

KERALA CRICKET ASSOCIATION

**PART B -Renovation /Replacement of existing MH fittings to LED Flood lights and allied Electrical works for upcoming ICC Women's World Cup at Sports Hub Green Field
International Stadium Thriuvananthapuram - Allied Electrical works**

TENDER SCHEDULE

Item No	Quantity	Unit	Details of work	Rate in figures	Unit	Rate in words	Amount
1	228	nos	Dismantling of existing 2000w Conventional light fittings and all accessories including ballast, ignitor, cables from control panel to luminaire etc, handing over of materials and stacking them safely inside provided room as per direction of engineer in charge.		/nos		
2	208	nos	Installation of LED fixtures on stadium masts at 52mtr height including fixing as per lighting design with all suitable accessories including truck mounted material lifting machineries and safety equipments as required		/nos		
3	392	nos	Aiming, Testing and commissioning of the floodlight system for suitable light Intensity by plotting 10 x 10 meter, properly gridding in the FOP. Correction of onfield light Intensity wherever required based on the LUX measurement and checking the Alignment of Luminaire		/nos		
4	28000	meter	Supply, laying and clamping of 1 no. PVC insulated and PVC sheathed unarmoured copper power cable, 1.1 KV grade of the following sizes using clamps noted along with the cables, spacing of clamps not exceeding 60cms, making good the damages , colour washing etc. as required.3 core 4 sq mm with factory made clamp		/meter		
5	2100	meter	Wiring for circuit/ sub main wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required 1.7.8 4 X 4 sq. mm + 2 X 4 sq. mm earth wire		/meter		
6	430	nos	Supplying and making end termination with copper compression gland and copper lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required. 3 X 4 sq. mm		/nos		
7	16	nos	Supply and fixing Cu earth bench (25 x 2.5 mm) with earth leadss 8/10 connections and copper strip 25x3 mm stand mounting with alla ccessories as required		/nos		
8	420	meter	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)		/meter		

Item No	Quantity	Unit	Details of work	Rate in figures	Unit	Rate in words	Amount
9	365	meter	Supplying and installing following size of FRP cable trays with top covering with convenient sections, joined with connectors, elbows, tees, reducer, bend, etc.suspended from the ceiling with manufacturer approved suspenders including bolts & nuts, etc. with all accessories required for complete installation as per the direction of Engineer in charge as required. 450mm width X 100 mm height X 3 mm thickness		/meter		
10	2200	meter	Supply and drawing of PVC coated GI Flexible Conduit of .2mm thickness, 19 id & 22 od size for laying 3 core flexible copper cable/wires with all accessories as required		/meter		
11	448	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. Double pole MCB		/nos		
12	720	meter	Supply and fixing 50 x 50 mm PVC Cable Management System with base and lid along with the following accessories conforming to IEC 61084/ BS 476 & 4678 on surface / recess including cutting the wall and making good the damages in case of recessed installation as required. 50x50mm Cable Management System with base and lid with all accessories as required		/meter		
13	6	nos	Supplying and installing Rotary handle (including BUC handle with door inter-lock defeat and pad lock facility) Up to 250A extended type with all accessories		/nos		
14	4	nos	Supply and installation of 600 mm sweep Heavy duty Exhaust fan in metal body Highly efficient heavy duty motor with pressure die cast aluminium rotor mounted on two ball bearings. Aerodynamically contoured handle maximum air with minimum power consumption. Rigid Frame including all accessories as required		/nos		
15	300.00	sqm	Fabrication, supply, conveyance, installation testing and commissioning of floor or wall mounting, dust and vermin proof, cubicle type MV panel board comprising of the following components/ devices & complying to IS 8623.Fabrication of fully partitioned, dust and vermin proof enclosure for panel assembly as per form 4 of IS 8623 (with latest amendments) using CRCA sheet as per approved design and requirement, with front and rear access facility, for accomating the camera accessories as required		/sqm		
16	85	sqm	Supply and providing 3mm SMC sheet as shrouding for bus interconnection / terminations etc. including required nut & bolt etc.		/sqm		

Item No	Quantity	Unit	Details of work	Rate in figures	Unit	Rate in words	Amount
17	4	nos	Supply installation testing and commissioning of single phase inverter type 2 TR Split A/C Unit of approved make complete with suitable capacity drive motor ,air cooled condenser with all accessories, including condenser and evaporator coil(copper) ,hermitically sealed rotary compressor, copper piping ,drain piping etc including suitable stabilizer as required. Make: Voltas, Blue Star, Daikin or Approved by engineer in charge		/nos		
18	40	meter	Supply, Installation, Testing and Commissioning of Hard drawn Refrigerant Copper Piping , insulated with 9mm thick nitrile rubber tubings approved make, the price quoted shall be inclusive of proper supports with control cabling as required		/meter		
19	1250	meter	Supply and laying of 6 Core – 9/125 Micron Single Mode Outdoor Fiber Cable OS2
Type of Cable : OS2 Single mode , Optical Properties Attenuation at 1310 nm ≤ 0.34 dB/KM at 1550nm ≤ 0.22 dB/KM , Maximum Tensile Strength Short term : 1000N , Maximum Crush resistance Short term : 2000N/10CM , Operating Temperature : -10° C to + 70°C , Sheath : UV Stabilized HDPE , Over all CableDiameter : 9.5 mm- 10 mm , Fiber Tube Identification : Single Tube , No. Of Elements : 1, Fiber Protection(Tubes) : Polybutyleneterephthalate(PBT), PeripheralStrengthMember : TwoSteelWires , Mass(Nominal) : 95 Kg/Km , CoreWrapping : PolyethyleneTerephthalate , InnerSheath : Polyethylene , Armouring : Copolymer Steel tape Armor , Sheath : HD Polyethylene (UV Stabilized) , Water Blocking : Thixotropic Gel , ROHS Complaint, ISO/IEC 11801 : 2002 -2nd Edition, Type OS1, ITU-T REC G 652D spec for Low Water Peak fiber, TIA 568, EIA 455, AS/ACIF S008; AS/NZS 3080 , Max. Bending Radius (during installation) : 20D , Max. Bending Radius (during full load) : 10D , Life of Cable: The minimum expected life of the cable is not less than 25 years.
Approved Makes- Molex,Commscope or Equivalent		/meter		
20	1	nos	Supply and Installation of 3KVA UPS with internal battery of minimun back up of 30minutes, Main Input Voltage:230 V, Main Output Voltage:230 V, Rated power in W: 1600 W, Rated power in VA:2000 VA, Output connection type:3 India 3-pin 6A, 1 USB cable 1 RS-232 configuration cable, 1 rack mounting brackets, 1 stabilization/wall mounting feet, 8.6x43.8x46.2 cm.Approved Make: APC/GE/VERTIV/SOCOMEK (MAF Required)		/nos		
21	8	nos	Supply and installation of OFC Module/Media convertor Features Dual data-rate of 1.25Gbps/1.063Gbps operation 1550nm DFB laser and PIN photo detector for 40km transmission Compliant with SFP MSA and SFF-8472 with single LC receptacle Digital Diagnostic Monitoring: Internal Calibration or External Calibration Compatible with SONET OC-24-LR-1 Compatible with RoHS Refer Annexure 1 for detailed specification. Approved Makes- NETGEAR/Juniper/ Allied Telesis (MAF Required)		/nos		

Item No	Quantity	Unit	Details of work	Rate in figures	Unit	Rate in words	Amount
22	6	nos	Supply and installation of 12Port LIU with all accessorise(Splice holder , SC duplex adapter , SC pigtail) Metal Box , 19" Rack Mountable Cabinet, Cold Rolled Steel Construction , Material: Powder Coated Steel Body, Accommodation : 12 port for SC and 24 Port for LC Interface , Fusion Splice/Mechanical Splice , 6 Rubber Grommets are provided at cable entry points for tight sealing, Dimensions : 45mm H x 485mm W x 255mm D , LIU Should be provided with Lock & Key , ROHS Compliant (MAF Required) Approved Makes: Molex,Panduit and Belden (MAF Required)		/nos		
23	1	nos	Supply and installation of 22U Rack with all accessorise Rack should have 100% assured compatibility with all equipment's conforming to DIN 41494 (General Industrial Standard for equipment's) or Equivalent EIA /ISO / EN Standard, The Racks should be 1230mm height with 800 and 1000 width for Network application Approved Makes- NETRACK/RITTAL		/nos		
24	400	nos	Supply and installation of single mode 1 meter SPatch chord 100% Factory Tested – Guaranteed performance, LSOH Jacket Standard – Reduces toxic/corrosive, Sheath : LSZH, ROHS Compliant , ISO/IEC 11801, ANSI/TIA/EIA 568.C.3-2000, ANSI/TIA/EIA-492, TELECORDIA GR-409,ICEA-596 , Cordage O.D.: 2.0mm +/- 0.1mm x 4.1 +/- 0.2mm , Buffer Diameter: 900Um , Primary Coating :245um , Suitable for use inside with Sliding and fixed patch panels , Support 24 Fusion splice protectors in 45mm or 61mm lengths , Base and Self-adhesive pads for securing on a flat surface and a lid, Material – ABS (HalogenFree) , Support Multimode and Single mode, Dimensions: 47mm x 99mm x 12mm (WxLxH) , Max. Attenuation @850nm: 3.5 dB/Km, Max. Attenuation @ 1300nm : 1.5 dB/Km Approved Makes-Molex,Panduit and Belden (MAF Required)		/nos		
25	1	job	Supply testing and commissioning of Interact sports Control System suitable for dynamic lighting control for Sports lighting LED Floodlight LED fittings, dimming to different lux levels individually and as a group, remote controlling and monitoring, Power consumption calculation, capable for creating light shows with provision for integrating with audio and video system, fault detection and intimation, Touch Panel for scene controlling etc as required		/job		

Item No	Quantity	Unit	Details of work	Rate in figures	Unit	Rate in words	Amount
26	60	sqm	Providing and fixing double scaffolding system (cup lock type) on the exterior side, up to seven story height made with 40 mm dia M.S. tube 1.5 m centre to centre, horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube chollies, M.S. clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for the required duration as approved and removing it there after. The scaffolding system shall be stiffened with bracings, runners, connection with the building etc wherever required for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Engineer-in-charge. The elevational area of the scaffolding shall be measured for payment purpose. The payment will be made once irrespective of duration of scaffolding. Note: - This item to be used for maintenance work judicially, necessary deduction for scaffolding in the existing item to be done		/sqm		
			TOTAL		Rs.		
			Add GST @ 18 %		Rs.		
			Grand Total		Rs.		
			Rounded to		Rs.		

Rupees in words :

Signature of Contractor:

Name and adress

Place :

Date :