to be deployed along with the tractor etc. complete as directed by Engineer-in-charge. (The tractor shall have a valid fitness certificate) (water supplied by BHEL)	Day	7	815.00	5,705.00
39	998599	Supply of Glassiel chemical for eradication of grass at all electrical substations in township; all complete as directed by Engineer-in-charge.	Litre	20	367.50	7,350.00
40	997319	Engaging a JCB for levelling of ground, clearing of thick bushes, removal of roots after cutting of trees, etc. as required; all complete as directed by Engineer-in-charge. The hiring cost shall be inclusive of all, such as operator, helper, fuel, transportation etc.	Hour	15	750.00	11,250.00
41	997319	Engaging a Crane for loading & unloading of transformers on to the plinth of substations across the township, lifting of RCC poles for erection at site and other miscellaneous lifting & loading-unloading jobs etc. as required; all complete as directed by Engineer-in-charge. The hiring cost shall be inclusive of all, such as operator, helper, fuel, transportation etc.	Hour	25	1,000.00	25,000.00
GRAND TOTAL			(Six lakhs eighty-five thousand five hundred twenty seven & paise sixty-one only)			6,85,527.61

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

Tender %	in words	in figures
Excess		
Less		
Estimate rate only		

Conditions :

1	<p>Taxes & Duties: The rate quoted by the contractor shall be exclusive of GST.</p> <p>All the terms & 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 & conditions will be modified in accordance with the provisions of new laws (e.g., GST).</p>
2	<p>Contract Period & Maintenance Period: Period of contract : One (1) Year from the date of commencement Maintenance period : Six (6) Months from the date of completion</p>
3	<p>Penalty: In the event of delay in supply of goods and/or services beyond contractual delivery date, penalty of 0.5% per week or part thereof shall be levied on the full contract value subject to a maximum of 10% of the order value. Penalty amount so determined along with GST if applicable thereon shall be recovered.</p>

Sl. No.	Name of accessories	Recommended Make to be used
1	In General, all materials supplied by the Contractor shall be of approved make and ISI certified as agreed by the Engr.-in-Charge.	

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