

Corrigendum-2

This is with reference to release of Tender Notice No- IIT DHARWAD/Dean(IPS)/WC/2018-19/Electrical/011 in various newspapers like Vijay Vani (Hubballi Edition), Samyukata Karnataka (Hubballi Edition), Kannada dated 28th July, 2018 and release of same Tender notice in the Online Website of IIT Dharwad dated 27th July, 2018 and Corrigendum-1 issued on 13th Aug 2018. It is to be informed to all the bidders that there is change in BOQ as follows: -

BOQ for Electrical Maintenance Work					
S.No	Particulars	Unit	Qty.	Rate Rs.	Amount Rs.
1	Open Conduit System Supplying heavy gauge PVC conduit pipediamm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws.				
	a) 19/20mm dia 2mm thick	Mtr	300		
	b) 25mm dia 2mm thick	Mtr	550		
	c) 40mm dia. 2.5mm thick	Mtr	15		
2	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multi strand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A.				
	a) 1.5 sqmm	Mtr	700		
	b) 2.5sqmm	Mtr	500		
	c) 4 Sqmm	Mtr	400		
3	Point wiring using Copper wire without switch. Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multi strand FRLS PVC insulated, 2X1. 55sq.mm Cable confirming to the GTP without switch, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block complete for each outlet. GROUP A				
	a) Short point up to 3Mtr from tapping point to out let via switch box	No's	150		
	b) Medium point above 3Mtr up to 6Mtr from tapping point to out let via switch box	No's	150		
	c) Long point above 6Mtr up to 10Mtr from tapping point to out let via switch box	No's	150		
4	Supplying and fixing surface/flush mounting unbreakable PVC modular box suitable for mounting modular switch plates with due groove cutting in Brick/C.C wall, including necessary rawl plugs, Machine/NF screws etc., complete.				
	a) 1-3Way	No's	100		
	b) 6-8Way	No's	80		
	c) 10-12Way	No's	60		
5	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.				
	a) 1 to 3 Module	No's	100		
	b) 6 Module	No's	80		
	c) 12 Module	No's	60		
6	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc. on existing modular switch plate as per IS 3854 and IS 1293 GROUP A				
	a) 6Amps one way.	No's	50		
	b) Stepped Fan Regulator.	No's	50		
	c) 16Amps one way switch	No's	50		
	d) 6Amps 3way socket.	No's	50		
	e) 6/16Amps universal socket	No's	50		
	f) TV/Telephone socket	No's	50		
	g) RJ45/ I.O. outlet	No's	50		
7	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.				

	a) 5-32Amps SP	No's	60		
	b) 40-63Amps TPN	No's	10		
8	Supplying and fixing of PVC casing and capping on the wall or ceiling using necessary materials like bends, screws at an interval of 300mm etc. as required.				
	a) 20mm	Mtr	100		
	c) 25mm	Mtr	710		
9	Supplying, fixing and wiring Earth Leakage Miniature Circuit Breaker [ELMCB] 240/450V up to 300mA sensitivity on existing wood/panel board.				
	a) 16-25 Amps 2 pole	No's	12		
	b) 63 Amps 4 pole	No's	5		
10	Supplying and fixing regular MCB distribution boards on wall / wood board / flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable type capacity MCB's single phase / 3 phase / single door with powder coated painting. Made out of 14 SWG MS enclosure.III - Double Door				
	a) 4Way SP&N	No's	20		
	b) 4Way TP &N	No's	5		
	c) 6Way TP &N	No's	5		
11	Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies etc., for operation on 230 volts, 50 cycles. Single phase AC supply conforming to ISS-374-1979 and with double ball bearing system. 48" Sweep (1200mm)				
	a) Regular model	No's	15		
12	Supplying And Fixing "S" Hook made out of 14mm dia .M. S .Rod.	No's	20		
13	LED Indoor Supplying of 2' feet - LED PVC Square Batten .W with high quality diffuser with life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V @ 50Hz & Power factor >0.9 along with CE approved drivers. 5 years Warranty against any manufacturing				
	a) LED light fighting 4' - 20 watts	No's	50		
14	Supplying and drawing UTP-CAT 6E LAN cable.	Mtr	200		
15	Supplying and drawing PVC flexible one pair telephone unarmoured tinned copper cable.				
	a) 2Pair	Mtr	200		
16	CABLES & ACCESSORIES Supplying of 1.1KV LT UG cable having aluminium conductor PVC Insulated, Extruded inner sheathed, galvanized, steel strip (except 2CX10sq.mm wire armoured) confirming to IS-3975:1990(No. of strip indicated in GTP)& extruded PVC outer sheathed armoured cable with specified IS-1554 part-1:1988 & confirming to GTP of GROUP-A	123			
	a) 3.5 core 50 Sq.mm.	Mtr	120		
17	Labour Charges for laying of 1.1 KV class UG cable in existing trench GI pipe/stoneware pipe/on wall/on pole as required existing trench/duct.	Mtr	120		
18	Supplying and fixing 50 Sq.mm aluminium lux	No's	10		
19	Supplying and fixing 25mm PVC flexible pipe	Mtr	150		
20	Supplying and fixing 20mm PVC flexible pipe	Mtr	150		
21	Removing and refixing existing LED Batten light	No	100		
22	Supplying of 1.1 KV LTUG cable having aluminium conductor PVC Insulated, extruded inner sheathed, galvanized, steel strip confirming to IS-3975:1990 armoured cable with specified IS-1554 Part-1: 1988 & Confirming to GTP of GROUP-A				
	a) 2 Core-10 sq. Mm UG Cable	meter	40		
	b) 4 Core-16 sq.mm UG Cable	meter	25		
23	Digging of trench of 0.6m deep x 0.50-meter-wide refilling the trench to the required ground level and consolidating etc., complete. (As per Civil SR KSRB I-2,P-7)				
	a) In Soil (Ordinary)	meter	40		

24	Supply and laying double walled corrugated (DWC) HDPE Pipe including all necessary connecting Sockets/Couplings/ Tees/ Bends/ End-caps of same materials in existing trench as per IS 14930 part – II suitable for drawing underground cables.				
	a) 40 mm outer and 32 mm ID	meter	35		
25	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe/ stoneware pipe/ on wall/ on pole as required. On wall/ Structure.				
	a) 6 sq. mm to 16sq. mm	meter	50		
	b) 25 sqmm to 75 sqmm	meter	30		
26	Supplying & fixing pout head-16 sq. mm.	Nos	1		
27	32 Amps Porcelain fuse cut-out	Nos	3		
28	Earth grounding Supplying, fixing, wiring, earth electrode for grounding conduit I.C. cut out and other equipment's on the meter board using 40 mm dia. 2.90mm thick G.I pipe 2.5-meter-long buried in a pit--- The pit should be filled with equal proportion of salt and charcoal 150 mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc. is to be established through G.I wire of size as per I.S.I. specification 7.3.3 of I.S 732 using 12 mm dia. bolts, nuts, washers and check nuts etc. The pipe shall have 16 through holes of 122 mm dia. .	Each	1		
29	Supplying high pressure metal halide flood light luminary suitable for use with high pressure metal halide lamp with integrated control gear. The fitting shall be non-corrosive high pressure die cast aluminium housing powder coated with toughened and heat resistant glass with low copper content black /grey powder coated paint finish with EPDM gasket. Reflector shall be made of high purity per- anodized aluminium. Cable entry through a cable gland with toggle clips. IP 65 protection for both and optical and electrical compartment. Bottom cover may be with polycarbonate/ tempered/ toughened glass. Luminaries efficiency should be > 60% & ambient temperature > 35 deg .C. High intensity discharge electromagnetic ballast with copper winding of octo cyclic winding coil. Class H insulated dual coated copper wire. Compliance to ICE 61347- 2-9 safety and IEC 60923 performance. Winding temperature for HID Ballast tw= 130 deg. C & temperature rise ? T -70 deg. C. Luminaire shall be suitable to operate on 230/250 volts 50 Hz Ac supply finish including wiring, igniters, condenser. SS toggles for opening front hinge able glass , pre wired to terminal block				
	a) 400 watts	Each	2		
	b) 2.5 sq. mm 3 Core round cable	meter	20		
	c) Flood light connecting pole box	Each	2		
30	LED Street Light supply of LED streetlight with pressure die cast aluminium housing body with optimal heat sink for better thermal dissipation. Diffuser with injection moulded and is made of polycarbonate material with high transmission Index, delivering superior light output. Rated life burning hrs. 50,000 hrs. @ Lumen Maintenance of 70%.CCT > 5500K, IP 66 optical and electrical compartment and impact resistance of complete laminar > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1 A to 0.7A & Surge Protection –Min 4kV along with over voltage/ Overload, short circuit/ wiring protection. Compatible for pole mounting with outer diameter of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED light fixture with w system power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRL & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Housing with supplier work mark/name shall be Engraved/Embossing on the die cast housing/Body part. Warranty of 5 years against				
	a) LED Streetlight 48Watt	Nos	2		
31	Supplying & Fixing mm diameter class A GI pipe bracket up to 2.7 meters long terminated with a reducing collar of 40x25mm to which extra pipe of 175mm length is fixed for fixing MV/SV/MH/FTL street light fitting of all capacities on rail/RCC/wall/tubular pole, using suitable clamps, bolts, nuts & wiring using suitable capacity wires				

	a) Using 40mm diameter G.I. bend	Each	2		
	b) Earthing, Grounding for pump panel	Each	1		
32	Supplying and fixing submersible assembly pump panel				
	A) 32 amps I.C.TP (1)				
	B) 32 amps Fuse (3)				
	C) Voltmeter and Amps meter				
	D) Indicator lamp	Set	1		
	E) 7.5 HP Preventer				
	F) Wooden Sheet 2 1/4 x3 ft. (1)				
	G) 30 amps DP switch (1)				
	H) Complete wiring, testing, and commissioning				
	i) Supply and fixing 3 Core 4 sq.mm Submersible cable	Mtr	20		
	j) Providing and fixing 16/4 Pout head fixing	Nos	1		
33	Providing and fixing LED flood light 60 watt to name board fixed near main security guard facing Bangalore highway with require conduit, wiring, ELCB, MCB, excavation, chemical earthing etc. complete	No	1		
34	Supplying & Fixing of 1440 rpm light duty exhaust fan with bracket blades suitable to operate on 230V 50Hz, AC Supply complete				
35	12" Sweep (300mm)	No	2		
36	Supplying & Fixing 3-ph 440V & Earth industrial type socket with Enclosed M.S box complete set with top	No	6		
37	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required conforming to IEC 60898.				
	a) 5-32Amps TPN	No	6		
	b) 32Amps DPMCB	No.	1		
38	Supplying and fixing/replacing Condensor for ceiling fan/MV/SV/MH and other luminaries.				
	a) up to 4mfd	Nos	40		
	b) 8 mfd	Nos	30		
	c) 10 mfd	Nos	60		
	d) 15 mfd	Nos	15		
	e) 20 mfd	Nos	20		
39	Supplying and replacing ceiling fan regulator 900mm to 1500mm	Nos	60		
40	Releasing the existing fan checking, testing and installation at same place.	Nos	50		
41	Releasing the existing fan checking, testing and installation at New place.	Nos	50		
42	Supplying and fixing/replacing of LED fittings.				
	a) 18 watts	Nos	50		
	b) 36 watts	Nos	50		
	c) 65 watts	Nos	50		
	d) 80Watts	Nos	50		
43	Supply and fixing/replacement of 230 volts Pendent Holder	Nos	60		
44	Fixing one Exhaust fan in the nitch already lefty in the wall with bolts and nuts and 5 amps ceiling rose with sufficient length of 23/0.0076 inch PVC insulated twin core wire.	Nos	40		
45	Erection charges for fixing a ... litres capacity wall mounting electric geysers using bolts, flat at one end nut and washers at the other end for through bolts and nuts and washers with 150x450x600mm back plate and wiring complete with 15 A 3pin top.				
	a) up to 30 liters	Nos	20		
	b) 35 to 50 Litres	Nos	20		
	c) 70 to 100 litres	Nos	20		
46	Rewinding a...mm ceiling fan/after using necessary gauge annealed and insulated copper wire with necessary insulating, separators vibration arresting shellac, etc. including replacement of bearings if any transportation to and from the spot to workshop inclusive of realising the refixing.				
	a) 900mm	Each	10		
	b) 1050mm	Each	10		
	c) 1200mm	Each	10		
	d) 1400mm	Each	10		
47	Supplying and fixing/replacement of heating element for Geyser/Boiler.				
	a) 2KW Capacity	Nos	5		

	b) 3KW Capacity	Nos	5		
48	Fixing ofAmps TPST/Change over Switch/ contactor along with neutral link with screws,bolts,nuts and wiring using required capacity wires and circuit labelling.				
	a) 15A to 63A TPST	Each	10		
	b) 100A to 250A TPST	Each	10		
	c) 300A to 400A TPST	Each	10		
	d) 15 A to 63A TPDT/COS	Each	10		
	e) 100A to 250A TPDT/COS	Each	10		
	f) 300A to 400A TPDT/COS	Each	10		
49	Fixing on load change over switch				
	a) 63A	Each	10		
	b) 100-125A	Each	5		
	c) 200A	Each	2		
	d) 250A	Each	2		
50	Fixing Four pole auxillary No/NC Contacts				
	a) 25A	Each	10		
	b) 40A	Each	10		
	c) 60-70A	Each	5		
	d) 100-125A	Each	2		
	e) 160-200A	Each	2		
51	Supply of Labour -Wirman (8 hours duty)	Man days	365		
	Helper (8 hours)	Man days	365		
	TOTAL Rs.				

Note:

1. These quantities are Tentative and may vary.
2. Items to be executed as and when it needs attention.
3. Extra items will be paid as per market rate. Contractor has to produce invoice for the material.
4. Payment will be done as per Measurement of actual work done.

Above correction may please be noted by all the bidders.
Date of Submission of tender document is same as per corrigendum I i.e. 23 Aug 2018



Project Engineer

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