

Running Contract Details	
Equipment Name	Air Handling units with Door Interlocks and Surveillance
Running Contract Valid Till	13-03-2020
Tender Ref No	KMSCL/EP/T262/1104/2017(R)
Tendered Quantity	10
Supplier Name	M/s Labline Instruments
GST No	32AABFL5818N1Z6
Installation & Delivery Period	6 Week(s)
Up-time / PM vist	95% & 4 Visits per year
Warranty period	3 Years

Supplier`s Details		
Address	Contact Details	
P B No. 36 Eroor Road Trippunithura-682301	Contact Person	Bini
	Phone	04842776582
	Mobile No	9020304422
	Email	lablinecochin@gmail.com

Item-wise Price Details				
#	Item Details	Unit Rate (Incl.all taxes & charges)	Service Charges (Through KMSCL)	Grand Total
1	<b>Air Handling units with Door Interlocks and Surveillance</b> <i>Model &amp; Make : SPECIAL / LABLINE TNSTRUMENTS</i>	295000 Incl.GST :18%	20650	315650
2	<b>Door interlocks as per spec</b>	59000 Incl.GST :18%	4130	63130
3	<b>Surveillance System without rate for cabling as per spec</b>	84606 Incl.GST :18%	5922.42	90528.42
4	<b>All required cables for the installation of IP camera.</b>	192 Incl.GST :28%	12.39	204.39
5	<b>Cost for one additional IP camera</b>	9475.4 Incl.GST :18%	663.28	10138.68
6	<b>Air handling unit</b>	88500 Incl.GST :18%	6195	94695

Item-wise Price Details			
	536773.4	37573.09	574346.49

Annual / Comprehensive Maintenance Charges (Exl.Tax)							
Rate	4 <sup>th</sup> Year	5 <sup>th</sup> Year	6 <sup>th</sup> Year	7 <sup>th</sup> Year	8 <sup>th</sup> Year	9 <sup>th</sup> Year	10 <sup>th</sup> Year
<b>Air Handling units with Door Interlocks and Surveillance</b>							
Labour	5,900.00	5,900.00	5,900.00	5,900.00	5,900.00	5,900.00	5,900.00
Comprehensive	17,700.00	17,700.00	23,600.00	23,600.00	29,500.00	29,500.00	29,500.00

### **Other terms & conditions**

1. The supplier shall execute an agreement with the purchaser as per tender conditions (agreement format is given in the tender document).
2. The supplier shall submit performance security amounting to 5% of the value of the supply order.
3. The labour & comprehensive charges of equipment after the completion of warranty period is finalized by KMSCL as mentioned above.
4. Since discount rate is not applicable for equipment under Running Contract of KMSCL, purchase/supply order can be issued directly to supplier at the given rate with tax & other charges (exclusive of KMSCL service charges).
5. If purchase/supply order is issued directly to the supplier, KMSCL service charge need not be paid. But the copy of the said order may be forwarded to KMSCL for information.

### **Technical Specification**

#### **Equipment :Air Handling units with Door Interlocks and Surveillance**

The system shall consist of air handling units, access control units and camera surveillance for maintaining biosafety and biosecurity at BSL 3 levels.

#### I. Air handling Units

1. Three number of AHUs should be designed and installed for maintaining one room in positive pressure and two rooms in negative pressure. The output of the negative pressure rooms shall be ducted out to safe areas.
2. The AHUs shall be balanced to prevent backflow, taking into consideration the ducted Bio safety cabinets. Should have adjustable dampers for balancing the air flow.
3. The class II A2 biosafety cabinets in the negative pressure rooms shall be ducted out with canopy connection, 8” pipes and a virus burn-out unit attached.
4. Should have minimum 1600 cuft/min free flow capacity
5. Should maintain a minimum differential pressure of 5mm water column
6. Should have mini pleat HEPA filter with particle retention better than 99.997% for 0.3 micron particle for all AHUs.

7. Should have 2 layers of pre filters with progressive pore size, that are reusable after cleaning.
8. Provision for easy removal and cleaning of pre filter.
9. Interlocking of door with blower control switch.
10. Magnahelic gauges of range 0 – 10 mm water column shall be installed near the door way of each room for monitoring the differential pressure.
11. Preventive maintenance of unit shall be done every 3 months.
12. Two nos. of UV 254nm, 4ft tubes should be installed in two of the rooms to maintain sterility.
13. The entire room should be inspected for leaks and sealed with silicone sealant as required.
14. All installation, leak proofing and electrical connections with necessary wiring shall be done by the supplying firm for all the components.
15. Any additional specification or details required should be collected directly by site inspection.

## II. Door interlocks

1. The doors, 3 nos., shall be interlocked with the air handling units to prevent accidental opening without proper air supply.
2. Two doors shall be fixed with biometric access control units for access restriction.
3. Wiring and installation of the unit shall be such that it is tamper proof and there will be no breach in security.

## III. Surveillance System

1. The facility shall be monitored 24x7 with surveillance cameras for biosecurity.
2. The quality of the image should be such that, face recognition is possible at all instances.
3. The system shall have 6 nos. of minimum 2Mp wide angle IP cameras. Price of additional cameras including wiring rates should be quoted for further additions for optimum coverage at the time of installation.
4. Should have provision for recording 16 channels of H.264 video input streams with minimum 4TB of storage.
5. Should provide complete installation of the system including networking and power supply following approved wiring standards.
6. The system shall be linked with the existing network for monitoring at required terminals.
7. The output feed should be available and configured for remote online monitoring.
1. The system shall have temporary buffer storage to avoid break in recording during any network failures.