



BHARAT HEAVY ELECTRICALS LIMITED

RAMACHANDRAPURAM :: HYDERABAD-32
TOWNSHIP ADMINISTRATION

TENDER DOCUMENTS (PRICE BID)

ANNUAL ELECTRICAL MAINTENANCE WORKS CONTRACT (GROUP-1) FOR RESIDENTIAL BUILDINGS IN TOWNSHIP.

Tender Notice : HY/TA/E/OT-04/2019-20, Dt. 27.11.2019 (N0ASX00447)

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

NAME & ADDRESS OF TENDERER:

PHONE NO. : _____

E-mail : _____

SIGN. OF TENDERER

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

Tender No.: HY/TA/E/OT-04/2019-20
Date : 27.11.2019
(N0ASX00447)

SCHEDULE - 'A'

ANNUAL ELECTRICAL MAINTENANCE WORKS CONTRACT (GROUP-1) FOR RESIDENTIAL BUILDINGS IN TOWNSHIP.

Sl. No.	SAC Code	Nature of work	Unit	Qty.	Rate	Amount (Rs.)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
	-	POINT WIRING				
1	995469	Supply & Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FR PVC insulated multistranded copper conductor single core cable in surface / recessed medium class PVC conduit, with piano type switch, phenolic laminated sheet, suitable size M.S. box, required bends, junction boxes etc. and earthing the point with 1.5 sq.mm. FR PVC insulated multistranded copper conductor single core cable etc as required; complete all as directed by Engineer-in-charge.	Each	75	398.21	29,865.75
2	995469	Supply & Wiring for twin control light point with 1.5 sq.mm FR PVC insulated multistranded copper conductor single core cable in surface / recessed medium class PVC conduit, 2 way piano type switch, phenolic laminated sheet, suitable size MS box, required bends, junction boxes etc. and earthing the point with 1.5 sq.mm. FR PVC insulated multistranded copper conductor single core cable etc as required; complete all as directed by Engineer-in-charge.	Each	8	543.81	4,350.48
3	995469	Supply and fixing 5A PVC batten holder / angle holder / 3-pin ceiling rose (ISI marked) including connection etc. as required; complete all as directed by Engineer-in-charge.	Each	15	29.79	446.85
	-	PLUG POINTS			-	-
4	995469	Supply and wiring for light plugs (separate socket) with 2 x 1.5 sq.mm + 1 x 1.5 sq.mm (earth wire) of FR PVC insulated multi-stranded copper conductor single core cable in surfaced medium class PVC conduit as required along with Supply and fixing T.W. Box of 4" x 7" (nominal size) on surface with 4" x 7" size of decolam board in front including providing and fixing 3 pin 5/6 amps socket outlet and 5/6 amps piano type switch, connection etc. as required; complete all as directed by Engineer-in-charge.	Each	180	584.12	1,05,141.60
5	995469	Supply and fixing of 6 Amps. piano type switch and 3 pin 6 Amps. socket outlet (common socket) on the existing switch box / cover including connections etc. as required; complete all as directed by Engineer-in-charge.	Each	200	57.02	11,404.00
6(a)	995469	Supply and fixing metal box of 180mm X 100mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including providing and fixing 6 pin 6A/16A amps socket outlet and 16 Amps piano type switch, connection, etc. as required; complete all as directed by Engineer-in-charge. (wiring separate with 2.5 sq.mm run of mains)	Each	10	195.01	1,950.10
6(b)	995469	Supply and fixing wooden box of 180mm X 100mm X 60mm deep (nominal size) on surface with suitable size of phenolic laminated sheet cover in front including providing and fixing 6 pin 6A/16A amps socket outlet and 16 Amps piano type switch, connection, etc. as required; complete all as directed by Engineer-in-charge. (wiring separate with 2.5 sq.mm run of mains)	Each	170	127.37	21,652.90

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Sl. No.	SAC Code	Nature of work	Unit	Qty.	Rate	Amount (Rs.)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
7(a)	995469	Supply and installation of 20A SP MCB and 20A metal clad socket outlet in single phase MCB box on surface or in recess, with chained cover for the socket outlet and complete with connections, testing and commissioning etc. as required; complete all as directed by Engineer-in-charge. (wiring separate with 4.0 sq.mm run of mains)	Each	65	595.90	38,733.50
7(b)	995469	Supply and fixing wooden box of 100mm X 100mm X 60mm deep (nominal size) on surface with suitable size of phenolic laminated sheet cover in front including providing and fixing 6 pin 6A/16A amps socket outlet to be controlled by 240V, 16/20 Amps single pole MCB fixed on a separate sheet steel SP MCB enclosure including connection, etc. as required; complete all as directed by Engineer-in-charge. (wiring separate with 2.5 sq.mm run of mains).	Each	10	304.99	3,049.90
	-	MAINS WIRING			-	-
8	-	Supply & wiring for circuit / submain wiring alongwith earth wire with the following sizes of FR PVC insulated multistranded copper conductor, single core cable in surface / recessed medium class PVC conduit as required; complete all as directed by Engineer-in-charge.			-	-
a)	995469	2 x 2.5 sq.mm + 1 x 2.5 sq.mm earth wire	Rmt.	2000	113.63	2,27,260.00
b)	995469	2 x 4.0 sq.mm + 1 x 4.0 sq.mm earth wire	Rmt.	1000	140.15	1,40,150.00
c)	995469	2 x 6.0 sq.mm + 1 x 6.0 sq.mm earth wire	Rmt.	20	177.74	3,554.80
d)	995469	4 x 4.0 sq.mm + 2 x 4.0 sq.mm earth wire	Rmt.	15	230.86	3,462.90
	-	ACCESSORIES			-	-
9	-	Supply & fixing following piano type switch / socket on the existing switch box / cover including connections etc. as required; complete all as directed by Engineer-in-charge.			-	-
a)	995469	240V, 6A Switch	Each	60	25.95	1,557.00
b)	995469	250V, 6A 5-pin socket outlet	Each	60	31.07	1,864.20
c)	995469	250V, 16A Switch	Each	15	53.55	803.25
d)	995469	250V, 16A 6-pin socket outlet	Each	15	63.38	950.70
10	-	Supply & fixing following modular switch / socket on the existing modular plate & switch box including connections etc. as required; complete all as directed by Engineer-in-charge.			-	-
a)	995469	240V, 6A Switch	Each	15	65.08	976.20
b)	995469	250V, 6A 3-pin socket outlet	Each	15	82.79	1,241.85
c)	995469	250V, 16A Switch	Each	8	94.15	753.20
d)	995469	250V, 16A 6-pin socket outlet	Each	8	126.63	1,013.04
11	-	Supplying and fixing following Modular base & cover plate on existing modular metal boxes etc. as required; complete all as directed by Engineer-in-charge.			-	-
a)	995469	1 or 2 Module	Each	4	54.82	219.28
b)	995469	3 Module	Each	2	65.08	130.16
c)	995469	4 Module	Each	2	70.64	141.28
d)	995469	6 Module	Each	2	85.17	170.34
e)	995469	8 Module	Each	2	104.41	208.82
12	-	Supply and fixing following accessories with internal connections etc. as required; complete all as directed by Engineer-in-charge.			-	-
a)	995469	230V, 16A, 3-pin plug top	Each	3	51.45	154.35
b)	995469	Ding dong bell	Each	2	101.19	202.38
c)	995469	Electronic Musical bell	Each	2	225.52	451.04
	-	MAINSWITCHES, FUSES & FUSE D.B.			-	-
13	-	Supply & fixing of porcelain rewirable fuse unit of reputed make; complete all as directed by Engineer-in-charge.			-	-
a)	995469	32A, 415V fuse unit	Each	6	120.91	725.46
b)	995469	63A, 415V fuse unit	Each	5	188.65	943.25

Sl. No.	SAC Code	Nature of work	Unit	Qty.	Rate	Amount (Rs.)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
	-	ISOLATORS, MCBs & MCB D.B.			-	-
14	995469	Supplying and fixing of single pole 5 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.	Each	10	121.49	1,214.90
15	-	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.			-	-
a)	995469	40 amps	Each	3	210.40	631.20
b)	995469	63 amps	Each	3	259.98	779.94
16	-	Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.			-	-
a)	995469	40 amps	Each	2	475.51	951.02
b)	995469	63 amps	Each	2	483.20	966.40
c)	995469	100 amps	Each	2	607.98	1,215.96
17	995469	Providing earthing confirming 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	4	2,931.24	11,724.96
18	995469	Providing and fixing of 4.00 mm dia copper wire on surface / in recess as required; complete all as directed by Engineer-in-charge.	Metre	5	75.39	376.95
	-	SPECIAL ITEMS			-	-
19	995469	supply & fixing of tubular type heating element suitable for 50 Ltrs / 90 Ltrs water heaters 3 hole /triangular disc type / non-threaded type as per samples given as directed by engineer in charge .	Each	2	377.30	754.60
20	995469	Supply & fixing of thermostat 30° to 90°C adjustable and suitable for 25Ltrs to 90Ltrs water heaters.	Each	2	197.23	394.46
	-	SERVICE CONNECTIONS			-	-
21	-	Supply & fixing of PVC insulated (WPTC) sheathed weather proof AL. Conductor cable of payal/gold model make 1100V grade together run with 7/18 SWG GI bearer wire outside building and concealed /surface in rigid PVC conduit inside the building including necessary clips insulation tape etc., for service tapping as directed by engineer in charge.			-	-
a)	995469	one run of 2x10 Sq.mm (twin core WPTC)	Rmt.	700	46.79	32,753.00
b)	995469	two run of 2x10 Sq.mm (twin core WPTC)	Rmt.	1200	79.71	95,652.00
	-	SERVICE CONNECTIONS SUPPORTING MATERIALS			-	-
22	995469	Supply, fabrication and fixing / grouting of eye bolt made of MS rounds 10/12/16mm dia. as directed by Engineer in charge.	Kg.	5	105.71	528.55
23	995469	Supply & fixing of guy insulator of 80x50mm. One guy insulators to be fixed at either ends of the GI wire supporting the service connection cable.	Each	20	38.12	762.40
24	995469	Supply & grouting in wall 32mm dia GI pipe (class B) at the building end for entry of service tapping to building. One end of the pipe should have threaded for fixing bends.	Mtr.	5	195.82	979.10
25	995469	Supply & grouting in wall 25mm dia GI pipe at the building end for entry of service tapping to building. One end of the pipe should have threaded for fixing bends.	Mtr.	5	143.83	719.15
26	995469	Supply & fixing of GI bends 32mm dia for fixing of 25mm/32mm dia GI pipe for arresting entry of rain water into the pipe . Also suitable size of PVC/Rubber bushes should be provided at the entry of the point of pipe/bend.	Each	5	71.05	355.25

Sl. No.	SAC Code	Nature of work	Unit	Qty.	Rate	Amount (Rs.)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
27	995469	Supply of 32 mm dia 1.5 mm thick medium class PVC conduit pipe along with accessories in surface / recess including cutting the wall and making good the same with required masonry work etc. as required; complete all as directed by Engineer-in-charge.	Mtr.	75	70.11	5,258.25
28	995469	Supply & fixing of Steel support wire 7/20 SWG with tape and new link clips to the existing weather proof wire only in case of breaking of GI wire.	Mtr.	800	9.53	7,624.00
29	995469	Supply & fixing of bus bar insulators with necessary screw etc..	Each	10	18.87	188.70
30	995469	Supply & fixing of 25mm x 5mm copper strip (1.12 kg/m) on surface or in recess for connections as required; complete all as directed by Engineer-in-charge.	Metre	3	656.54	1,969.62
31	995469	Restranging of old service connections with necessary link clips and tapes for the above item	Each	100	175.07	17,507.00
	-	CABLES LAYING			-	-
32	-	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	10	145.48	1,454.80
b)	995469	Above 35 sq. mm and upto 95 sq. mm	Metre	10	150.84	1,508.40
33	995479	Providing and laying in position cement concrete of 1:4:8 grade (1 cement : 4 fine sand : 8 graded stone aggregate 40 mm nominal size) excluding the cost of centering and shuttering etc. complete all as directed by Engineer-in-charge.	CuM	1	2,885.14	2,885.14
34	995469	Supply and fixing metal box of 180mm X 100mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including providing and fixing 6 pin 6A/16A amps socket outlet and 16 Amps piano type switch, connection, etc. as required; complete all as directed by Engineer-in-charge. (wiring separate with 2.5 sq.mm run of mains)	Each	10	195.01	1,950.10
35	995469	Supply & wiring for circuit / submain wiring with 2 x 2.5 sq.mm + 1 x 2.5 sq.mm earth wire of FR PVC insulated multistranded copper conductor, single core cable in surface / recessed medium class PVC conduit as required; complete all as directed by Engineer-in-charge.	Rmt.	2000	113.63	2,27,260.00
			GRAND TOTAL			10,21,894.43

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:</p> <p>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>
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(1)	(2)	(3)	(4)	(5)	(6)	(7)
2	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					
3	Penalty: a) 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					

Sl. No.	Name of accessories	Recommended Make to be used
1	FR PVC insulated multistranded copper conductor single core cable (1.5 / 2.5 / 4.0 / 6.0 sq.mm) of suitable colour code as directed by Engr.-in-charge.	1100 Volt Grade, Flame Retardant Low Smoke Type Only. (FINOLEX / L&T / HAVELLS / ANCHOR)
2	PVC Conduits	Sudhakar / Avonplast / Nandi
3	6A & 16A piano type/ modular type switch & socket, Bell push	Anchor / GM / SSK / MK
4	Lamp Holder, 3-pin ceiling rose	Anchor / GM / SSK / MK
5	Calling Bell	Anchor / GM / SSK / MK
6	Rewirable porcelain fuse unit	Anchor / GM / SSK / MK
7	MCB Dist. Board, MCBs, Isolators	Havells / Legrand / Indoasian / Standard
8	Metallic MCB Distribution Box with Metal Clad Socket + Plug top (<i>for Air Conditioner</i>)	Havells / Legrand / Indoasian / Standard
9	Twin core PVC insulated, sheathed, 1.1 kV grade Al. Conductor cable (Service wire)	Payal / Fincab / Gold / Havells
10	Electronic fan regulator	Anchor / GM / SSK / MK
11	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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