

Railway Station Safety Initiative

By



Revenue and Disaster Management Department

Government of Haryana

RAILWAY STATION DISASTER MANAGEMENT PLAN



Railway Station, Sirsa

2014-15



CENTRE FOR DISASTER MANAGEMENT

HARYANA INSTITUTE OF PUBLIC ADMINISTRATION, GURGAON

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1. Disaster Management in Indian Railways

“Railway Disaster is a serious train accident or an untoward event of grave nature, either on railway premises or arising out of railway activity, due to natural or man-made causes, that may lead to loss of many lives and/or grievous injuries to a large number of people, and/or severe disruption of traffic etc, necessitating large scale help from other Government/Non-government and Private Organizations.”

The Indian Railways is the world’s largest government railway. It is a single system which consists of 65,436 route km of track that cross the country, on which more than 20,238 number of trains ply, carrying about 23 million passengers and hauling nearly 2.77 million tonnes of freight every day. Therefore, the safety of operations on the Railways and the safety and security of the millions availing the services of the Railways are of paramount importance. India is vulnerable, in varying degrees, to a large number of natural as well as man-made disasters. Heightened vulnerabilities to disaster risks can be related to expanding population, urbanization and industrialization, development within high-risk zones, environmental degradation and climate change. It can also be related to increase in terrorism around the Globe.

DISASTER DEFINED IN RAILWAYS’ CONTEXT

The concept of a Disaster was not adequately and comprehensively defined on Indian Railways, till the year 2005. It was accepted that a Disaster situation implies, on the railways, to cover only cases of serious rail/train accidents. The definition of Disaster Management (DM) as given by the Government of India was legislated for the first time in the Disaster Management Act, 2005. The broad principles of disaster for any department of the Government changed to the concept of any incident which could not be handled with alone by that department i.e. if it was beyond the coping capacity of a particular department, the incident could be termed as a disaster. With this came the concept of the departments of Government of India as also the State Governments required to join hands to extend whatever facilities were available with them to provide relief/rescue and mitigation on the occurrence of a disaster.

Disaster in the Railway context was traditionally a serious train accident, caused by human/equipment failure, which may affect normal movement of train services with loss of human life or property or both. This is now extended to include natural and other manmade disasters. Different types of disasters are described along with a few examples, below:

- a) Natural Disaster includes Earthquakes, Floods, Cyclones, Land Slides, Snow Avalanches, Tsunami etc.
- b) Train Accident related Disaster includes Collisions (with a huge number of casualties), Train marooned (flash floods), derailments on a bridge over a river and coaches falling down, train washed away in cyclone, derailment of a train carrying explosives or highly

inflammable material, tunnel collapse on a train, fire or explosion in trains, and other miscellaneous cases etc.

c) Manmade Disasters covers Acts of Terrorism and Sabotage, i.e. causing deliberate loss of life and/or damage to property, which includes Setting a Train on fire, Railway installations etc., bomb blast at Railway Station/Train, Chemical (Terrorism) Disaster, Biological, Radiological and Nuclear Disaster.

Sirsa Railway Station:-

Sirsa is a small railway junction , and it falls under North Western Railway Zone. Sirsa is situated on REWARI - BATHINDA - SECTION 244.30 Kms from Rewari. It is a "B" Class Station.

The major achievements of Indian Railways at District Sirsa during last 25 Years are as below :-

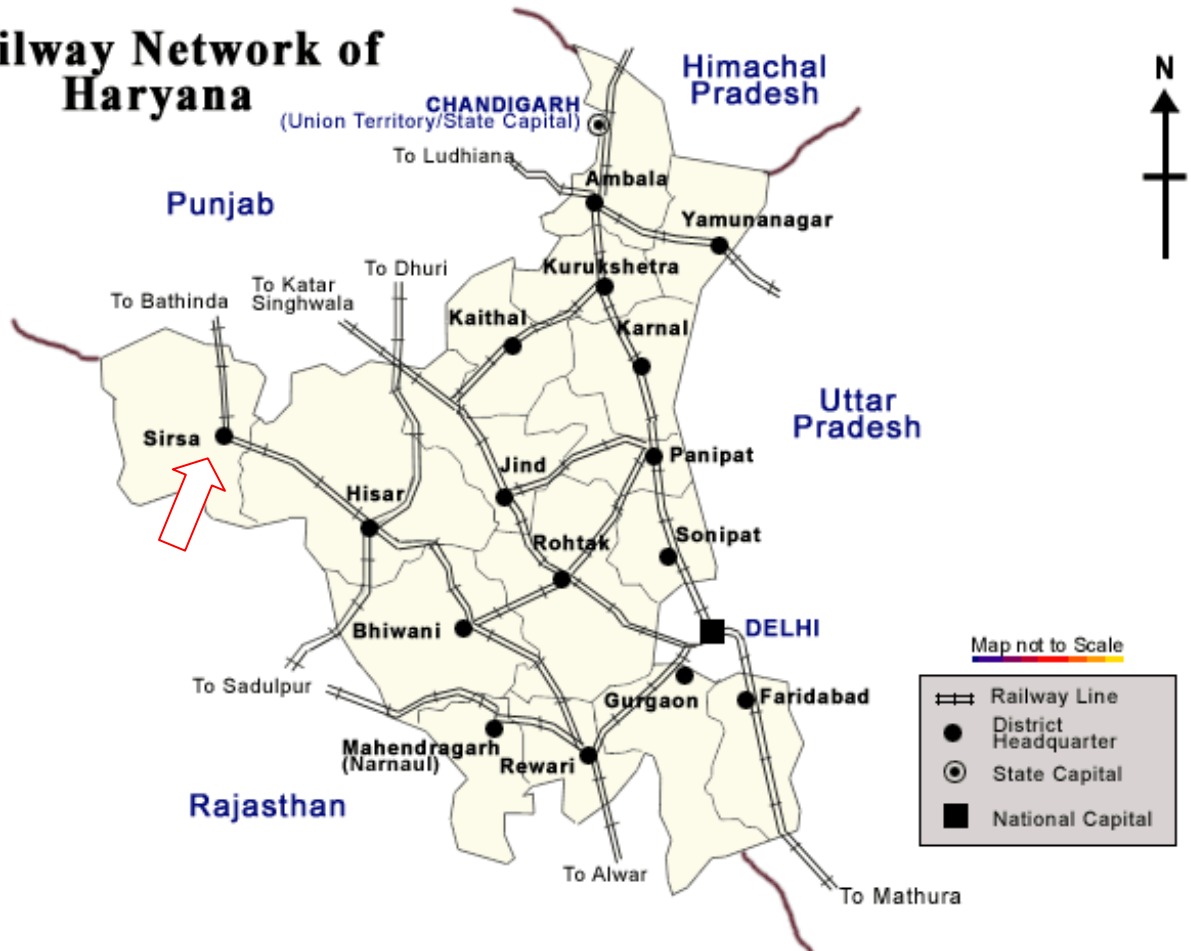
1. Connected with Broad Gauge Railway Line on 28th January 1994.

2. High Level Platform constructed by Railways Engineering Department in 1994.
3. Second Class Waiting Hall modified in December 1999.
4. General Manager of Railways awarded the Station on 28th January 2000.
5. Computerised Railway Ticket Reservation has been started at Sirsa Railway Station w.e.f. 25th October, 2002.
6. There is Direct Link to Amritsar (Punjab) and Jaipur (Rajasthan) by Express Trains No. 9771-9772 and Sirsa - NZM - Sirsa by Express Train No. 4085-4086.
7. Single gate No. 143 replaced by Double Gate System at GT Road to provide safety to Road Users.
8. FCI SIDING constructed at Sirsa at Down-Side. FCI Loading has been done in FCI Siding in Block Rakes yearly 20 Blocks since 1994.
9. Two ticket windows have been opened for the sale of Tickets for the facility of passengers.
10. Level Crossing Gate No. B-144 is converted into double lifting barrier system for convenience of public as well as for the safety purpose, which was earlier with single lifting barrier system.
11. Work of Second New Booking office towards Sangwan Chowk is in progress as an additional facility for passengers.

12. Work of Foot-over-bridge is in progress as an additional facility for passengers.

13. Work of Colour light signaling is in progress for ensuring greater safety and fast movement of trains.

Railway Network of Haryana



List of Trains and Train Numbers From and To Sirsa Station:

#	No	Train Name	Arr.	Dep.	Schedule	Origin
1	14086	Haryana Express		03:40	SMTWTFS	Sirsa
2	19611	Ajmer - Amritsar Express	04:20	04:25	SMTWTFS	Ajmer Junction
3	19771	Jaipur - Amritsar Express	04:20	04:25	SMTWTFS	Ajmer Junction
4	54752	Shri Ganganagar - Rewari	05:50	05:55	SMTWTFS	Shri Ganganagar
5	54044	Hisar - Jind Passenger	06:40	06:45	SMTWTFS	Hisar
6	14520	Kisan Express	08:10	08:13	SMTWTFS	Bhatinda Junction
7	54784	Rewari - Fazilka Passenger	10:20	10:25	SMTWTFS	Rewari
8	54633	Sirsa - Ludhiana Passenger		11:40	SMTWTFS	Sirsa
9	54783	Fazilka - Rewari Passenger	14:20	14:30	SMTWTFS	Fazilka
10	54782	Rewari - Bhatinda Passenger	14:25	14:35	SMTWTFS	Rewari
11	54751	Rewari - Shri Ganganagar Passenger	18:55	19:00	SMTWTFS	Rewari
12	54781	Bhatinda - Rewari Passenger	19:37	19:42	SMTWTFS	Bhatinda Junction
13	14519	Kisan Express	20:20	20:25	SMTWTFS	Delhi
14	54043	Jind - Hisar Passenger	22:45	22:50	SMTWTFS	Jind Junction
15	19772	Amritsar - Jaipur Express	23:30	23:35	SMTWTFS	Amritsar Junction
16	19612	Amritsar - Ajmer	23:32	23:35	SMTWTFS	Amritsar

		Express				Junction
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Chapter 2 : Railway Station Profile

2.1 Railway Station Details

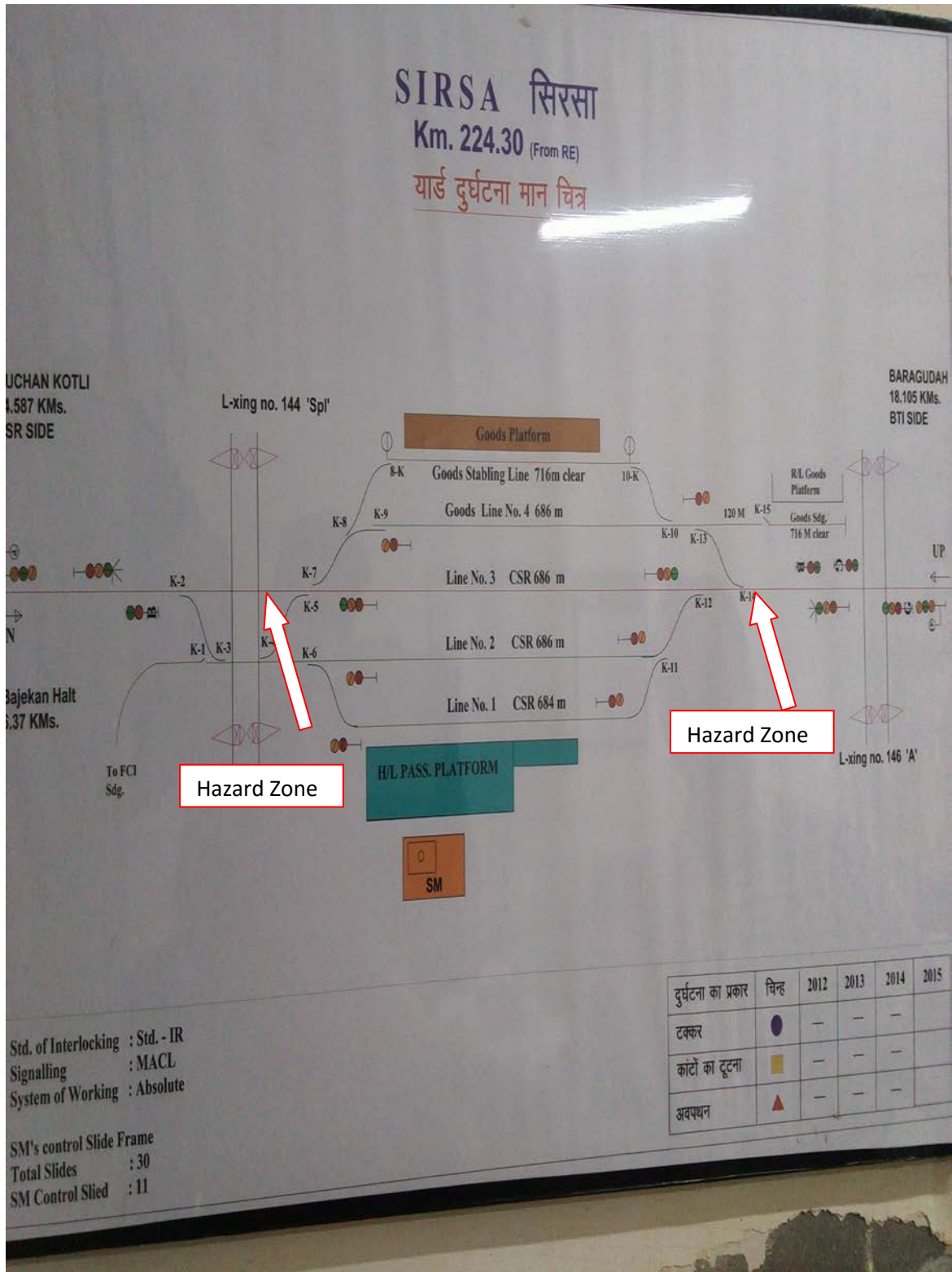
1.	Name	
2.	Name of Railway Station Incharge	Station Superintendent J.P.Pathak
		Mobile 97295-30186
3.	<u>Railway Station Timings :</u> Railway Station Enquiry Booking Branch	24 hr. 6/hous to 22/-hours 24 hr.
4.	<u>Major Branches</u>	1. Traffic Dept. 2. P. Bay 3. Inspector of Works 4. Electric Dept 5. RPF 6. GRP 7. Medical

2.2 Possible Hazards:

Hazards (in and around the Railway Station)	Hazard Probability (High / Med / Low)
Rail Accidents	H
Flood	L
Earthquake	L
Building collapse	L
Epidemic / Contagious disease	L
Fire	L
Heat Wave	L
Cold Wave	L

Industrial / Chemical hazard	L
Stampede	M
Animal Bite	L
Snake Bite	L
Food Poisoning	L
Others (specify)	-

Yard Accident Map



2.3 Identification of Potential Structural/Non Structural Hazards

Sr. No.	Structural/Non Structural Hazards Areas	Location
	Inside Railway Station	
1.	Gas cylinders	Canteens
2.	Other fuel (petrol/diesel/kerosene etc.)	Generator area
3.	Chemical bottles	-
4.	Main Electrical Boards	Electrical division
5.	Hanging Electrical Wires	Outside the building
6.	Suspended Ceilings	-
7.	Unfixed Almirah/cabinets	Offices
8.	Unfixed wall Frames	Offices
9.	Doors/ Windows	Offices
10.	Open drains/ gutter	-
11.	Trees	On platforms
12.	Defected staircases	-
13.	Severely cracked walls	-
14.	Others (specify)	-
	Outside Railway Station	
1	Trees	Yes
2	Power Lines	Yes
3	Towers	--
4	Others (specify)	-

2.4 Resource Inventory

Sr. No.	List of Items	Details of the item	Person Incharge	Contact No. of the person in charge
1.	First Aid Kits	1	J.P.Pathak	97295-30186
2.	Fire Extinguishers	8	J.P.Pathak	97295-30186
3.	Sprinkler System	-	-	-
4.	Ladder (Nos. and Length)	-	-	-
5.	Rope (Nos. and Length)	-	-	-
6.	Stretchers	2	J.P.Pathak	97295-30186
7.	Torches			-
8.	Hammers			-
9.	Generators / UPS	1	J.E.Electrical	-
10.	Floor Carpets/ Daris	-	-	-
11.	Blankets	-	-	-
12.	Others	-	-	-

2.4 Nearest Resources

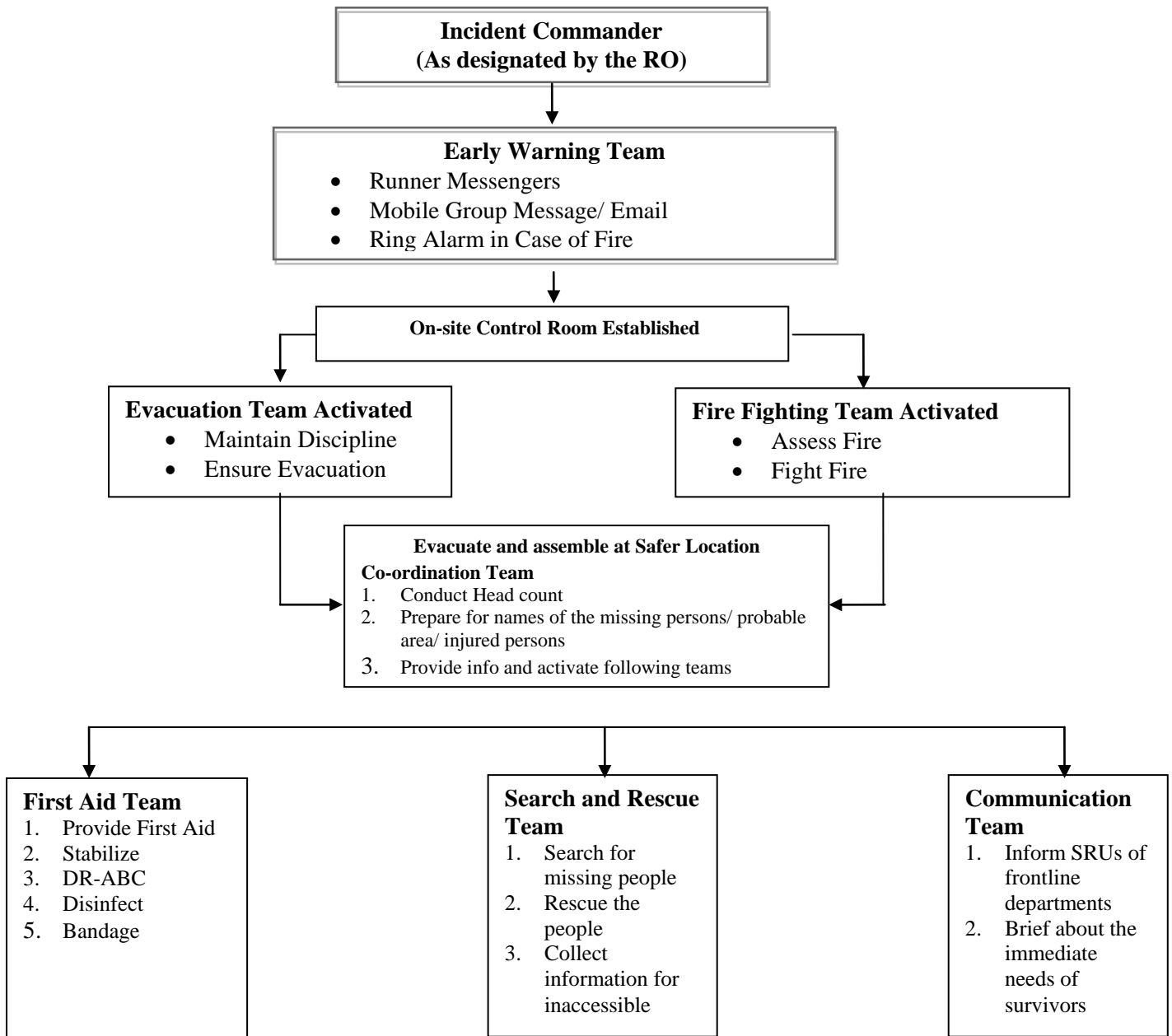
Sr. No	Nearest Resource	Distance in Kms	Contact no
1	Police Control Room, Sirsa	2.5	100
2	Fire Station, Agra chwok Sirsa	2	101,
3	General Hospital, Sirsa	3	102
4	Ambulance Services	3	102

2.5 List of Hospitals for Emergency Management

Sr. No.	Name of the Hospital/Doctor's Name	Contact person	Contact No
1	Sanjvani Hospital	Dr.Agarwal	9996366691
2	Metro Hospital	Dr.Vikas Aggarwal	9416361002
3	Ganga Hospital	Dr. Gaurav Bansal	
4	Janta Hospital	Dr. Ajay	9416728013

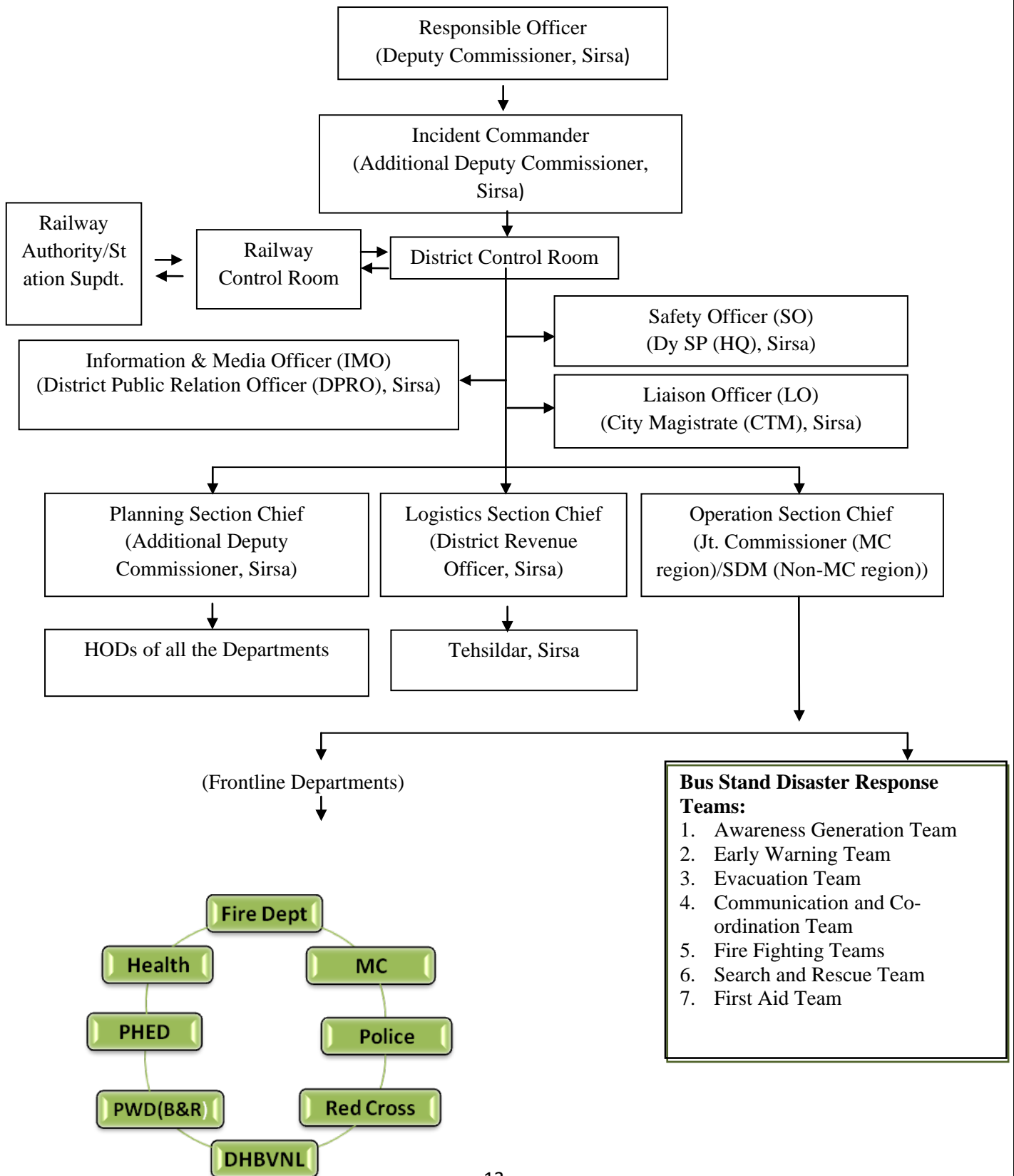
Chapter 3. Response Mechanism

At the onset of the Hazards, the mechanism for Response is as follows:



Off- Site Response:-

For any off site response Incident Response System, (IRS) as per District Disaster Management Plan, Sirsa shall be followed. The IRS flowchart of Command Staff is given below:



Sr. No.	Department	Responsibility
1.	Police Department	<ol style="list-style-type: none"> 1. Corden of the area 2. Provide Security to the property/ records/ documents 3. Crowd Management 4. Communication (Wireless) 5. Maintain law and order
2.	Revenue Department	<ol style="list-style-type: none"> 1. Co-ordinate overall response 2. Provide/ procure response equipments
3.	Health Department	<ol style="list-style-type: none"> 1. Provide ambulances 2. Conduct Triage 3. Provide emergency medicle response
4.	Fire Department	<ol style="list-style-type: none"> 1. Assess Fire; Fight fire 2. Search and Rescue person
5.	DVHBN	<ol style="list-style-type: none"> 1. Provide electricity as and when required 2. Cut off power supply when needed 3. Provide generators during response
6.	PWD (B&R)	<ol style="list-style-type: none"> 1. Provide heavy duty equipment for response
7.	MC	<ol style="list-style-type: none"> 1. Provide JCBs, Cranes or other heavy duty equipment
8.	PHED	<ol style="list-style-type: none"> 1. Provide water through water tankers
9.	Any other Department	Resources from any department can be procured during emergency as per the direction of the RO.

1. Annexure

Emergency Contact Number		
Police	Fire Brigade	Ambulance
100	101	102

Name of Officer	Designation	Contact No. (Office/Residence/Mobile)		
Administration				
Nikhil Gajraj, IAS	D.C. Sirsa	248770 T/F	248880	94160-25002
			248870	
Dr.R.S. Sharma	VC, CDLU, Sirsa	248052		9466775888
Sarandeep Kaur Brar, IAS	A.D.C. Sirsa	247235	247810	9812300907
		247245		
Ahwin Shenvi, IPS	S.P. Sirsa	247212	247400	88140-11600
			248205	
SH. Paramjeet singh Chahal HCS	S.D.M. Sirsa	247345	247445	98123-00902
				98723-54533
Sanjay Rai HCS	S.D.M. Dabwali	222997	230708	98123-00903
Dhirender Khadgata	S.D.M. Ellenabad	220287	220288	98123-00904
Pankaj Kumar, HCS	CTM, Sirsa	248881	247645	98123-00901

Revenue and Disaster Management Department			
Sanjay Bhashnoi	Tehsildar, Sirsa	247130	98123-00911
Ram Niwas	Naib Tehsildar, Sirsa	247130	98123-00915
Matu Ram Nehra	Tehsildar, Dabwali	230035	98123-00912
Chotu Ram	Naib Tehsildar, Dabwali	230035	98123-00916
Ramphal Kataria	Tehsildar, Ellenabad	220289	98123-00913

Food and Supply			
H.R.Bhadu	D.F.S.C.	248422	98125-96558
Atam Parkash	Supdt.		9416353505
Jagatpal	AFSO		94666-21829

Haryana Roadways			
Suresh Kaswan	GM, Haryana Roadways	221274	247384
Ram Kumar	T.M.	221274	

Health Department				
Dr.Surender Nain	Civil Surgeon, Sirsa	240155	240669	92151-56187
Dr.Viresh Bhushan	Dy.CS (NRHM)	241607		94160-77990
Dr.Subhasini Gupta	Medical Supdt.	240122		94164-33900
Dr.S.P.Gupta	Distt.Health Officer			94667034889
Dr.P.L.Verma	Distt.Family Wel.Officer	240159	243178	98960-26667
Dr.Sushila Rani	Distt.Ayurvedic Officer	240012		94168-67221
Dr.Girish Chaudhary	A.M.O.	242333	238942	99920-16311
I.S.Godara	DETC (ST)	247621		8800772461
R.C.Ranga	DETC (X)	247164		9416658005

Fire Brigade			
Sh. J.C.Gill	FSO Fire Brigade, Sirsa	101	
Ved Parkash FM	Fire Brigade, Sirsa	101	

POLICE			
NAME	Designation	PHONE	CELL NO
Ahwin Shenvi,IPS	SP Sirsa	247212	88140-11601
	Reader/SP		8814011631

Jagdish Kumar	DSP (HQ)	247456	88140-11602
Ravinder Kumar	DSP Sirsa	247456	88140-11603
Kuldeep Singh	DSP Ellenabad	220291	88140-11604
Satpal	DSP Dabwali	222969	88140-11605
Insp.Sushil	Incharge Security (SIS)		88140-11620

Other Important Contact Nos.			
Central Government Disaster Management Authorities			
National Disaster Management Authority, New Delhi	Control Room	011-26701728	-
National Industrial Security Academy, CISF	-	040- 04252265, 04256231	-
CISF	-	011-24361125	-
BSF	-	011-24362181	-
India Meteorological Department	Director General	011-24611842	-

Chapter 4. Mock-Drill

Mock drills are the way of testing the Railway Station Disaster Management Plan. The mock drill on earthquake, fire, etc. should be conducted once in every six months, and the deficiencies should be assessed for the purpose of updation of the plan. This section of the plan should clearly indicate the steps to be followed to conduct the mock drills and the responsibilities of the teachers, non-teaching staff and students should be delineated. If required, the Railway Station authorities should invite the Fire Service Officers, doctors from Health Department, trainers from Red-Cross Society trained Civil Defence volunteers and volunteers from NGOs for support in conducting the mock drills.

Earthquake drill:

1. Practice drop, cover and hold.
2. Once evacuation starts, evacuate people in less than 10 minute without pushing and falling.
3. Evacuate Railway Station in less than 4 minutes using different exits.
4. Look out for nears and dears
5. Stay away from weak areas / structures.
6. Perform head counts when reach at assembly area.
7. Help those who need assistance

Fire Drill:

1. Evacuate from the site.
2. Practice Stop, Drop and Roll in case your clothes catch fire.
3. Cut off electricity from main switch and remove or close down gas connections.
4. Evacuate people in less than 1 minute without pushing and falling.
5. In case of heavy smoke, crawl out safely from the affected area.
6. Evacuate Railway Station in less than 4 minutes using different exits/fire exits.
7. Help those who need assistance.

Chapter 5.
Assessment check list

A. Fire Safety Assessment

1. Are fire extinguishers installed in the Railway Station ?
2. Are they in working condition?
3. Are staff members trained to use fire extinguishers?
4. Are they located at appropriate positions (hazardous locations)?
5. Are they placed at appropriate height (accessible height)?
6. Are instructions indicated on extinguishers?
7. Is the language of instructions understood by all?
8. Is hydrant point in the Railway Station ?
9. Are there Sand Buckets in the Railway Station ? (specify in Numbers)
10. Are there Water Buckets in the Railway Station ? (specify in Number)
11. Is emergency fire fighting training and SOP disseminated to the staff?
12. Are do's and don'ts displayed at appropriate locations?
13. Are emergency contact numbers displayed at appropriate locations?
14. Are Railway Station maps and escape routes displayed at appropriate locations in the
Railway Station ?
15. Is the emergency exit door present in the Railway Station ?
16. Do you dispose flammable scrap at proper sight regularly?
17. Are the Fire Safety Norms followed in the Railway Station ?
18. Is fire safety audit conducted annually?
(Attach fire safety audit report)

B. Electrical Safety Assessment

1. Is the central shutdown system in place?
2. Has the MCB system been installed?
3. Are the wires coated with insulating material?
4. Are receptacles installed to cover live wires?

5. Are electrical equipments and wires checked and replaced (if required) at every six months?
6. Are those equipments which get heated, installed at least 1 meter away from any kind of combustible material?
7. Is the earthing properly done in the Railway Station ?
8. Is any defective electrical equipment in use in the Railway Station ?

Specify:

9. Are there any lives wires lying or tangled in open?
10. Is any plug point used for multiple loads?

Specify at how many points:

(Attach electric safety audit report)

C. Non Structural Safety assessment

1. Are the cabinets/*almirahs* placed away from exit doors?
2. Are cabinets/*almirahs* properly fixed to the wall?
3. Are these cabinets/*almirahs* empty on the top?
4. Are desk placed with proper distance between them for easy movement?
5. Are evacuation routes, passages and stairways clear from obstacles (like flower pots, cupboards, bookshelves, big dustbins etc.) for evacuation?
6. Are fans and lights secured with ceiling?
7. Are bottles used for storing the chemicals in laboratories secured and protected against shattering?

D. Structural Safety assessment

1. How old is Railway Station building?
2. Is building structure earthquake resistant?
3. Is there any portion in the building which shows sign of cracks?
If yes, specify the locations
4. Are the Building Safety Norms followed in the Railway Station?
5. Has the building safety audit conducted by the structural engineer?
(Attach building safety audit report)

Chapter 6. Emergency Mock Drill Reporting Format

Person Completing the Format/ Designation		Date
Time Alarm Sounded:	Time Drill Concluded:	Time to Evacuate
Type of Drill	Notification / Alert Method	Weather Conditions
<input type="checkbox"/> Fire / Evacuation <input type="checkbox"/> Bomb Blast <input type="checkbox"/> Shelter-in-Place <input type="checkbox"/> Earthquake <input type="checkbox"/> Medical Emergency <input type="checkbox"/> Other:	<input type="checkbox"/> Bell or Buzzer <input type="checkbox"/> Enhanced Alert System <input type="checkbox"/> Phone <input type="checkbox"/> Voice Notification <input type="checkbox"/> Siren	<input type="checkbox"/> Clear <input type="checkbox"/> Cloudy <input type="checkbox"/> Rain and wind <input type="checkbox"/> Hot/Cold
Participants		Situation at Start of Drill:
<input type="checkbox"/> Authorities <input type="checkbox"/> Safety Personnel <input type="checkbox"/> Employees/Staff <input type="checkbox"/> HOD <input type="checkbox"/> Fire Department <input type="checkbox"/> Emergency Medical Services <input type="checkbox"/> Police <input type="checkbox"/> Red Cross <input type="checkbox"/> Other		<input type="checkbox"/> Before Lunch Hours <input type="checkbox"/> During Lunch Hours <input type="checkbox"/> After Lunch Hours <input type="checkbox"/> Peak working Hours
Participants have previously trained on emergency procedures.		Employees previously trained on emergency procedures this year?
<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No

Incident Command System as per IRS used?	Incident Commander/Designation	
<input type="checkbox"/> Yes <input type="checkbox"/> No		
Problems Encountered		
<input type="checkbox"/> Congestion in hallways <input type="checkbox"/> Alarm not heard <input type="checkbox"/> Employees unsure of what to does/don't <input type="checkbox"/> Staff unsure of responsibilities / response <input type="checkbox"/> Unable to lock doors <input type="checkbox"/> Windows left open <input type="checkbox"/> Doors left open <input type="checkbox"/> Lights left on <input type="checkbox"/> Personnel not accounted <input type="checkbox"/> Personnel run towards lifts <input type="checkbox"/> Lifts are shut down. <input type="checkbox"/> Difficulties with evacuation of disabled personnel.	<input type="checkbox"/> Communication problems <input type="checkbox"/> Phone problems <input type="checkbox"/> Chaos <input type="checkbox"/> Long time to evacuate building <input type="checkbox"/> Personnel not serious about drill <input type="checkbox"/> Improper or unavailable supplies <input type="checkbox"/> Confusion <input type="checkbox"/> Doors or Exits blocked <input type="checkbox"/> Delay in Medical response <input type="checkbox"/> Delay in Fire service response <input type="checkbox"/> Delay in Security response <input type="checkbox"/> Interagency miscommunications <input type="checkbox"/> Command, Control & Coordination problems <input type="checkbox"/> Other:	
Mitigation / Plans for Improvement		
<input type="checkbox"/> Additional training for emergency response teams members. <input type="checkbox"/> Additional staff training <input type="checkbox"/> Address need for additional equipment/resources <input type="checkbox"/> Improved emergency supplies	<input type="checkbox"/> Cooperative planning with responders <input type="checkbox"/> Revised emergency response procedures <input type="checkbox"/> Other:	