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**BHARAT HEAVY ELECTRICALS LIMITED**  
**RAMACHANDRAPURAM :: HYDERABAD-32**  
**TOWNSHIP ADMINISTRATION**

**TENDER DOCUMENTS (PRICE BID)**

**Name of the work : Providing of street lighting to Nehru Marg.**  
**( MIG road no. 1 leading to CISF quarters )**

**Tender Notice : HY/TA/OT-08/2011-12, Dt. 19.10.2011; Item No. 13**

**INDEX**

**1. Schedule 'A' : Schedule of rates and approximate quantities**

**SIGN. OF TENDERER**

**ISSUING OFFICER**

**Address:**

**Phone No. \_\_\_\_\_**

**BHARAT HEAVY ELECTRICALS LIMITED**  
**RAMACHANDRAPURAM :: HYDERABAD - 32**  
**(TOWNSHIP ADMINISTRATION)**  
**ELECTRICAL DEPARTMENT**  
**SCHEDULE - 'A'**

Tender No.: HY/TA/OT-08/2011-12

Date : 19.10.2011

Item No.: 13

**Providing of street lighting to Nehru Marg ( MIG road no. 1 leading to CISF quarters )**

Sl. No.	Nature of work	Unit	Qty.	Rate	Amount
(1)	(2)	(3)	(4)	(5)	(6)
	<b>PART - A ( Shifting of HT line )</b>				
	>>for New Line				
1	<b>Earth work excavation for stay / pole pits</b> upto 0.6m x 0.9m x 1.5m deep <b>in all soils except rocky</b> ; all complete as directed by Engineer-in-charge.	CuM.	6.90	101.85	702.77
2	<b>Earth work excavation for stay / pole pits</b> upto 0.6m x 0.9m x 1.5m deep <b>in rocky soils ( blasting prohibited)</b> ; all complete as directed by Engineer-in-charge.	CuM.	4.60	325.25	1,496.15
3	Transportation, erection, aligning in position and fixing of Heavy Duty RCC poles of size 10" x 6" at bottom and 6" x 5" at top, 28 feet long. as directed by engineer in-charge.	Each	11.00	715.00	7,865.00
4	Concreting of RCC poles/stays/struts with cement concrete of 1:2:4 ratio etc. as directed by engineer in-charge.	CuM.	2.30	3,194.10	7,346.43
5	<b>Refilling the pits with excavated soil</b> after erecting the pole / laying the cables / removing unserviceable cables, including water consolidation etc. complete as directed by Engineer-in-charge.	CuM.	9.20	45.70	420.44
6	Coping of concreated poles using 12/20 down graded metal and cement concrete of 1:2:4 in proper sloping above the foundation and finishing smooth with cement plaster, etc. all as directed by engineer-in-charge.	CuM.	1.00	4,812.25	4,812.25
7	Steel work welded in built up sections / framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required for <b>cross-arm frames</b> and similar works, complete all as directed by Engineer-in-charge.	Kg.	110.00	51.20	5,632.00
8	Steel work welded in built up sections / framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required for <b>clamps and brackets</b> and similar works, complete all as directed by Engineer-in-charge.	Kg.	55.00	51.20	2,816.00

Sl. No.	Nature of work	Unit	Qty.	Rate	Amount
(1)	(2)	(3)	(4)	(5)	(6)
9	Supply & fixing of 11kv disc. Type insulators 256mm dia. With GI twisted strap, ball clevis, galvanised socket ended snail clamp to suit conductor upto 13mm including GI bolts, nuts washers etc., complete as directed by engineer incharge.	Nos.	20.00	368.00	7,360.00
10	Supply & fixing of 11kv pin type insulator, porcelain vitreous brown 150mm high including one GI mild steel spindle, two GI washers and GI nuts as directed by engineer incharge	Nos.	30.00	129.00	3,870.00
11	Supply & fixing of GI knobs with necessary bolts, nuts & washers etc., as directed by engineer in-charge..	Nos.	50.00	43.00	2,150.00
12	Stringing, fixing in position and binding of one run ACSR conductor of size 7/2.11 sq. mm on to the insulators for HT / LT over head lines; complete all as directed by Engineer-in-charge. <b>( ACSR conductors will be supplied by Department )</b>	Rmt.	1420.00	9.00	12,780.00
13	Supply, assembly and erection of stay sets with 16mm dia, 1.8 mtrs long MS Anchor rod, 250x250x6 mm MS Anchor plate, Eye bolt, suitable hexagonal nut and other misc items; complete in all respects as directed by Engineer-in-charge.	Set	3.00	933.00	2,799.00
	<b>&gt;&gt;for Dismantling the existing line</b>				-
14	Dismantling of Heavy Duty RCC poles of size 30'/28' long and transporting them to stores / site of work at around 2.5km distance all as directed by engineer in charge.	Each	22	666.00	14,652.00
15	Dismantling of ACSR conductors from the existing poles including dismantling of insulators, cross arms etc. and transporting them to stores / site of work at around 2.5km distance all as directed by engineer in charge.	Mts.	840.00	25.00	21,000.00
	<b>PART - B ( Cutting of trees )</b>				-
16	Cutting of existing / falling of trees of following sizes (measured at a height of 1mtr. above ground level ) including cutting of trees and branches, removing the roots and stocking of serviceable material at BHEL nursery stockyard including tractor loading and unloading, transporation at BHEL Nursery etc., and disposal of unserviceable material., all complete as directed by engineer in-charge.				-
a	30cm girth upto & including 60 cm	Each	500.00	81.70	40,850.00
b	60 cm girth upto & including 120cm	Each	200.00	359.80	71,960.00
	<b>PART - C ( Center lighting )</b>				-
17	<b>Earth work excavation for cable trenches</b> of size 0.60m width & 0.75m deep in all kinds of soils (blasting prohibited), including cutting of flooring, CRS foundations & roads etc. and then <b>returning (refilling) the soil</b> as required and disposing of surplus excavated soil as directed by Engineer-in-charge.	Mtr	950.00	115.05	109,297.50
18	<b>Earth work excavation for stay / pole pits</b> upto 0.6m x 0.9m x 1.5m deep <b>in all soils except rocky</b> ; all complete as directed by Engineer-in-charge.	CuM	15.00	101.85	1,527.75

Sl. No.	Nature of work	Unit	Qty.	Rate	Amount
(1)	(2)	(3)	(4)	(5)	(6)
19	<b>Earth work excavation for stay / pole pits</b> upto 0.6m x 0.9m x 1.5m deep in <b>rocky soils ( blasting prohibited)</b> ; all complete as directed by Engineer-in-charge.	CuM	10.00	325.25	3,252.50
20	Supply, transportation and erection of <b>swaged street light pole of height 9.5mtrs ( 410 SP- 35 as per IS 2713/1980 )</b> with <b>double arm arrangement</b> for street light fitting, with Junction box and pipe for cable termination, total painted with 2 coats of red oxide paint and single coat A1 Silver paint; all complete as directed by Engineer-in-charge.	Each	31.00	11,578.00	358,918.00
21	Concreting of RCC poles/stays/struts with cement concrete of 1:2:4 ratio etc. as directed by engineer in-charge.	CuM	5.00	3,194.10	15,970.50
22	<b>Refilling the pits with excavated soil</b> after laying the cables/ removing unserviceable cables, including water consolidation etc. complete as directed by Engineer-in-charge.	CuM	20.00	45.70	914.00
23	Coping of concreated poles using 12/20 down graded metal and cement concrete of 1:2:4 in proper sloping above the foundation and finishing smooth with cement plaster, etc. all as directed by engineer-in-charge.	CuM	3.00	4,812.25	14,436.75
24	<b>Supply &amp; spreading of sand cushion</b> 5cm thick alround the cable & <b>laying rough shahabad stone</b> of size 300x300x30mm over the cable; all complete as directed by Engineer-in-charge.	Mtr	950.00	97.00	92,150.00
25	Laying of 2/3/4 core - 2.5 to 16 sq.mm PVC insulated PVC sheathed, steel armoured <b>Aluminium conductor cables</b> in the cable trenches; all complete as directed by Engineer -in-charge. <b>( cable will be supplied by department )</b>	Mtr	950.00	12.00	11,400.00
26	Supply and fixing of crimping type <b>aluminium lugs</b> conforming to I.S. specifications for 2/3/4-core 2.5 to 16 sq.mm cable including proper termination of cables; all complete as directed by Engineer-in-charge.	Nos	124.00	5.00	620.00
27	Supply and fixing of heavy duty flange type brass <b>cable glands with brass washers</b> for 2/3/4 core 2.5 to 16 sq.mm armoured cables; complete all as directed by Engineer-in-charge.	Nos	62.00	87.00	5,394.00
28	Supply, fabrication and erection of 1.6mm MS sheet enclosure for <b>power control cubicle panel / boxes</b> with mechanical locking arrangements etc., including cutting, bending, drilling, welding & reveting etc., complete and painting with 2 coats of red-oxide paint and finished with general purpose oil paint of suitable shade including cost and conveyance of all materials and labour charges; complete all as directed by Engineer-in-charge.	Kg.	120.00	198.00	23,760.00

Sl. No.	Nature of work	Unit	Qty.	Rate	Amount
(1)	(2)	(3)	(4)	(5)	(6)
29	Providing of <b>earthing</b> arrangement comprising of 100mm inner dia, 3 mm thick GI pipe buried upto a minimum depth of 3.0 mtrs including filling the earth pit with homogenous layers of coke/charcoal, salt & sand etc. as required conforming to <b>IS:3043</b> . Suitable length of 8 SWG bare copper conductor to be bolted at bottom of the pipe and run around the pipe upto the surface connection point ( Copper conductor included as separate item ). The earth pit to be provided with brick masonry chamber with hinged cover and watering arrangement; complete in all respects, as directed by Engineer-in-charge.	Nos.	2.00	3,169.00	6,338.00
30	Supply and fixing of <b>copper flat / bare wire</b> of required size as directed by Engineer-in-charge.	Kg.	8.00	607.00	4,856.00
31	Supply, erection, testing & commissioning of street lighting provided with <b>street light luminaire</b> ( <b>PHILIPS SGP 401 150W</b> ) having high pressure die cast aluminium housing, POT optics reflector and heat resistant toughened flat glass offering (IP 65) ingress protection. It includes Supply and fixing of <b>PHILIPS CDM-TT 150W Metal halide Lamps</b> suitable for the above fitting and all incidental charges etc; complete in all respect as directed by Engineer-in-charge.	Nos.	62.00	8,329.00	516,398.00
<b>PART - D ( Undergrounding of HT lines across the road )</b>					
32	<b>Earth work excavation for cable trenches</b> of size 0.60m width & 0.75m deep in all kinds of soils (blasting prohibited), including cutting of flooring, CRS foundations & roads etc. and then <b>returning (refilling) the soil</b> as required and disposing of surplus excavated soil as directed by Engineer-in-charge.	Mtrs.	50.00	115.05	5,752.50
33	Supply & spreading of sand cushion 5cm thick alround the cable & laying rough shahabad stone of size 300x300x30mm over the cable; all complete as directed by Engineer-in-charge.	Mtrs.	50.00	97.00	4,850.00
34	Supply and <b>laying of RCC Hume Pipes</b> of size 150 mm dia for cables entry at the building and road crossings. The two ends to be closed suitably with impervious clay after laying the cable as directed by engineer-in-charge.	Mtrs.	30.00	240.00	7,200.00
35	Laying of 2/3/4 core - 120 sq.mm PVC insulated PVC sheathed, steel armoured <b>Aluminium conductor cables</b> in the cable trenches; all complete as directed by Engineer -in-charge. <b>( cable will be supplied by department )</b>	Mtr	120.00	28.00	3,360.00
36	Supply, fixing, jointing and testing of <b>11kv "cable jointing kit"</b> pole mounted suitable <b>for 3 core 120 sq mm XLPE / PILC Aluminium conductor cable</b> for outdoor end termination inclusive of all materials like cable jointing compound, hardener, epoxy insulators, lugs, bi-metallic washers etc., complete of reputable make as directed by engineer in charge.	Nos.	4.00	6,500.00	26,000.00
<b>TOTAL ... ..</b>		<b>( Rupees fourteen lakhs twenty thousand nine hundred seven and paise fifty four only )</b>			<b>1,420,907.54</b>

Sl. No.	Nature of work	Unit	Qty.	Rate	Amount
(1)	(2)	(3)	(4)	(5)	(6)

**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 <b>penalty of 0.5%</b> 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	<b>Service tax will be extra as applicable for this contract.</b> Service Tax if paid by the contractor with respect to this work will be reimbursed by BHEL on production of proper 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.