

**MINISTRY OF HEALTH & FAMILY WELFARE  
(GOVT. OF INDIA)**

**ALL INDIA INSTITUTE OF AYURVEDA (AIIA), NEW DELHI**

**Tender**

**for**

**Supply, Installation, Testing & Commissioning of Mortuary  
System at All India Institute of Ayurveda (AIIA), Sarita Vihar, New  
Delhi**

**VOLUME – III**

**TECHNICAL SPECIFICATION**

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**Tender No. HSCC/SES/AIIA/Mortuary/2013**

## TECHNICAL SPECIFICATION OF MORTUARY CHAMBER

### SCOPE OF WORK-

**Supply, installation, testing and commissioning and handover of complete Mortuary to hospital including all accessories and auxiliary items in accordance with the specifications, bill of quantities including Turnkey work and providing of free spare parts and service during 2 year Defect Liability Period.**

Mortuary chambers (4 bodies) shall be used for keeping cadaver under cool condition to prevent decomposition either for the purpose of conducting postmortem or before handing it over to the relatives of the dead patient.

- Double-walled prefabricated with CRC sheet and Angles/Channels and Polyurethane foam insulation and inner chamber shall be of Stainless steel-AISI-304. Outer body of Mortuary shall be epoxy coated.
- Mortuary Chamber shall have Front opening Doors
- The hinged doors shall be insulated using PUF and assembled with magnetic gasket, handle and lock arrangement & keys for each dead body.
- Stainless Steel (AISI-304) Tray formed of one seamless sheet for dead bodies with a tubular edge and handle at both ends
- Mortuary Chamber shall be equipped with telescopic track system along with carriage assemblies and suitable locking arrangement
- Equipped with refrigeration unit of sealed compressor is incorporated outside the chamber.
- Working Temperature  $-2^{\circ}\text{C}$  to  $+8^{\circ}\text{C}$
- Microprocessor controlled. Control Panel shall be placed in the front top of chambers and equipped with Microprocessor based Temperature controller cum indicator with pilot lamp, switch

The Mortuary Chamber shall be suitable for keeping **4 dead bodies** and shall be complete with refrigeration system, locking arrangement, SS steel tray, Loading Trolley and Foul Order Treatment by means of Activated Carbon filter for De-Odorizing System.

## Turnkey Work

- **Electrical cabling** of IS: 1554 standard and wiring as per IS : 732 standard and of adequate capacity to bear total electrical load required for Mortuary from **nearby MDB/Substation in the hospital** to the Electric Distributional Panel(EDP) of Mortuary room and from the EDP to the corresponding load points.
- Providing fixing of **Electrical Gadgets** like ELCB, MCB, Light Points, Power points, Fans, Cool air Fans, Exhaust fan etc in the Mortuary room. Number of fans, power point, bulbs/tube light. Apart from these supplies to the individual equipments with ELCB & MCB in the Mortuary room. Installation of MCB, ACB, ELCB & OCB of Havell/Siemens/L&T/Schneider etc for Control Panel for Mortuary.
- Arrangement for requisite **Fire Fighting** for the entire effective zones in the Mortuary Room
- Additional work pertaining to Civil, Electrical, Furniture, Plumbing, Sanitary, Servo stabilizers/U.P.S etc. and any other protections relevant as per State/Central Govt. regulation/local authority required for successful installation testing and commissioning of the system and the offered price should include all such costs, each Schedule is to be considered a package in itself and contractor to execute the order in package on a “turnkey basis”.

**In addition to the above mentioned equipment/appliances**, if the contractor thinks it necessary to include any other equipment/appliances, accessories etc. for the Mortuary then that may be provided after approval from Engineer in-charge.

The sizes are approximate. Minor variations in sizes shall be acceptable subject to prior approval of the Engineer.

1.	Air Blower	SWAM/ EVEREST/ KAY/Beta
2.	Blower/Suction Motor	KIRLOSKAR/ NGEF/ SIEMENS/CROMPTON/ABB
4.	Cable	SKYTONE/KEI/UNIVERSAL/NATIONAL/RR CABLE
6..	Control Panel	L & T/ SIEMENS/ SCHNEIDER
10.	Valve	LEADER/ ZOLOTO /CRI
11.	PVC Pipe Class III with Fitting	FINOLEX/ SUPREME/ PRINCE/ ORI-PLAST
12.	G.I. / M.S. Pipe Heavy Class	TATA/ JINDAL(HISSAR)/SAIL /SURYA PRAKASH
19.	MCCB/Contactor/Relay	L&T/ABB/SIEMENS/SCHNEIDER

20.	Pressure Gauges	H.GURU /FIEBIG
21.	StainlessSteel	TATA/SALEM/JINDAL/MUKUND/BHAYANDER/AMBICA

**Note :**

- **The bidder should attach Technical Compliance item wise with respect to the above technical specifications and turnkey work along with Printed catalogues**
- **The contractor shall be responsible for the complete works including Turnkey work, submission of working drawing and walk through view.**
- **The contractor should provide complete List of Commonly used Spares, Operation manual, Equipment manual, Service manual and manuals for all systems and subsystems.**
- **Final electrical and pressure and other safety test, system test and calibration should be done by authorized person with test instruments.**
- **The contractor should provide all electrical accessories like cable wire, electrical outlets, switches etc, and they should be fire proof of reputed make, certified for electrical safety.**
- **Wherever makes have not been specified for certain items, the contractor should provide the same as per BIS and as per approval of HSCC.**
- **Training of personnel of the Institute should be by the contractor.**
- **The contractor should prepare and submit layout plan for Steam Pipeline, Electrical Wiring, Electrical Distributional Panel, Plumbing, Fire Fighting System, Air Washing and Ventilation and Drain line to HSCC for approval before beginning of supply and installation and As built drawing after installation.**
- **The contractor should provide test certificate for all materials along with manufacturer's test certificate and equipments used for Mortuary.**