

About Mission Hospital

The mission hospital started its operation on 2 April 2008.this first speciality corporate hospital in eastern India outside Kolkata

- ❖A 350 bedded super-speciality hospital
- ❖The NABH accredited, Mission Hospital, Durgapur is now also an Associate Member of the International Hospital Federation (IHF) for the year 2017.
- ❖World Patient Safety Day 2021:- Runner Up
- ❖5th Best hospital In Cardiology
- ❖A digital flat panel Cath lab,
- ❖Seven major operation theatres
- ❖A 100-bed critical care unit
- ❖Emergency pneumatic tube system
- ❖CTVS ITU /CSSD

VISION: To provide affordable quality health care to patients by incorporating improvement in its day –day Schedule

MISSION:-To become a centre of excellence in healthcare by bringing tertiary level healthcare to the people of eastern India

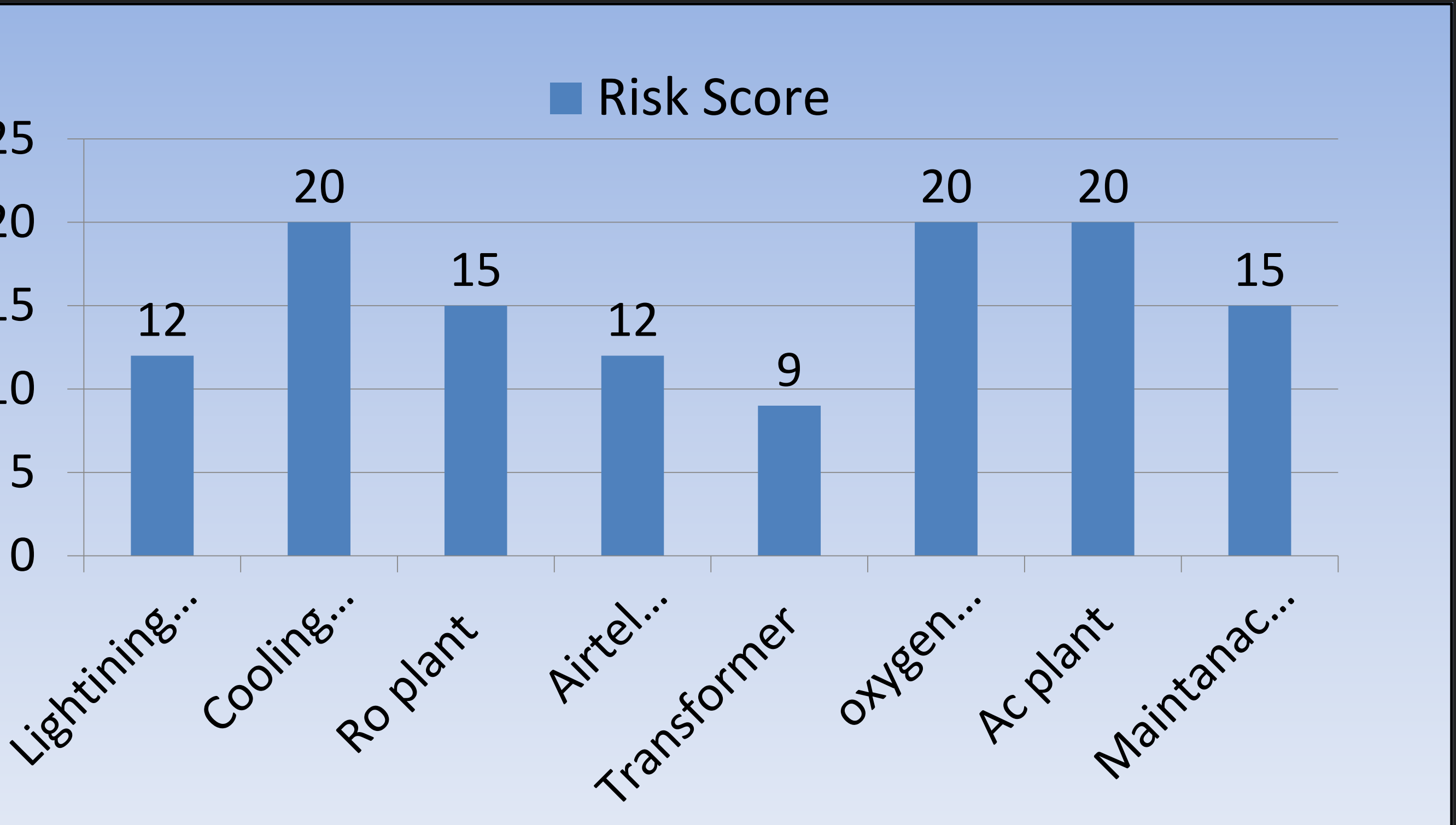
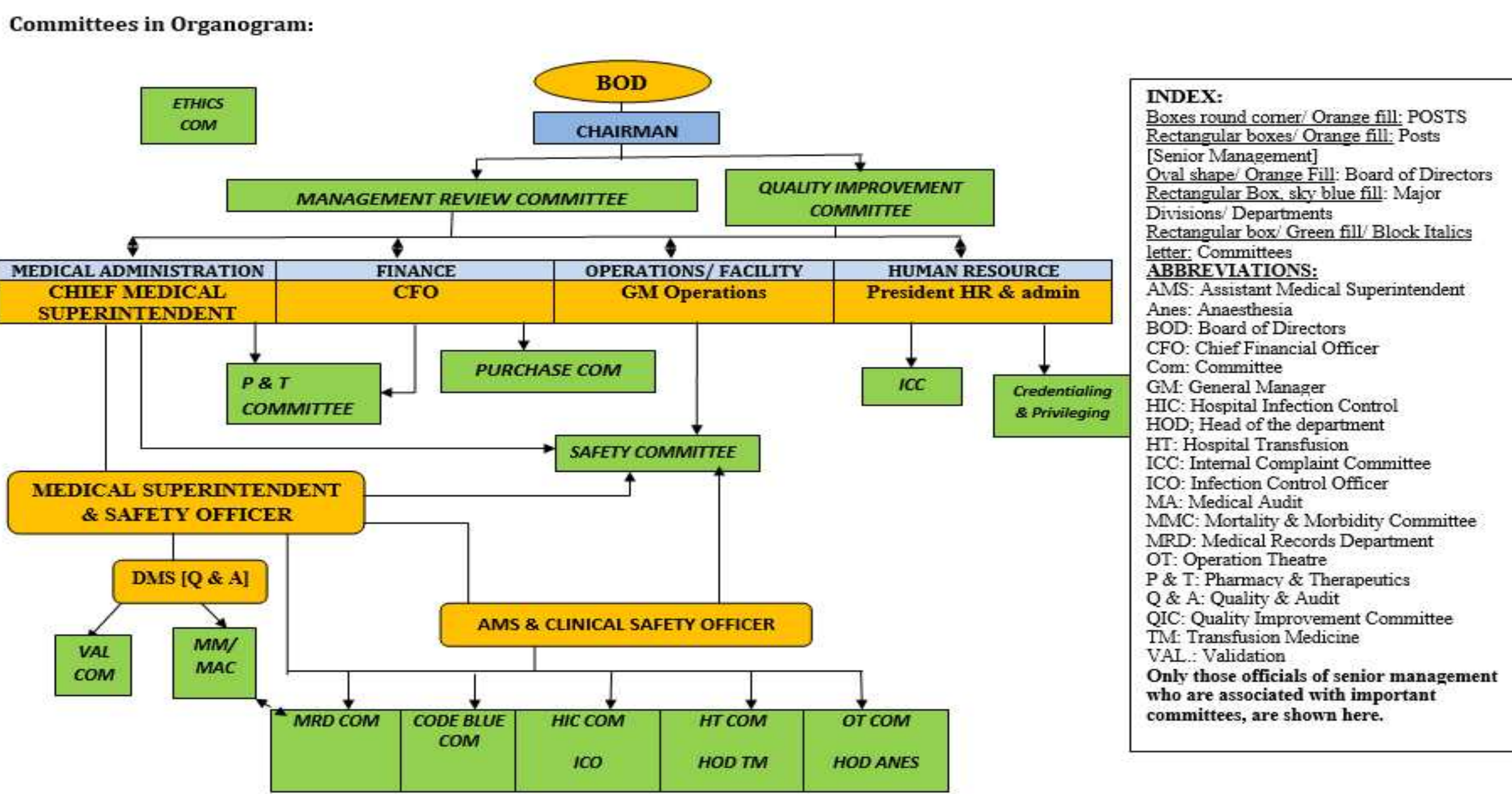
THEORETICAL WORK

- ❖Patient Safety Goal in NABH Context
- ❖Essential quality improvement through NABH Audit
- ❖Risk Assessment through FMEA And HIRA
- ❖Identifying Hazard, Risk and possible Corrective and Preventive actions

		Likelihood				
		1 Rare	2 Unlikely	3 Possible	4 Likely	5 Almost Certain
Consequences	5 Catastrophic	5 Moderate	10 High	15 Extreme	20 Extreme	25 Extreme
	4 Major	4 Moderate	8 High	12 High	16 Extreme	20 Extreme
	3 Moderate	3 Low	6 Moderate	9 High	12 High	15 Extreme
	2 Minor	2 Low	2 Moderate	6 Moderate	8 High	10 High
	1 Negligible	1 Low	2 Low	3 Low	4 Moderate	5 Moderate

PRACTICAL WORK

RISK AREAS	RISK
1. RO PLANT	Water contamination
2. COOLING TOWER HAZARDOUS MATERIAL	Stagnation of water in cooling tower may lead to several diseases like malaria, bacterial, air borne infection.
3.LIGHTNING ARRESTER	Non functioning of Earthing arrester
4. FIRE ALARM	Failure of alarms system and monitoring of fire safety
5.OXYGEN STORAGE	Failure of oxygen depletion monitor
6.Heat,Ventilation,Air conditioning	Hot equipment increases the possibility of burns.
7.ELECTRICAL EQUIPMENT	Contact with live parts causing shock and burns. Faults which could cause fires



LEARNING AND VALUE ADDITIONS DURING SUMMER TRAINING

Application of Mech Engineering in hospital setting
Quality Concepts: Patient Safety, NABH, etc
Documentation of Uninterrupted process unit

USEFULNESS OF SUMMER TRAINING

- ❖Built confidence
- ❖Exposure to the real hospital functioning
- ❖Relevance of hospital management along with Mech Engineering
- ❖This exposure will help probable to relate with second year modules

SUGGESTIONS

- ❖ Mock drill for fire safety follow the standard procedures like twice a month for all the dept
- ❖ Regular (once a day) Maintenance of Hazard material in Hospital
- ❖ Cleaning of Heat, Ventilation, Air Conditioning plant as per the norms
- ❖ RO Plant TDS must be Checked

SWOT ANALYSIS



RISK	PROBABILIT Y FREQUENCY (5-1)	SEVERIT Y SCORE/I MPACT SCORE (5-1)	RISK SCORE	Corrective Action	Preventive Action
Assembly area has been occupied by parked cars of the staffs	5	2	10	*Assembly area guarded with tie ropes *Board notifying the area as assembly area *No parking area *Separate parking area for 2 wheelers allocated nearby	*Staff education regarding no parking zone *Disciplined car parking in the remaining space
*Annexure building construction not properly covered with safety net risk of falling debris ,High risk for Movement of Staff to Laundry and molecular lab	4	4	16	*Initial the scaffoldings were protected *To prevent falling debris ,protective nets were given *Frequent rounds by security team to cautim the passes by	*The building area to be isolated with sheets to prevent people coming to danger zone *Green sheets to be in place to prevent loose items to be thrown away in air *Restricted zone /path to be declaved
*Front façade /main gate there is lack of use of separate walk way for the pedestrian	4	3	12	*Posting of a dedicated security personnel to guide walking patients to go through the walkway *Barricading the pathway with rails , So that people cant move to the pathway used by vehicles	*Board to be put up to instruct and educate people to use the pathway *Unidirectional path by pedestrian to be used like in case of vehicles
Illegal parking in ambulances/commercial cars ,there is increased Turnaround time for patient vehicles	4	2	8	Bar-coding the area with rope Security posting	*Liasoning with Local authorities to allocate a separate area for their parking *Discussion with ambulance owners for their cooperation and more orderly parking

RISK	PROBABILITY FREQUENCY (5-1)	SEVERITY SCORE/IMPACT SCORE (5-1)	RISK SCORE	Corrective Action	Preventive Action
*No Separate gates for entry and exit of the patients	5	1	5	*A Separate gate should be allocated for Walking patient for exit (the VIP gate maybe used	*Proper moving of the gate by Security Personners
*Cooking gas cylinders are improperly stored outside canteen block with inadequate fire fighting measures	4	2	8	*Dry and automated fire fighting measures installed *Sand Buckets repaired *Pressure valves and pipings/ tubing's are checked	*The gas cylinders should be stored in a restricted area *Proper CCTV Camera *Security Personnel *Proper fire Detection Systems
*Due to construction of annexure building ,there is no way-traffic entry and exit of the ambulances in ED	4	2	8	*1 ambulance to enter the gate and ramp at one time *Security personnel to coordinate *Front on parking area to be kept vacant	*Early completion of the connecting bridge may elevate the problem *Board in the Ed gate for Entry and exit Instruction
*Non-functioning air curtains in the main gate Absence of air curtains in emergency gate and staff entry gate through maintenance , there is increased insects and pests	5	1	5	*Installation of air curtains in the Staff entry Gate *Repairing of the air curtains in the Front Gate	*Regular preventive maintenance of the air curtain *Auto closer/Hydraulic door closer in doors
*Stretchers are not maintained properly with malfunctioning of wheels	4	2	8	*Change of stretcher wheels/lock system *New Stretcher also Sought	*Regular preventive Maintenance of the stretcher
*Stretchers are not maintained properly with malfunctioning of wheels	4	2	8	*Change of Stretcher Wheels /lock System *New Stretcher also sought	*Regular Preventive Maintenance of the Stretcher