



8th Edition

CAHOCON 2024



The event for people who care!



CHRISTIAN MEDICAL COLLEGE VELLORE RANIPET CAMPUS

EXCELLENCE

KNOWLEDGE PARTNER



**FIRE & LIFE SAFETY
EXCELLENCE AWARD
FOR HOSPITALS**



Infrastructure @ CMC Vellore – Ranipet Campus

- Constructed Area – 1,70,000 Sq. Mt or 18,29,200 Sq. ft
- Total Inpatient Beds – 1200
- Bone Marrow Transplant Unit - 29
- ICU Beds – 169
- Operation Theatres – 43
- Lifts – 43 (Fire Lift - 7)





Fire Department

- Fire department manned by Chief Fire officer and Fire officers.
- Quality Manager and safety officer supports them with protocols, mock drills and evaluations



Number of Staff in Ranipet Campus - Fire Office

Staff	No. of Personnel
Chief Fire Officer	1
Fire Officer	1
Fire ASO	3
Fire Head Guards	18
Fire Engineer	1
Technician	5
STSG	75
Students	6



Fire Detection and Prevention Measures

- Fire detection
- Alarm system
- Communication system as PA (Public address)
- Smoke detectors
- Sprinklers
- Smoke exhaust
- Fire extinguishers
- Fire Compartmentation
- Building Management System



Our organization has prioritized fire safety with a robust infrastructure in place

Fire extinguishers	1668
Smoke detectors	11683
Manual Call Point	284
Sprinklers	28961
Fire hydrant points	228
PA systems	1800
Hose Reel & Box	505
Evac chair	12

Fire Extinguisher Details				
Type/ Campus	Co2	ABC	Foam	CA (N)
Ranipet Campus	1334	264	13	57

Sl. No	Capacity of Water storage units for firefighting purposes	Capacity in Liters	
		Total of sump in different areas	Total of over Head tank in different areas
1	Ranipet campus	10,00,000	1,21,500

Fire Fighting Pump House Ranipet Campus





Ranipet Campus - Fire Fighting Vehicles



**Ranipet Campus – Four Wheeler
TN23 DC 4128**

Two Wheelers for patrolling

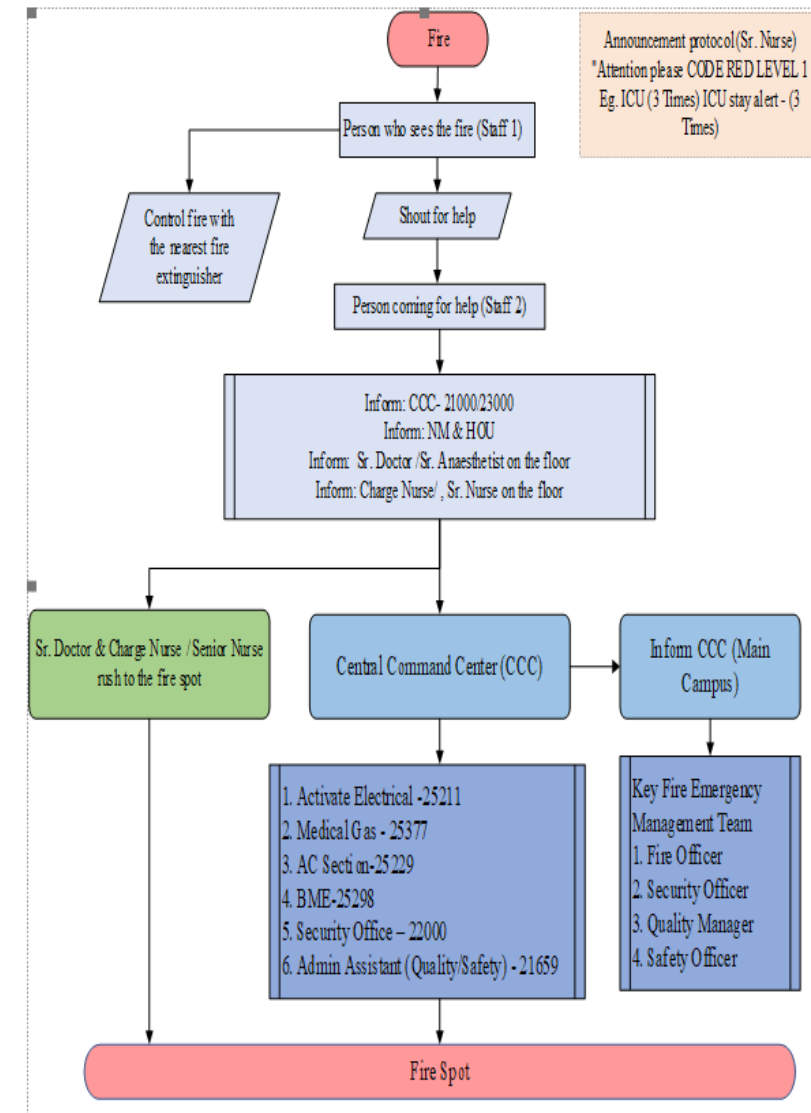


Emergency Evacuation Planning

- We have Developed comprehensive emergency evacuation plans that account for various scenarios, including fires, natural disasters, and medical emergencies. And we implemented alternative care site for each ward and OR's
- Monthly 4 Fire mock drills are conducted including OR and ICU.

Uniqueness In Emergency Evacuation

- Comprehensive protocol for each area/ department
- Alternative care site
- Defined escape route
- Announcement via PA system
- Emergency responders have defined roles and responsibilities
- Clinical teams have defined roles
- Mock drill conducted real time on spot.





If Level 2 Fire

Chief fire officer/ Fire officer assess and inform the level of fire to the decision making team
Decision Making Team
 (Responsible for affirming the level of fire and order for evacuation)
 1. Chief Fire Officer / Fire officer 2. Sr. Doctor 3. Sr. Nurse

Order for evacuation

Sr. Doctor and Sr. Nurse
 (Incident Commander for the evacuation process)

Triage patients.
 Inform alternate care site

Assign responsibilities to the staff to evacuate

Guide evacuation

Confirm that all the patients and staff are safely moved to their respective alternate care site

Fire Officer activate

Fire fighting

Deputy Security Officer to Activate Specially Trained Security Guards (S TSG) and rush to the fire spot

Deputy Security Officer assess the situation and inform Critical Incident Team through Chief Security Officer

Inform to CCC about level of fire

Central Command Centre (CCC)

Security office

Engineering Response Team
 1 Superintending Engineer
 2 Electrical Engineer
 3 Medical GAS Engineer
 4 AC Engineer

Rush to the spot and take control of the respective engineering systems

- Analyse the situation based on the report by CSO and activate the Local Fire Service & Police if required
- If the situation is brought under control, call off the incident through DSQ/CSO

Inform Main campus CCC

Critical holdnet Team Members Ranipet Campus
 1. Asst Manager (General Management)
 2. Admin Assistant (Quality/Safety)
 3. PA system technical Eng
 4. Associate Director
 5. Associate GS
 6. Associate NS
 7. Associate MS

Rush to the command center

Main Campus Critical Incident Team
 1. Quality Manager
 2. Safety Officer
 3. Public Relations Officer
 4. PA System Tech Er
 5. GS
 6. MS
 7. NS
 8. Director

- Liase will be respective Ranipet Critical Incident Team Members
- If required rush to Benibet Campus

CFO & CSO

Rush to Ranipet Campus

Update the situation to GS/ Associate GS

Announcement protocol CODE RED LEVEL 2 (Sr.Nurse)

1. Attention please CODE RED LEVEL 2 in ICU (3 times)
2.ICU evacuate - (3 times)
3.&..... ICU stay alert - (3 times)
4. Request staff from and ICU to rush to ICU for help
- 5 Request ICU to be prepared to receive the patients

Note: Staff coming for help should wait outside the affected ICU and accompany the patient while coming out of the affected ICU

Ranipet Campus – OR Fire mock drill



Fire Safety Committee

- **Meets every Quarter** (We have conducted 131 committee meetings till date)
- **Members** : General Superintendent (Chairman), Assoc GS (Convenor), Campus engineer , Nursing , Superintendent, Medical Superintendent representative, Nursing representative, Chief Security Officer , Quality Manager, Safety officer, Chief Fire officer, GM Officer
- Custodian of the minutes: Institutional Safety officer
- Functioning of the committee reviewed by institutional quality steering committee once a year



Minutes of the Fire safety committee (130th Fire committee meeting minutes)


7	Vibration pad for diesel generator fire pumps – RC	Cushioning (vibration pad) to be fixed for P4 & P5 diesel generator fire pumps – RC Work assigned to Kirloskar.	Mr. Caleb, Environment Engineering	InProgress	1 Month (30 – 01 – 2024)
8	Gland leak – RC	Gland leak in P3 electric pump to be addressed – RC PR raised	Mr. Caleb, Environment Engineering	InProgress	1 Month (30 – 01 – 2024)
9	Logic fault- RC	Logic fault in fire alarm and access control to be addressed and reviewed – RC Honeywell will address	Mr. Caleb, Environment Engineering	Discussed	1 Month (30 – 01 – 2024)

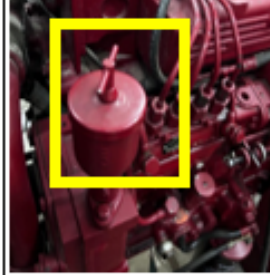
2	Fire rounds issues	The list of fire safety equipment's to be uploaded in the intranet under general services. QMC to coordinate in uploading the list.	Fire Services & QMC	In Progress	1 Month (30 – 01 – 2024)
3	AMC for fire	AMC for fire installation in Ranipet campus to be initiated. Contract with Honeywell, is in progress.	Mr. Caleb, Environment Engineering & Mr. Balasubramanian	InProgress	1 Month (30 – 01 – 2024)



Fire safety rounds – Monthly (Minutes of the fire safety rounds) (We have conducted 9 Fire Rounds in Ranipet Campus till date)

ISSUES IN FIRE AND SAFETY ROUNDS ON (28 - 02 - 2024)

S. No	Identified issues	Images	Responsible Department	Responsible Person
1	Diesel Inlet hose leaking in P4 Diesel pump to be addressed		Environment Engineering	Mr. Joshin

2	31/01/2024	Pump No. P5 Diesel Engine oil filter router found loose and rotating - (Long time Pending Issue)		Environment Engineering	Mr. Joshin
3	31/01/2024	Emergency lights (battery operated) to be placed in the pump house. Currently no light backup during power cut. Mr. Niranjana to coordinate and get it fixed.	Fire team	Mr. Niranjana	
4	31/01/2024	Underground fire hydrant line leak in the road near patient restroom: Fire hydrant line leakage to be checked in the trench near patient rest room and the same to be rectified, if the leak is evident. Civil to inform the date of repair since it involves road closure on one side. Mr. Niranjana to coordinate with civil, security team and environmental engineering team (for repair).	Environment Engineering & Fire Team	Mr. Joshin & Mr. Niranjana	



Another Institutional Initiative

- “Training on hospital fire fighting management & safety “
- First in the country
- It focuses on supporting the economically weak candidates who are unable to pursue further studies due to economic or familial challenges.
- 6 candidates were trained and awarded with a certification from HSSC (HEALTHCARE SECTOR SKILL COUNCIL).
- Stipend of Rs. 6000

CHRISTIAN MEDICAL COLLEGE VELLORE & HEALTHCARE SECTOR SKILL COUNCIL

APPLY FOR 1 YEAR JOB ORIENTED TRAINING ON HOSPITAL FIRE FIGHTING MANAGEMENT & SAFETY

WHAT DO YOU LEARN FROM THIS TRAINING

- Emergency fire fighting techniques
- Fire fighting equipment operations
- Fire fighting equipment maintenance

QUALIFICATION
 + 2 or ITI or Diploma in Engineering

BENEFITS OF THE COURSE

- Good job opportunities in hospitals
- Certified by Healthcare Sector Skill Council & Christian Medical College Vellore

DURATION
 12 months

STIPEND
 Rs. 6000/ month

HOW TO APPLY

- Collect the application form from CMC Vellore (Town campus) Security Office, between 1st & 15th March '24.
- The filled in forms along with the requested photocopies should be submitted to CMC Vellore (Town campus) Security Office on or before 15th March'24.

JOIN THIS BATCH ONLY 20 SEATS AVAILABLE

FOR DETAILS CONTACT SAFETY CELL CMC VELLORE 0416-2283661



Technology Adoption

- Electronic fire panel control with automatic logic system Shunt Tripping System
- AHU systems are automated
- Automatic smoke Exhaust
- Smoke damper for all AHU
- Addressable sensors during fire
- PA (Public announcement) systems
- Evac + Chair and Evacuation Equipment
- Issuance of hot work permit in hospital
- Mini Mist Fire Tender vehicle
- Controlled by BMS

Preventive Maintenance

All technologies are tested periodically during the monthly fire safety rounds.

All fire systems are tested based on the preventive maintenance schedules





Emergency Communication Methods

- Central Command Centre (CCC) to activate emergency codes including fire
- PA system
- Duty mobiles
- Walkie-talkies to fire team and security teams address emergency situations.
- Emergency phone numbers added to ID cards
- Fire alarm indicator inside CCC enhancing fast activation



CHRISTIAN MEDICAL COLLEGE VELLORE

HOSPITAL EMERGENCY CODE			
CODE	TYPE	MAIN CAMPUS	RANIPET CAMUPS
BLUE	CARDIAC ARREST / MET	75	75
RED	FIRE	3000	21000 (CCC)
PINK	CHILD ABDUCTION	2000	
BLACK	BOMB THREAT	2000	
ORANGE	CHEMICAL SPILL / SPLASH	8800	
PURPLE	VIOLENCE	8800	
YELLOW	RADIATION EXPOSURE / SPILL	8800	
WHITE	CHILD ABUSE	8800	8800
OTHER POTENTIAL HAZARD / INCIDENT		05334	0830020 5334
NEEDLE STICK INJURY		05121	0830020 5121
ENGG CONTROL ROOM		ONLINE	20001 / 20002

Central Command Centre (CCC) @ Ranipet Campus



The CMC Fire Team





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**IT WASN'T RAINING WHEN
NOAH BUILT THE ARK**

THANK YOU