



MEDGENZ

NABH Modular Operation Theatre Checklist

A practical pre-commissioning, inspection and handover checklist for Modular Operation Theatre projects.

Prepared by MedGenz India Private Limited	Document Type Modular OT Compliance Checklist
Reference Basis NABH OT ventilation guidance and hospital accreditation expectations	Revision 1 July 2026

1. Civil Interface and Room Readiness

Sr.	Checklist Item	Verification / Evidence	Status	Remarks
1	Approved OT layout, room dimensions and workflow zoning are available.	Approved GA drawing, zoning plan and site measurement record.	Yes No N/A	
2	Civil works are complete and moisture-free before panel installation.	Civil completion certificate; dampness / seepage check.	Yes No N/A	
3	No exposed cracks, gaps or dust-generating unfinished surfaces remain.	Visual inspection and snag closure report.	Yes No N/A	
4	Floor level, plinths, drains and service openings match the approved layout.	Level survey and approved coordinated drawing.	Yes No N/A	
5	All penetrations for utilities are sealed after installation.	Visual inspection; penetration sealing record.	Yes No N/A	

2. Modular Wall, Ceiling and Floor System

Sr.	Checklist Item	Verification / Evidence	Status	Remarks
1	Wall panels are seamless, cleanable and free from visible damage.	Panel material specification and visual inspection.	Yes No N/A	
2	Ceiling system is flush, rigid and allows access for maintenance where required.	Ceiling layout, service-access confirmation.	Yes No N/A	
3	Wall-to-floor junctions are coved / sealed for cleanability.	Visual inspection and material detail.	Yes No N/A	
4	Conductive or antistatic vinyl flooring is installed where specified.	Flooring data sheet, continuity / antistatic test where applicable.	Yes No N/A	
5	Panel joints, corners, service cut-outs and skirting are sealed without gaps.	Visual inspection and snag list closure.	Yes No N/A	
6	Surface finishes are compatible with hospital-grade cleaning and disinfection.	Manufacturer data sheet and cleaning compatibility statement.	Yes No N/A	

3. Doors, Windows and Pass Box

Sr.	Checklist Item	Verification / Evidence	Status	Remarks
1	Hermetic / sliding OT door is installed with proper closing and sealing action.	Functional test and commissioning record.	Yes No N/A	
2	Door opening direction, clear width and emergency access are as approved.	Approved drawing and physical measurement.	Yes No N/A	
3	Door interlocks, sensors and emergency release functions operate correctly where provided.	Functional test record.	Yes No N/A	
4	Viewing panels / windows are flush, sealed and free from cracks.	Visual inspection.	Yes No N/A	
5	Pass box is installed, sealed and functional where included in scope.	Functional test and equipment specification.	Yes No N/A	

4. HVAC, Laminar Flow and Environmental Controls

Sr.	Checklist Item	Verification / Evidence	Status	Remarks
1	Dedicated AHU is provided for the OT or documented common-AHU redundancy / contingency arrangement is available.	HVAC design drawing, equipment schedule and contingency plan.	Yes No N/A	
2	Total air changes meet the approved design and NABH guideline requirement.	TAB report / air-change calculation.	Yes No N/A	
3	Fresh-air component is documented and meets the approved design.	Fresh-air measurement / HVAC design report.	Yes No N/A	
4	Unidirectional downward airflow over the OT table is provided where applicable.	Laminar flow layout and airflow test.	Yes No N/A	
5	Positive pressure differential is maintained between OT and adjoining spaces.	Pressure differential test report and display reading.	Yes No N/A	
6	Terminal HEPA filtration / AHU filtration arrangement is installed as designed.	Filter schedule, installation record and specification.	Yes No N/A	
7	Temperature and relative humidity monitoring/display are installed and operational.	Functional check and calibration certificate where applicable.	Yes No N/A	
8	Outdoor air intake location is away from contamination sources.	Site inspection and HVAC layout drawing.	Yes No N/A	
9	No window AC or split AC is used inside the OT.	Visual inspection.	Yes No N/A	

5. Electrical, UPS and OT Control Panel

Sr.	Checklist Item	Verification / Evidence	Status	Remarks
1	Dedicated electrical distribution board is installed with identification labels.	Single-line diagram and panel labels.	Yes No N/A	
2	Essential circuits, UPS / generator backup and earthing are available as per approved design.	Electrical test certificate and SLD.	Yes No N/A	
3	OT control panel displays required parameters / controls as per scope.	Functional test and panel checklist.	Yes No N/A	
4	Nurse call / alarm interfaces are tested where included.	Functional test record.	Yes No N/A	
5	Electrical sockets, isolators and service outlets are properly labeled and secure.	Visual inspection and electrical safety test.	Yes No N/A	
6	Emergency lighting is functional and connected to backup supply where specified.	Functional test report.	Yes No N/A	

6. Medical Gas Pipeline System (MGPS)

Sr.	Checklist Item	Verification / Evidence	Status	Remarks
1	Medical gas outlets are provided as per approved OT layout and specialty requirement.	Approved MGPS layout and outlet schedule.	Yes No N/A	
2	Outlets are correctly labeled for gas type and physically protected.	Visual inspection and labeling check.	Yes No N/A	
3	Pipeline pressure testing, leak testing and purity documentation are available.	MGPS commissioning / test certificates.	Yes No N/A	
4	Area valve box / zone valve arrangement is accessible and labeled.	Visual inspection and as-built drawing.	Yes No N/A	
5	Alarm / monitoring provisions are functional where included.	Functional test record.	Yes No N/A	

7. Equipment Integration and Safety

Sr.	Checklist Item	Verification / Evidence	Status	Remarks
1	OT lights are securely installed, balanced and operational.	Functional test and installation record.	Yes No N/A	
2	OT table integration, pendant / boom positioning and clearances are verified.	Functional test and clearance check.	Yes No N/A	
3	Equipment load points and ceiling reinforcements match approved equipment loads.	Structural support drawing and vendor confirmation.	Yes No N/A	
4	Radiation shielding requirements are addressed where radiological equipment is used.	Approved shielding drawing / relevant regulatory documentation.	Yes No N/A	
5	Fire detection, extinguishers and emergency response provisions are available as required.	Fire NOC / equipment inspection / safety checklist.	Yes No N/A	

8. Infection Prevention, Cleaning and Documentation

Sr.	Checklist Item	Verification / Evidence	Status	Remarks
1	OT cleaning and disinfection SOPs are available and staff are trained.	SOP, training attendance and competency record.	Yes No N/A	
2	Preventive maintenance plan exists for HVAC, HEPA filters, control panel, doors and other systems.	PM schedule and vendor maintenance plan.	Yes No N/A	
3	Environmental validation is planned at commissioning and every six months as applicable.	Validation calendar and previous reports where applicable.	Yes No N/A	
4	Validation includes temperature, humidity, particle count, air-change rate, air velocity, pressure differential and HEPA filter tests.	Third-party validation report / test scope.	Yes No N/A	
5	As-built drawings, O&M; manuals, warranties and test certificates are handed over.	Document handover index.	Yes No N/A	
6	Open snag items are documented with owner, responsible person and closure date.	Snag register and closure report.	Yes No N/A	

Final Commissioning and Handover Sign-off

Area	Name	Signature	Date
Hospital Representative	-	-	-
MedGenz Project Representative	-	-	-
HVAC / Validation Agency	-	-	-
Quality / NABH Coordinator	-	-	-

Reference Notes

1. NABH Revised Guidelines for Air Conditioning in Operation Theatres (2018): references air changes, pressure differentials, HEPA filtration, air quality, temperature, relative humidity, maintenance and validation requirements.

2. NABH Hospital Accreditation Standards, 6th Edition (January 2025): broader hospital quality, patient safety and infection prevention framework.

3. MedGenz Modular Operation Theatre product information: modular panels, conductive / antistatic flooring, laminar airflow, HEPA filtration, MGPS, OT control panel and hermetic doors.

Disclaimer: This is an original, practical checklist prepared for project and audit support. It is not a substitute for the latest official NABH standards, statutory approvals, hospital policies, or third-party validation requirements.