

SRI VENKATESWARA INSTITUTE OF MEDICAL SCIENCE::TIRUPATI

EFFECTIVE FIRE SAFETY MEASURES IN SVIMS

Standard fire safety measures as per the best practices are being put in place at SVIMS, SPMC (W) hospital and college.



***PREPARED BY :-
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FIRE SAFETY OFFICER
M.NO. - 9501037130***

- Kill Fire Before It Kills you
- Fire safety on Accidents Gone
- Fire destruction is one man job
- Fire prevention is everybody's job



Present status report on fire safety equipments in SVIMS & SPMC(W)Hospitals

- Automatic sprinkler, auto detection & fire alarm system, fire extinguishers manually operated electric fire alarm and wet riser - **Available (Auto detection work is under process in svims)**
- Operational and maintenance plan for firefighting equipment including refilling of extinguishers - **Available**
- UP to date fire drawings to be available. Where applicable, the fire drawings should also specify the location of fire dampers - **Available**
- Fire detection and smoke detectors exist across all floors. The detectors shall be tested for functionality at regular intervals and records maintained - **In SPMC(W)Available, in SVIMS work is under process**
- Central fire alarm system is installed at a location which is staffed 24/7 – **work is under process - in SVIMS, In SPMC(W)Available**
- Fire exit plan for each floor. Exit door should be open able and free from any materials which will obstruct way - **Available**
- Fire exit signage on all floors well illuminated/self-glowing, as per NBC guidelines – **Available**
- Emergency illumination system in case power goes - **Available**
- Designated place for assembly of patients and staff in case of fire - **Available**
- Mock fire drill records and schedule of conduct of drills - **Available**

WORK PROGRESS REPORT ON FIRE SAFETY:

- With the help of TTD and engineering department fire hydrant system amounting to Rs. 1.95 crores has been completed during 2016-18.
- One security officer has been identified as Fire Safety officer and monitoring the system.
- The Fire equipment maintenance is checked monthly once by F.S.O & maintenance chart tag with equipment
- Conduct Cod Red mock drills once in a month in SVIMS & SPMC(W) Hospital
- Provided training classes and hands on to all categories on Fire safety and evacuation of patients to a safe in case zone of fire.
- SOP for Code RED, SOP for Fire equipment operational and Maintenance plan are available
- An application was submitted to the Director General, Andhra Pradesh Disaster response and fire services, Govt. of AP, Vijayawada for inspection of the buildings to issue Fire No Objection Certificate. The inspection fee of Rs. 14,58,393/- has been paid to Govt. of AP.
- The inspection committee have inspected the SVIMS premises on 14.10.2018 and the MSB inspection committee was submitted their report on 22.10.2018.
- The inspection committee submitted deficiency have been communicated. The same has been communicated to Chief Engineer, TTD.
- SVIMS has been started works on fire safety estimation was given, The Finance committee is approved to provide fire safety equipments and devices cost (approximate Rs. 3.97 crores) so as to get Fire NOC to SVIMS & SPMC(w) hospitals.

Fire pump house (main pump,diesal pump & jackey pump)

30mtr Fire hose reel & 15mtr each Double Fire Hose Cabinet



Wet Rise connector & Fire Splinkers



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Fire detection, smoke detectors & stand alone smoke detectors



Fire alarm Mannual call point



Fire Extinguishers Co2,ABC,BC types.



FIRE EMERGENCY RESPONSE PROCEDURE TIPS

In case of Fire

Shout "CODE RED, CODE RED...."

Call to 2229

SRI VENKATESWARA INSTITUTE OF MEDICAL SCIENCES



DEPARTMENT OF FIRE SAFETY

CODE RED NO. 2229



HOSPITAL FIRE SAFETY

There are **four** essential steps to take if you discover a fire:

R



Rescue
anyone in immediate
danger of the fire.

A



Alarm
Activate the nearest fire
alarm **and** call
your fire response
telephone number.

C



Contain
fire by closing all
doors in the fire area.

E



Extinguish
small fires. If the fire
cannot be extinguished,
leave the area and
close the door.

**You
should
know:**

- Locations of nearest fire extinguishers and alarm pull boxes
- The fire location - room number and building
- All fire exits in your work area

How to properly operate a Fire Extinguisher

P



Pull
the pin, release a
lock latch or press a
puncture lever.

A



Aim
the extinguisher at the
base of the fire.

S



Squeeze
the handle of the fire
extinguisher.

S



Sweep
from side-to-side at the
base of the flame.

IN CASE OF FIRE Dos & Don'ts



**SRI VENKATESWARA INSTITUTE OF MEDICAL SCIENCES
(SVIMS UNIVERSITY) TIRUPATI**



FIRE EMERGENCY CONTACT NO: 2229 (CODE RED)



Precautions:

1. All staff must know to operate the fire extinguisher
2. Know your buildings' escape route plan
3. Always keep the escape route must be clear for quick evacuation
4. Don't attach multi socket plug in a single socket
5. Don't store excess Inflammable things in working place

IN CASE OF FIRE EMERGENCY Do's & Don'ts

S.No	Do's	Don'ts
1.	Use Stair case	Do not use lift
2.	Switch off the main power supply	Don't use exhaust fan
3.	Keep a wet cloth on the face during evacuation to protect from smoke	Don't waste time to safeguard personal belongings
4.	Move towards the exit crawling low in case the room is filled with smoke	Don't panic
5.	Close doors and windows while leaving the fire zone	Do not run to the scene of fire without a fire extinguisher

జాగ్రత్తలు:

1. సిబ్బంది మొత్తానికి అగ్గిమాపక యంత్రము వాడే విధానము తప్పక తెలిసుండవలెను.
2. సిబ్బంది మొత్తానికి భవనం నుండి తప్పించుకొనే మార్గ ప్రణాళిక తెలిసుండవలెను.
3. ఎల్లప్పుడూ తప్పించుకొనే మార్గాన్ని స్పష్టంగా ఉంచండి.
4. ఒకే సౌకెట్లో బహుళ సౌకెట్ల ప్లగ్గ్ అటాచ్ చేయకండి.
5. పని ప్రదేశాల్లో మండే వస్తువులను ఎక్కువగా ఉంచకండి.

చేయదగినవి మరియు చేయకూడనివి

S.No	చేయదగినవి / Do's	చేయకూడనివి / Don'ts
1.	మెట్ల మార్గాన్ని ఉపయోగించండి	లిఫ్టును ఉపయోగించకండి
2.	ప్రధాన విద్యుత్ సరఫరాను ఆపివేయండి	ఎగ్జాస్ట్ ఫ్యాను ను ఉపయోగించకండి
3.	పొగ నుండి రక్షించుకొనుటకు ముఖము పై తడి బట్టని కట్టుకొనవలెను	మీ వ్యక్తిగత వస్తువుల కోసం సమయం వృధా చేయకండి
4.	గదిలో పొగ ఎక్కువైనప్పుడు నేల మీద ప్రొకుతూ వెలువలకు వెలువలయును	భయపడనవసరం లేదు
5.	అగ్గి ప్రమాదము జరిగిన స్థలము నుండి విడిచి వెళ్ళేటప్పుడు కిటికీలు మరియు తలుపులు మూసివేయవలెను.	అగ్గిమాపక పరికరము లేకుండా అగ్గిని అర్చుటకు వెళ్ళకండి

Conducting of Fire Safety Class and code red mock drill once in a month



Demo on fire safety equipments and hands on given to SVIMS staff.



Fire mock drill patients shifting through rescue team by 4 hands sheet method



Shifting of patient on single man lift method/supporting on shoulder



Shifting of patient on stretcher

Patient loading in ambulance vehicle
during code red activation

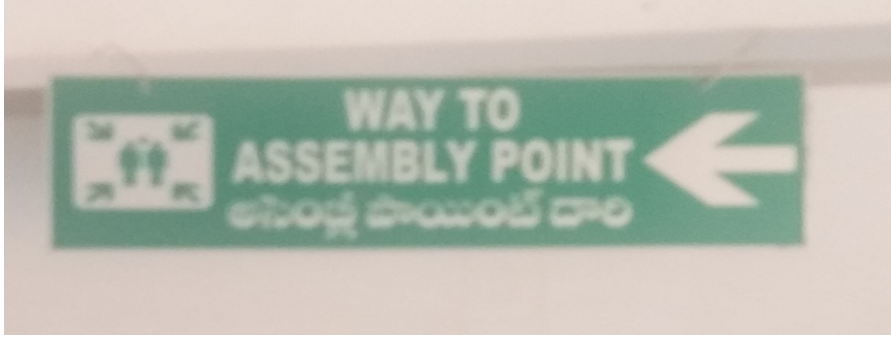
Training on fire hydrant system hose reel drum controlling of small fire



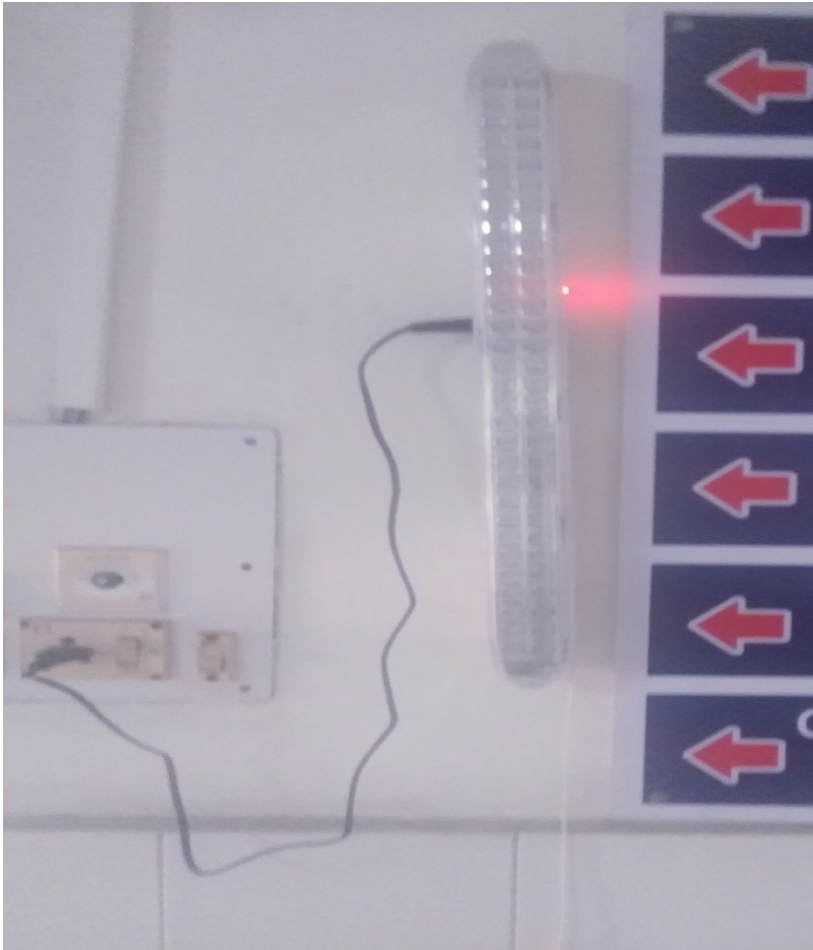
Training on Fire Safety Hydrant Hose cabin controlling of major fire



Fire exit signages self glowing in bilingual fixed at entire hospital



Emergency illumination light when power outage/power supply box signage



Assessment form on code red activation/training attendants sheet

SVIMS NABH ^{PREP} post-session Assessment form for Lecture-8:
Title: **CODE RED ACTIVATION**

Name: <u>M. Bhavatharan</u>	Age/Gender: <u>45</u>
Department: <u>OPD</u>	Designation: <u>ANM</u>
Employee No. <u>65847</u>	Date of Session: <u>24/5/19</u>

- CODE RED contact no is
a. 2525 b. 2229 c. 100 d. 2999
- In the race pass signboard 'R' means
a. React b. Rescue c. Relax d. Run
- Contact of flammable material, oxygen, heat and ignition when these react with each other will be produced
a. Smoke b. Water c. Fire d. Air
- Solid material fire comes under class of fire
a. A b. C c. D d. B
- When you see the electrical wire fire what should be done first.
a. Throw water to stop fire b. switch off the main power supply
c. Run away from the fire zone d. Inform to police

Answer the following.

- In case of fire don't use exhaust fan [True / false] ✓
- To control the liquid (oil fire) 'B' class fire CO2 type and sodium - bi - carbonate powder type fire extinguisher should use. [True / false] ✓
- While leaving the fire zone doors & windows must be closed. [True / false] ✓
- Multipurpose type fire extinguisher comes under the class ABC dry chemical powder type. [True / false] ✓
- In case fire in the multi-storey building lift should be use. [True / false] ✓

Signed by: Candidate

Paper checked by P.O.
25/5/19

SRI VENKATESWARA INSTITUTE OF MEDICAL SCIENCES, ALIPURI ROAD, TIRUPATI. 517501
Telephone No : 0877-2287777

TRAINING ATTENDANCE SHEET

Date: 24/5/19 Time: 12:00 PM No of Hours: 01 hr.
Topic: Life Safety management, CODE RED PROCEDURE
Trainer: P.O. Ganga Reddy (P.O.)

S.No.	Employee ID	Name	Department	Signature
1	65633	C. Reddy Varothu	Nephrology	
2	65659	N. Hemalatha	CHD SW	
3	65635	M. Sarada	Dialysis	
4	65235	T.V. Swamaladevi	RT II	
5	65851	P. Murali	SOW	
6	65616	R. Valsala	Urology	
7	65617	K. Samudra	ICU	
8	65623	A. Lakshmi Devi	ERT	
9	65629	V. Agniveshwar	P.O.	
10	65640	S. Jeyaraj	H/N	
11	65641	T. V. Arulakshmi	HPN/ICU	
12	65682	V. Vasodha	SN	
13	65847	M. Bhavatharan	ANM	
14		P. Lalitha	SN	
15		A. Chandramma	SN	
16		K. Vijaya Kumari	SN	
17		M. S. Kumar	SN	
18	65847	U. Rajesh	SN	
19	65688	V. Karpagam	SN	
20		M. S. Uma Maheswari	SN	
21		K. Devi	SN	
22		A. Shikha Rani	SN, CON	
23		M. Prashpalatha	PA Nephrology	
24		B. Ushalakshmi	Nephrology	
25		M. Saranya	Nephrology	
26				

Emergency respond team security staff on code red/fire extinguisher, hydrant system maintenance charts

Emergency respond team Security Staff for the month of Jun, 2019

S/No	S Ramachandraiah	C. Vijayakumar	CG. Vijai Sekhar	
01	B. Ganapati	SS. Basha	Y. Bujalaiah	Salvage team
02	KV. Chandrasekar	B. Madavrao	B. Muniraja	
03	K. Gopalakrishna	SK. Basha	M. Balakrishnan	
04	VR. Dinesh kumar	K. Munindra	A. Rajasekar	
05	G. Mohanbabu	M. Venkatesh	G. Vinayaka	
06	K. Siva	M. Hari Krishna	S. Gopin	
07	K. Rajasekar	C. Udai kumar	K. Subramanyam	
08	A. Nageswara	P. Giribabu	M. Vinod	
09	V. Girish	S. Hemant rao	M. Easwar reddy	Rescue team
10	K. Ganesh	G. Angikumar	D. Lokeshwara	
11	B. Ravindra	V. Lokeshwara	G. Venkateswarlu	
12	R. muneeswara	A. Vasu	E. Haribabu	
13	A. Nagesh	C. Chandalrayulu	K. Anilkumar	
14	MC. Rajesh	V. Munikrishna	M. Ramaiah	
15	B. Jagannadam	GB. Sairam	A. Kumaraswami	
16	G. Ganapati	KVK. Reddy	K. Pradeep kumar	
17	Y. Jagannadam	TG. Mani	A. Sudhakar babu	Core fire fighting team
18	S. Sekar	M. Sankaraiiah	P. Krishnaiah	
19	S. Sureshkumar	B. Suresh	V. Chandalrayulu	
20	R. Madavdu	M. Venkatesh	M. Tiruvengadam	
21	C. Sivasankar	S. Balaji	T. Chandalrayulu	
22	J. Gurumurti	M. Devendra kumar	Y. Rajesh	
23	C. Srinivasulu	M. Lokesh	B. Reddanna	
24	J. Ramesh	M. Nagarajnaik	V. Devakumar	Cordon team
25	M. Guravachari	MR. Kirankumar	B. Manikanta	
26	G. Kotaiah	B. Lokanadam	T. Trilok hanuma	
27	G. Muniratnam	S. Srinivasulu	N. Guravaiah	
28	N. Sidhaiah	D. Sivasankar	M. Balaji	
29	B. Mahesh	B. Ramanjaneyulu	B. Venkatamuni	
30	K. Chanchaiah	BA. Chandrasekar	K. Munichandraiah	
31	V. Babu	J. Gopinath	A. Bhaskar	
32	K. Naresh	P. Nagarajuna	P. Karunakar	

- All relievers are note their regulars fire duty and report fire emergency area.
- Commonly first attend duty points if activate code pink, code Red & Disaster alert are
 - Two wheeler parking
 - Gen ward
 - H/rounds
 - CSSD
 - Nephro plus
 - New PG hostel
 - SPMCH rounds
 - SPMCH rounds
 - Dir gate
 10. SO/SS.
- Note:** If off duty security guards present in SVIMS area must be attend alert area.
 - On duty Supervisor detailed the guards as per above list and as per requirement.

Signature
20/06/19

FIRE EXTINGUISHER MAINTENANCE CHART					
Sri Venkateswara Institute of Medical Sciences: Tirupati - 517 501					
Telephone No: 0877-2287777, Extn : 2200, Code Red Phone No: 2229					
Date of Refilling <u>7-4-2018</u> S/No <u>SMB/04/T/2018</u>					
Hydraulic Pressure Test Due Date: <u>6-4-2023</u>					
Location: <u>DEPUTY REGISTRAR ROOM</u>					
Type: <u>CO2</u> Capacity: <u>4.5 Kg</u>					
Date	Due Date	Gas/DCP Weight	Checked by Name	Signature	Remarks
7-18	6-4-19	4.5kg	FSD	DY	
8-18	6-4-19	4.5kg	FSD	DY	
9-18	6-4-19	4.5kg	FSD	DY	
10-18	6-4-19	4.5kg	FSD	DY	
11-18	6-4-19	4.5kg	FSD	DY	
12-18	6-4-19	4.5kg	FSD	DY	
1-19	6-4-19	4.5kg	FSD	DY	
2-19	6-4-19	4.5kg	FSD	DY	
3-19	6-4-19	4.5kg	FSD	DY	
4-19	6-4-19	4.5kg	FSD	DY	
5-19	6-4-19	4.5kg	FSD	DY	
6-19	6-4-19	4.5kg	FSD	DY	

FIRE HYDRANT SYSTEM MAINTENANCE CHART					
Sri Venkateswara Institute of Medical Sciences: Tirupati - 517 501					
Telephone No: 0877-2287777, Extn : 2200, Code Red Phone No: 2229					
Hydrant Point S.No. <u>118/HRD/SMB/2018</u>					
Type of equipment: <u>HOSE REEL DRUM</u>					
Location: <u>DY. REGISTRAR - STEPS</u>					
Date of Installation <u>JULY - 2018</u>					
Date	Tested on	Due Date	Checked by	Signature	Remarks
16-7-18	16/07	15/08	FSD	DY	TEST OK
15-8-18	15/08	14/09	FSD	DY	TEST OK
14-9-18	14/09	13/10	FSD	DY	TEST OK
13-10-18	12/10	12/11	FSD	DY	TEST OK
2-11-18	12/11	11/12	FSD	DY	TEST OK
11-12-18	11/12	10/01	FSD	DY	TEST OK
10-1-19	10/01	9/02	FSD	DY	TEST OK
9-2-19	9/02	8/03	FSD	DY	TEST OK
8-3-19	8/03	7/04	FSD	DY	TEST OK
7-4-19	7/04	6/05	FSD	DY	TEST OK
6-5-19	6/05	5/06	FSD	DY	TEST OK
5-6-19	6/06	5/07	FSD	DY	TEST OK

SVIMS fire drawings/fire escape route chart available at all floors



Discharge & Refilling of fire extinguishers



List of mock drill conducted on fire safety conducting twice in a year from 2017 to till date

S.No.	Drill date	Department	Event conducted	Remarks
01.	01.02.17	Casualty block	Mock drill on fire accidents "A" class fire	Need to take care of patients shifting and patients loading in ambulance
02.	06.11.17	SPMC(W) Hospital EMD	Mock drill on fire accidents "B" class fire	Find lack of co-ordination among the participant team members
03.	05.05.18	SPMC(W) Hospital G.S. Ward	Fire mock drill on fire accident "C" class fire	To take care of patients shifting and loading in ambulance
04.	08.01.19	SVIMS IP building G.E ward	Fire mock drill on fire accident "A" class fire	Fire fighting team need to remove the fire tray from the word

LIST OF FIRE MOCK DRILL CONDUCTING ONCE IN A MONTH

01.	22.02.19	SVIMS IP building EMD	Fire mock drill on fire accident "B" class fire	No deficiencies found at the time of evacuation code red mock drill
02.	30.03.19	SPMC(W) hospital OBG & NICU	Fire mock drill on fire accident "A" class fire	No deficiencies found, need to be improve reaction time of code red team
03.	30.04.19	SPMC (W) College	Fire mock drill on fire accident "C" class fire	Hands on practice given to all nursing staff about hose reel drum and cabin
04.	20.05.19	SVIMS Medicine Ward	Fire mock drill on fire accident "A" class fire	Hands on practice given to all nursing staff about hose reel drum and cabin

LIST OF FIRE ACCIDENTS AND MANAGEMENT OF CONTROLLING

FIRE SAFETY FROM 01.06.2017 TO TILL DATE

Sl. No	Date & Time of fire	Location of Fire	Time activating fire alarm	Class of Fire	Method of activation of fire alarm	Damage details	RCA	Remarks
1.	01.06.2017 & 12.40 pm	Nephrology Dept. ground floor	12.42 pm	Electrical fire "C" class	Code RED activated by Telephone	One set of Tube light	Fire accident check list submitted	Damaged material replaced
2.	03.06.2017 & 7.10 am	In front of AHU unit (MGW)	7.12 am	Electrical fire "C" class	Code RED activated by Telephone	AC package unit slightly damaged	Fire accident check list submitted	No other equipment damaged in the ward
3.	15.06.2017 & 3.45 am	ICU Urology	-	Electrical fire "C" class	NIL	Smell with sparks in wall mounted fan	NIL	NIL
4.	20.06.2017 & 7.55 am	II floor Endocrinology Lab corridor	7.58 am	Electrical fire "C" class	Code RED activated by Telephone	2 set of tube lights and small area of fall sealing	Fire accident check list submitted	Damaged material replaced
5.	29.11.2017 & 6.00 am	Cathlab - II, 1 st floor opposite RICU	6.02 am	Electrical fire "C" class	Code RED public addressing system	2x2' size fall sealing light	Fire accident check list submitted	Informed to AE electrical dept. to maintain the preventive maintenance record
6.	07.03.2018 & 6.55 am	Emergency Medicine 1 st floor (male side wash room)	6.58 am	Electrical fire "C" class	Code RED public addressing system	Electrical water geyser (25 lts)	Fire accident check list submitted	Damaged material replaced
7.	23.04.2018 & 3.30. pm	GE OT center block first floor	3.35 pm	Electrical fire "C" class	Code RED public addressing system	Electrical AC stabilizer connector	Fire accident check list submitted	Damaged material replaced by Elect., Dept.