

KERALA CRICKET ASSOCIATION

Supply & Installation of Ductable Air Conditioners and Providing FACP System at Mini Conference Hall and Administrative Cabins, KCA Headquarters, Trivandrum

Tender Schedule

Sl No	Qty	Unit	Item Description	Rate (in Figures)	Unit	Rate (in words)	Amount
			HVAC WORKS				
1	2	each	Supply, Installation, Testing and Commissioning of 3 Tr Ceiling suspended type concealed duct Air - conditioner with R-32 Refrigerant , 100 % copper) suitable for operating 415+-10%,50 Hz three phase AC Supply fitted with power consumption norms as specified in the standards operating on R 410A refrigerent with condensing and evaporating units capable for cooling, dehumidifying,air circulating and bio filter activated carbon cum electrostatic filter etc including microprocessor control with cordless remote control etc. with all standard fittings,safety devices, like HP/LP cutout single phase preventer,overload relays, microprocessor control with digital display exclusive of ODU etc Make : c		/each		
2	1	each	Supply, Installation, Testing and Commissioning of 4.3 Tr Ceiling suspended type concealed duct Air - conditioner with R-32 Refrigerant , 100 % copper) suitable for operating 415+-10%,50 Hz three phase AC Supply fitted with power consumption norms as specified in the standards operating on R 410A refrigerent with condensing and evaporating units capable for cooling, dehumidifying,air circulating and bio filter activated carbon cum electrostatic filter etc including microprocessor control with cordless remote control etc. with all standard fittings,safety devices, like HP/LP cutout single phase preventer,overload relays, microprocessor control with digital display exclusive of ODUetc Make : Dakins/Mitsubishi/Bluestar		/each		
3	3	each	Supply, Installation, Testing and Commissioning of three-phase inverter outdoor unit is designed for high-efficiency commercial air-conditioning applications and operates on a 380–415 V AC, 3-phase, 50 Hz power supply. It features a DC inverter scroll compressor with R32 or R410A refrigerant (depending on the model), providing cooling capacities typically ranging from 10 kW to 25 kW. The unit is equipped with a DC inverter axial fan, operates in ambient temperatures up to 52°C in cooling mode, and supports refrigerant piping lengths of up to 50 m with a maximum height difference of 30 m. It includes built-in safety features such as overload, high/low pressure, and compressor overheat protection, ensuring reliable performance, energy efficiency, and quiet operationMake : Dakins/Mitsubishi/Bluestar		/each		
4	110	sq.mtr	Supply, installation, balancing and commissioning of fabricated GSS sheet metal rectangular/round ducting complete with neoprene rubber gaskets, elbows, splitter dampers, vanes, hangers, supports etc. as per approved drawings and specifications of following sheet thickness complete as required Thickness 1.25 mm sheet metal rectangular ducting as per IS 655-2006		/sq.mtr		

Sl No	Qty	Unit	Item Description	Rate (in Figures)	Unit	Rate (in words)	Amount
5	8	each	Supply, installation, testing and commissioning of GI volume control duct damper complete with neoprene rubber gaskets, nuts, bolts, screws linkages, flanges etc, as per specifications GI volume control duct damper		/each		
6	22	sq.mtr	Supplying & fixing of powder coated extruded aluminium Supply Air Grills with aluminium volume control dampers as per specifications		/sq.mtr		
7	12.5	sq.mtr	Supplying & fixing of powder coated extruded aluminium Return Air Grills with louvers but without volume control dampers complete as required		/sq.mtr		
8	35	sq.mtr	Supply and fixing of following thickness Acoustic Lining of ducts using open cell 10mm thick Nitrile foam anti-microbial closed after applying cold setting adhesive as per recommendation of the manufacturer		/sq.mtr		
9	20	sq.mtr	Supply and fixing of following thickness duly laminated aluminium foil finish closed cell Nitrile rubber insulation 13 mm after applying cold setting adhesive as per recommendation of the manufacturer with required overlap and sealed with adhesive aluminum tape		/sq.mtr		
10	3	each	Providing and fixing flexible canvas duct connection made of fire-retardant neoprene coated fabric between indoor DX unit and GI ductwork for vibration and noise isolation. The connection shall be airtight, reinforced with GI clamping strips on both sides, complete with nuts, bolts, cleats and sealant. Flexible connection length shall be 150–250 mm suitable for low/medium pressure HVAC duct systems.as per approved drawing		/each		
11	12	each	Providing and fixing powder-coated aluminum four-way ceiling supply air diffuser suitable for HVAC air distribution system, complete with removable core, opposed blade damper, neck connection, fixing arrangement and all necessary accessories. The diffuser shall be suitable for false ceiling installation and designed for uniform 4-way air throw with low noise operation. Finish shall be white powder coated and installation shall conform to approved HVAC drawings		/each		

Sl No	Qty	Unit	Item Description	Rate (in Figures)	Unit	Rate (in words)	Amount
12	85	meter	Supply Installation of Interconnecting refrigerant copper pipe work between indoor and outdoor units with 9mm thick closed cell elastomeric nitrile rubber tubular insulation - upto 2.5 TR		/meter		
13	100	meter	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 10 sq. mm + 1 X 10 sq. mm earth wire		/meter		
14	50	meter	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		/meter		
15	35	meter	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		/meter		
16	40	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		
17	3	each	Supplying and fixing following rating, double pole, 415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. 40 amps with metal enclosure		/each		
18	3	metre	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. 6 pin 15/16 A socket outlet		/metre		

Sl No	Qty	Unit	Item Description	Rate (in Figures)	Unit	Rate (in words)	Amount
19	110	meter	Supply, Installation, Testing and Commissioning of PVC drain piping, complete with fittings, supports as per specifications and insulated with 9 mm Nitrile rubber insulation		/meter		
B			FACP SYSTEM				
1	10	each	Supply, installation, testing and commissioning of Addressable type Multi Detector complete with all accessories like base, base box, etc. to be installed under/above false ceiling, roof and concealed space, etc. interconnecting to loop cable complete as required. Shall be UL listed/ FM Approved. complete as required		/each		
2	2	each	Supplying, installation, testing & commissioning of addressable beam detector with short circuit isolator (inbuilt or separate) complete with emitter and receiver including connections with remote test features etc complete as required. The product must be UL listed and FM approved, complete in all respect as required. Addressable beam detector with remote test features as required		/each		
3	1	each	Supply, Installation, Testing & Commissioning of 16/32 bit intelligent Addressable Fire Alarm Control Panel with 1 loops (each loop capable of supporting not less than 240 devices (including detectors) and minimum 120 detectors per loop and loop length up to 2 km) including battery backup. The panel shall be microprocessor based with its own micro controller, memory, communication module and fire device loop interface cards for indicating devices and should also be networkable in peer-to-peer basis with other Addressable Fire Alarm Panels. The Panel shall be able to give pin point location of all Fire/Fault conditions of addressable units via the address codes for each unit. The Panel shall also be able to automatically switch off all Control Switches when ever any Alarm is triggered. The panel shall have Keypad operation, L C D unit to indicate Fire / Fault Signal of individual unit, etc complete in all respects as per the technical specification and shall be UL listed and FM approved. The Panel shall also have Logic hardware and software built into it for time delay operation of hooter and others as follows : (a) programming software for the system (b) automatic system test activates (c) detector sensitivity adjustments (d) alarm verification (e) Alpha/numerical display (f) provision to connect to PCs and external printers		/each		
4	2	each	Supply, installation, testing and commissioning of 2A 24V Power supply unit for hooters complete in all respect and as required as per technical specification		/each		
5	2	each	Supply, installation, testing, and commissioning of hooter cum strobe at different locations complete for both audio and visual indication with all fixing accessories, etc. under the false ceiling, roof, wall, etc., with a time delay of max 30sec, interconnecting loop cable complete as required as per the technical specification. The product shall be FM approved and UL Listed		/each		

Sl No	Qty	Unit	Item Description	Rate (in Figures)	Unit	Rate (in words)	Amount
6	150	meter	Supply and laying of 2x1.5 sq.mm armored Copper FRLS cable ISI marked with proper clamping, supports and terminations appropriately above/below ground, on wall surface or recess as required as per the technical specifications.		/meter		
7	2650	meter	Supplying and Laying CAT6 LAN cable in the PVC/Steel conduit as per the direction the engineer incharge		/meter		
8	120	each	Termination of CAT6 cables using Category 6 compliant RJ45 modular plugs, a calibrated ratchet crimping tool, and approved termination accessories. Cable preparation shall be carried out carefully to avoid damage to the conductor insulation, with the cable jacket stripped only as required for termination. The twist of each wire pair shall be maintained as close as practicable to the point of termination and shall not exceed 13 mm (0.5 in) of untwisted conductor. Conductors shall be terminated in accordance with the TIA/EIA-568B as required		/each		
			TOTAL				
			GST @ 18%				
			TOTAL (incl GST)(Round 0ff)				

Rupees in Words:

Place
Date

Sign & Seal of Contractor:

Name & Address of Contractor: