

**SPECIFICATION OF CONSOLES**

- There are 24 segments of consoles as required for following AIIIS facilities

#	Facility	Consoles (segments)
1.	Automated Cryo surface Cleaning Facility (ACCF)	04
2.	Proof Pressure Test Facility-2 (PPTF-II)	08
3.	Water Flow Test Facility -1 (WFTF-I)	04
4.	Water Flow Test Facility -2 (WFTF-II)	04
5.	PS4 Instrumentation facility	04
<b>Total</b>		<b>24</b>

- The console shall have work surface with a closed equipment cabinet below to accommodate equipments like CPU, Intercom Unit, power supply and surface to accommodate other equipments of similar size.
- The consoles shall be provided with aesthetically pleasing curved end panels.
- The layout of console shall have curved design.
- Console should be designed in accordance with the ergonomics standards and accepted human factors guidelines of ISO 11064.
- Console shall be BIFMA X5.5 compliant.
- Work surface:** The work surface includes a flat work area, PC mounting provision, a slanting surface for mounting switches and communication equipments on a removable panel.
  - The work surface shall be premium acrylic solid surface material with glossy finish (re-polishable) and should seamlessly integrate with the slanting portion housing the panel for switches.
  - Both ends shall be thermoformed and create continuous water fall edge to increase the aesthetics of console.
  - The thickness of acrylic solid surface shall be of 12mm min. This surface shall be mounted on Metallic frame.
  - Surface to floor height shall be of 750mm with 50mm height adjustable floor levelling bolts.
  - Work surface depth shall be of 900mm. The width of each console segment shall be of 800mm.
  - The work surface shall be a single unit, seamlessly integrated over the whole cluster of segments. Work surface shall be continuous at joints of segments.

- The acrylic work surface shall have Aluminum frame underneath for support and must be rigidly fixed to the cabinet structure to form an integral unit.
- Work surface front edge shall be inbuilt ergonomic sloped with bull nose front edge. T-mould, PVC edge or vinyl edge trims are not acceptable.
- The bearable static load shall be of 50kg.
- Sliding keyboard tray under the work surface shall be with ball bearing operation. Friction or roller type slides are not acceptable.
- The work surface of console shall support articulated arms for mounting the TFT/LCD flat monitors (diagonal size: 24 inches) with PAN (180°) & TILT ( $\pm 20^\circ$ ) adjustment mechanism.
- Slanting surface shall be provided with a removable panel for mounting illumination switches and Authorization keys.
- Slanting surface angle shall be of 60 degrees. The depth of this slanting surface shall be of approximately 150mm.
- The edges of the back removable panel shall be of good finishing so that it looks continuous.
- Easy human access to remove and re-fix the removable panel shall be possible. Also holed profiles suitable for mounting 19" width 1U height and 225mm depth intercommunication equipment shall be provided where necessary.
- The rear view of the console shall be aesthetically pleasing and shall be provided with slat wall.
- **Cabinet:**
  - The console shall be provided with a rigid structured cabinet below the work surface, heavy-duty pullout tray arrangement to accommodate tower /desktop CPU configuration of computer workstations, VGA Distributors, power supply units and other necessary equipments.
  - Complete frame structure shall be of made of heavy duty Extruded Vertical and Horizontal Aluminum profiles of 6036T6 grade. The Extrusions shall be duly powder coated with min 40 micron over all surfaces.
  - Except frame structure, rest of cabinet shall be made from Cold Rolled Steel (CRS) Metal (14 Gauge) with powder coated finish.
  - The structure shall comply to BIFMA X5.5. The structure shall allow easy assembly of Gland Plate, Monitor arms etc in extremely rigid manner.
  - The front side of cabinet shall be fully closed. The accessibility shall be provided from rear side alone.
  - It shall be possible to pull out the tray from rear side of the console. Pull out shall be possible to a maximum of 150mm from the face of the console cabinet.

- Rear access doors shall provide accessibility for easy installation, operation & servicing of the equipments inside the console.
- Pull out tray shall have load bearing capacity of approximately 35kg.
- The console shall be designed to have adequate space for accommodating the CPUs & accessories.
- The Console shall have earthing provision in structure.
- The cabinet shall be provided with holed profiles for mounting 19" width equipments where ever required.
- Console cabinet shall be provided with fan for Cooling.
- The console shall be provisioned with concealed electrical outlets, information outlets (LAN) and RJ -11 Telephone jacks.
- The provision for mounting of electrical outlets and telephone jacks shall be designed for flexible placement of monitors, telephones, intercommunication units and laptops on the console with zero cable clutter on the work surface.
- Industrial grade metal powder coated finish Universal socket type Power Distribution unit (5A, 5Nos and a master MCB) must be provided for power supply.
- Cable entry holes shall be provided in Support legs of the cabinet for data and power cables entry in console cabinets.
- PVC cable ducts with covers shall be provided for concealed and neat cable routing.
- Grommets/Gasket shall be provided for cable entry holes to avoid damage of cables.
- Sharp edges at the consoles base shall be avoided.
- **End Panels:**
  - The end panels shall be premium acrylic solid surface material with glossy finish (re-polishable) and should seamlessly integrate with the structure.
  - The leg cover element shall cover the structure and should increase the aesthetic look of the console.
  - The end panels at the extreme end of consoles shall matching curved shapes designs.

**The designs/layouts attached with the specifications are only indicative and are provided to clarify the requirements. Vendor shall provide aesthetic designs meeting all the operational/functional criteria for the control room.**

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