

KERALA CRICKET ASSOCIATION

KCA COMPLEX, TC 24/131(1), Shasthamkovil Road, Thycaud, TRIVANDRUM -695014

Tender No. KCA/EL-Floodlights/01/2023 Sub Sch.1

PREVENTIVE MAINTENANCE OF FLOOD LIGHTS AND CONNECTED ELECTRICAL SYSTEMS AT GREEN FIELD STADIUM
THIRUVANANTHAPURAM

SI No	Description	Qty	Unit	Rate	Amount
Mandatory requirements for improving the LUX output at the site					
1.0	Flood Light Units				
1.1 (a)	Checking the Flood light units	412	Nos		-
(b)	Cleaning of control boxes and Ignitor contacts				
(c)	Proper insulation checking of the Ignitor control boxes				
(d)	Replacing of thermal resistance graded rubber gaskets if required				
(e)	Replacing of rusted nut and bolts				
(f)	Checking of Bulbs				
(g)	Testing and commissioning etc. as required				
(h)	Front glass and reflector safely of the fixture, cleaning/washing the same, refixing, testing and commissioning if required.				
Floodlight Components					
(i)	Checking and Clearing burned / damaged Contacts for GE EF2000 fixtures. (Bulb side and Fixture Side)	120	Nos.		-
(j)	Supply and Providing Waterproof ceiling, metal insulation with High Temperature and Flame Resistance capacity tape for the Lamp	412	Nos.		-
1.2	Testing of the floodlight system for suitable light Intensity to 5 x 5 meter, by properly gridding in the FOP. Correction of onfield light Intensity wherever required based on the LUX measurement and checking the Alignment of Luminaire, Operation of floodlights during the period of maintenance.	01	L.S		-
The mandatory requirements for pre-match preventive maintenance of the Floodlight and Connected Electrics					
2.0	PANEL BOARDS				
	Labour charges for servicing of following Cubicle type floor mounted panel boards such as				
(a)	Cleaning all the busbars , internal and external sides of the panel boards etc				
(b)	Checking and tightening of all the control wirings, busbars of the panel etc.				
(c)	Greasing of all moving parts				
(d)	Providing Contact grease for all terminal contacts				

(e)	Checking, cleaning and tightening of all earthings of the panel boards					
(f)	Continuity test and measuring earth resistance of earthing points of panel boards					
(g)	Checking and ensuring the proper grading/setting/fuse rating of each feeders with respect of loads/cables					
(h)	Providing proper RYBN sleeves for busbars which ever is required					
(i)	Checking all the indication lamps Control fuses, Voltmeters, Ammeters, Current Transformers, Multifunction digital meters, earth fault relays etc. and replacing if required (Supply of materials not included)					
(j)	Taking the insulation resistance of Panel Busbars between phases and earth, phases, etc.					
(k)	Baking of busbar Cubicles/FRP/Bakelite/Epoxy supports etc with hot air to improve IR values					
(l)	Load testing of each feeders					
(m)	Removing of all the damaged rubber beadings wherever required or providing with required ceiling to prevent direct water entry in to the fixtures					
(n)	Removing of all the rusted GI Bolt and Nuts with washers of busbars and Enclosures.					
(o)	Replacing of faulty Switch gear Components (Supply not included)					
(P)	Testing and commisioning after the servicing					
2.1	Lighting Panel					
	<u>Incomer:</u>					
	250 A TP MCCB - 1 No.					
	<u>Outgoing :</u>					
	63 A TP MCCB - 7 Nos.		08	Nos.		-
	Timer, Control fuses, Auto manual Switch, Indication lamps, ELR, MFM, Power and control contactors, etc - 1 set					
	DP MCB - 60 Nos.					
2.2	Ballast					
	Cu Ballast for 2000 W MH with		412	Set		-
	Complete control wiring, control contactors etc. of system					
2.3	Capacitor					
	Checking the Capacitor for the effective Capacitance Value		824	Nos.		-
3.0	UG, Power Cables and Termination					
	Labour charges for checking the following details of the cables.					
(a)	Physical checking and mechanical damages and Meggering where ever required.					
(b)	Insulation resistance between core to core and core to earth.					
(c)	Cleaning and tightening of all cable terminals.					
(d)	Replacing the rusted nut and bolt of the termination.					
(e)	Replacing the burnt Cu/Al sockets with new ones.					
(f)	Continuity and load test of all cables					
(g)	Testing and commissioning					

3.1	1R x 3.5C x 240 sq.mm AYFY cable from Sub station to Lighting panels with terminations.		6.000	Set		-
3.2	3C x 2.5sq.mm stranded Cu. Cable from lighting panel to ballast rack with terminations		309	Set		-
3.3	3C x 2.5sq.mm stranded Cu. Cable from ballast rack to Ignitor mounting box/lamp with Terminations		309	Set		-
3.4	1R x 3.5C x 240 sq.mm AYFY cable from Sub station to Lighting panels - Water Trap removal, Moisture removing with necessary heat treatment, Insulation Testing (Tower 4 electrical room)		2	Set		-
3.5	3C x 2.5sq.mm stranded Cu. Cable from ballast rack to Ignitor mounting box/lamp with Terminations - Water Trap removal, Moisture removing with necessary heat treatment, Insulation Testing (Tower 4 electrical room)		103	Set		-
3.6	3C x 2.5sq.mm stranded Cu. Cable from lighting panel to ballast rack with terminations - Water Trap removal, Moisture removing with necessary heat treatment, Insulation Testing (Tower 4 electrical room)		103	Set		-
Rupees:						-
<p>Terms and Conditions</p> <p>1. Rates for the item estimated is as lumsum irrespective of quantity noted for indicative purpose.</p> <p>2. If any cable, wires required to be replaced, to be done subject to Approval. Labour charges required will be included in the work rates quoted.</p>						

