

Swachh Bharat Mission was launched throughout the length and breadth of the country as a national movement; it is the most significant cleanliness campaign by the Government of India.

Kayakalp Yojana a part of Swachh Bharat Mission’s objective is to create and share sustainable practices related to improved cleanliness in public health facilities linked to positive health outcomes.

KayaKalp Audit guidelines

http://qi.nhsrindia.org/sites/default/files/Kayakalp_2021%20%28with%20eco%20friendly%29.pdf

Artefact # 1 (Isolation Ward)

Please refer sections: D7.1 / 7.2 (Doc Page 67)

D7	Isolation and Barrier Nursing			5
D7.1	Provision of Isolation ward	OB	Check if isolation ward is available in the hospital	1
D7.2	Infectious patients are not mixed for general patients	OB/SI	Check infectious patients are admitted in infectious ward only	1
D7.3	Maintenance of adequate bed to bed distance in wards	OB	A distance of 3.5 Foot is maintained between two beds in wards	1

A medical centre will need isolation wards to support Emergency Room, Critical Care, ICU, Post Surgical Care, etc

Mandate / Condition	Existing Challenges	PneoTerik Solution	Benefits
Provision of Isolation Ward	High Capex, running costs; takes longer to implement	NPE (Negative Pressure Enclosure)	Existing ward shall be modified quickly; attractive ROI; scalable solution.
Patients not mixing with others	Expensive and difficult to accomplish;	NPE Chambers; one per patient	Ensures complete isolation; protecting others in the ward

Artefact # 2 (Infection Surveillance)

Please refer sections: D9 (Doc Page 68)

D9	Hospital Acquired Infection Surveillance			5
D9.1	Regular microbiological surveillance of Critical areas	RR/SI	Check for the records of microbiological surveillance of critical areas like OT, Labour room, ICU, SNCU etc.	1
D9.2	Hospital measures Surgical Site Infection Rates	RR/SI	Check for the records	1
D9.3	Hospital measures Device Related HAI rates	RR/SI	Check for the records	1
D9.4	Hospital measures Blood Related and Respiratory Tract HAI	RR/SI	Check for the records	1
D9.5	Hospital takes corrective Action on occurrence of HAIs	RR/SI	Check for the records	1

Govt mandates regular surveillance of critical areas to ensure HAI (Hospital Acquired Infections) is kept at minimum and expects the centres to measure and record the infection data. Govt also mandates the centres to take corrective actions.

Mandate / Condition	Existing Challenges	PneoTerik Solution	Benefits
Microbiological Surveillance	Labour Intensive; need expensive systems to perform	Patented IOT Sensors & Auto Data collection / Analytics	Almost real-time data is available with dashboards
Measure Infection Rates	Need additional devices to measure; need a system to store and analyse	IOT enabled devices and cloud storage will be leveraged	Effective, low cost solution with dashboards are available

Artefact # 3 (Environment Control)

Please refer sections: D10 (Doc Page 69)

D10	Environment Control			5
D10.1	Maintenance of positive air pressure in OT and ICU	OB/SI	Check how positive pressure is maintained in OT	1
Ref. No.	Criteria	Assessment Method	Means of Verification	Compliance
D10.2	Maintenance of air exchanges in OT and ICU	OB/SI	At least 15 to 20 air changes per hour	1
D10.4	Surface cleaning and safe fogging of OT	OB/SI	Check surface of OT are cleaned daily and fogging is done by using safe product containing H ₂ O ₂ (Hydrogen Peroxide), silver compounds	1

Government mandates purified air is supplied in OT / ICU at positive pressure. Medical Centers are needed to maintain air exchanges, cleaning and fogging.

Mandate / Condition	Existing Challenges	PneoTerik Solution	Benefits
Positive Pressure Maintenance	Difficult to maintain the required ACPH	Enhances ACPH; helps maintain air quality	Portable add-on to support ACH; low cost
Maintenance / Cleaning	Difficult to measure; laborious effort	Auto Cleaning Design	Improved quality with data; low cost