

KERALA CRICKET ASSOCIATION

Providing Electrical works to Entrance Gate, Security Cabin and Allied Facilities at KCA Twin Cricket Ground, Thodupuzha

Tender Schedule

Sl No	Qty	Unit	Item Description	Rate (in Figures)	Unit	Rate (in words)	Amount
A			Gate Electrification				
1.01	5	nos	Supply of 1000mm LED Rigid Linear Uplighter with System wattage of maximum 36 W, min lumen output of 2345 lm, 17 degree beam angle, complete with integrated power supply, suitable IP66 connectors. The luminaire shall be extruded Aluminium with Electrostatically applied polyester powder coating, silicon gasket and clear tempered glass, minimum dimension of 1000X38X47mm with bracket and minimum weight of 1.5kg. The Luminaire shall have tilting adjustability +15° to - 90°. The LED luminaire shall have SDCM<4 for white, the life of Luminaire shall be 50000hrs L70B50 at 35deg C. The luminaire should be IP66 & IK-07. The operating temperature of Luminaire shall be -40°C to 50°C and storage shall be -40°C to 70°C. The product shall comply to and shall have test reports for IEC 60598-2-5:2015, IEC 60598-1:2014 + A1, IEC TR 62778:2014 (for LED chips), EN IEC 55015:2019+A11, EN 61547:2009, EN 61000-3-2:2019, EN 61000-3-3:2013, IS 10322 (Part 5/Sec5):2013, LM80. Manufacturers self-declaration shall be uploaded along with the technical bid confirming to compliance of CE Declaration of Conformity, CQC declaration of conformity, RoHS compliance & ASTM B117 for 500 hours. The bidder should also submit the BIS for proposed family of product. Similar to Philips Cat BCP382 36LED 30K 24V 17 L100 DMX		/nos		
1.02	1	nos	Supply of UniFlood C Pro LED flood light luminaire high power LED with housing material of Extruded aluminum with die-cast aluminum end caps, dark grey anodized finish, system wattage should be less than or equal to 40W at full load and system lumen output of not less than 2765 lumens. Fixture shall be available with high power LED and architectural optics with choice of beam angles of wide . The luminaires shall be with Anti-aging and anti-UV high optical efficiency PMMA lens and clear tempered glass for better illumination. The white LED should have SDCM 4 for better color. with bracket and weight not more than 3 kgs. Fixture shall operate in a temperature range of -40°C to 50°C and startup temperature range of -35°C to 50°C. Fixture shall have auto-ranging input voltage for 220 – 240 VAC. Lifetime should be at least 50,000 burning hours at L70 at 35 degree centigrade with total IP66 protection. Fixture shall equipped with mechanical impact of minimum IK06. Similar to Philips Cat BVP372 16LED 30K 220V 15 DMX 40W HP		/nos		

Sl No	Qty	Unit	Item Description	Rate (in Figures)	Unit	Rate (in words)	Amount
1.03	2	nos	Supply of LED waterproof strip light IP68, IK04, sealed with anti-UV polyurethane without color shifting and anti UV aging, system wattage 18 Watt/5m/roll with minimum system lumens of 400 lm/mtr, operated at DC 24VDC, Class III for safety use. efficacy should be ≥ 100 lm/w, SDCM ≤ 5 , Lifeclass should be at least 30,000 burning hours at L70B50@35°C. Operating temperature should be in the range of -40° to +50°C. Manufacturer shall have inhouse lab approved by NABL or ministry of science of govt of India. LM 79 and LM80 reports need to be submitted from a NABL/UL accredited lab to verify above parameters. Both the fixture and Driver should have separate BIS approval. Similar to Philips Cat : BGC302 400LM 4000K L5000 IP68		/nos		
1.04	4	nos	Supply of UniFlood C Pro LED flood light luminaire high power LED with housing material of Extruded aluminum with die-cast aluminum end caps, dark grey anodized finish, system wattage should be less than or equal to 40W at full load and system lumen output of not less than 2765 lumens. Fixture shall be available with high power LED and architectural optics with choice of beam angles of wide . The luminaires shall be with Anti-aging and anti-UV high optical efficiency PMMA lens and clear tempered glass for better illumination. The white LED should have SDCM 4 for better color.with bracketand weight not more than 3 kgs. Fixture shall operate in a temperature range of -40°C to 50°C and startup temperature range of -35°C to 50°C. Fixture shall have auto-ranging input voltage for 220 – 240 VAC. Lifetime should be at least 50,000 burning hours at L70 at 35 degree centigrade with total IP66 protection. Fixture shall equipped with mechanical impact of minimum IK06. Similar to Philips Cat BVP372 16LED 30K 220V 15 DMX 40W HP		/nos		
1.05	1	nos	Supply of outdoor ip66 rated 24V/150W driver or smps to provide supply to above strip light		/nos		
1.06	4	nos	Supply and installation of IP67 connector for connecting LED striplight to cables of Philips ZGC 301 IP connector or techno commercial equivalent		/nos		

Sl No	Qty	Unit	Item Description	Rate (in Figures)	Unit	Rate (in words)	Amount
1.07	12	m	Supply and installation of surface mounting extruded aluminium profile with diffuser suitable for installing IP68 LED striplights in 2mtr length as approved by engineer in charge.		/m		
1.08	8	nos	Supply of IP68 Protected 3 pin T - Type Cable connector suitable for 4 / 6sqmm 3 core flexible copper cable loop-in loop-out as approved by engineer in charge.		/nos		
1.09	1	nos	Supplying and fixing 24Hours Digital Time Switch for operating ON-OFF function in the existing MCB DB/enclosure complete with connections, testing and commissioning etc. as required. (L&T make Digital Time switch 2 module cat no 67DDT0 or Techno Commercial equivalent approved by engineer in charge)		/nos		
1.10	1	nos	Supplying and fixing following rating type AC-1, 2pole contactor in the existing MCB DB/Enclosure/Panel board complete with giving necessary connections, etc. as required. 20A (L&T make MCX 40 or Techno commercial equivalent.)		/nos		
1.11	6	nos	Supply, fabrication, conveyance and fixing the GI clamps made from using 25 mm X 6 mm GI strip bent to shape, welded and fixing the same as per the instruction from the Engineer in charge.		/nos		

Sl No	Qty	Unit	Item Description	Rate (in Figures)	Unit	Rate (in words)	Amount
1.12	30	m	Supply and drawing the following sizes of multi-core PVC insulated & FRLS PVC sheathed 650/1100 V grade copper conductor round flexible cables conforming to IS 694 part I 1960 in the existing surface / recess conduit as required including giving necessary connections of the following sizes. 4 core 0.75 sq mm		/m		
1.13	15	m	Supply and drawing the following sizes of multi-core PVC insulated & FRLS PVC sheathed 650/1100 V grade copper conductor round flexible cables conforming to IS 694 part I 1960 in the existing surface / recess conduit as required including giving necessary connections of the following sizes. 3 core 1.50 sq mm		/m		
1.14	50	m	Supply and drawing the following sizes of multi-core PVC insulated & FRLS PVC sheathed 650/1100 V grade copper conductor round flexible cables conforming to IS 694 part I 1960 in the existing surface / recess conduit as required including giving necessary connections of the following sizes. 3 core 2.50 sq mm		/m		
1.15	2	nos	Supplying and fixing 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. Single pole		/nos		

Sl No	Qty	Unit	Item Description	Rate (in Figures)	Unit	Rate (in words)	Amount
1.16	50	m	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/ recess including cutting the wall and making good the same in case of recessed conduit as required.20 mm		/m		
1.17	30	m	Supply & laying of DWC pipe in ordinary soil 0.75m below ground level including excavation40/32mm or nearest size		/m		
1.18	1	nos	Supply of IP65 Protected MI Boxes with Hinged Lids suitable for mounting controller of dimention min 315mmL x 214mmW x 600mmH made of Polypropylene with lockof Hensel MI 9411 or equivalent		/nos		
1.19	6	each	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVCinsulated copper conductor single core cable in surface / recessed medium class PVC conduit,with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLSPVC insulated copper conductor single core cable etc as required. 1.10.3 Group C		/each		
1.20	150	m	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. 2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire		/m		
1.21	85	each	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire		/each		
1.22	60	m	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. 2 X 4 sq. mm + 1 X 4 sq. mm earth wire		/m		
1.23	100	m	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required. 20mm		/m		

Sl No	Qty	Unit	Item Description	Rate (in Figures)	Unit	Rate (in words)	Amount
1.24	80	m	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required. 25mm		/m		
1.25	50	m	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required. 32mm		/m		
1.26	20	each	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. 5/6 A switch		/each		
B			Security Cabin Electrification				
2.01	6	each	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. 1.10.3 Group C		/each		

SI No	Qty	Unit	Item Description	Rate (in Figures)	Unit	Rate (in words)	Amount
2.02	2	each	Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.		/each		
2.03	100	m	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required. 20mm		/m		
2.04	80	m	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required. 25mm		/m		
2.05	1	each	Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required		/each		
2.06	10	each	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.		/each		
2.07	1	each	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch, connections etc. as required.		/each		
2.08	3	each	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.6 Module (200mmX75mm)		/each		
2.09	1	point	Supply, conveyance, installation, testing and commissioning of ceiling fans of the following sizes using standard accessories excluding resistance type regulator, wiring the down rod with 16/0.20mm PVC insulated and PVC sheathed 650/1100V grade 3 core round copper conductor flex wire or with extended original wiring etc. as required. 1200mm sweep -5star rated ceiling fan complete with 300mm down rod , canopies, shackles and blades working on 230V/240V single phase A/C		/point		
2.10	1	each	Supply of the light duty exhaust fan of size above 450 sweep,900 rpm Heavy Duty Exhaust fan working on 230 V A/C		/each		

Sl No	Qty	Unit	Item Description	Rate (in Figures)	Unit	Rate (in words)	Amount
2.11	1	each	Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required. 510 mm		/each		
2.12	5	each	Supply of 10w Bulkhead LED with 1110 W Lumens light output, 110Lm/w having, IP66 ingress protection CRI>80, 50,000 burning hours, 6500k CCT of Philips DN296B LED15S-6500 PSE WH S2		/each		
2.13	4	each	Supply of 28w LED Batten with 4000 Lumens light output, 145Lm/w, Extrusion aluminium body, IP40 Protection, THD <10%, 3.5KV Surge Protection, 31mm width, 6500k CCT of Philips BN170C G2 LED40S-6500 PSU L120 S1		/each		
2.14	9	each	Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting of all types, complete with all accessories and tube/lamp etc. directly on ceiling/ wall, including connections with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required.		/each		
2.15	1	each	Installation, testing and commissioning of ceiling fan/wall fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable etc. as required.		/each		
2.16	1	each	Supplying and fixing extra conduit down rod of 20 cm length G.I. pipe 15 mm dia, heavy gauge including painting etc. as required. (Note : More than 5 cm length shall be rounded to the nearest 10 cm and 5 cm or less shall be ignored)		/each		
2.17	2	each	Supply and Installation of Single Phase and neutral MCB distribution box 240 volt on surface/recess with complete accessories without the RCCB/MCB & Isolator.		/each		
2.18	1	each	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator) 6 way (4 + 18), Double door		/each		

Sl No	Qty	Unit	Item Description	Rate (in Figures)	Unit	Rate (in words)	Amount
2.19	1	each	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required . (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.) 6 way (8 + 18) double cover TPN vertical DB with provision for fixing Isolators incomer and SP/ TP MCB as outgoing (IP 42/43)		/each		
2.20	10	each	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "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. Single Pole		/each		
2.21	6	each	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "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. Triple Pole		/each		
2.22	25	each	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.		/each		
2.23	1	each	Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current breaker with over current protection (RCBO), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required 40A 4P 30mA RCBO		/each		
2.24	1	each	Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current breaker with over current protection (RCBO), having a sensitivity current 100 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required 40A 4P 100mA RCBO		/each		
2.25	2	each	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. 40 amps		/each		
2.26	2	each	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. 63 amps		/each		

SI No	Qty	Unit	Item Description	Rate (in Figures)	Unit	Rate (in words)	Amount
2.27	2	each	Supplying and fixing following rating, double pole, (single phase and neutral),240 volts, residual current circuit breaker (RCCB), having a sensitivity current 30 milli amperes in the existing MCB DB complete with connections, testing and commissioning etc. as required. 40 amps		/each		
2.28	1	each	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 volts, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 amps tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCB's (but without MCB's and incomer) as required .(Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.) 12 WAY(4+36),Double door		/each		
C			Landscape Electrification				
3.01	10	each	Supply and Installation of 6 mtr Decorative Pole with Bottom pipe dia 140mm and 1mtr Length, Top section pipe in 76mm dia and 5mtr Length. Base Plate 180x180xx12mm, Casted reducer and Ring shall be used in golden finish and pole in grey or black colour mat finish. Pole shall be structurally designed for 169 kmph. Pole shall be PU painted with average 70mm high quality paint and primer on minimum 65 microns GI coating including RCC foundation make Kesslec or Equivalent		/each		
3.02	10	each	Supply and Installation of 45w LED Post Top with minimum 5000 Lumens light output in 4000K CCT, minimum 450mm diameter, 110 Lumens per watt system efficacy, IP66 with IK10 Protection for the full luminaire, 10kv Surge Protection, 120v - 277v Operating Voltage range and 325V High cut-off of Philips BGP300 LED47 730 PSU PC SPD IN S1 or Techno Commercial Equivalent.		/each		
3.03	2	each	Supply installation testing and commissioning of Octogaonal Pole made of hot dip galvanised GI sheet 70 mm top diameter, 130 mm bottom diameter thickness 3mm base plate dimensions of 200x200x12 mm suitable for wind speed as per IS 875 Part III single arm bracket 0.5mt including connector foundation bolt 4 nos fixed in including RCC foundation and junction box etc. complete 7 Meters with all accessories including connectors as required		/each		

Sl No	Qty	Unit	Item Description	Rate (in Figures)	Unit	Rate (in words)	Amount
3.04	2	each	Supply Conveyance, installation, testing and commissioning of 70W LED Street light output greater than 105lumen/W 4000-6000 K with IP 66 protection LED Chip make Cree/Lumileds/Nichea with power factor greater than 0.95 at full load, internal surge protection up to 8 KV, and Aluminium pressure die-cast Powder coated housing, acrylic cover complete with THD less than 10%, power factor greater than 0.98, RoHS compliant, duly wired up for use on 230 V AC supply. Driver compartment should be separately accessible for maintenance (LM 79&80 certificates from NABL accredited Third party lab to be produced mentioning chip manufacturer)		/each		
3.05	200	m	Supply & laying of one number PVC insulated and PVC sheathed armoured aluminium power cable of 1.1KV grade of the following sizes in the existing RCC/ HUME / STONE WARE/ GI/ DWC pipe as required. 2 core 4 sq mm		/m		
3.06	100	m	Supply and drawing the following sizes of multi-core PVC insulated & FRLS PVC sheathed 650/1100 V grade copper conductor round flexible cables conforming to IS 694 part I 1960 in the existing surface / recess conduit as required including giving necessary connections of the following sizes. 3 core 2.50 sq mm		/m		
3.07	20	each	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required. 2 X 6 sq. mm (19mm)		/each		
3.08	2	each	Supply of the following 1.1kV grade XLPE insulated PVC sheathed armoured Al conductor power cable conforming IS 7098(part 1) up to date 4C x 10 sq.mm Al cable		/each		
3.09	500	m	Supply of the following 1.1kV grade XLPE insulated PVC sheathed armoured Al conductor power cable conforming IS 7098(part 1) up to date 3.5C x 50 sq.mm Al cable		/m		
3.10	500	m	.Laying and fixing of of one number PVC insulated and PVC Sheathed/ XLPE power cable of 1.1KV grade of the following sizes in the wall surface as required.up to 95 Sq.mm(clamped with 1mmthick saddle)		/m		
3.11	4	each	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.3.5 X 50 sq. mm (28mm)		/each		

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3.12	1	set	Earthing with cover plate having locking arrangement and watering pipe of 1.5 metre long etc. with charcoal/ coke and salt as required.		/set		
3.13	850	m	Supply and drawing bare earthing conductors of the following sizes along with wiring/ cables and giving connection as required 3.15 mm copper conductor (10 SWG)		/m		
3.14	1	each	Supplying, installation, testing and commissioning of HMLDB, 14 SWG CRCA sheet made type, pedestal mounted totally enclosed with suitable IP 55 degree of protection with canopy suitable for use on 415 Volts 3-phase, 4 wire, 50 Hz system having required fault capacity, housed with incoming and outgoing, with 63A incomer and outgoing for upto 60lights fixtures with timer control for the automatic lighting operation as required with.Energy and temp monitoring device with alert for each control panel to monitor status on BMS dash board as required with all accessoiired		/each		
			TOTAL				
			GST				
			TOTAL (incl GST)(Round off)				

Rupees in Words:

Place
Date

Sign & Seal of Contractor:

Name & Address of Contractor: