

EAST COAST RAILWAY

ZONAL DISASTER MANAGEMENT PLAN



2016

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-: ***** :-

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GOVERNMENT OF INDIA MINISTRY OF RAILWAYS (RAILWAY BOARD)

No. ERB-I/2002/24/44

New Delhi, dated 17-09-2002

ORDER

The Ministry of Railways have decided to constitute a high level committee to review the disaster management system over Indian Railways and give recommendations for strengthening and streamlining the same. This committee will consist of the following :

- | | | | |
|------|---|---|----------|
| i) | Member Mechanical, Railway Board | - | Convenor |
| ii) | Member Traffic, Railway Board | - | Member |
| iii) | Director General/Railway Health Services | - | Member |
| iv) | Director General / Railway Protection Force | - | Member |
| v) | Additional Member (Budget), Railway Board | - | Member |

2. Exutive Director / Safety, Railway Board, will be the Secretary of the Committee.

3. The terms of refernece of the Committee are :--

- (i) To review the existing Disaster Management System over IR related to train accidents and natural calamities and to suggest improvemnets.
- (ii) To identify the technological and managerial inputs in order to quicken the pace of relief and rescue operations.
- (iii) to institute a standing arrangement with other Central Ministries, State Governments and Armed Forces to enable quick and smooth restoration operations without any legal or procedural hurdles.

4. The Committee is expected to give its recommendations in two months Necessary secretarial assistance (one computer literate P.S. and one L.D.C.) would be provided to Executive Director (Safety) during the tenure of the Committee.

(R.R. JARUHAR)
Secretary / Railway Board

5) MEMBER OF THE HIGH-LEVEL COMMITTEE ON DISASTER MANAGEMENT

- 1) S. Dhasarathy, Member Mechanical & Convenor
- 2) M.C. Srivastava, Member Traffic.
- 3) Vijayalakshmi Viswanathan, Financial Commisisoner.
- 4) Dr. K. Suresh, Director General/Railway Health Services.
- 5) Dr. A. K. Pandey, Director General/Railway Protection Force.

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FEW ABBREVIATIONS USED

ART	Accident Relief Train	AEN	Assistant Engineer
ARME	Accident Relief Medical Equipment	Asst.	Assistant
ARMV	Accident Relief Medical Van	AEE	Assistant Electrical Engineer
AC	Air Condition	ADG	Assistant Director General
AME	Assistant Mechanical Engineer	ARK	Araku – Station's code
ASM	Assistant Station Master	ADMO	Assistant Divisional Medical Officer.
ADRM	Assistant Divisional Railway Manager	Amp	Amperes
ASTE	Asst. Signal & Telecommunication Engineer	AIR	All India Radio
AOM	Assistant Operating Manager	A G M	Assistant General Manager
ASM	Assistant Station Master.		
AMM	Assistant Material Manager	ALP	Assistant Loco Pilot
APO	Assistant Personnel Officer.	B D	Break Down
1AC	First class Air Conditioned coach.	BIS	Bureau of Indian Standard.
INGO	Indian Government Organization	Bd.	Board.
2AC	2 nd Class Air Conditioned coach	BAM	Brahmapur- Station's code
3AC	3 rd Class AC coach.	BSP	Bilaspur - Station's code
ACM	Assistant Commercial Manager	BNDM	Bandamunda - Station's code
AP	Andhra Pradesh	BSNL	Bharat Sanchar Nigam Limited

BPCL	Bharat Petroleum Company Limited	CHC	Chief Controller.
BHC	Bhadrakh - station's code	CPR	Cardio Pulmonary Resuscitation
BFR	08 wheeler open flat vacuum brake wagon	CCM	Chief Commercial Manager
BLGR	Bolangir- Station's code	DME	Divisional Mechanical Engineer
BIA	Bhilai - Station's code	DSO	Divisional Safety Officer
CE	Chief Engineer	DEN	Divisional Engineer
CBE	Chief Bridge Engineer	DOM	Divisional Operating Manager
CISF	Central Industrial Security Force	DMU	Diesel Multiple Unit
CTE	Chief Track Engineer	DRM	Divisional Railway Manager
COM	Chief Operation Manager	DMO	Divisional Medical Officer
COS	Controller of Stores.	DM	Disaster Management/ District Magistrate.
CG	Chhatisgarh state	DMA	Disaster Management Authority.
CBRI	Central Building Research Institute.	DMT	Disaster Management Team.
CRRRI	Central Road Research Institute.	DOT	Department of Telephone.
CRSE	Chief Rolling Stock engineer.	DC	District Commissioner
CSO	Chief Safety Officer	DR	Disaster Response
CME	Chief Mechanical Engineer	DPC	Diesel Power Controller
CEE	Chief Electrical Engineer	DG	Diesel Generator
CSTE	Chief Signal & Telecommunication Engineer	DCP	Dry Chemical Powder
CMPE	Chief Motive Power Engineer	DSTE	Divisional Signal & Telecommunication Eng
CAO	Chief Account Officer	EFR	Eastern Field Rifle.
CTC	Cuttack – station's code	EC	Emergency Control.
CSC	Chief Security Commissioner	EMU	Electric Multiple Unit
CSE	Chief Signal Engineer	EFR	Eastern Front Rifle
CPO	Chief Personnel Officer	ESM	Electric Messaging System

CNL	Control.	EMR	Emergency Medical Response
CPTM	Chief Passenger Transportation Manager	FA	First Aid
CFTM	Chief Freight Transportation Manager	FC	Finance Commission
CAC	Combined Assistance Center	FA&C AO	Financial Advisor & Chief Accounts Officer.
CPRO	Chief Public Relation Officer	FR	First Response
CWC	Cyclone Warning Center	FOB	Foot Over Bridge.
CRB	Chairman Railway Board	FOIS	Freight Operation Information System
CMS	Chief Medical Superintendent	FIR	First Information Report
C O	Co-ordination.	FT	Field Telephone
CMD	Chief Medical Director	G	General.
C&W	Carriage and Wagon	GM	General Manager.
CDMO	Chief District Medical Officer	GI	Galvanized Iron
CRS	Commissioner of Railway Safety	GIS	Geographical Information System
CKP	Chakradharpur station's code	GSI	Geological Survey of India.
CRS	Commissioner of Railway Safety.	GRP	Government Railway Police
HFL	Highest Flood Level	NDRF	National Disaster Response Force.
HLC	High Level Committee on Disaster Management	O P	Operation.
HRD	Hydraulic Rescue Device	OHE	Over Head Equipment
HRE	Hydraulic Re-railing Equipment	OIC	Officer In-Charge.
HSD	High Speed Diesel	OSDMA	Orissa State Disaster Mitigation authority.
HOR	High Official Requisition	ODRAF	Orissa Disaster Rapid Action Force.
HOD	Head Of the Department	PSA	Palasa station's code
HS	Home Secretary/Hand Signal	PRO	Public Relation Officer.
HM	Home Minister	PA	Public Address.
HS	Home Secretary/Hand Signal	PAS	Public Address System
HM	Home Minister	P-Way	Public Way
IA	Indian Airlines.	PCE	Principal Chief Engineer
IAF	Indian Air Force.	PCO	Public Call Office.
IAT	Instant Action Ream	POL	Petroleum and Oil
ICF	Integral Coach Factory	PR	Public Relation.
IG	Inspector General	QRT	Quick Response Team.
IIT	Indian Institute of Technology.	RMC	Regional Meteorological Center.
IMD	Indian Meteorological Department.	RCT	Railway Compensation Tribunal.
IOC	Indian Oil Corporation	RGDA	Rayaguda.
IRCTC	Indian Rly. Catering & Tourism Corporation.	RMS	Railway Mail Service.
IRITM	Indian Railway Institute of Transport Management	RPF	Railway Protection Force
ISD	International Subscriber Dialing.	RCF	Rail Coach Factory.
ITWC	Indian Tsunami Warning System	RVS	Rapid Vision Screen.
J A G	Junior Administrative Grade.	RRI	Route Relay Instrument.
Jr.	Junior.	SP	Superintendent of Police
JSG	Jharsuguda station's code	SP-ART	Self Propelled Accd. Relief Train.
KUR	Khurda Road station code	Sr.	Senior.
KGP	Kharagpur station code	SDGM	Senior Deputy General Manager.
KBJ	Kantabanji station's code	SM	Station Master/Station Manager.
KRPU	Koraput station's code	S&T	Signal & Telecommunication
KRDL	Kirandul station's code	SBP	Sambalpur station code
L I	Loco Inspector.	SS	Station Superintendent.
POMKA	Portable Medical Kit for Accident.	SE	Section Engineer

L C	Level Crossing.	SSE	Senior Section Engineer.
L P	Loco Pilot	SIS	Senior Inspector of Signal
MSMD	Mohadumund station's code	SLI	Senior Loco Inspector.
MoR	Ministry of Railway	SSO	Senior Safety Officer.
MOSR	Ministry of State for Railway	SR	Safety Rule
MoU	Memorandum of Understanding.	SJAB	St.John Ambulance.
MM	Material Manager.	SOS	International Call for Distress.
MM	Modified Mercalli.	STD	Subscriber Trunk Dial
NGO	Non-Government Organization	SERC	Structural Engineering Research Centre.

TI	Traffic Inspector.		
TS	Train Superintendent		
TTE	Tran Ticket Examiner.		
TRD	Traction department		
TIG	Titlagarh station's code		
TPC	Traction Power Controller		
TLC	Traction Loco Controller.		
T	Tons.		
TLHR	Talcher station's code		
TXR	Train Examiner.		
TCI	Telecommunication Inspector.		
TCM	Telecommunication Mechanics.		
U C C	Unified Command Center.		
VSKP	Vishakhapatnam station's code		
VZM	Vizianagaram station's code		
WAT	Waltair station's code		
W	Watt		
V	Volt.		
VHF	Very High Frequency.		
DC	District Commissioner.		

INTRODUCTION

Earlier Indian Railway used to handle Disaster mainly related to train accidents. The situations are changed. Disaster Management Act. - 2005 promulgated and it covers wider range of Disaster like terrorism natural calamities. In Sept.2002 the High Level Committee suggested to prepare Zonal / Divisional **Disaster Management Plan**, which was brought in action in 2003 vide Railway Board's Safety Directorate letter No. 2003/Safety-I/6/2 dated 29th September 2003 (laid down the requirement of Zonal Railway's Disaster Management Plan) as follows:

All Divisions and Zonal Railway HQ (including Metro Kolkata & Delhi Metro Rail Corporation) must devise their disaster management plan, if not already done taking into consideration the resources available with them, their neighboring divisions/Zonal Railways, Civil Authorities, industrial units and Armed Force bases located in their territory. This would enable the Divisions/ Zonal Railways to muster the entire local resources in case of a major disaster/natural calamity. Zonal Railways Disaster Management plan should integrate all divisions and also to take into consideration adjacent

Railways' network.

PREPARATION OF DISASTER MANAGEMENT PLAN

The Disaster Management Plan must *inter-alia* include "who is responsible for what activities in detail".

- i. Preparation and implementation of disaster management plan is the responsibility of concerned General Manager/Addl. General Manager/CSO.
- ii. Authority to order ART/ARMV/Break Down crane - Chief Mechanical Engineer/Chief Motive Power Engineer (Running & Loco)/ Sr. Divisional Mechanical Engineer/Divisional Mechanical Engineer, etc. are authorized to order Break Down crane, ART & ARMV.
- iii. Senior most Railway Officer at the site of the accident shall be designated as Site Manager.
- iv. Management of Rescue Operations - Primarily Mechanical and Medical Departments. Assistance to be provided by all Railway-men (irrespective of their department) as needed.
- v. Relief operations including care for the dead - Commercial, Medical, Personnel & RPF Departments.
- vi. Communication network – Telecommunication Department.
- vii. Crowd control and law & order at site – RPF Department.
- viii. State Police clearance for restoration - RPF Department.
- ix. Rolling stock - Mechanical Department.
- x. Fixed infrastructure like Track, Over Head Equipment, Signaling system, etc. - Departments concerned.
- xi. Maintenance of SPART / ART & SPARMV / ARMV Rolling Stock/Break Down cranes including rail-cum-road and road mobile emergency vehicle etc. - Mechanical Department.
- xii. Maintenance of equipment kept in SPART/ART/SPARMV/ARMV for rescue and restoration operations - Departments concerned.
- xiii. Media Management at site
 - a. Site Manager shall be the chief spokesman at site and can be assisted by the Branch Officers concerned, if needed.
 - b. PR/Commercial Department to look after the media needs at site.
- xiv. Checklist for the officers & supervisors must be issued in the form of a pocket booklet indicating **DOs and DON'Ts** for the benefit of:
 - a. First official reaching the site of accident
 - b. Senior most officer at the site.
 - c. Divisional/HQ control organization.
 - d. Station Manager/Station Master.

The Disaster Management Plans must be **reviewed and updated in the month of January every year.**

DEFINITION OF DISASTER :

Railway Board Vide letter No 2003/Safety(DM)/6/2 Pt. dated 06-01-09, defined Railway Disaster in the following way,

“Railway Disaster is a serious train accident or an untoward event of grave nature, either on the Railway premises or arising out of Railway activity in that area, 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, necessitating large scale help from other Government/Non-government and Private Organizations”,

Salient Features of Disaster Management Act 2005:

Disaster Management Act 2005, has been introduced with a view to provide effective management of disasters and for matters connected therewith or incidental thereto. The following provisions are available in this Act.:-

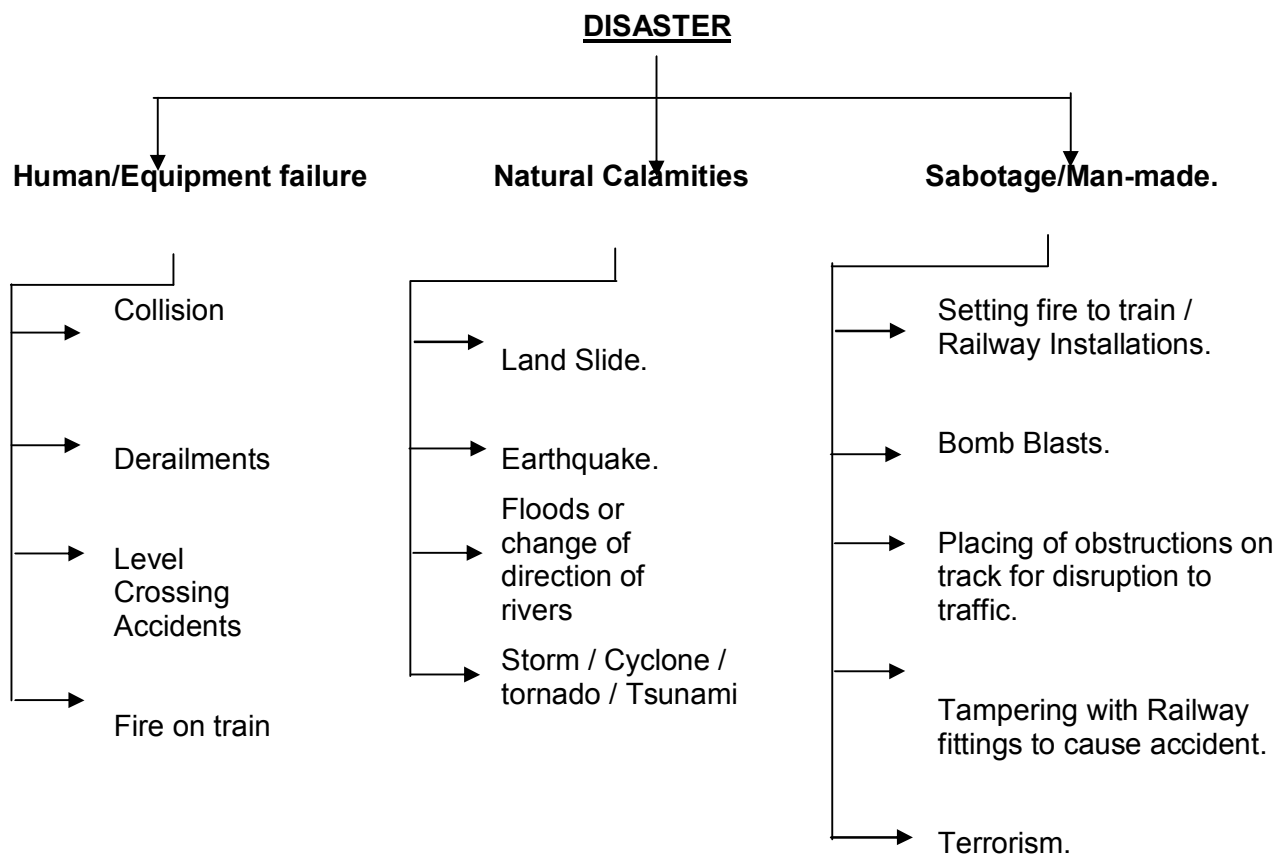
1. Formation of NDMA with Prime Minister as Chairperson and nine(09) other members and an Executive Committee with Secretaries to Govt. of India as members.
2. NDMA shall have powers to lay down policies, guidelines, planning and co-ordination and evaluation & monitoring for Disaster Management. There shall be a National Plan drawn up for disaster management in the whole country.
3. Similar state DMAs with Chief Minister as Chairperson and eight(08) other members shall be formed having power to lay down policies, guide lines and planning & monitoring at state level. There shall be a state executive committee which Chief Secretary as Chairperson and four other secretaries. A state DM plan shall be made. Similiarly, all Metro, cosmopolitan city must have plan with Mayor or MC as Chair Person.
4. At District level, a District DM Authority with Collector/DC/DM as Chairperson and SP, DMO and other two Dist. Level Officers as member shall be formed with similar function and a District Disaster Management Plan shall be drawn.
5. Central Govt will take measures for co-ordination among various DMA, with various ministries, and Naval, Military and Air Forces for capacity building, preparedness and effective response. Assistance to State Govt. shall be provided. Every ministry shall take measures as per guidelines laid down in national plan and prepare their own Disaster Management Plan. Similarly DMA must have unit branch at adjacent State / City , so that if major Disaster then that DMA activity will not collapse.
6. Similar action will be taken by the State Govt. and local Authorities at State and District levels respectively.
7. A National Institute of Disaster Management shall be formed for planning, training and research in the area of Disaster Management.
8. A National Disaster Response Force will be constituted for specialist response to disasters.
9. The act provides for punishment for obstruction, failure of officer on duty, for contravention of any order of requisition, false warning, discrimination, etc., by imprisonment or fine or both.

Railway Board Vide letter no- 2003/Safety/DM/6/3 dtd. 09.11.09, informed that, “Ministry of Railway can request NDMA for assistance of NDRF when situation so warrants.”

In case of Railway Disaster Zonal Railways on request from Divisions or suo-motto may approach Railway Board, who will request NDMA to direct NDRF Battalions for necessary help.

Railway Board Vide letter no- 2003/Safety(DM)/6/3 dtd. 27.07.10, informed that, “Zonal Railway is directed to advise divisional officers to conduct and take part in the mock drills/ Joint exercise in co-ordination with the representative of NDMA as also NDRF battalions located nearest to the divisional offices”.

1.1 TYPES OF DISASTER CAUSING INTERRUPTION TO TRAIN SERVICES



1.1.1 Human/Equipment failure

The disasters/accidents may be caused by human/equipment failure, which may affect normal movement of train services with loss of life or property or both.

1.1.2 Natural Calamities

Natural calamities may also cause serious disruption to traffic with loss of life/property.

1.2.3 Sabotage/Man-made.

Sabotage causing deliberate loss of life and / or damage to property.

1.3 CLASSIFICATION OF A RAILWAY ACCIDENT AS A DISASTER

Disaster in the Railway context is defined as a major train accident leading to serious casualties, long duration of interruption to traffic and cannot be tackled with own resources but requires help from other non-Railway resources. This compendium of instructions has been prepared for dealing with such disasters and not normal train accidents. In case of a serious accident the Administration would take a conscious decision whether the situation is to be classified as a Disaster or not.

1.4 MEASURES TAKEN FOR PREVENTION OF DISASTER.

- I. All locomotives, Electric/Diesel, have been provided with Speedometers with speed recorder and VCDs.
- II. Un-Manned level crossings have been replaced with lifting barrier as per TVU and visibility.
- III. Old distressed bridges have been re-habilitated under RSRC.
- IV. Wheel Impact Load Device (WILD) has been installed in some section.
- V. Weigh bridges have been installed at every loading places.
- VI. Provision for rolling in examination of all coaching trains at important stations.
- VII. Measuring of Axle box temperature by non-contact thermometers at major stations.
- VIII. No overdue POH coach is allowed in service.
- IX. No crew with overdue PME/RC is allowed to work a train.
- X. Booklet of **DOs** and **DON'Ts** has been distributed to all on board staff.
- XI. Crack Team of Rail Rescue Expert have been formed in each division of this Railway.

1.5 OFFICER AUTHORISED TO DECLARE AN ACCIDENT AS A DISASTER

“ **GM** ”, “ **AGM** ” or “ **CSO** ” are authorized for declaring an untoward incident as Railway Disaster. Such declaration will be issued to all concerned with the approval of competent authority. If the accident is declared as Disaster, all instructions as contained herein this Disaster management Plan would automatically come into force, and officers and staffs of all departments would take action as laid down in this book.

Action as prescribed in Accident Manual will *inter-alia* come into force. All officers and Supervisors concerned should be fully conversant with various duties listed therein and carry them out without fail

(Chapter - 2)

DISASTER PREPAREDNESS - AVAILABILITY OF RESOURCES

Railways are generally self-reliant in carrying out rescue and relief operations as a result of having a well organized set up including ARMVs and ARTs. However, major accidents, involving heavy casualties in remote areas or in difficult terrain or under adverse weather conditions are possible to be managed efficiently by mobilizing non-Railway resources also.

Disaster Management mechanism in Railways can be maintained at a high level of preparedness and efficiency by keeping all resources readily available and in good fettle. Resources imply both Railway and non-Railway men and material including medical personnel, transport, volunteers, Police and fire services.

Details of these resources, their location, contact numbers and other details have been identified, compiled and placed in a “Data Bank”. This Data Bank is available in the Divisional DM Plans of Khurda Raod, Waltair & Sambalpur divisions. These have also been available in the website of East Coast Railway (www.eastcoastrailway.gov.in) for ready access.

Resources available in case of a major accident may be grouped into 04 different units, depending on the time frame within which these can be made available after an accident. These are as follows:

- | | |
|-----------------------------|---|
| 1. Resource Unit I | Railway and non-Railway resources available on the train, and at nearby surroundings. |
| 2. Resource Unit II | Railway resources available at ARMV / ART depots and elsewhere within the division. |
| 3. Resource Unit III | Railway resources available at ARMV/ ART depots and elsewhere on adjoining Zones and Divisions. |
| 4. Resource Unit IV | Non-Railway resources available within or outside the division. |

2.1 RESOURCE UNIT – I

2.1.1 On trains carrying Passengers following resources are available

- i. First Aid Box available with the Guard.
- ii. First Aid Box available with Train Superintendent and in the Pantry Car.
- iii. Fire Extinguishers in Brake Van, AC coaches, pantry cars and Locomotives.
- iv. Portable Telephones, available in Locomotives and with Guard.
- v. Walkie- Talkie and CUG mobile phones with Guard and Loco Pilot.
- vi. Cell Phones /Mobile communications with Railway employees and passengers.
- vii. Emergency lighting box available with the Guard.
- viii. Information collected by Train Superintendent/Traveling Ticket Examiner about Medical Practitioners traveling on the train.
- ix. Information collected by TS/TTE about Railway Officers traveling on the train.
- x. Railway Staff traveling on the train - either on duty or on leave as passengers.
- xi. Passengers traveling on the train who volunteer their help for rescue and relief work.

2.1.2 Non - Railway resources available nearby

- i. Volunteers from nearby villages and towns including NGO.
- ii. State/Local administrative machinery as available nearby.
- iii. Contractual agencies working/not working with Railway in nearby location.
- iv. State disaster management authority.
- v. Police line(barrack) & Army unit if any.
- vi. Transport facilities and vehicles available at site or passing through nearby LC Gates.
- vii. Tractors with trolleys from nearby villages both for transport purposes and for lighting up the accident site.
- viii. Generators from nearby villages for lighting up accident site.
- ix. Station Staff and Local Railway Administration should requisition help from non-Railway sources before Railways own rescue team arrives.
- x. Railway Board can be requested to requisition the nearest NDRF (National Disaster Response Force) for relief and rescue operation at the time of major Railway disaster through Zonal HQ. Ref. Director Safety Railway Board letter No. 2003/Safety/DM/6/3, dtd. 09-11-09.
- xi. Such local networks are most effective in rushing assistance immediately, especially with regard to-

☞ Medical succor	☞ Lighting arrangements	☞ Divers.
☞ Additional manpower	☞ Transport services	☞ Boats with boat men
☞ Rescue equipments	☞ Fire fighting tools etc	☞ Earthmoving equipments.
☞ Robotics camera		

2.1.3 Railway resources available nearby

- i. Engineering gangs, Contractual labourers.
- ii. OHE, Signal, Engineering Depot & Mechanical staff available.
- iii. Other resources such as medical facilities, communication facilities.

2.1.4 Resources at adjoining Stations

- i. Staff available at adjoining or nearby stations.
- ii. Railway resources as given in respective Divisional DM Plans.
- iii. Non - Railway resources as given in respective Divisional DM Plans.
- iv. Resources should be mobilized to send medical team at short notice as given in the respective Divisional DM Plans.

2.2 RESOURCE UNIT – II

2.2.1 SP-ARTs, SPARMV, ARMVs, ARTs with 140/120 T crane are stabled at nominated stations. Their locations are given in *Chapter - 3*.

2.2.2 Railway medical and departmental resources. (given in *Annexure- 04*)

2.3 RESOURCE UNIT – III

2.3.1 Location of ARMVs, ARTs with 140/120 T crane based on adjoining Zones/Divisions are given in *Chapter - 3*.

2.3.2 Section wise chart of which ARMVs/ARTs are to be requisitioned from adjoining Zones/Divisions is given in *Chapter - 3*.

2.3.3 Resources of men and material available on adjoining Zones/Divisions are given in their data bank and included in the Zonal/Divisional DM Plans of respective Zones/Divisions.

2.3.4 Copies of DM Plans of adjoining divisions should be available with the Divisional Control Offices.

2.4 RESOURCE UNIT - IV

2.4.1 Non-Railway resources available within the division and included in the Divisional DM Plan.

2.4.2 Non-Railway resources available outside the Division, and included in the Divisional DM Plans of adjoining Zones/Divisions.

(Chapter – 3)
DISASTER PREPAREDNESS - ARMVs / ARTs

3.1 ACCIDENT RELIEF MEDICAL VAN (ARMV)

3.1.1 ARMV Scale-I – Equipment stored in Special Medical Relief Vans stabled in separate sidings;

- i. Location of ARMV Scale-I are given below in **3.2 .2** and neighboring Railway in **3.3.2**.
- ii. One key of the Van is available with the SSE(C&W) or Station Master in a glass fronted case.
- iii. Other key is with the doctor in charge of the ARMV.
- iv. Medicines and equipments are provided as per Rly. Board norms.
- v. Keys of all locks inside the ARMV are also in duplicate. One set of keys is kept with the Medical Officer in charge of ARMV and the other set of keys are kept in a glass-fronted case inside the ARMV.
- vi. The target time for turning out of ARMV is 15 minutes after sounding hooter where there is double exits and 25 minutes where there is single exit. (Now-a-days almost all double exit)
- vii. The Accident Relief Train (ART) must leave the based station to accident site within 30 minutes by day and 45 minutes by night after sounding hooter.

3.2. LOCATION OF ART AND ARME & BREAKDOWN CRANE

3.2.1 Location of ARTs over ECoR

Divn	Location	Class	Facilities Available
KUR	KUR	‘A’	140 T Diesel Break Down Crane (1987) and ART with two sets Lukas Hydraulic Re-railing equipments (1997) and (2000). Speed potential of the crane is 100 KMPH.
	BHC	‘B’	ART with 2 Coaches, 3 BCNATHS with Lukas Hydraulic Re-railing equipment (2003). Fit to run at 100 KMPH.
	TLHR	‘B’	ART with Lukas Hydraulic Re-railing equipment (2003). Fit to run at 100 KMPH.
	PSA	‘B’	ART with Lukas Hydraulic Re-railing equipment (2003). Fit to run at 100 KMPH.
SBP	KBJ	‘A’	140 T Diesel Breakdown Crane (2001) with Lukas hydraulic re-railing equipment (2000). Speed potential of modified 140 T Diesel crane is 100 KMPH
	SBP	“A”	‘A’ class with 140 T Diesel BD crane along with ART with Lukas equipment (2003). Speed potential of the crane is 100 KMPH.
WAT	VSKP	‘A’	‘A’ class with 140 T diesel crane with speed potential of 100 KMPH and 120T diesel crane along with ART with Lukas equipment (1998) fit to run at 50 KMPH.
	RGDA	‘A’	120 T Diesel Breakdown Crane (8/2002) with single acting Lukas equipment. Fit to run at 50 KMPH.
	KRPU	‘B’	Lukas Hydraulic Re-railing equipment (2003). Fit to turn at 100 kmph
	KRDL	‘A’	120 T Diesel breakdowns Crane (1970). With Lukas Hydraulic Re-railing Equipment. Fit to run at 50 KMPH.

3.2.2 Accident Relief Medical Van over ECoR

Divn	Location	Scale	Facilities Available
VSKP	VSKP	Scale-I	3 coach SP-ARMV (ICF) With 2 sets of HRD equipments (BAHCO: 1987, Holmatro: 2002)
	KRPU	Scale-I	2 coaches ARME with BAHCO HRD equipments (1998).
	VZM	Scale-II	
	NWP	Scale-II	
	RGDA	Scale-II	
	ARK	Scale-II	
	KRDL	Scale-II	
	JDB	Scale-II	
KUR	KUR	Scale-I	3 coach SP- ARMV With Lukas HRD equipment (2003).
	PSA	Scale-I	2 coaches ARME with BAHCO HRD equipments (2001).
	BHC	Scale-I	2 coaches ARME with Lukas HRD equipments (2001).
	CTC	Scale-II	
	BAM	Scale-II	
	TLHR	Scale-II	
SBP	SBP	Scale-I	3 coach SP-ARMV with Lukas HRD equipment (2003).
	TIG	Scale-I	2 coaches ARME with BAHCO HRD equipment (1990).
	BLGR	Scale-II	
	MSMD	Scale-II	
	KBJ	Scale-II	

NOTE: POMKA -Available in all health units and Hospitals of ECoR.

3.3 **POSITION OF ART/ARMES IN NEIGHBOURING DIVISION/RAILWAYS**

3.3.1 **ARTs of S. E. Railway**

Sn	Station/ Div.	Class	Facilities
1	BNDM/CKP	'A'	140 T Diesel Crane with Lukas Hydraulic Re-railing equipment.
2	CKP/CKP	'A'	140 T Diesel Crane with LUKAS Hydraulic Re-railing Equipment.
3	KGP/KGP	'A'	140 T Diesel Crane with Re-railing equipment and SPARMV.

ARTs of S. E. C. Railway

Sn	Station/ Div.	Class	Facilities
1	BIA/R	'A'	ART with MFD & 140 T Diesel Crane.
2	BSP/BSP	'A'	ART with Re-railing equipment & 140 T Diesel Crane.

3.3.2 **ARMVs of adjoining Railways**

S. E. Railway		S. E. C. Railway		S. C. Railway	
Station/Div.	Class	Station/Div.	Class	Station/Div.	Class
BNDM/CKP	Scale-I	BIA/R	Scale-I	RJY / BZA	Scale-I
KGP/KGP	SPART	BSP/BSP	Scale-I		

3.4 **USE OF ACCIDENT ALARM SIGNALS WHISTLE / HOOTER / STATION BELL**

3.4.1 **Long Range Electric Hooter**

- In case of an emergency when ordered by On-duty Chief Controller / Dy. Chief Controller will take out the Hooter key from the key box.
- If required break open the glass fronted case of the keyboard to take out the key and sound the Hooter.

- iii. Give five(05) hooting each 01 minute duration with 10 second interval when accident involving in passenger carrying train or injury/casualty in any accident to order out ARMV. This should be repeated twice at an interval of 05 min.
- iv. If there is a failure of delayed action switch, manually operate the check switch to give calls of one-minute duration with half-minute interval between two successive calls for a period of approximately 20 minutes.
- v. If there is no injury/casualty in the accident then ART is to be ordered out. In this case 03 hooting to be sounded each of 1 min duration with an interval of 10 secs between two(02) successive hooting.

3.4.2 At stations where electric Hooters is either not provided or where electric Hooter has failed.

- i. Give 05 whistles/hooting or calls of 01 minute duration each with 10 sec. interval between two successive whistles/hooting using an engine if available. This shall be repeated twice at an interval of 03 minutes.
- ii. If an engine is not available ring the station bell continuously. ART & ARME in-charges should be informed over CUG/Mobile phones for necessary action. SM has to provide transportation of Medical, Mechanical, Electrical, Engineering and other staff.

3.4.3 Portable Telephones

The Portable Telephones available in Brake Van of Passenger Carrying Trains either 4W or 2W may be used to contact emergency Control (CNL) or section CNL as per the type of section to convey the information.

(A) Types of Portable Telephones:-

- (i) Portable Telephones are available in Brake van of Passenger carrying Trains.
- (ii) Telephones presently in use are of the 4-wire/2-wire type of portable phones, which can be used in RE area as well as in overhead communication territory.
- (iii) There are two types of Portable Telephones.
 - Landline type (Overhead Telephone line transmission)
 - Socket Type (Underground cable transmission)
- (iv) In overhead territory additional poles are to be carried by Guards for connecting phones to the overhead lines.

(B) How to use Portable Telephones:-

(a) Overhead type:-

- (i) Fix "Y" bracket on the poles.
- (ii) Use required number of poles available.
- (iii) Connect the two wires to phone terminals.
- (iv) Circuit on Red colour bracket side connects the section controller telephone line.
- (v) Circuit on the Green colour bracket side connects the Deputy Chief Controller telephone line.
- (vi) Link "Y" bracket on the circuit and rub it for clear communication.

(b) Underground cable type:-

- (i) Look at Receiver Arrow sign for socket location on Over Head Equipment (OHE) mast / location post and move towards the Arrow pointing direction.
- (ii) On reaching EMC Socket location, open the socket by using the key kept in the phone box where required.
- (iii) Plug in the phone terminal properly for communication.
- (iv) In electrified section this phone connects the Traction power controller and then link to section controller.

3.4.4 All walkie talkie sets to be ensured properly charged and tested and proper channel setting for communication including use of "SOS" button in case of emergency.

- (i) Ensure that the set is charged.
- (ii) Check that the proper channel is selected for communication.
- (iii) Do not intervene when the channel is engaged.
- (iv) Never Press "SOS" button provided in walkie-talkie unless it is a real emergency. In case of emergency if "SOS" button is provided on the mobile, it should be used to override an on going conversation.

Use of BSNL/Cell Phone/Mobile Phones

- (i) BSNL phone numbers with STD code for Railway stations in a Division are given in WTT (Working Time Table).
- (ii) WTT is available with Guard and Driver.
- (iii) Refer WTT or nearest Station contact number.
- (iv) BSNL phone numbers of important Stations are also available in Public Time Table.
- (v) Effective Inmarsat /Satellite Phone.

Emergency Train Lighting Box

How to use ETL BOX:-

- (i) This box is available in the Brake Van of Passenger carrying trains.
- (ii) Open the box by removing the seal.
- (iii) Fix the crocodile clip of hand Torch to the coach power supply terminal and use it for searching/surveying.
- (iv) Fix the flood light on the Tripod Stand and connect its crocodile clip to the power supply terminal.

Stretcher

Fire extinguisher

Fire extinguishers are available with Guard, Locopilot and in AC coaches. All on board staff should be trained for use of fire extinguishers.

3.4.5 Sounding of Hooter:-

(a) Sounding of hooter for turning out of Relief Train/ARME van will be as follows:-

	Total No. of blasts	Duration of each blast	Gap between consecutive blasts	2
(i) Relief Train with ARME	5	60 seconds	10 seconds	
(ii) Relief Train without ARME	3	60 seconds	10 seconds	

(b) The SSE(Loco) or any other official in-charge of the 'Hooter' is responsible for proper maintenance of it and to keep a trained staff ready round the clock for sounding the hooter at once on receipt of orders from train ordering officials.

(c) Target time for the turn out of ARME and ART.

- (i) The Accident Relief Medical Van must be dispatched to the site of accident within 15 minutes from the base station after sounding the hooter where there is double exit siding and within 25 minutes in case of single exit siding with the first available engine.
- (ii) The Accident Relief Train must be turned out/dispatched from the base station to the site of accident within 30 minutes by day and 45 minutes by night after sounding of hooter.

(Chapter – 4)
DISASTER RESPONSE – AN OVER VIEW

4.1 FIRST AID IN EMERGENCY

4.1.1 Order of priority for dealing with and helping injured passengers should be as follows –

1	Unconscious	4	Grievously injured
2	Bleeding excessively	5	In a state of shock
3	Having breathing problems	6	Having fractures & simple injury

4.1.2 For assessing and handling injuries, acronym DR ABC is to be followed –

i. D- Danger

Look for danger. Make sure that no further danger exists either for the patient or for the First Aider.

ii R – Response

Check for consciousness. Call by his/her name, slap, pinch and shake gently. If there is no response, then it means that the patient is unconscious.

iii A – Air Way

Clear the airway (Trachea). If patient is unconscious, then the airway may be narrowed or blocked making breathing impossible. This occurs due to several reasons. Mass food particles or foreign body in the air passage; or the tongue may have sagged back and blocked the air passage.

To open the airway lift the chin forward with the fingers of one hand while pressing the forehead backwards with the other hand, now the tongue comes forward and the airway is cleared. To clear the other objects in the mouth press the Jaw, open the mouth put your fingers or a clean cloth in the mouth and clear the things. Now the air passage is clear.

iv B - Breathing

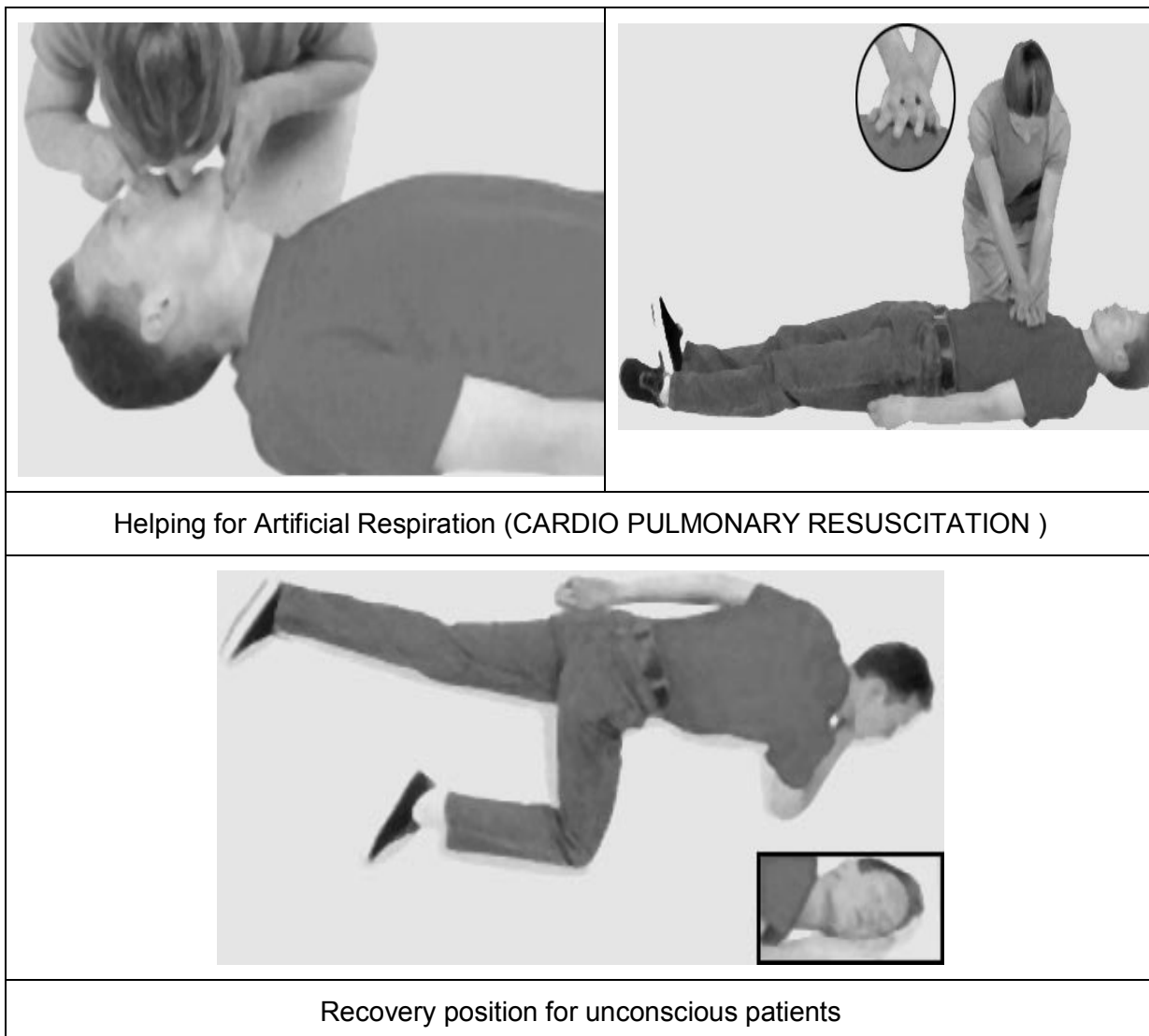
Check for breathing. Keep the back of your fingers near the nose of the patient. You can feel the warm air (or) keep your ear near the nose and look for the movement of chest, listen to the sound from the throat and feel the warm air from the nose.

v C - Circulation

Check the pulse. Normally we check the pulse at the wrist, however, sometimes it is not felt because of severe bleeding. So, it is better to check the pulse at neck. (Carotid Pulse).

4.1.3After checking DR ABC, there may be two possibilities –

- i. If patient is breathing, has circulation but is unconsciousness, immediately turn him to Recovery position and transport to hospital.
- ii. If the patient has failure of breathing and circulation, then immediately start CPR (CARDIO PULMONARY RESUSCITATION) the important life saving technique in First Aid. (figures are shown in next page)



4.1.4 Recovery position -

- i. Recovery position is the safest position for unconscious patients. Normally we keep the patient in a supine position. However, in case of unconscious patients, it is a very dangerous position because the tongue can fall back and close the airway or saliva and other secretions may get into windpipe. To avoid that, turn the casualty into recovery position and transport to hospital.
- ii. Sometimes, you may not be in a position to do First Aid due to tense situation. In such circumstances at least turn the casualty to Recovery position, which would help to save many precious lives.

4.2 GOLDEN HOUR RULE

- 4.2.1 The basic principle of Trauma Management is speed and expediency – ***“Most Trauma patients die of shock, which comes from sluggish or non existent circulation and the resulting chemical changes in the body.”*** (Dr. R. Adams Cowley, Maryland Institute for Emergency Medical Services).

Therefore critical trauma patient should be given medical care within one hour from the time of accident. Chances of recovery/survival reduces drastically, even with best medical attention given thereafter. This period of one hour is known as **“The Golden Hour”**.

During golden hour period patients should be provided with treatment to arrest bleeding, shock relieving and artificial respiration and keeping them in recovery position.”

- i. Most Trauma patients can be saved if bleeding is effectively stopped and blood pressure restored within an hour.
- ii. It is likely those patients, who have experienced shock and remain in that state of shock for long duration will die. Surgical intervention within that first one hour is, therefore, crucial for increasing the patients' chances of survival.
- iii. Thus, "The Golden Hour," begins the moment the injury occurs.
- iv. The Golden Hour operation called effective if injured comes under medical surveillance immediately.

4.2.2 The basic steps for quick and effective rescue and relief operations are following:

- i. Rapid access to the site of accident for searching of victims.
- ii. Quick extrication of victims and effective on-site medical management.
- iii. Expeditious extraction and shifting to rescue vehicle(s).
- iv. Speedy transportation to hospital.
- v. Never waste a minute only to analysis postmortem of mistakes rather work effectively.

(Chapter-5)

DISASTER RESPONSE – INSTANT ACTION TEAM

It is necessary to take firm and quick decision to save lives and property. To achieve these objectives Rly. have a well defined action plan that is successfully executed by the co-ordinated efforts of different disciplines, all of whom function as a team. The three groups which are active during Disaster response, may be classified as follows –

- A. **Instant Action Team (IAT)** [Chapter – 5]
- B. **First Responders (FR)** [Chapter – 6]
- C. **Disaster Management Team (DMT)** [Chapter – 7]
- D. **Coordination Centres.** [Chapter – 8]
- E. **Receive & dispatch centres.**

5.1 INSTANT ACTION TEAM (IAT)

5.1.1 Instant Action Team Comprises

- i. The Guard, Crew, TS, TTEs, AC Mechanics, AC coach attendant, Asst. Guard, RPF and other on board Railway staff on the accident affected train.
- ii. GRP staff traveling on the affected train on duty.
- iii. Railway staff traveling by the accident involved train either on duty or on leave as passengers.
- iv. Doctors traveling by the affected train.
- v. Passengers traveling on the train who volunteer for rescue and relief work.
- vi. Railway staff working at site or available near the site of the accident.

- vii. Non-Railway local volunteers available at or near the accident site.

5.1.2 Checklist for Members of Instant Action Team (IAT)

- i. Generally, about 15 minutes of time elapses before information regarding occurrence of an accident reaches the Divisional Control Office. In case information can be conveyed immediately this time can be saved. This 15 minutes of time is of vital importance since it constitutes 25% of the 'Golden Hour'.
- ii. In case any Railway staff/officer of the Instant Action Team members (IAT) has a Mobile, should ensure that telephone numbers of all relevant officials such as those of Divisional Control Offices etc. have been permanently fed into the Mobile for immediate use in an emergency.
- iii. These important telephone numbers should cover all those sections where they are required to work their train either within their own division or even those of adjoining divisions.
- iv. Divisions will get a print out and circulate a DM Telephone Directory containing all such telephone numbers that are likely to be required in an emergency.
- v. Whenever IATs are traveling at night they should keep a torch handy and secure it by some means. The torch will be of no use in an emergency if it cannot be taken out from inside the suitcase at that point of time; or if the torch cannot be located since it has fallen off due to severe jerk.
- vi. Important Telephone numbers of Divisional Officers, HQ Officers and of State Government are shown at **Annexure – 9, 16 to 19**.

DETAILED DUTY LIST OF GUARD AND LOCO PILOT ARE LAID DOWN IN THE ACCIDENT MANUAL OF ZONAL RAILWAYS. SOME OF THE MORE IMPORTANT ONES ARE ENUMERATED BELOW:

5.1.3 Guard/Asst. Guard

- i. Note down the time of the accident and the location.
- ii. Switch on the Amber Light, if provided, in Flashing Tail Lamp, in the rear of brake van.
- iii. Inform Loco Pilot through walkie-talkie set / CUG mobile phone.
- iv. Inform Station Master on walkie-talkie set / CUG mobile phone if possible.
- v. Protect adjacent line/lines first if required and then the line on which the accident has taken place as per **G&SR 6.03**.
- vi. Secure the train and prevent escaping of vehicles.
- vii. Make a quick survey of magnitude of accident and roughly assess casualty, damage and assistance required.
- viii. Send information through quickest means (C U G mobile phone/portable phone) to Control Office and SMs on either side of the block section for this purpose.
 - ☞ Walkie-talkie communication provided with stations should immediately be used.
 - ☞ Otherwise field portable telephone should be used.
 - ☞ If a train comes on the other line, which is not blocked, the same should be stopped and information sent through the Loco Pilot.
 - ☞ Assistant Loco Pilot or Assistant guard may be sent to the next station to convey information of the accident.
 - ☞ If all of the above fail, one of the Railway staff on duty on the train should be sent on foot to the nearest station.
- ix. Utilize Emergency Train Lighting box to facilitate medical aid.
- x. Save lives and render First Aid & send patients to nearby hospital.

- xi. Call for Doctors and seek their assistance.
- xii. Seek assistance of Railway staff and other volunteers from train to rescue injured or entrapped passengers.
- xiii. Direct Railway staff and other volunteers from train for attending to injured.
- xiv. Ensure that field telephone is constantly manned by a Railway staff.
- xv. Arrange protection of passengers' belongings and Railway property with the help of Railway staff, volunteers on train, RPF and GRP.
- xvi. Stop running trains on adjacent line and utilize resources on that train.
- xvii. In electrified section if OHE is affected, take steps to switch off OHE supply.
- xviii. Arrange for transportation of injured to hospital effectively & immediately.
- xix. Record evidence or statements, if any given by passengers.
- xx. Preserve all clues and evidences regarding probable cause of the accident and ensure that these do not get disturbed.
- xxi. Log activities. Do not leave the spot unless relieved by a competent authority.

5.1.4 Loco Pilot

- i. Note down the time of the accident and location.
- ii. Switch ON the 'Flasher light' of the locomotive and give 4 short whistles.
- iii. Inform Guard on walkie-talkies set / CUG mobile phone.
- iv. Light the Fusee, if required.
- v. Inform Station Master on walkie-talkie set / CUG mobile phone if possible.
- vi. Protect the adjacent line, if required, and the train in front as per **G&SR 6.03**.
- vii. Take necessary action to keep the loco safe.
- viii. Take necessary action to prevent Loco/Vehicles/Wagons from rolling down.
- ix. Make a quick survey of magnitude of accident and roughly assess casualty, damage and assistance required.
- x. Send information through quickest means (C U G phone) to Control Office and SMs on either side of the block section. For this purpose,
- xi. Walkie-talkie communication provided should be used with stations immediately.
- xii. Otherwise field telephone should be used.
- xiii. If a train comes on the other line, which is not blocked, the same should be stopped and information should be sent through the Loco Pilot.
- xiv. Assistant Loco Pilot or Assistant guard may be sent to the next station to convey information of the accident.
- xv. If all of the above fail, one of the Railway staff on duty on the train should be sent on foot to the nearest station.
- xvi. Render all possible assistance to the Guard.
- xvii. Preserve all clues and evidences regarding probable cause of the accident and ensure that these do not get disturbed.
- xviii. Log your activities. Do not leave the spot unless you are relieved by a competent authority.
- xix. If necessary detach Loco and take it to inform SM.

5.1.5 Train Superintendent/Traveling Ticket Examiners

- i. Preserve reservation charts of each coach containing names of passengers who actually traveled and in which berth no. and make two nos. scan / xerox .
- ii. Avail services of Doctors traveling by the train and render Medical Aid to injured.
- iii. Render First Aid to injured & open help line.

- iv. Collect particulars of injured passengers and prepare a list showing exact position of injured in coaches, from Train Engine to Brake Van. This should be handed over to Railway doctors when ARMV arrives.
- v. Prepare a separate list of dead passengers with address and ticket particulars, if available.
- vi. Take assistance of local people and other volunteers at site.
- vii. Transport injured passengers by road vehicles, if available, to the nearest hospital.
- viii. Inform stranded passengers about alternative transport arrangement.
- ix. Record evidences or statement volunteered by passengers/others at site.

5.1.6 AC Mechanic/Attendant

- i. Switch off the power supply to avoid short-circuiting.
- ii. Assist the TS/TTEs in their duties at the accident site.

5.1.7 RPF and GRP Staff

- i. Try and rescue as many passengers as possible from the accident-involved coaches.
- ii. Render First Aid to injured.
- iii. Arrange to shift injured persons to the nearest hospital.
- iv. Protect luggage of passengers and Railway property.

Preserve all clues and evidences regarding probable cause of the accident and ensure that those do not get disturbed/destroyed.

5.1.8 Duties of Railway Staff traveling on the accident affected train

- i. Whenever a train is involved in a serious accident with casualties/injuries to passengers, all Railway staff traveling on the train either on duty or on leave are deemed to be on duty with immediate effect.
- ii. Under no circumstance should any of them leave the accident site unless and until Divisional Officers arrive, take over charge of rescue and relief operations, and permit them to leave.
- iii. Railway staff on train/at site shall volunteer themselves to render assistance and report to TS/TTE/Guards of the Train.
- iv. The Senior Most Officer traveling on the train will assume charge as Officer-in-charge Site (OIC Site).
- v. Normally the Senior Most Officer will be traveling in either the 1AC or in 2AC coach, and most probably in the HQ(EQ) quota section of the coach. The HQ section of 2AC is invariably in the center of the coach (**berth nos. 19-22**). In any case the TS/TTE should know who are the Railway Officers traveling in 1AC or 2 AC.
- vi. Similarly, other Railway staff will be traveling in 3 AC coach; and most probably in the HQ(EQ) quota section of the coach. The HQ section of 3AC is also in the center of the coach (**berth nos. 25-30**).
- vii. In the absence of any officer, the TS or senior most TTE or the Guard will discharge duties listed out for OIC Site.
- viii. Similarly, some Group 'D' railway staff may be travelling in Sleeper coach; and probably in the HOR quota section of the coach. The HOR section of a Sleeper coach is located in the center of the coach (berth nos. 33-40)
- ix. In the absence of any officer, the TS or senior most TTE/Guard will discharge duties listed out for OC site.

5.1.9 Duties of OIC Site (Immediately after the accident)

The senior most staff/officials traveling in the train is termed as OIC Site. He may be Train Superintendent or senior most TTE, if, no officer traveling in that train. He should

- i. Note down the time of accident.
- ii. Ensure protection of traffic by Guards and Loco Pilots.
- iii. Ensure reporting of accident to nearest Station/Control.
- iv. Roughly assess the extent of damage and likely number of casualties.
- v. Collect Railway staff and volunteers from amongst the passengers and form different groups. Each of these groups should be assigned work as detailed at Chapter – 6 below.
- vi. Maintain a log of events.
- vii. Continue to discharge duties of OIC Site, till Divisional Officers arrive and take over charge of the situation.
- viii. After Divisional Officers arrive, fully brief the DRM/ADRM and hand over charge to them.
- ix. The on board OIC Site should ensure issue of a detailed message with following information before leaving the site of the accident.
 - ☞ Time & Date of accident.
 - ☞ Location Km. & between stations.
 - ☞ Train number and description.
 - ☞ Nature of accident.
 - ☞ Approximate number of killed/injured.
 - ☞ Extent of damage.
 - ☞ Assistance required.
 - ☞ Condition of the adjacent line, if any.
 - ☞ Whether OHE is involved.

On arrival at accident site, Divisional Railway Manager/Additional Divisional Railway Manager will discuss with OIC Site and will issue suitable instructions to the rescue groups & their leaders regarding use of available resources in rescue operation till arrival of the accident relief train.

5.2 FORMATION OF GROUPS COMPRISING MEMBERS OF INSTANT ACTION TEAM (IAT)

- 5.2.1** OIC site shall immediately collect all Railway staff on train/at site and form separate groups.
- 5.2.2** Passengers traveling by the same train who volunteer for rescue and relief work should also be drafted into these groups.
- 5.2.3** Passengers from accident-involved coaches should be directed towards unaffected coaches.
- 5.2.4** In the absence of OIC site, TS/TTE shall take steps to form such groups.
- 5.2.5** In the absence of TS/ TTE, Guard/Assistant Guard shall take steps to form such groups.
- 5.2.6** 5 or 6 groups should be formed depending on number of coaches involved.
- 5.2.7** Ideally, one group should be formed for handling each coach.
- 5.2.8** In case sufficient number of Officers are present, then one Officer should be made in-charge of each group.
- 5.2.9** Otherwise, Sr. Supervisors traveling by the accident-involved train should be nominated as in-charge of each group to co-ordinate it's working.
- 5.2.10** In case sufficient number of /Sr. Supervisors are also not present, one TTE should be nominated as in-charge of each group to co-ordinate its working.
- 5.2.11** Each group should rescue injured, entrapped passengers.

5.3 DUTIES OF ON BOARD RAILWAY STAFF (IAT) IMMEDIATELY AFTER THE ACCIDENT

- 5.3.1** Don't panic. Once the accident has already occurred and the train has come to a standstill nothing worse can happen further.
- 5.3.2** In case you have a Mobile phone and it is working, inform the Divisional Control Office immediately about the accident. Accident message can be informed to Divnl. Control Office by mobile phone if found in working condition. Most of time land phone, any more effective.
- 5.3.3** Observe the position in which your coach has stopped; whether it is standing upright or turned upside down or lying on its side.
- 5.3.4** Try and see whether the coach has stopped on a bridge or whether there is level ground on both sides.
- 5.3.5** In case the coach is on a bridge or very high embankment or in case it is raining heavily, then it is better to wait for some time and not be in hurry to leave the coach, to avoid further deterioration of situation.
- 5.3.6** If night, search your coach with your torch and try to determine the general position.
- 5.3.7** See that passengers don't get panicky. Passengers sometimes make things worse for themselves by panicking at this critical moment. They should be calmed and their confidence to be built up.
- 5.3.8** Ascertain whether passengers are injured or not and whether any of them are trapped or pinned down inside the debris.
- 5.3.9** Call out aloud and find out whether there are any doctor(s) present in the train.
- 5.3.10** Doctors who are traveling in the coach should be asked to announce their presence so that they can attend to and help injured passengers.
- 5.3.11** Call out aloud and find out whether there are any Railway staffs present in the train.
- 5.3.12** Railway staff who are traveling in the coach should be asked to announce their presence so that they can attend to and help other passengers.
- 5.3.13** For each coach, form a core team comprising of Railway staff available, doctors and 3 or 4 volunteers from the same coach. This core team should take the lead in helping remaining passengers both injured and uninjured.

5.4 DUTIES OF MEMBERS OF INSTANT ACTION TEAM (IAT) – TILL ARRIVAL OF DIVISIONAL OFFICERS

- 5.4.1** If a person is bleeding and losing blood, or if he is unconscious, then in that case quick action is required keeping "Golden Hour" in mind. At the most only one hour's time may be on hand.
- 5.4.2** Action should be taken as mentioned in Chapter - 4.
- 5.4.3** Persons trained in First Aid may be identified do take specialized action like 'Cardio Pulmonary Respiration'.
- 5.4.4** If the door is open and is accessible, then uninjured passengers should be helped to come out through the door.
- 5.4.5** In AC coaches the window panes/glasses should be broken open in order to let in fresh air for the occupants, and thereafter to evacuate them.
- 5.4.6** Non-AC coaches have one emergency exit window on each side. The position of this emergency window is 5th from the left when facing the line of windows from inside the coach. They are opposite berth nos. **23 and 57**. In case the door is locked and jammed, try and open these windows so that some of the uninjured passengers can come out through the emergency exit.

- 5.4.7** Special care should be taken while evacuating the old, infirm/ill and children in order to ensure that they are not separated from their family members as far as possible.
- 5.4.8** Extrication of critically injured should be done under medical supervision as far as possible.
- 5.4.9** In case medical supervision is not available, the critically injured passengers should be made to lie down on a bed sheet and thereafter taken out by 4 persons holding the four corners. This will ensure that no further damage takes place. (Bed sheets will be available in AC coaches).
- 5.4.10** Passengers who are bleeding from open cuts should be tied up with strips of clothes so as to reduce bleeding as far as possible if cannot be stopped completely.
- 5.4.11** It is better not to take out the luggage from inside the coaches at the first instance, for two reasons. Firstly, passengers both injured and uninjured should get preference in this evacuation process. Secondly, it may be safer for the luggage to be left inside where there are fewer chances of being stolen or pilfered.
- 5.4.12** After passengers have been evacuated from coach, cross check with the reservation chart and against the name of each passenger note down as to whether the passenger is injured or not.
- 5.4.13** After all passengers have been evacuated, water and eatables can be taken out gradually.
- 5.4.14** Building up confidence of injured passengers by suitable advice is of great importance.
- 5.4.15** After helping to evacuate all passengers from the reserved coach go over to the unreserved coaches and provide similar help to those passengers also.
- 5.4.16** Railway officials from Divisional Head Quarter generally arrive at the site of the accident within 2 to 3 hours, depending on the distance of the accident site from the Divisional Head Quarter. Wait for them to come and make further arrangements.
- 5.4.17** Grievously injured passengers who are bleeding or those who are unconscious require immediate hospitalization. In case some local people have arrived by that time, their help should be taken in shifting the grievously injured to the nearest hospital.

5.5 DUTIES OF THE INSTANT ACTION TEAM (IAT) – IN CASE OF A FIRE

- 5.5.1** In case of fire, pull the Alarm Chain and stop the train immediately.
- 5.5.2** Try to put out the fire before it becomes a big blaze by using either water/blankets/fire extinguishers available with Guard's lobby, AC coaches, pantry car and Locomotive.
- 5.5.3** More people expire due to suffocation from smoke rather than due to actual burning. Advise passengers to take a cloth, wet it by using their drinking water and cover their nostrils and also try to make areas less populated.
- 5.5.4** Instruct passengers to go to the other end of the coach, which is away from the fire, and if possible cross over to the next coach through the vestibule.
- 5.5.5** Insist that passengers should save themselves first and not to bother about their luggage which can be retrieved later on.
- 5.5.6** Make sure that no passenger lies down on the floor.
- 5.5.7** After train has stopped, passengers should come down from the coach immediately.
- 5.5.8** Building up confidence of injured passengers by suitable advice is of great importance.

5.6 DUTIES OF OFFICER-IN-CHARGE(OIC) SITE – TILL ARRIVAL OF DIVISIONAL OFFICERS

Having formed different groups consisting of available Railway staff on the train and volunteers from amongst passengers, the rescue and relief work should be got started in right earnest. This entire exercise would take about 30 minutes time. Once the

rescue and relief work by the Instant Action Team has got underway, the OIC site should then enlist the help of First Responders i.e. the local volunteers of the nearby villages.

5.6.1 Locating nearby villages ;

- i. There would be some villages nearby, either visible or out of sight.
- ii. In most cases, villagers turn up on their own having heard the sound of the disaster.
- iii. Otherwise, try and see if any light or any other signs from the village are visible.
- iv. In case none of the above is possible, then speak to either the control office or the nearest station and find out the location of nearby villages as also their general direction.
- v. Location of nearby villages as also their general direction will be available in the Divisional DM Plans.
- vi. Having ascertained the general location of nearby villages, send messengers (preferably Railway staff) to inform villagers and seek their assistance.

5.6.2 Locating the nearest manned level crossing gate;

- i. The train Loco Pilot is the best and fastest source of information regarding location of the nearest manned level crossing gate in either direction.
- ii. Send a messenger (preferably a Railway staff) to the gate for contacting the gateman.
- iii. In most cases, the gateman will be able to give location of nearby villages.
- iv. The messenger should then try and stop any passing vehicle and go to the nearby village, inform villagers and seek their assistance.

5.6.3 Organizing assistance from local people available in nearby villages ;

- i. Villagers should be asked to make an announcement from their loud speaker (generally available in the local Temple, Mosque, Gurudwara, Church etc). informing others regarding the accident also NGO may be asked to Annexure.
- ii. Everybody should be asked to rush to the accident site with following:
 - a. Tractor trolleys (both for transportation as also for general lighting).
 - b. As many cutting implements/equipments, hammers, chisels etc. as are available.
 - c. Ropes & Ladders.
 - d. If doctors or Para-medical staff are available in the village they should also be requested to attend the accident site.
 - e. The messenger should stay back and try and organize opening of a big building (preferably a school) for sheltering of injured passengers and / or preservation of dead bodies.

(Chapter – 6)

DISASTER RESPONSE – FIRST RESPONDERS

6. Duties of First Responders – Local People:- At Accident site:

- (i) Tractors which arrive should be lined up in a row facing the track with their headlights switched ON for illuminating the accident site.
- (ii) Tractors should be so spaced out that they illuminate the entire length of the accident site. Such spacing would also depend on number of tractors that have arrived.
- (iii) Rescue and relief work should now be mounted under the available light.
- (iv) Villagers arriving for rescue and relief work should be formed into separate groups for handling individual coaches.
- (v) Group leaders of IAT who were earlier conducting rescue and relief work should co-ordinate

with the local people and guide them.

- (vi) Grievously injured passengers extricated from coaches should be sent to the nearest hospitals in tractor trolleys.
- (vii) Passengers who have suffered trivial injuries and uninjured passengers should stay back at accident site and wait for arrival of railways DM team who would take charge of them.
- (viii) As a thumb rule, any injury requiring hospitalization of more than 48 hrs. is grievous, hospitalization of less than 48 hrs. is simple, and any injury not requiring hospitalization at all is trivial.

(ix) The following priority should be adhered to while sending such grievously injured passengers:-

- unconscious.
- Bleeding excessively,
- Having breathing problems,
- Grievously injured,
- In a state of shock,
- Having fractures,
- Simple injured.

- (x) Dead bodies, if extricated should be kept alongside the coach but away from the track for proper tagging etc. before being dispatched for preservation.
- (xi) Bodies should be kept in separate lots, coach-wise, so that they do not get mixed up.
- (xii) Tagging of dead bodies should indicate the coach number and also the cabin number, if possible. (For example NCR 98127, cabin number containing berths 9-16)

In Villages/Towns at accident site:-

- (i) A big building, preferably a school building should be got vacated and made ready for keeping of dead bodies and unclaimed luggage of passengers.
- (ii) They should be asked to bring the following to the accident site for train passengers:
 - Tea and refreshments,
 - Warm clothing, if required.
- (iii) Look after injured passengers who have been taken to the village.
- (iv) Take injured passengers to the nearest hospital by means of any transport available. For this purpose, apart from tractor trolleys, even trucks passing on the highway can be utilized.

6.1 DUTIES OF FIRST RESPONDERS – RAILWAY STAFF

6.1.1 Duties of Gang Staff

- i. On double/multiple line section stop any other train approaching the accident area by showing hand danger signal.
- ii. Ensure that track alignments or lines are not disturbed.
- iii. Report to OIC site and assist in rescue and relief work.
- iv. Assist in extricating injured passengers from affected coaches.
- v. Assist in transporting them to nearest hospitals.

6.1.2 Duties of Gateman

- i. Keep gate closed if the train has not cleared the gate.
- ii. On double/multiple line section stop any other train approaching the accident area by showing hand danger signal.
- iii. Arrange to inform SM immediately.
- iv. Don't meddle with Interlocking.

- v. Avail services of road vehicles waiting or passing through LC Gate, send message to nearby village, informing them regarding the accident.
- vi. Collect men and material available nearby and request them to assist at site.

6.1.3 Duties of Station Master at adjoining station

i. Conveying of information :

- a. Arrange protection of traffic by keeping all signals at “**ON position**”.
- b. Report the accident to Station Master at the other end. He should be asked to call all off duty staff at his station and send them to the accident site.
- c. Report the accident to Section Controller.
Control to be advised regarding -
 - ☛ Time and nature of accident.
 - ☛ Brief description of accident.
 - ☛ Adjacent lines clear or not.
 - ☛ Damage to rolling stock.
 - ☛ Damage to track in terms of traction posts.
 - ☛ OHE masts damaged or not, and extent of damage.
- d. Approximate number of dead and injured (grievous, simple) to be obtained from the TS/TTEs.
- e. Following functionaries should be advised regarding the accident:
 - ☛ All off duty Railway staff posted at that station.
 - ☛ SS of junction stations at either end.
 - ☛ TI, CMI.
 - ☛ P.Way/TRD/C&W/S&T Supervisors
 - ☛ Inspector/RPF and OIC/SHO/GRP
 - ☛ Nearest Fire Station personnel.
- f. Inform civil authorities, village/town/city representatives and volunteers for possible relief assistance.
- g. Supervisory Station Manager of the nearest Station shall proceed to accident site.

ii. Medical assistance

- a. Ask for assistance from local Doctors, Civil, Army Hospitals and St. John Ambulance.
- b. Arrange adequate number of First Aid boxes and stretchers.
- c. Mobilize local medical team and send it to site to render First Aid to the injured.
- d. Quickly transport ARME Scale-II equipment to the site of the accident if available in station.

iii. Assistance to Passenger

- a. Arrange drinking water, beverages and refreshments either from Refreshment Room or local sources.
- b. Supply beverages and refreshments to stranded passengers.
- c. Open emergency counter and display necessary information at the site.
- d. Collect information on dead/injured and convey it to OIC /Control whenever asked for.
- e. Make frequent announcements about diversion, cancellation and regulation of train services.

iv. Transport assistance

- a. Arrange for transport from local resources, if available, for transporting injured passengers to nearest hospitals by fastest possible means.
- b. For this purpose, apart from tractor trolleys, even trucks passing on the highway can be utilized.

- c. Stranded passengers to be transported from the accident spot by arranging transshipment either by train or by hiring road vehicles.

v. Security assistance

- a. Advise RPF/GRP/State Police to provide security to passengers, the belongings and Railway property.
- b. They should also be asked to assist in rescue and relief work.

vi. Communication Assistance

- a. Direct passengers to PCO booths available nearby.
- b. Make available STD/mobile phone to relatives of dead/injured where possible.

vii. Sending manpower for site

- a. Proceed to site of the accident by quickest means with trolleys, lamps, vendors, porters etc and any other equipment that is considered necessary.
- b. Continue to be in-charge of site and carry out rescue/relief operations till relieved by a Traffic Inspector (TI) or Divisional Officers.

viii. Preservation of clues and evidences

- a. TI/SM first reaching the site shall take action to preserve clues and evidences.
- b. Secure records related to accident in the Station/Cabin.
- c. Seal slides, levers, knobs and Relay room, if accident takes place within the Station limit.

6.2 DUTIES OF TI/SE(P.WAY)/SE(SIGNAL)/SE(C&W)/SE(TRD)/LI/SE(Power Supply)

6.2.1 Rushing to accident site with men and material

- i. Before leaving for the site of accident organize maximum number of men to go to the accident site along with their equipment.
- ii. Reach the site of accident by quickest available means.

6.2.2 Rescue and Relief

- i. Ensure that the obstructed line is protected.
- ii. Direct all staff working under them to assist in rescue and relief work.
- iii. All of them should work as per directions of OIC Site.
- iv. Assess casualties and arrange to render First Aid.
- v. Shift injured to nearest hospital.

6.2.3 Joint measurements and preservation of clues and evidences

- i. Sr. Sub-ordinates at site are responsible for measurements and preserved clues & evidence.
- ii. RPF staffs at site should protect & preserved the clues and evidences.

6.2.4 First Responder – other than Rly. Staff

- i. Villagers of nearby village
- ii. Police Barrack nearby
- iii. Army unit nearby
- iv. State / Local Administrative machinery as available nearby.

(Chapter - 7)
DISASTER RESPONSE – OFFICERS AT DIVISION & HQ

7.1 GENERAL

7.1.1 Intimation of Accident – Divisional Control Office

- i. In the Divisional Control Office, information regarding an accident is generally received either by the Section Controller or the TPC/DPC/TLC.
- ii. In most cases, the First Information Report also intimates the approximate number of coaches involved and a rough estimate of the likely number of casualties (such as “ heavy casualties expected ”).
- iii. Accidents involving a passenger carrying train where the first information says that heavy casualties are expected, should prima-facie be treated as a **Disaster**.
- iv. The moment information regarding an accident involving a passenger carrying train is received in the divisional control office, the accident bell in the control room should be sounded for alerting all on-duty functionaries.
- v. After all on-duty functionaries gather around the section control board they will be briefly informed about the accident.
- vi. Each functionary will thereafter resume his position and take steps to set in motion activities required from him.
- vii. TPC will switch off OHE in case it has not tripped. OHE will not be restored even on adjacent line unless confirmation has been received from site that adjacent line is not obstructed and OHE is all right.
- viii. Controller/DPC/TPC will undertake the following action in the given order of priority:
 - ☛ Give orders to on duty Crew Controller/ Dy. Chief controller/Section Engineer/ SM for sounding the Hooter for ARMVs / ARTs with crane if required.
 - ☛ DPC/TPC will also order movement of ARMV and ART (with 140T crane if required) from adjacent divisions for approaching the accident site from the other end after getting approval from competent authority. Details of ART/ARME in adjacent Railways are given in **Chapter-3, sections 3.3.1 & 3.3.2**.
 - ☛ Thereafter he will inform his Departmental Officers and Supervisors.
- ix. Dy.CHC(Chg.) will first inform to Hospital regarding Casualty . Thereafter he will inform officers and supervisors of the division with the help of other departmental agencies in control office.

7.1.2 Intimation of Accident – Railway Doctors

Dy.CHC(Chg.) will first inform the Emergency unit of Railway Hospital regarding details of the accident. Railway doctor on emergency duty shall undertake the following:

- i. Note down time of receiving message.
- ii. Inform CMS, MS, Doctors & Para medical staff and instruct them to reach the ARMV immediately.
- iii. Collect necessary Medical team in the hospital.
- iv. Inform CMD about movement of ARMV.
- v. Alert blood donors, SJAB.
- vi. Bare minimum medical team should remain in the hospital; rest of the doctors should be rushed to the accident site.
- vii. Arrange to move Emergency First Aid boxes from ARME Scale-II locations to the accident site.

7.1.3 Intimation of Accident – HQ & Central Control Office

- i. In HQ Central Control Office also, the accident bell in control room should be sounded for alerting all on-duty functionaries.
- ii. After they gather around the Dy.CHC they will be briefly informed about the accident.
- iii. Each functionary will thereafter resume his position and take steps to set motion activities required of him.
- iv. Each departmental functionary will inform HQ Officers about the accident in the following manner–

☛ Dy.CHC(Chg)	-	GM(General Administration), CMD
☛ DyCHC(Freight)	-	Operating & Safety.
☛ TPC	-	Electrical Officers.
☛ DPC	-	Mechanical Officers.
☛ Engg. Control	-	Engg., Accounts, Personnel Officers.
☛ S&T Control	-	S&T, Stores Officers.
☛ Commercial Control	-	Commercial, Public Relations.
☛ Security Control	-	RPF Officers.
- v. For this purpose, all functionaries working in the Central control office will have a ready list of telephone numbers (Railway, BSNL and Mobile) of all officers and supervisors of their departments concerned.
- vi. GM will inform CRB regarding the accident.
- vii. PHODs will inform their respective Board Members. In case PHOD is not available in HQ, then the next Senior Most Officer of that department will inform his Board Member.
- viii. CSO/Dy.CSO/SSO(S&T) will inform CRS and nodal Officer of Safety Directorate of Rly. Board.
- ix. Dy.CHC(Chg.) will thereafter inform Divisional Control Office regarding running out of 1st Special train to the accident site carrying GM and other HQ Officers.
- x. Functionaries of different departments will also inform their respective departmental officers regarding timing of 1st Special train carrying GM and other HQ. Officers to the accident site.
- xi. In case the accident site is far off and going by air would be faster, then either helicopters or special Air Force planes may be organized from the nearby IAF Base by Secy. to GM.

7.1.4 Informing Non – Railway Officials

- i. **CHC** shall inform District Magistrate, Supdt. of Police and CDMOs of the district within which the accident site falls regarding the accident.
- ii. **DGM/ADRM** shall inform the following regarding the accident :

☛ IG/GRP.
☛ ADG/GRP.
☛ District Commissioner/District Magistrate.
☛ Home Secretary of the state.
- iii. In case POL rake is involved, then IOC/BPC/HPCL officials should also be informed.
- iv. In case Mail bags of RMS are involved, then Postal officials should also be informed.
- v. Telephone numbers of all DMs, SPs, CDMOs and District Commissioners are available in Zonal/Divisional DM Plans.
- vi. Telephone numbers of IOC, BPC and HPCL officials are also available in the Zonal/Divisional DM Plans.
- vii. Telephone numbers of ADG/GRP, IG/GRP, Home Secretary etc. of Orissa, AP and Chattisgarh are given in **Annexure 16 to 20**.

7.1.5 Divisional Officers required to go to site

- i. DRMs/ADRM, MS with his team of doctors and paramedical staffs, Branch Officers – Sr.DME/DME, Sr.DSO/DSO, Sr.DCM/DCM, Sr.DSC/DSC, Sr.DEE(G), Sr.DEN(Co-ord), Sr.DEE(TRD) – should move with ARME while AME and other sectional officers of concerned department will move with ART.
- ii. Road vehicles should be sent to accident site separately. Maximum number of road vehicles should be sent to accident site from Divisional HQ.
- iii. ARMV /SPARMV shall be dispatched **within 15 minutes** by day where there is double exit siding and **within 25 minutes in case of single exit siding** with the first available locomotive (Power/Engine) after sounding of Hooter. Train ordering officials will order the movement of ARME with out delay.
- iv. DRM will proceed to the accident site. ADRM shall stay back at Divisional HQ for co-ordination work.
- v. The Second Senior Most Officer of each branch should stay back at Divisional HQ.
- vi. Once it has become clear that the accident is a Disaster, DRM/ADRM will decide the no of officers required to proceed to the accident site. Similarly, individual branch officer will decide the no of supervisors and staff required at the accident site.
- vii. The Complement of Officers available in each department varies from division to division. Hence, Divisional DM Plans should specifically spell out, department wise, designations of officers who will be required to go to site, and those who will be required to stay back in HQ.
- viii. Divisional DM plans should also spell out the same thing for Supervisors of each department.
- ix. Arrangements of Road Vehicles to proceed to accident site, indicating alternative vehicles as well, shall be indicated in Divisional DM Plans. Arrangements of vehicle, Loco Pilots including spare Loco Pilots shall also be notified.

7.1.6 HQ Officers required to go to site

- i. The following HQ Officers as detailed at (iv) below will proceed to accident site by the first special train, which will be carrying GM.
- ii. This special train shall be arranged by KUR Divisional Control Office, in consultation with HQ Central Control. Scheduled departure time will be informed to HQ Officers by their departmental functionaries in HQ Central Control.
- iii. GM will proceed to the accident site. COM shall stay back at zonal HQ for co-ordination work.
- iv. Department wise, designation of officers who are required to go to site, and those who will require to stay back in HQ shall be decided by **PHOD/CHOD**.

7.1.7. Supervisors required to go to Accident Site:-

- (i) At the Divisional level 80% of all supervisors available in divisional HQtr: should proceed to the accident site.
- (ii) All other supervisors available in the field at other stations should also proceed to the accident site.
- (iii) Divisional Contral Office should issue a recorded control message from DRMto all Supervisors for proceeding to the accident site immeidiately by fastest possible means.

7.2 OPERATING DEPARTMENT

Duties of the Operating Department in HQ are given in **Chapter 11**, under the heading “Disaster Response – Co-ordination Centers”.

7.3 SAFETY DEPARTMENT

CSO will proceed to accident site along with all other officers and supervisors of the Safety Organization. Duties of Safety Organization at accident site has been listed out in **11.2.5**, under the heading “**Site Management Plan-I**”.

7.4 PUBLIC RELATIONS

Duties of the Public Relations Department are given in **Chapter 14.2** under the head of “Media Management Plan”.

7.5 MEDICAL DEPARTMENT

7.5.1 Formation of two teams

- i. On receipt of information regarding the accident where casualties are expected, the doctor on emergency duty in the hospital casualty would inform all other doctors and para-medical staff concerned.
- ii. Two teams of Doctors and Para Medical Staff nominated by CMS/MS would be formed, **Team ‘A’** and **Team ‘B’**.
- iii. **Team ‘A’** – Headed by CMS/MS in-charge will rush to the accident site immediately by ARMV along with nominated doctors and nominated paramedics.
- iv. **Team ‘B’** – Headed by the senior most doctors amongst them will stay back at the divisional hospital and perform duties as given below.
- v. In case the accident site is far away from divisional HQ, then injured passengers are unlikely to be brought back to the divisional hospital for treatment. In that case, only bare minimum number of doctors should be left behind for manning Team ‘B’ and most of the available doctors should be rushed to accident site as part of Team ‘A’.

7.5.2 Duties of Team ‘A’

These are listed in detail in **Chapter 11.2.6**, under the heading “**Site Management Plan-II**”.

7.5.3 Duties of Team ‘B’

- i. Team ‘B’ will establish an Emergency Cell in the Casualty Unit of Railway Hospital.
- ii. Contact adjoining divisions and organize movement of 2 more ARMVs to accident site, one from each end, as detailed in **Chapter-3, Section (3.3.2)**.
- iii. Contact local hospitals (Railway/Govt./Private) near the accident site to and ask them to rush their road ambulances along with necessary medical teams to the accident site immediately.
- iv. Contact local hospitals (Railway/Govt./Private) near the accident site to keep them selves in readiness to receive and provide medical treatment to injured passengers.
- v. Data Bank of medical facilities along the track is available section wise for each division in Divisional DM Plans. Copy of Divisional DM Plans should be available in the Hospital Emergency of Railway Hospital.
- vi. The above Data Bank is also available in the ECoR Web site on Railnet at www.ecor.railnet.gov.in. Details of name, address, telephone no., facilities available etc. can be collected from this.
- vii. Arrange to send the following in the 2nd and 3rd Special trains carrying backup logistic support to the accident site, from each end:
 - ☛ As many more medical teams as possible.

- ☞ Adequate number of Safaiwalas other health workers,
- ☞ Members of St. John Ambulance, Scouts and Civil Defence personnel.
- viii. Co-ordinate with MS/CMD of adjoining Divisions/Zones and ask them to send their medical teams to the accident site.
- ix. These medical teams should be sent to the accident site by train/road or combination of train-cum-road, as feasible. In case suitable Railway vehicles are not available, taxis should be hired for this purpose.
- x. Adequate number of following items should be arranged and sent to accident site for the purpose of handling dead bodies :
 - ☞ Shrouds
 - ☞ Polythene covers for dead bodies
 - ☞ Wooden Coffins
 - ☞ Dry ice
- xi. One doctor will be available in Divisional Emergency Cell for maintaining liaison with UCC and the medical team at the accident site. Requirement of medicines required either at the accident site, or in various hospitals where patients have been admitted should be noted, procured and sent as required.
- xii. Prepare Railway Hospital to receive and provide treatment to injured passengers, as and when they are brought back from accident site.
 Arrange to send anti snake venom 4 vials and other items in cold chain carrier.

7.6 DUTIES OF COMMERCIAL DEPARTMENT

CCM along with such officer as decided by him from HQ will proceed to accident site.

- i. Sr.DCM should proceed to site of accident along with other Commercial Officers except DCM. DCM will be available in Divisional Control Office for providing backup support.
- ii. A nominated supervisor should be authorized for withdrawing sufficient money from station earnings before proceeding to site.

7.6.1 Transportation of men and material to accident site

- i. Wherever required sufficient numbers of TTEs/TCs with porters should be sent from the nearest available locations for assisting in transportation of passenger's luggage and rendering other assistance. The commercial officer available at the Divisional HQ (DCM/ACM) should ensure this apart from ensuring the attendance of Commercial Inspector at site.
- ii. Commercial Dept should inform the IRCTC for arranging food packets, drinking water etc to stranded passengers wherever required and monitor the supply of the same.
- iii. Commercial Supervisor at site should arrange for food packets and drinking water etc., till supply of IRCTC reaches site.

7.6.2 Help line Enquiry Booths at Stations -

a. General

- i. The emergency telephone no. **1072** will be manned round-the-clock by commercial department. All Help line Enquiry Booths shall have a separate DOT telephones with STD, Railway telephones with STD, fax machine, photocopier and a PC with internet connection and the necessary infrastructure will be arranged by S&T Dept.

- ii. Help line Enquiry Booths within ECoR would be opened as below:
 - ☞ Originating and destination stations of the accident involved train.
 - ☞ All junction stations within the jurisdiction of ECoR falling on the route of the train.
 - ☞ Divisional HQ.
 - ☞ Zonal HQ.
 - ☞ Any other station as may be decided.
- iii. On ECoR, Help line Enquiry Booths would normally be required to be opened at following stations, depending on the route of the accident involved train :
 - ☞ Bhubaneswar ☞ Khurda Road ☞ Puri ☞ Cuttack ☞ Brahmapur
 - ☞ Visakhapatnam ☞ Sambalpur ☞ Rayagada ☞ Koraput ☞ Mahasamund
- iv. Help line Enquiry Booths on other Zonal Railways would also be opened as follows:
 - ☞ Originating and destination stations of the accident involved train.
 - ☞ All junction stations falling on the route of the train.
 - ☞ Divisional HQ of originating and terminating divisions.
 - ☞ Zonal HQ of originating and terminating Zonal Railways.
 - ☞ Any other station as may be decided.
- v. Help line Enquiry Booths would be manned by computer literate Sr. supervisors on round the clock basis.
- vi. Help line Enquiry Booths within the accident affected division, should keep in touch with the Divisional Emergency Cell.
- vii. Divisional Emergency Cell will collect updated information regarding all aspects of the accident from the UCC and pass on the same to:
 - ☞ All Help line Enquiry Booths within the Division.
 - ☞ Emergency Cells of other Divisions of ECoR.
 - ☞ HQ Emergency Cell.
- viii. Such information should be received from UCC by E-Mail and transmitted by E-Mail to all concerned. For this purpose all Help line Enquiry Booths should be provided with PCs with Internet connection. E-Mail addresses of Help line Enquiry Booths will be intimated.
- ix. Similarly, Help line Enquiry Booths outside the accident affected division, but within ECoR jurisdiction should keep in touch with Divisional Emergency Cell of their respective divisions.

b. Accident details to include

- ☞ Number of dead and injured.
- ☞ Break up of type of injuries, such as grievous, simple etc.
- ☞ Disposal of injured passengers in various hospitals.
- ☞ Names of injured passengers.
- ☞ Officials in charge of Help line Enquiry Booths would display the list of injured passengers on the notice board. For this purpose Computer printout of E-Mail received should be taken out and displayed at number of places at the station.
- ☞ Identification of dead bodies. Reasons for delay should be explained to the public.
- ☞ Number of dead bodies identified and their names should be available.

This information would continue to be updated once in every 3 hrs. and would continue to be accessed for the next 4 to 5 days.

7.6.3 Liability of the Railway for compensation

i. Refunds

- a. Booking counters at stations should be augmented for granting of refund to large number of passengers who have been unable to either complete or commence their journey as a result of the accident.
- b. Refund of money should be granted for trains as per extant rule :
 - ☞ Delayed
 - ☞ Rescheduled
 - ☞ Regulated
 - ☞ Short terminated
 - ☞ Diverted
 - ☞ Cancelled
- c. Staff manning Refund counters should be thoroughly familiar with rules for granting of refunds under such circumstances.
- d. Sufficient amount of cash should be available at these Refund counters for this purpose.

ii. Compensation

The Railways are liable to pay compensation for death/injury of a passenger in train accident as defined under Section 124 of the Railway Act, 1989. Similarly the Railways are also liable to pay compensation for death/injury to a passenger and platform ticket holder in untoward incidents as defined under section 124-A of the Act, such as terrorist attack, violent attack, robbery, dacoity, rioting, shoot out or arson by any person in train or within the precincts of a Railway station or accidental falling of a passenger from train.

The procedure for getting ex-gratia, interim relief and compensation for death/injury of a passenger in train accident/untoward incident is as under –

a. Ex-gratia

Ex-gratia relief is given by the Railway administration soon after an accident normally at the rate of:

- ☞ Rs. 50,000/- in the case of death;
- ☞ Rs. 25,000/- in the case of grievous injury; and
- ☞ Rs. 5000/- for simply injury.

Payment is sanctioned and arranged after such enquiries as can be reasonably made on the spot by a Senior Scale or Higher Officer nominated by GM. If the ex-gratia has not been paid to the victim at accident site, the claimant should approach the Chief Claims Officers of concerned Railway.

The ex-gratia is intended to meet the immediate expenses of the victims/and is not taken into account at the time of final settlement of compensation claims.

b. Death/Injury Compensation

Claims for compensation for death/injury of a passenger in train accident or untoward incident are decided by Railway Claims Tribunal having jurisdiction over the site of accident.

The Tribunals having jurisdiction over East Coast Railway with their addresses are as follows -

S n	Tribunal	Address	Jurisdiction
1	RCT / Bhubaneswar	Orrisa Forest Development, Corporation Bldg. (2nd Floor), A-84, Kharvela Nagar, Bhubaneswar – 751 001. Fax No.0674 – 2530140 , office- 2534835	State of Orissa

		Asstt.Register-801801190	
2	RCT / Secunderabad	South Lallaguda, Secunderabad – 500017 Fax – 040 – 7830355 / 7004355 Asstt.Register- 8008404904	State of Andhra Pradesh
3	RCT / Bhopal	Old Rly. Hospital Bldg., E. Rly Colony Sikandry Sarai, Bhopal. Fax No.0755-2574615. Member Tech-2574725. Asstt Register-9752417804	State of Chattisgarh

c. Who can claim

An application for compensation under section 124 or 124-A may be made to the Claims Tribunal –

- ☞ By the person who has sustained the injury or suffered any loss, or
- ☞ By any representative duly authorized by such person on his behalf, or
- ☞ Where such person is a minor, by his guardian, or
- ☞ Where death has resulted from the accident/untoward incident, by any dependant of the deceased or where such a dependent is a minor, by his guardian.

Every application by a dependant for compensation under this section shall be for the benefit of every other dependant.

d. Procedure for filing application

- ☞ The claimant or his agent or his duly authorized legal practitioner should present the application in “ **Form II** ” *in triplicate* to the Registrar of the Tribunal having jurisdiction over the place of accident/untoward incident. The application can also be sent by registered post to the Registrar of the Bench concerned.
- ☞ Where the number of respondents is more than one, as many extra copies of the application as there respondents, together with unused file size envelopes, bearing the full address of such respondents, shall be furnished by the applicant.
- ☞ The applicant may attach to and present with his application a receipt slip in Form IV which shall be signed by the officer of the Registrar receiving the application on behalf of the Registrar in acknowledgement.
- ☞ Every application including any miscellaneous application, shall be typed legibly in double space on one side on thick paper of good quality.

e. Particulars required for filing claims in Railway Claims Tribunal

- ☞ Name and father's name of the person injured/dead (husband's name in the case of married woman or widow).
- ☞ Full address of the injured/dead.
- ☞ Age of the person injured/dead.
- ☞ Occupation of the person injured/dead.
- ☞ Name and address of the employer of the deceased, if any.
- ☞ Brief particulars of the accident indicating the date and place of accident and the name of the train involved.
- ☞ Class of travel, and ticket/pass number, to the extent known.
- ☞ Nature of injuries sustained along with medical certificate.
- ☞ Name and address of the Medical Officer/Practitioner, if any, who attended on the injured/dead and period of treatment.

- ☞ Disability for work if any caused.
- ☞ Details of the loss of any luggage on account of the accident.
- ☞ Has any claim been lodged with any other authority? if so, particulars thereof.
- ☞ Name and permanent address of the applicant.
- ☞ Local address of the applicant, if any.
- ☞ Relationship with the deceased injured.
- ☞ Amount of compensation claimed.
- ☞ Where the application is not made one year of the occurrence of the accident, the grounds thereof.
- ☞ Any other information or documentary evidence that may be necessary or helpful in the disposal of the claim.
- ☞ One helpline for compensation may be opened.

HQ Emergency Cell will collect updated information regarding all aspects of the accident from the UCC and pass on the same to:

- ☞ Emergency Cells opened on other divisions of ECoR.
- ☞ Emergency Cells opened on originating and terminating Zonal Railways.
- ☞ Safety Directorate's Emergency Cell in Railway Board.
- ☞ Help line Enquiry Booths should not contact the accident site or the UCC directly.

7.7 DUTIES OF MECHANICAL DEPARTMENT

- I. CME and such other officers as decided by CME from HQ will proceed to accident site.
- II. Similarly, Sr.DME as well as AME should proceed to site of accident. DME will be available in Divisional Control Office for providing backup support.
- III. Break Down Spl. Without Crane should be requisitioned from adjoining divisions also so that additional rescue equipment such as cutters, spreaders, hydraulic jacks, generators, lighting equipment etc. could be available for rescue operation.
- IV. The aim should be to ensure one ART with 140T crane along with one Break Down Spl at each end of the accident site.
- V. Provision should be made for availability of standby crane Loco Pilot on each ART working at site, so that ARTs can work round the clock.
- VI. Road cranes of sufficient capacity should be arranged so that these cranes can start working from the center while the 140T cranes can continue working from either end.
- VII. Trucks should be arranged for carrying Break Down equipment near to accident involved coaches, so that the site of accident can be approached from the middle, and more work centers can be opened up simultaneously.
- VIII. Sr.DME shall order for Crane in consultation with CME/CMPE.

7.8 DUTIES OF SECURITY DEPARTMENT

- I. CSC/RPF will proceed to accident site on receiving information from security control. CSC/RPF will assume control and take necessary steps for discharging duties allotted to Security department.
- II. Similarly, Sr.DSC will proceed to the site by ARMV along with a maximum number of RPF personnel. Only one officer will stay back at Divisional HQ.

7.8.1 Rushing of men and material to site

- ☞ On receipt of first information the nearest RPF Post should muster maximum available manpower within the shortest possible time and despatch them to the scene of accident, by fastest available means.

- ☞ Simultaneously, the Post/Outpost in charge would requisition additional manpower from adjoining RPF Posts.
- ☞ He should also pass on the information to Local Police and Police Control Room, Local Fire Brigade, hospitals, Local voluntary organizations and the like organizations at the earliest.
- ☞ Divisional Security Control shall get reinforcement from neighboring posts/outposts, reserve line, divisional HQ or zonal reserve and send them by the ART. If they could not be sent by the ART then they should definitely be sent by the 2nd and 3rd Special trains carrying backup logistic support to the accident site, from each end.
- ☞ In case any RPSF Battalion or Company is located in the vicinity, men can be requisitioned from there for dealing with such emergent situations till additional force is available from other sources.
- ☞ Additional RPF personnel from Zonal HQ should be sent to accident site.
- ☞ Additional RPF personnel available throughout the Division should be alerted and sent to the accident site by the 2nd and 3rd special trains carrying backup logistic support of men and material, from each end.
- ☞ While sending reinforcement, the Divisional Security Control shall ensure that the necessary equipment required for rescue, recovery and protection of the scene of incident are provided as follows:
 - ☒ Torches (1 per person) and other lighting arrangements.
 - ☒ Nylon ropes (1 kms) and poles for segregating the affected area.
 - ☒ 4 loud speakers for making announcements.
 - ☒ 10 stretchers and first aid equipment.
 - ☒ 10 wireless sets for inter-communication.
 - ☒ Digital Camera for photographing the scene (both on negative and slide films) **Video recording of rescue and**
 - ☒ **Salvage operations** and connected administrative arrangements.

7.8.2 Co-ordination with Local Police

Maintain constant liaison with IG/GRP and ADG/GRP for following :

- ☞ Rushing all available GRP personnel to the accident site.
- ☞ Obtaining additional manpower from the local police for purpose of crowd control.
- ☞ Issue of necessary instructions to local police for giving expeditious clearance for starting restoration work.
- ☞ Issue of necessary instructions to SP of the district for waiving off formalities of Post Mortem on dead bodies.

7.9 DUTIES OF ELECTRICAL DEPARTMENT

- I. CEE and such officers as decided by CEE from HQ will proceed to accident site.
- II. Similarly, Sr.DEE(G)/DEE(G) should proceed to accident site and AEE(G) should man the Divisional Control Office for providing backup support. In absence of AEE(G) Senior Most Section Engineer(G) should man the Control Office.
- III. Sr.DEE/TRD as well as AEE/TRD proceed to site of accident. DEE/TRD or AEE/TRD will be available in Divisional Control Office for providing backup support.
- IV. Similarly, Sr.DEE(OP) should proceed to site of accident and DEE(OP)/AEE(OP) will be available in Divisional Control office for providing back up support.
- V. Main responsibility of Electrical Department will be regarding site illumination with portable generator sets, portable inflatable tower lights, disconnection and slewing of OHE. In case of scarcity of generator sets the same may be hired from nearby village or town.

- VI. Maximum number of electrical staff should be sent by 2nd and 3rd Special trains for installation and operation of electrical equipment.
- VII. Officers staying back in divisional HQ Shall maintain constant liaison with site and find out quantum of assistance required by way of men and material.
- VIII. These should be rushed to accident site either from :
 - a. Railway sources within the division, or
 - b. Railway sources from adjoining divisions and zones, or
 - c. Non-Railway sources within the division and adjacent to Divisions.
- IX. Site illumination through Generator sets of ART / ARME / SPART / SPARMV by Halogen lamps.
- X. In case of scarcity of Generator sets, Generator sets to be hired from nearby village/Town and fuels to be arranged from outside.
- XI. Illumination through inflated tower lights.
- XII. Temporary illumination through availing LT Power Supply from nearby licensee if practically possible.

7.10 DUTIES OF SIGNAL & TELECOMMUNICATION DEPARTMENT

- I. CSTE and in his absence CSE/CCE from HQ will proceed to accident site in HOD's special.
- II. Similarly, Sr.DSTE as well as ASTEs should proceed to site of accident. DSTE will be available in Divisional Control Office for providing backup support.
- III. Main responsibility of S&T Department will be for providing effective and adequate means of communication.
- IV. Provision of portable telephone to be connected directly to Sectional Control through emergency socket.
- V. Provision of auto telephone of nearest Rly exchange through DM pairs at emergency socket.
- VI. Provision of communication through satellite telephone.
- VII. BSNL telephones to be provided.

Rushing of men and material to site

- I. Sr.DSTE along with ASTE will carry the following to the accident site:
 - II. Satellite phone,
 - III. FAX cum printer,
 - IV. Two 25W VHF sets along with antenna and battery,
 - V. 10 numbers 5W walkie-talkie sets.
 - VI. He will be accompanied with at least one TCI and two TCM/WTM.
- VII. 2 more **TCI (SE/JE-Tele) /TCM, SIS (SE/JE-Signal)** of the section and maximum number of telecom staff should be sent for installation and operation of telecom equipment. They should go to the site of accident either by ART or latest by 2nd and 3rd Special trains carrying backup logistic support to the accident site, from each end.
- VIII. Satellite phones of HQ and nearest division and one FAX machine will be carried in GM special by at least one TCI and one TCM/WTM.
- IX. All mobile phones available with the Division should also be rushed to site for emergency use.
- X. Sufficient number of spare batteries and battery charges for these mobiles should also be taken to accident site.

Arranging communication at site

- ☞ DSTE in the division will immediately come to divisional control office and ensure setting up of all communication arrangements as required.
- ☞ DSTE will keep a record of the numbers of Railway telephones, BSNL telephones, IMMERSAT phones provided at site and telephones provided at Help line Enquiry Booths. This information shall be passed on to the Divisional Emergency Cell.
- ☞ He should liaison with BSNL officials in the area for immediate provision of additional BSNL telephone/hot lines at the accident spot, nearest station and at Help line Enquiry Booths duly utilizing assets under his disposal where required.
- ☞ Map of the division showing areas where cell phone connectivity is operative is available in Divisional DM Plans.
- ☞ Should procure along with connecting a minimum of 06 nos cell phones for each division and send them to accident site.
- ☞ Obtain E-Mail addresses of Emergency Cells set up on other Divisional and Zonal HQ

Communication at HQ And Divisional Emergency Cells

- ☞ Communication arrangements are required to be provided at ECoR HQ Emergency Cell immediately permanently.
- ☞ 02 BSNL Telephones having ISD/STD facility are already available in the HQ Central Control. Dynamic locking code of the telephone is available with CHC/Emergency. FAX machine is also provided on 01 BSNL telephone in the Emergency control.
- ☞ Apart from this telephone, 04 other BSNL telephone numbers (02 with STD facilities) should be made available in HQ Emergency Cell for use by Chief Emergency Officer.
- ☞ One FAX machine shall be provided on one BSNL telephone.
- ☞ 02 Railway telephone numbers with STD facilities should also be made available.
- ☞ 02 Mobile telephones should also be made available in HQ Emergency Cell.
- ☞ Similar Communication arrangements should also be provided in the Divisional Emergency Cell.
- ☞ 03 (three) Laptop or Tablets with dongle may be kept in operation for communication & interaction.

Communication at Help line Enquiry Booths

- ☞ Help line Enquiry Booths are to be opened at all important stations enroute of the affected train as mentioned at Section (7.6.2- iii) above.
- ☞ Location of these Help line Enquiry Booths will be on Platform No.1 of their respective stations.
- ☞ 02 BSNL phones should be identified and kept pre-wired to the Help line Enquiry Booths so that these can be energized at short notice.
- ☞ Similarly, 02 Railway phones should be identified and kept pre-wired to the Help line Enquiry Booths so that these can be energized at short notice.
- ☞ One FAX machine, Photocopier and PC with Internet connection and printer should also be provided at Help line Enquiry Booths. These should also be kept pre-wired so that these can be energized at short notice.
- ☞ E-Mail address of PCs to be provided should be intimated to all concerned. PCs should be configured with these E-Mail addresses as given at Annexure- 34
- ☞ Stations at which such arrangements are to be made and telephones which are to be utilized should be identified by Sr.DSTE with approval of DRM.

DUTIES OF ENGINEERING DEPARTMENT

Rushing men and material to accident site

- ☞ PCE along with PHOD will proceed to accident site by the special train.
- ☞ Sr.DEN(Co-Ord) and Sr.DEN/DEN concerned will proceed to the site of accident by self propelled ARMV/ART. In the absence of Sr.DEN(Co-Ord), the next senior most

Sr.DEN of the Division will proceed along with the concerned Sr.DEN/DEN. In the absence of Sr.DEN/DEN of the Section, Sr.DEN/DEN of the adjoining Section will proceed by ARMV or self propelled ARMV.

- ☞ It is expected that AEN and SE(P.Way) of the Section would have already reached the accident site before arrival of ARMV/ART. In cases, where the SE(P.Way) and AEN are based at Divisional HQ, they should move along with staff by ART. At least, two SSE/Works and one SSE/Bridge should move along with their staff by the ART.

Mobilization of work force

- ☞ Sr.DEN(Co-ord) with consultation with Section Sr.DEN/DEN will mobilize required no of workman and supervisors as per information received from the site of accident regarding extent of damage to track and other P.Way and Bridge. Earth moving equipments should also be requisitioned as per requirement.
- ☞ ½ km of rails, sleepers and fittings and one set of 1 in 12 and 1 in 8 ½ turnouts are available in the ART. The Mechanical and Operating Departments will ensure that part 'C' of ART (consisting of additional Engineering Material Wagons) shall follow the ART. The additional half km of matching materials and one set of 1 in 8 ½ and 1 in 12 turnouts shall be kept in the Track Depot of the Division. For loading of this material, 2 BFRs and 2 BCN wagons should be immediately placed in the Track Depot. These materials should be loaded within 3 hours and dispatched to the site of accident. This will be ensured by the SSE(P.Way) Track Depot and Divisional Engineering Control.
- ☞ At least two nos. of JCBs available with the ballast depot contractor shall be immediately moved.
- ☞ Sr.DEN/DEN in Divisional Emergency Control will request concerned authority (Army/State Govt. Deptt.) for Bulldozer/Earthmoving machinery in the area.

DUTIES OF IT DEPARTMENT

- ☞ One separate room in HQ, named " Disaster Manangement Room", which will be used as Emergency Cell and should be provided with minimum 02 PCs.
- ☞ Both PCs should be connected to Rail net and the E-Mail addresses already configured into them should be activated.
- ☞ Similarly 2 PCs in divisional control office nominated for being used in Divisional Emergency Cell should also be shifted there.
- ☞ Both these PCs should be connected to Rail net and the E-Mail addresses already configured into them should be activated.
- ☞ PCs in various Help line Enquiry Booths at different stations should all be made functional connected to rail net and made ready for receiving and sending E-Mails.
- ☞ Following information should be uploaded on to ECoR's Website as quickly as possible:

i. List of injured and deceased passengers

- ☞ Names of stations where Help line Enquiry Booths have been opened along with their telephone numbers.
- ☞ Accident details would include, number of injured passengers rescued.
- ☞ Break up of type of injuries, such as grievous, simple etc.
- ☞ Disposal of injured passengers in various hospitals.
- ☞ Names of injured passengers – coach wise & possible destination.
- ☞ Number of dead bodies recovered– coach wise & possible destination.
- ☞ Number of dead bodies identified– coach wise & possible destination.
- ☞ Names of deceased passengers– coach wise & possible destination.

ii. Details of trains which have been diverted, regulated, short terminated, cancelled or re-scheduled.

(Chapter - 8)
DISASTER RESPONSE – CO-ORDINATION CENTRES

8.1 GUIDELINES FOR MOVEMENT OF ARMVs & ARTs TO ACCIDENT SITE INCLUDING SPARMV / SPART.

- 8.1.1** Movement of ARMV and ART should never be clubbed together. ARMV should be started first and moved separately for faster movement.
- 8.1.2** ARMVs and ARTs should be despatched from the base station, within the target time stipulated. Departure of ARMVs and ARTs should not be delayed on any account including arrival of doctors/officers. Anybody who is left behind can proceed later on either by GM special or by next special train or even by road.
- 8.1.3** ARMVs must be run out within the target time, even without full complement of doctors, if necessary. This will ensure that other doctors who are available at accident site can utilize facilities of ARMV after its arrival at site. During run discussion & decision to be taken initially for work distribution.
- 8.1.4** ARMVs and ARTs should be moved on top priority taking precedence over all other trains. They should not be stopped anywhere en-route for picking up any one.
- 8.1.5** Running lines of adjoining stations on either side of the accident affected block section should be kept clear of all trains for shunting of ART/ARMV and evacuation of affected portion of the train. In case there are any stabled loads, the same should be lifted, if possible.
- 8.1.6** Running of ARMVs and ARTs in accident site:-
- (i) After ARM Vs and ARTs have been ordered, DPC should locate diesel powers for these ARMVs and ARTs.
 - (ii) First available diesel powers should be nominated, even by temporarily detaching from a Mail/Express train on run, if necessary.
 - (iii) If diesel power is not readily available and OHE is functional up to the next junction station, then ARMVs and ARTs should be moved out by Electric loco and diesel powers can be changed en-route.
 - (iv) In case a diesel power is not available on the Division, then it should be requisitioned from adjoining divisions.

8.2 DIVERSION, REGULATION, SHORT TERMINATION, CANCELLATION AND RESCHEDULING OF MAIL / EXPRESS / PASSENGER TRAINS

- 8.2.1** The moment information is received about the accident, all Mail/Express trains on run towards the accident involved section should be stopped. They should not be advanced beyond the last Junction station or at major stations from where they can be diverted or suitably controlled/terminated.
- 8.2.2** They should be regulated at convenient stations before a decision is taken regarding their further movement. This decision should normally be taken within the next one hour.
- 8.2.3** Trains should preferably be regulated at stations where food can be arranged.
- 8.2.4** However, too many trains should not be simultaneously brought to a Jn. Station for regulation, since it may create law and order problems.
- 8.2.5** Passenger trains can be run out to the next convenient location and thereafter terminated so that their rakes are available for use.
- 8.2.6** HQ Emergency Cell shall decide on the following in consultation with adjoining Railways and Coaching Directorate of Railway Board :
- | | |
|---------------|------------------|
| ☛ Diversion, | ☛ Cancellation, |
| ☛ Regulation, | ☛ Re-scheduling. |

☞ Short termination,

- 8.2.7 The above decision regarding diversion etc. should be taken in about one hour time after ARMVs, ARTs & GM special have been run out and there is a slight lull in the information flow.
- 8.2.8 As far as possible, trains which are already on run should be diverted. They should not be short terminated, since this will create problem of dispersal of passengers.
- 8.2.9 Trains should be diverted from the last possible Jn. Station onwards so that maximum number of passengers can detrain at their proper destination stations.
- 8.2.10 Sr.DME/Sr.DEE(Op) would be in-charge of co-ordination with Operating department regarding requirement and availability of crew deployment.
- 8.2.11 Sr.DME/Sr.DEE(Op) will take into consideration changing traffic requirement because of diversions etc. and accordingly plan crew deployment.
- 8.2.12 Adjoining divisions should be informed about these diverted trains so that spare crews can be sent to interchange points.
- 8.2.13 For diverted trains, Loco Pilots and Guards having necessary road learning should be arranged.
- 8.2.14 Loco Pilots nominated for working these diverted trains should be empanelled for working Mail/Expresses as per Railway Board's instructions, if available on roster.
- 8.2.15 Crews should also be planned for diesel engines sent to the accident site working ARMVs, ARTs, other special trains and likely to be held up there for next 2-3 days.

8.3 Running of Special trains

Following special trains will be required to be run in the given order of Priority to the accident site:

03 Coach SP-ART/ARMV.

- i. Two SPART/ARMV from each end.
- ii. Two additional 3 Coach SP-ART/ARMVs from adjoining divisions, one from each end.

ARTs.

- i. ART from the both the ends.
- ii. Two additional BD Specials one from each end.
- iii. 1st special train carrying GM and other officers from HQ.
- iv. Unaffected front portion of the accident involved train in case the same can be moved subject to fitness given by Mechanical Department.
- v. Unaffected rear portion of the accident involved train in case the same can be moved subject to fitness given by Mechanical Department.
- vi. In case the front and rear portions cannot be moved, then they should be left as they are.
- vii. Two empty coaching rakes, one from either end for clearing unaffected passengers of the accident involved train for transshipment of passengers and luggage.
- viii. Special trains for accident site, one from each end, carrying logistic backup support, material and additional manpower from junction stations. These should normally be run out 1 – 2 hrs after arrival of ARMV carrying DRM and other divisional officers at the accident site.
- ix. Before these 2nd and 3rd special trains are run from each end, Railway staff at all stations en-route should be informed regarding running of these trains so that supervisory staff of all departments, from Jn. Stations can go to the accident site on these trains.
- x. Two Diesel light engines should be stationed, one at each station on either side of the accident involved block section to ferry the Electric Traction trains.

- xi. Two Engineering specials, one from each end, carrying engineering material and gang men from the section.
- xii. Running of 2 passenger specials for carrying relatives to the site of accident. These trains will be started from the originating and destination stations of the accident involved train and will be given same stoppages as the accident involved train for picking up relatives enroute. This is to be co-ordinate by HQ Emergency Cell in consultation with Railway Board.
- xiii. Arrangement for the visit of MR/MOSR, CRB and other Board Members to the accident site should be made in coordination with the Safety Directorate and Secretary, Railway Board.
- xiv. Tents to be pitched near the site for the labour to take rest.

8.4 Setting up Emergency Cells in Divisions

- i. Divisional Emergency Cell shall be opened immediately after receipt of information of the accident at Divisional Control Office.
- ii. This unit will exercise control, co-ordinate and arrange supplementary assistance to the accident site.
- iii. It shall function in a separate cubicle at Divisional Control Office provided with centralized communication networks, hot line to the site and HQ
- iv. Sr. DOM will be over all in charge of the Divisional Emergency Cell and will function as the Divisional Emergency Officer for the purpose of managing relief and restoration operations from Divisional level.
- v. In case Sr. DOM is not available, DOM will be the Divisional Emergency Officer.
- vi. In case both officers are not available, any other officer nominated by DRM will take over charge.
- vii. Requirements of all departments for movement of men and materials to the accident site shall be conveyed to the Divisional Emergency Officer, who shall arrange their movement.
- viii. Timings of 2nd and 3rd special trains to be moved from each end to the accident site, carrying backup logistic support will be conveyed to all concerned beforehand.
- ix. Divisional Emergency Cell will maintain:
 - ☞ Telephone and FAX numbers of the accident site. These should be maintained functionary wise for each functionary available in the UCC.
 - ☞ Similarly telephone and FAX numbers of functionaries available in CAC should also be available with the Divisional Emergency Cell.
 - ☞ Telephone and FAX numbers of Help line Enquiry Booths that would have been set up at various stations on the division.
 - ☞ E-Mail addresses of UCC, Help line Enquiry Booths and HQ Emergency Cell. E-Mail addresses of some of them are given in Annexure- 34
 - ☞ Names and phone numbers of hospitals where injured have been admitted/shifted, along with number of patients.
- x. Divisional Emergency Cell will collect updated information regarding all aspects of the accident and pass on the same either telephonically or by E-Mail to:
 - ☞ All Help line Enquiry Booths within the division.
 - ☞ HQ Emergency Cell.

Divisional Emergency Officer on duty shall chronologically record all information and instructions received or given in a logbook.

8.5 Setting up Emergency Cell in HQ

- i. HQ Emergency Cell shall be opened immediately after receipt of information of the accident at HQ Office.
 - ii. This unit will exercise control, co-ordinate and arrange supplementary assistance to the accident site.
 - iii. It shall function from a separate room in ECoR HQ Office “ Disaster Manangement Room”, provided with centralized communication network, hot line to UCC and Divisional Emergency Cell.
 - iv. In the absence of COM, CPTM (in his absence CFTM) will be over all in charge of the HQ. Emergency Cell and will function as Chief Emergency Officer for the purpose of managing relief and restoration operations from HQ Level.
 - v. Requirements of all departments for movement of men and materials to the accident site from adjoining zones and divisions shall be conveyed to the Chief Emergency Officer, who shall arrange their movement.
 - vi. HQ Emergency Cell will maintain:
 - ☞ Telephone and FAX numbers of the accident site. These should be maintained functionary wise for each functionary available in the UCC.
 - ☞ Similarly telephone and FAX numbers of functionaries available in CAC should also be available with the divisional emergency cell.
 - ☞ Telephone and FAX numbers of Help line Enquiry Booths that would have been set up at various stations on adjoining zones.
 - ☞ E-Mail addresses of UCC, CAC, Help line Enquiry Booths and Divisional Emergency Cells set up on other Divisions of ECOR.
 - ☞ E-Mail addresses of Emergency Cells opened on train origination terminating Divisions & Zones and Safety Directorate Emergency Cell in Railway Board.
 - ☞ Names and phone numbers of hospitals where injured have been admitted/shifted along with number of patients.
 - vii. HQ Emergency Cell will collect updated information regarding all aspects of the accident and pass on the same either telephonically or by E-Mail to:
 - ☞ Emergency Cells opened on other Divisions of ECOR
 - ☞ Emergency Cells opened on originating and terminating Zonal Railways
 - ☞ Safety Directorate’s Emergency Cell in Railway Board
 - viii. HQ Emergency Cell will monitor movement of ARMVs/ARTs etc. coming from adjoining Zones/divisions.
 - ix. Assistance from Defence, Para military establishments, State Govts. Should be coordinated by HQ Emergency Cell as and when required. Officials to be contacted and their telephone numbers are indicated in Annexure -5-21.
 - x. Chief Emergency Officer on duty shall chronologically record all information and instructions received or given in a logbook.
 - xi. SDGM/CPRO shall monitor various important media channels to keep track of media reporting, Suitable corrections/clarifications may also be issued, if required.
- 8.6 Manning of Divisional/HQ Emergency Cell in shift duty**
- i. Divisional/HQ Emergency Cell shall be manned round the clock by officers.
 - ii. In addition to officers of the Operating Department, there will be officers of Engineering, Mechanical, S&T, Electrical, Commercial, Medical, Security and Personnel departments in the Divisional/HQ Emergency Cell round the clock.
 - iii. Divisional Emergency Cell will be manned by Senior Scale/Junior Scale officers of all departments in 12 hrs shift duties round the clock.
 - iv. Similarly, HQ Emergency Cell will be manned by JA Grade. Senior Scale Officers of all departments in 12 hrs shift duties round the clock.

- v. Senior most officer of each department who is available in the division/HQ Shall be on duty in the Divisional/HQ Emergency Cell during the day shift (8 hrs. to 20 hrs.).
- vi. Senior most officer of each department shall issue a 12 hrs. roster for his own department for the night shift (20 hrs. to 8 hrs.).
- vii. Round the clock roster of 12 hr. shift duty should cover both Officers and supervisors.
- viii. Same officers and supervisors should be repeated each day without any change or rotation, for the next 4-5 days. This will maintain continuity and will ensure that experience gained on the first day can be gainfully used on subsequent days.

8.7 Liaison with Railway Board

HQ Emergency Cell will maintain constant liaison with Safety Directorate's Emergency Cell in Railway Board regarding following activities:

- i. Movement of additional ARMVs and ARTs from adjoining zones.
- ii. Movement of additional diesel powers from adjoining zones.
- iii. Diversion, Regulation, Short termination, Cancellation and Rescheduling of Mail/Express trains.
- iv. Arrangement of men and material as required from adjoining zones and their expeditious movement.
- v. Opening of Help line Enquiry Booths on other Zonal Railways as follows:
 - ☞ Originating and destination stations of the accident involved train.
 - ☞ All junction stations falling on the route of the train.
 - ☞ Divisional HQ Of originating and terminating divisions.
 - ☞ Zonal HQ Of originating and terminating Zonal Railways.
 - ☞ Any other station as may be decided.
- vi. Movement program for visit of MR/MOSR, CRB and other Board Members to the accident site.
- vii. Assistance required from Defence, Para Military organizations, State Govts. Should be conveyed to Railway Board who shall coordinate the same.
- viii. 3 hourly progress report on the rescue and relief work shall be communicated to Safety Directorate's Emergency Cell in Railway Board.

8.8 Duties of Additional Divisional Railway Manager

- i. Undertake making of announcements over local TV channel and Cable network.
- ii. Ensure that functionaries of different departments in Divisional Emergency Cell carry out duties assigned to them as per Zonal DM plan.
- iii. Monitor movement of assistance from other divisions/zones.
- iv. Co-ordinate with State Govt.
- v. Co-ordinate with Defense and Para Military authorities.
- vi. Monitor various important media channels to keep track of media reporting. Suitable corrections/clarifications may also be issued, if required.

(Chapter – 9)
DISASTER RESPONSE ASSISTANCE
FROM ADJOINING DIVISIONs / ZONEs / DMAs

9. Assistance from National Disaster Response Force (NDRF)

The Disaster Management Act, 2005 has made the statutory provisions for the constitution of the National Disaster Response Force (NDRF) for the purpose of specialized response to natural and man-made disasters.

According to Section 45 of the Act, the National Disaster Response Force has to function under the general superintendence, direction and control of the National Disaster Management Authority (NDMA) and under command and supervision of Director General, NDRF. Though the units of this Force were nominated in 2003, it is only after the establishment of NDMA that their training and equipping were vigorously pursued. NDRF is a specialist force and is gradually emerging as the most visible and vibrant multi-disciplinary, multi-skilled, high-tech force of the NDMA capable of dealing with all types of natural and man-made disasters.

Present Organization:-

At present, National Disaster Response Force (NDRF) consists of eight battalions, two each from the BSF, CRPF, CISF and ITBP. Each battalion will provide 18 self-contained specialist search and rescue teams of 45 personnel each including engineers, technicians, electricians, dog squads and medical/paramedics. The total strength of each battalion is approximately 1,149.

All the eight battalions are being equipped and trained to combat all natural disasters including four battalions in combating nuclear, biological and chemical disasters.

Raising of two more NDRF battalions at Patna (Bihar) and Guntur (Andhra Pradesh) has been approved by the Government and NDMA has initiated necessary action for the same.

Location of NDRF Battalions (Bn)

These NDRF Battalions are located at eight different locations in the country based on the vulnerability profile to cut down the response time for their deployment. During the preparedness period or in a threatening disaster situation, proactive deployment of these forces will be carried out by the NDMA in consultation with state authorities. The present location of NDRF Battalions are as follows:-

SN	NDRF (Bn)	State	CPF
1	NDRF Bn. Greater Noida	Uttar Pradesh	ITBP
2	NDRF Bn. Bhatinda	Punjab	ITBP
3	NDRF Bn. Kolkata	West Bengal	BSF
4	BDRF Bn, Guwahati	Assam	BSF
5	NDRF Bn, Mundali	Odisha	CISF
6	NDRF Bn, Arakkonam	Tamilnadu	CISF
7	NDRF Bn, Pune	Maharashtra	CRPF
8	NDRF Bn, Gandhinagar	Gujarat	CRPF

9	NDRF Bn, Patna (under-raising)	Bihar	BSF
10	NDRF Bn, Guntur (under-raising)	Andhra Pradesh	CRPF

NDRF has highly skilled rescue and relief operations, regular and intensive training and re-training familiarization exercises within the area of responsibility of respective NDRF Bns, carrying out mock drills and joint exercises with the various stakeholders.

NDRF is capable of handling disaster of earthquake, floods, building collapse, cyclones, tsunami, chemical & biological disaster, even landslide or complete washout of Rail line.

The key to efficient disaster response will depend primarily on effectiveness of training and raising of specialized Disaster Response Forces. With this vision a detailed “Training Regime for Disaster Response” has been prepared by NDMA/NDRF identifying the specific disaster response training courses and devising a unified, structured and uniform course module as well as syllabus for these training courses. The proposition behind a unified, structured, uniform course module and syllabus is that first the entire NDRF battalions will successfully attain these courses and subsequently the State Disaster Response Forces (SDRF) and other stakeholders will be trained on the same lines., the need of uniformly structured course module emerged out of the fact that if all the NDRF battalions and other ‘first responders’ undergo the same training exercise, the coordination between different stakeholders would be expedient and well planned at the time of any major disaster where different NDRF battalions, SDRF battalions and other stakeholders will be working together in close coordination with each other.

NDRF personnel are invariably trained in courses like Flood Rescue, collapsed Structure Search and Rescue, Medical First Responders, Rope Rescue, Nuclear, Biological, Chemical Emergencies, Dignified Disposal of Dead Bodies etc.

Training being one of the most important attributes for an efficient force, Government of India has recognized the recommendations of NDMA for setting up an apex National Institute of Excellence for Search and Rescue at a central place like Nagpur to provide training of trainers and to meet other national and international commitments. Also a network of ten outreach centres at the respective NDRF Battalion locations are proposed to be set up.

One of the most important tasks of NDRF is to continuously engage themselves in the Community Capacity Building and Public Awareness programmes in a big way which includes training of people (the first responders) and concerned government officials at different levels in the areas with high vulnerability. Alongwith Community Capacity Building and Public Awareness exercises NDRF is also actively engaged in area familiarization exercises. Such exercises provide first-hand knowledge about the topography, access route to various disaster prone areas, availability of local infrastructure/logistics which can be used in disaster response operations.

NDRF also conducts regular mock exercises on various disasters like cyclone flood earthquake, NBC emergencies, mass casualty management etc. participation in such exercise on the hand improve the professionalism of NDRF personnel to tackle the real emergency situation and on the other provides an opportunity to interact with various state Government officials and to develop cordial relations with them that can be of great help during response to actual disasters.

9.1 NECESSITY OF ASSISTANCE FROM ADJOINING DIVISIONS / ZONES

- i. No division can be equipped to handle a disaster of such a large magnitude like Ferozabad or Gaisal.

- ii. Assistance has to be sought from adjoining Divisions/Zones.
- iii. A division is normally expected to handle an accident of the magnitude involving up to 100 injuries (Grievous + Simple). Threshold levels have been given in terms of injuries, because initially it is difficult to estimate number of casualties.
- iv. Whenever number of injuries is estimated to go beyond 100, assistance should be sought for from adjoining Divisions/Zones.
- v. This is to be co-ordinated by the Chief Emergency Officer in HQ Emergency Cell.

9.2 ASSESMENT OF ASSITANCE FROM ADJOINING DIVISIONS / ZONES

- i. DRM after reaching the accident site should make an immediate assessment like injuries.
- ii. Quick assessment is an absolute must in order to ensure that assistance from adjoining divisions can be rushed at the shortest possible time.
- iii. Assessment made by DRM should be based on number of coaches involved.
- iv. As a thumb rule, for each coach that has capsized, 30 injuries should be estimated.
- v. Total injuries estimated would be (no.of coaches) x 30.
- vi. This should be conveyed to Sr.DOM in Divisional Emergency Cell and Chief Emergency Officer in HQ Emergency Cell.
- vii. Based on the above figures, decision should be taken and assistance rushed from adjoining divisions and zones.

9.3 SCALE OF ASSITANCE FROM ADJOINING DIVISIONS / ZONES

- i. As a thumb rule, assistance of 1 team should be sought from adjoining division for every 50 additional injuries, beyond 100 injuries.
- ii. In case of all disasters, following should be used as an approximate guideline for deciding level of assistance required :

Threshold level	100 to 150 Injuries	150 to 200	above 200 Injuries
No. of teams	1 team	2 teams	3 teams
ARMV/SPARMV	2	2 + 1	2 + 2
140 T crane	2	2 + 1 BD	2 + 2 BD

- iii. Complement of staff in each team sent by adjoining divisions/zones will be as per norms given below:

<u>Officer in charge</u>	<u>Senior Scale</u>
Doctors	5
Para – medical staff	10
Commercial officers	2
Commercial supervisors	10

9.4 ASSISTANCE FROM DEFENCE & PARA MILITARY FORCES

- 9.4.1 Assistance should be sought from nearest army & para-military establishments, NDRF, ODRAF and OSDMA.
- 9.4.2 Railway staff no matter how dedicated and loyal, are not experts in extricating dead bodies, handling injured passengers & their evacuation etc.
- 9.4.3 In case of assistance required from the nearest NDRF unit, should be requisite through NDMA, New Delhi by DRMs/GMs.
- 9.4.4 Army has the necessary expertise and are trained and equipped to handle such a war like situation.
- 9.4.5 Therefore, Divisional/Zonal HQ should get in touch with the nearest army command and request for necessary assistance.
- 9.4.6 Selected telephone numbers of Army and Para-military establishments are given in Annexure- 25.

9.4.7 Additional telephone numbers of Army are given in Divisional DM Plans.

9.5 DEPARTMENTAL ASSISTANCE FROM ADJOINING DIVISIONS / ZONES.

9.5.1 S&T Department

- i.** Satellite Telephone numbers of ARTs from 05 adjoining divisions.
- ii.** 05 Mobile Telephone numbers of each ART from 5 adjoining divisions (25 mobiles in all).

9.5.2 Electrical Department

- i.** Generators and fuels from ARTs of adjoining divisions.
- ii.** Lighting equipments from ARTs of adjoining divisions.
- iii.** Portals/ OHE masts or other OHE fittings etc.

9.5.3 Civil Engineering

- i.** Additional workmen are required who are to be moved from adjoining divisions/zones.
- ii.** Each such division sending assistance should move 250 men along with 5 artisans and 5 SE(P. Way).
One DEN and one AEN each should also move to the site of accident from each such Division.

(Chapter-10) **SITE MANAGEMENT PLAN – I**

There are 2 aspects of Disaster Management work at an accident site.

- ☞ Rescue, relief and restoration operation, which is carried out by one set of functionaries.
- ☞ Aspect pertains rehabilitation of accident involved passengers, taking care of dead bodies, dealing with their relatives etc. for which a different set of functionaries are required. For managing these 3 distinct aspects of DM work that are required to be discharged by Railways, three separate establishments should be set up at an accident site. The outline schematic plan of accident site given at Annexure- 2.
- ☞ Transportation of stranded Passengers.

10.1 UNIFIED COMMAND CENTRE (UCC)

- 10.1.1** Unified Command Center (UCC) should be set up at the accident site under the overall coordination of Mechanical Department.
- 10.1.2** This will be some kind of a control office to be located near the center of the accident site.
- 10.1.3** This is basically meant for catering to operational needs of Railway in rescue, relief and restoration work.
- 10.1.4** Detail schematic plan of UCC is given at Annexure – 2.
- 10.1.5** UCC is to be manned by staff of relevant departments such as :
Medical, Commercial, Personnel, Operating, Safety, Security, Public Relations, Mechanical, Electrical, S&T and Engineering.
- 10.1.6** UCC will be provided with all facilities similar to a control office.
- 10.1.7** Adequate lighting with generator backup should be provided in the UCC.
- 10.1.8** Adequate number of telephonic links to Divisional Emergency Cell and HQ Emergency Cell should be provided. Preferably each department in the UCC should be given as independent telephone including satellite telephone, fax, photo copier, PCs and loud speaker.
- 10.1.9** PC/Laptop should be connected to Internet for E-Mailing of detail update to all concerned, including Divisional Emergency Cell, HQ Emergency Cell and Help line Enquiry Booths.

- 10.1.10** A big banner displaying 'UNIFIED COMMAND CENTER' should be put up at a prominent place at the entry to the samiana, with sufficient signage's indicating its direction or approach road.
- 10.1.11** UCC at the site will be manned by Sr. Supervisors on round the clock basis in 12 hrs. shift duty and they will monitor & co-ordinate working of their departments.
- 10.1.12** Various functionaries in the UCC will monitor and co-ordinate the working of their departments, and assistance required by them, if any.
- 10.1.13** Each functionary at the UCC will maintain a log book. Flow of information both incoming and outgoing would be recorded along with the time and names of officers/staff who were given the message.
- 10.1.14** UCC will basically supervise the working of 2 LCCs and coordinate with Divisional and HQ Emergency Cells.
- 10.1.15** Functionaries of different departments in LCCs should provide updated information regarding progress of work to their counterparts in UCC.

10.2 LOCAL COMMAND CENTRES (LCC)

- 10.2.1** Depending on the spread of the accident site, Local Command Centres (LCC) on the same pattern as the UCC should be set up.
- 10.2.2** If the site is spread out over 300 – 400 mts. 2 LCCs should be set up.
- 10.2.3** Detail schematic plan of LCCs would be similar to that of UCCs as given at Annex-2.
- 10.2.4** Representatives of same departments as in UCC should be present in LCCs also. However, they should be either one or at most 2 men per department. It will co-ordinate various teams spread out over the site of accident.
- 10.2.5** Each LCC will oversee the working of DM teams at one end of the accident site.
- 10.2.6** Jurisdiction of each LCC will extend to all men and materials belonging to 2 ARMVs, BD special and 1 ART at that end of the accident site.
- 10.2.7** One SAG officer of Mechanical department will be overall in charge of each LCC with loud speaker for making announcements and direct telephone link with UCC.

10.3 NEED FOR SETTING UP OF CENTRAL PASSENGER ASSISTANCE CENTRE

For taking care of relatives of passengers, providing them with succor in their hour of agony and for guiding them sympathetically, some kind of an assistance center is required at site, under overall coordination of Commercial Dept. taking help from different Departments as mentioned. A banner displaying "**CENTRAL PASSENGER ASSISTANCE CENTRE**" should be displayed prominently.

10.4 ASSISTANCE TO BE RENDERED TO THE RELATIVES OF PASSENGERS

- 10.4.1** Assistance to be rendered to relatives for completing the following formalities :
 - i.** Locating the name of the passenger on reservation charts, in case passenger was traveling in reserved accommodation.
 - ii.** Going through the list of injured and dead passengers to find out whether the name appears.
 - iii.** In case the name is not available in the list, then taking a round of different hospitals to find out whether their relative has been admitted in one of them in an unconscious state.
 - iv.** Hospitals are generally at separate locations, sometimes even in different towns; and commuting becomes a problem.
 - v.** In case the passenger can be located in one of the hospitals, they have to find out the severity of injuries, likely period of hospitalization etc.
 - vi.** Collect the ex-gratia paid by Railways.
 - vii.** Try and locate missing luggage of the injured passenger. For this they have to take a round of the building where all unclaimed luggage have been kept.

- viii. Next they have to arrange for a place for them selves to stay.
- ix. Arrange for medicines/diet etc. and payment of hospital bills, if required.
- x. Thereafter, they have to keep in touch with the hospital and get their relative released.

10.5 ASSISTANCE TO BE RENDERED TO THE RELATIVES/NEXT OF KIN OF DEAD PASSENGERS

They are to be given the following assistance :

- 10.5.1 In case the passenger could not be located in any of the hospitals, then they have to go to the building where unidentified dead bodies have been kept.
- 10.5.2 Take a round of various rooms where bodies have been kept, examine each body and try and locate their near and dear one.
- 10.5.3 Identify the dead body, if the same has been extracted by then.
- 10.5.4 Otherwise wait for all bodies to be extracted and try and identify their relative.
- 10.5.5 In case they fail to identify the same then they have to go through photographs of unidentified bodies taken at site.
- 10.5.6 After the body is finally identified, they have to produce proof of relationship for Railways to entertain their claim.
- 10.5.7 Obtain medical death certificate from the Railway doctor.
- 10.5.8 Obtain post mortem report, from the Govt. doctor who has performed post-mortem on the body.
- 10.5.9 Obtain official death certificate from the local municipality.
- 10.5.10 Accept of ex-gratia payment from Railways.
- 10.5.11 Collect forms for lodging claim for compensation from Railway Claims Tribunal.
- 10.5.12 Take over custody of dead body from the local Police.
- 10.5.13 Perform last rites at the same place or take back the body to their native place, depending on circumstances.
- 10.5.14 Make arrangements for their return journey back to their native place.

10.6 COMBINED ASSISTANCE CENTRE (CAC) :

- 10.6.1 The UCC should have a **Central Passenger Assistance Center (CPAC)** located towards the rear side, away from the track for rendering help to passengers and their relatives. Outline schematic plan of UCC/CAC is given at **Annexure-2**.
- 10.6.2 This is basically meant for catering to requirements of passengers and their relatives/next of kin, and for providing a single window clearance for all types of formalities.
- 10.6.3 CAC should be separate from the UCC so that it does not interfere with normal rescue and relief work.
- 10.6.4 Detail schematic plan of CAC is given at Annexure-3.
- 10.6.5 CAC will manned by staff of relevant departments such as:
 - 👉 Operating, Medical, Commercial, Security & Personnel
- 10.6.6 There should be only one such CAC, and all Railway resources should be pooled into it. CAC will be manned by staff of relevant department such as :
 - Operating
 - Medical
 - Commercial
 - Security
 - Personnel

- 10.6.7** A big banner displaying '**COMBINED ASSISTANCE CENTER**' should be put up at a prominent place at the entry to the shamiana.
- 10.6.8** Different counters should be provided in sequence for each of these formalities, so that the entire exercise can be completed in about an hour.
- 10.6.9** Functionary concerned from the local Municipality who issues Official Death Certificates should be made to come and sit in the CAC so that these certificates can be issued immediately without any delay.
- 10.6.10** CAC should have different counters for various purposes in following sequence:
- i.** Reservation chart, for locating the name.
 - ii.** List of dead and injured along with name of hospital. The name of passenger involved should be checked up from the list of dead or injured, if available, and their current status informed.
 - iii.** Counter for providing commercial supervisor or WI as escort along with vehicle(s), for accompanying the relative and going to hospitals or mortuary,
 - iv.** Railway doctor for issue of Medical Death Certificate.
 - v.** Govt. doctor for issue of Post mortem Certificate, in case the same is necessary.
 - vi.** Officer – in – Charge of CAC to supervise the CAC.
 - vii.** Municipality official for issue of Official Death Certificate.
 - viii.** Local police for issue of authority for handing over of dead body.
 - ix.** Claims counter – Payment of ex-gratia and issue of Claims Compensation form.
 - x.** Counter for helping performance of last rites in case relatives decide to cremate the body there it self.
 - xi.** Pass counter for issue of return journey pass.
 - xii.** Return journey facilitation counter for making arrangements for return journey.

10.7 FIRST AID POSTS

- 10.7.1** Medical Posts should be provided in both UCC and CAC.
- 10.7.2** Medical Post in UCC will provide first aid to injured passengers after extrication, assess their injuries and make arrangements for sending them to nearby hospitals.
- 10.7.3** Medical Post in CAC will keep all records of injured and dead passengers, names of hospitals where they have been admitted etc.
- 10.7.4** First Aid Posts should be provided in LCCs.
- 10.7.5** This will mean for treating passengers and classifying their injuries before they are sent for admission to various hospitals.

10.8 SETTING UP OF UCC, LCC AND CAC

- 10.8.1** One SSE/Works shall be exclusively responsible for setting up of these facilities. He shall undertake the following:
- i.** Move along with sufficient staff for setting up of these facilities.
 - ii.** Immediately start setting up of the tentage accommodation after taking out tents and shamianas provided in ARTs.
 - iii.** In addition, he should also requisition agencies which provide tentage accommodation on contract. Details of such agencies have been given in Divisional DM Plans.
- 10.8.2** Bridge Line staff will assist in setting up tentage and above mentioned facilities. Dy.CE/Bridge will also move to the site and in case, bridge is not involved, he will take full charge of tentage arrangements.
- 10.8.3** Bridge Unit will take with them sufficient Manila ropes, wire, ropes, survey instruments, binoculars, helmets, life jackets, ladders and other equipment. Nylon ropers should be sufficient in length to ensure barricading at site and camping areas.

- 10.8.4** Sufficient facilities for erecting temporary stage/scaffolding etc. should also be organized, if required at site.
- 10.8.5** Few temporary toilets should be provided at one location in addition to number of urinals at 3 or 4 places with adequate disinfectant.
- 10.8.6** Water tankers will be ordered for supplying water at site and arrangements shall also be made for drinking water.
- 10.8.7** Temporary kitchen in tents/shamianas is to be set up so that catering unit or IRCTC can provide cooked food to staff working at accident site.
- 10.8.8** Adequate no of chairs should also be arranged.
- 10.8.9** Bridge Line staff will have list of divers who in case of emergency can be hired for rescue or restoration operations wherever site is surrounded by deep water.
- 10.8.10** Signages for both UCC and CAC should be provided at prominent locations.

10.9 NUMBER OF DEAD AND INJURED – MEDICAL DEPARTMENT

- 10.09.1** Medical department at site should confirm the number of dead.
- 10.09.2** Doctors in charge of various teams working on different coaches should give 03 hourly report to Medical counter in LCC who in turn will inform **UCC, CPAC** and others.
- 10.09.3** Number of injured passengers.
- 10.09.4** Type of injuries, whether grievous, minor or trivial.
- 10.09.5** Names of injured, and names of various hospitals where injured have been sent.

10.10 IDENTIFICATION OF DEAD BODIES – COMMERCIAL DEPARTMENT

- 10.10.1** Number of dead bodies identified.
- 10.10.2** Ex-gratia paid to injured and next of kin of the dead.
- 10.10.3** No. of dead bodies handed over to relatives.

10.11 NUMBER OF COACHES DEALT WITH – MECHANICAL DEPARTMENT

- 10.11.1** No. of coaches thoroughly searched.
- 10.11.2** No. of coaches made off track.
- 10.11.3** No. of coaches yet to be dealt with.
- 10.11.4** Collection and Dissemination of Information – Channel of Communication:-

The following would be the responsibility and channel both for collection as also dissemination of information. Before each shift goes off duty, details of work done should be updated in the LCC.

The LCC's should in turn update the UCC regarding the latest progress. This updated information would be conveyed to Divisional Emergency Cell every 3 hrs.

(a) Number of dead and injured – Medical Department:-

- (i) Medical Department at site should confirm the number of dead.
- (ii) Doctors in charge of various teams working on different coaches should give 3 hrs. report to Medical counter in LCC who in turn will inform UCC.
- (iii) Number of injured passengers.
- (iv) Type of injuries, whether grievous, minor or trivial.
- (v) Names of injured, and names of various hospitals where injured have been sent.

(b) Identification of dead bodies – Commercial Department:-

- (i) Ex-gratia paid to injured.

- (ii) Number of dead bodies identified.
- (iii) Ex-gratia paid to dead.
- (iv) No. of bodies handed over to relatives.

(c) Number of coaches dealt with – Mechanical department.

- (i) No. of coaches thoroughly searched.
- (ii) No. of coaches made off track.
- (iii) No. of coaches yet to be dealt with.

(Chapter – 11)
SITE MANAGEMENT PLAN – II

Nominated officials from various departments arriving at site by ARMVs and ARTs form part of the Disaster Management Team. Officials representing each department are responsible to ensure that assigned duties of their respective departments are efficiently carried out. Senior officers of each department will also ensure that their work is synchronized with that of functionaries of other departments for quick rescue, relief and restoration operation.

11.1 MEMBERS OF THE DISASTER MANAGEMENT TEAM

11.1.1 Disaster Management Team normally comprises members of following departments

- i.** Trained Railway men from Medical, Commercial, Safety, Electrical, S&T, Mechanical, Engineering, Security, Personnel and other departments.
- ii.** In case of fire accidents, trained fire service personnel shall form part of this unit.
- iii.** In case of an accident on water body, divers and naval cadets will also be part of the team.
- iv.** In case of sabotage or bomb explosion, bomb disposal squads and GRP/Local Police will also be involved.
- v.** Various rescue unit shall accompany ARMVs, ARTs or move by road as quickly as possible.

11.1.2 Officer-in-charge of Site (OIC Site)

On arrival of ARMV at accident site DRM shall take over as OIC Site from the senior-most officer of the accident involved train. On arrival of 1st Special train carrying GM and other HQ Officers, GM shall be OIC Site. In the absence of GM, the senior most Officer shall be OIC Site. He will be responsible for forming Core Groups as required and direct them to carryout efficient rescue, relief and restoration operations.

11.1.3 Rescue, Relief and Restoration Operation

DM Team on arrival by ARMVs and ARTs shall undertake following actions:

- i.** Video coverage of accident site and Crowd Control for Law and Order.
- ii.** Rescue operation.
- iii.** Clearance from State police for restoration where required.
- iv.** Relief operations.
- v.** Installation of Communication Network.
- vi.** Preservation of Clues and Evidence.

- vii. Media Management at site.
- viii. Salvage operation.
- ix. Restoration operation.
- x. Lighting arrangements of accident site(if night will be require first).

11.1.4 Photography

Prior to starting restoration work at an accident site, divisions should undertake suitable video film coverage to the extent feasible. Still photography by digital camera should also be undertaken extensively for its obvious advantages. The photograph should be taken from a vantage point and from as many angles as possible so as to give a bird's eye view as also close up photographs.

Such photographs should clearly indicate:

- i. Severity of the accident.
- ii. Illustrate the damage to P.Way. Rolling Stock, Signal, OHE and other structures and equipments.
- iii. Separate set of photographs to be taken to preserve clues and evidence of sabotage if suspected.
- iv. Victims and unidentified bodies should also be extensively photographed as detailed in (11.2.1) (xii) below.

11.2 GENERAL

For efficient Disaster management, responsibilities of various departments are to be executed by deputing responsible officers and supervisors. Important duties of such officers/supervisors are enlisted as follows:

11.2.1 OIC Site

- i. Ensure setting up of UCC, CAC and LCCs at the earliest.
- ii. Collect information from OIC Site of IAT.
- iii. Take stock of the situation and plan for efficient rescue operation.
- iv. Estimate quantum of assistance required for each department from:

☞	Within the division,		☞	Adjoining zones
☞	Adjoining divisions of ECoR		☞	Non-Railway agencies.

- v. Channelise local resources to supplement available Railway resources.
- vi. Ensure that duties of various functionaries of different departments as laid down in ECoR's Zonal DM Plan are carried out.
- vii. Ensure co-ordination among all departments for efficient rescue, relief and restoration operation.
- viii. Ensure information to Superintendent of Police and District Magistrate.
- ix. In case of sabotage, direct RPF to obtain quick clearance from State Police.
- x. In case of serious explosions or fire, clearance from Controller of Explosives is to be obtained. It is to be mandatory that Group / Team to reach at site at first information.
- xi. Give prima facie cause of the accident along with forecast of expected date and time of restoration.
- xii. Ensure timely information on the progress of rescue, relief, and restoration work with following details:

☞	Number of coaches searched.		☞	Number of bodies identified.
☞	Number of injured passengers recovered.		☞	Number of coaches dealt with.

☞	Nature of injuries to passengers.	☞	Supplementary assistance required, if any.
☞	Number of bodies recovered.		

- xiii.** Forecast for completion of each activity mentioned below should also be firmed up. These target dates and times should be communicated to all officers and supervisors at accident site:

- | | |
|-----------------------------|-----------------------------|
| 1. Re-railment | 4. OHE fitness. |
| 2. Track fitness | 5. Clearance of section. |
| 3. Points and inter-locking | 6. Movement of first train. |

11.2.2 Duties of Divisional Railway Manager

- i.** Ensure that functionaries of different branches at the accident site carry out duties assigned to them as per Zonal and Divisional DM Plan
- ii.** Co-ordinate with Divisional Emergency Cell regarding assistance required.
- iii.** Co-ordinate with Civil Authorities especially with regard to :
 - a.** Requisition of buses from State transport authorities, with Loco Pilots for round the clock duty.
 - b.** Arrange waiver of Post Mortem formalities.
 - c.** Arrange positioning of Municipal Official in the CAC for issuing of Official Death Certificate.

11.2.3 Formation of two teams at accident site for round the clock working

- i.** At the accident site, departmental officers available from both HQ and division shall be formed into two teams for round the clock working in 2 shifts, preferably 8 hrs. to 20 hrs. and from 20 hrs. to 8 hrs.
- ii.** PHODs/CHODs shall be available on duty during the day time.
- iii.** PHODs/CHODs shall take on the spot decision regarding composition of the team for night site shift for their respective department. This composition should not normally be changed during the 3-4 day stay at the accident site.
- iv.** Branch Officers shall be available on duty during the day time.
- v.** Branch Officers shall take on the spot decision regarding composition of the team for night shift for their respective department. This composition should not normally be changed during the 3-4 day stay at the accident site.
- vi.** Similarly, supervisors available from both HQ and divisions shall also be put in two teams.

11.2.4 Duties of Operating Department

Immediately after getting the information.

- i.** All sectional TIs and Supervisory SSs should be directed to reach the accident site by first available means.
- ii.** Similarly additional RG/LR staff from the section should be sent to adjacent stations on either side so that additional shunting work can be done.
- iii.** Since considerable amount of shunting is required to be performed at adjoining stations, 2 traffic supervisors in 2 shifts should be posted at adjoining stations on each side.
- iv.** Ensure that special trains are sent into the accident affected block section according to the sequence detailed in Chapter 8.3.
- v.** Ensure proper marshalling of crane while proceeding to the accident spot in the block section.

- vi. Ensure that Engineering vans of the ART are placed nearest to the accident site for this purpose; Engineering van/wagon should be placed closest to site of accident by sending it in pushing condition.
- vii. Ensure prompt clearance of stranded passengers at the site in coordination with the Divisional Emergency Cell.
- viii. Regarding running of special trains, keep in touch with Divisional Emergency Cell and give requirement from site

11.2.5 Duties of Safety Department

- i. Preserve all clues and evidences regarding probable cause of the accident and ensure that these do not get disturbed till police clearance is received.
- ii. Ensure that video/still photographs by digital cameras are taken as required.
- iii. Ensure that joint measurements, observations are recorded in the prescribed proforma before restoration work begins.
- iv. Ensure that unaffected rolling stock is moved away from the site and thereafter stabled at convenient location for further examination during accident inquiry.
- v. Ensure that evidence of train staff, station staff and public are recorded on the spot.
- vi. Addresses of passengers willing to give statements later should also be obtained.
- vii. Ensure that special trains are sent into the accident affected block section according to the sequence detailed in Chapter 8, Section 3.

11.2.6 Duties of Medical Department

i. Main functions

Main functions of the Medical department can be broadly classified as:

- ☞ Taking an initial round of hospitals and assessment of situation.
- ☞ Taking out injured passengers from accident-involved coaches.
- ☞ Attending to injured passengers and giving them First Aid.
- ☞ Preparing list of injured passengers.
- ☞ Classification of their injuries.
- ☞ Transporting them to hospitals and getting them admitted.
- ☞ Post admittance hospital care of the injured.
- ☞ Dealing with dead bodies.
- ☞ Preservation of dead bodies.

ii. General

- ☞ Ensure collecting blood and urine samples of train crew in case the same is necessary.
- ☞ Organise as many road ambulances as possible at the accident site.
- ☞ Data Bank of Divisional DM Plans has names, telephone numbers and other details of hospitals near the accident site. They should be contacted on phone for sending road ambulances along with team of doctors.
- ☞ Set up Medical Counter in UCC and CAC for passenger assistance.
- ☞ Set up First Aid Posts in LCCs.

iii. Site Management

Leader of Team 'A' (Normally CMS/MS In-charge of the Division) would take control of the site, co-ordinate relief measures and distribute duties amongst doctors available as detailed below;

- ☞ Different teams and groups will be formed for discharging various duties of the Medical department as detailed in Section (7.5) above. Each should consist of 4-6 members and each group should consist of 3-5 teams, depending upon requirement.
- ☞ One group of doctors will take a round of various hospitals where injured passengers have already been admitted. (Para 'iv' below).
- ☞ One group consisting of 4-5 teams of doctors and para-medics will taken out injured passengers and dead bodies from accident involved coaches. (Para 'v' below).
- ☞ One team will attend to injured passengers and give them First Aid and other medical treatment. (Para 'vi' below).
- ☞ One team will prepare list of injured passengers, note down details of their injuries and classify them. (Para vii & viii below).
- ☞ One team would be in-charge of transporting injured passengers to hospitals and getting them admitted. (Para 'ix' below).
- ☞ One team would be in-charge of post admittance hospital care of the injured. (Para 'x' below).
- ☞ One team will deal with dead bodies after these have been extracted from coaches. They will prepare a list and arrange for their preservation. (Para 'xi' & 'xii' below).
- ☞ In case sufficient doctors are available then more groups should be formed for rescue operations. (Para 'v' below).

iv. Taking an initial round of hospitals

- ☞ Separate doctors will be deputed to visit each hospital where injured passengers have already been shifted.
- ☞ One commercial officer will also accompany doctors and make a general assessment.
- ☞ At the hospital, they should collect information about dead/injured persons, their name, age, sex, address, telephone no., name and telephone no. of relatives / friends, nature of the injury, etc.
- ☞ These information should be immediately communicated to CMS/MS at accident site by using local PCO/Cell phone etc.
- ☞ Prepare a list of persons dead/injured already in hospitals in three copies by using carbon paper.
- ☞ The list thus prepared is to be signed by Railway doctor on duty in the hospital. One copy is to be handed over to the Commercial Department.
- ☞ 2nd copy to be kept with the doctor in charge as office copy and the 3rd copy to be given to paramedical staff to get multiple photocopies for further distribution.
- ☞ One copy should also be sent to CAC for being fed into the Personal Computer provided in the CAC.
- ☞ The initial list prepared should be updated at regular intervals, as and when any change occurs and communicated to the emergency control.

v. Taking out injured passengers

- ☞ Maximum number of doctors should be deputed for this activity.
- ☞ This group should consist of at least 4-5 teams. If numbers permit, more such teams should be formed.
- ☞ Teams involved in rescue operation should ensure rapid access to all injured passengers.
- ☞ They should take assistance of Mechanical/Engineering/RPF staff to extricate injured passengers.
- ☞ Each team will join up with teams of Mechanical staff who would also be involved in extracting dead and injured from coaches.

- ☞ Maximum number of coaches should be tackled simultaneously, except those that have climbed on top or have telescoped into one another.
- ☞ Coaches should be thoroughly searched including lavatory and vestibule portions before abandoning further search and moving on to the next coach.

vi. Attending to injured passengers

- ☞ One team will be asked to provide medical treatment to injured passengers immediately after their evacuation from coaches.
- ☞ Ensure stabilization of condition of injured passengers already taken out from coaches, before they are dispatched to hospitals by road.
- ☞ In case of patients in critical condition where stabilization of condition at site is not possible, they should be moved immediately by road ambulance or shifted to ARMV.

vii. Preparing list of passengers

- a. Collect list of injured passengers prepared by TS/TTEs and assess the situation.
- b. Separate lists to be prepared coach wise.
- c. The list should contain following details;
 - ☞ If found Conscious: Name, sex, age, identification marks, address, ticket number, originating and destination station.
 - ☞ If found Unconscious: Approximate age, sex, identification marks, ticket number and other particulars if relatives and friends are available.
- d. Once the preliminary list of injured passengers has been prepared, the list should be signed by the CMS/MS in-charge and a copy handed over to commercial department.
- e. The list of injured passengers will thereafter be updated periodically, as rescue and relief work continues and fed into the Personal Computer provided in the UCC/LCC.

viii. Classification of Injuries

A. Injuries are classified as under:

- a) 'Grievous' injuries as defined below.
- b) 'Simple', but excluding 'trivial' injuries such as abrasions or bruises.
 - a. Following are considered to be 'grievous' injuries (as per Section 320 of the Indian Penal Code):
 - ☞ Permanent privation of sight of either eye.
 - ☞ Permanent privation of hearing of either ear.
 - ☞ Privation of any member or joint.
 - ☞ Destruction or permanent impairment of powers of any members or joint.
 - ☞ Permanent disfigurement of head or face.
 - ☞ Fracture or dislocation of a bone or tooth.
 - ☞ Emasculation.
 - ☞ Any hurt which endangers life, or which cause the sufferer to be, during the space of twenty days, in severe bodily pain or unable to follow his ordinary pursuits.

b. Injuries other than those defined above are considered to be "simple" injuries.

B. Apart from injuries defined above, there may be cases where a passenger or trespasser receives only petty abrasions or bruises. These are of trivial nature and technically speaking should not be taken as injuries.

C. "A Railway employee or a passenger or a trespasser shall be considered to be "injured " only when he/she is incapacitated following customary vocation for more than 48 hrs. Such injuries are classified as under"

- I. Serious (including grievous injuries).

II. "Minor" or "Simple".

- D. Classify injured passengers into separate categories as grievous or simple.
- F. Inform Commercial department for arranging ex-gratia payment.
- G. Classification of injuries may be changed in the light of X-rays and other detailed findings after admission and should be intimated to UCC and LCC.

ix. Transporting injured passengers to hospitals

- ☞ One team will be asked to arrange transport of injured passengers to nearby hospitals.
- ☞ Ensure expeditious transportation of injured either to AMRVs or to nearby hospitals.
- ☞ Critically injured passengers should be transported by means of road ambulances and other by means of ordinary road vehicles.
- ☞ Commercial staff should also be associated with transfer of injured passengers to hospitals.
- ☞ Before doctors and supervisors leave the accident site for hospital duty, they should note down the DOT and mobile Telephone nos of the accident site, CMS, MS and other doctors at the site for quick communication.
- ☞ Doctors going to different hospitals should have separate vehicles.
- ☞ In case sufficient numbers of Railway vehicles are not available, they should hire taxis for their movement by withdrawing from station earnings.

x. Post admittance hospital care

- ☞ One Railway doctor, one commercial supervisor and one welfare inspector should be deputed round the clock at each hospital.
- ☞ If large number of hospitals are involved 2/3 hospitals may be given to one doctor. In that case, the doctor, in consultation with CMS/MS, should station himself at the hospital where maximum no. of patients are admitted.
- ☞ Make an assessment about capabilities of the hospital to handle injured persons especially with reference to types of injuries they have suffered. Decide whether the patient needs to be shifted to other hospital with better facilities and then arrange to shift the patient.
- ☞ In case any injured passenger succumbs to his injuries in the hospital, then the doctor in-charge of that hospital should up date this fact to the medical counter at CAC.

xi. Care for the Dead

- ☞ 20 nos of collapsible coffins which is available at each Divnl. Hospital will be transported to the site by ARMV, road vehicles or train services as per need.
- ☞ Air-conditioned mortuaries available with Divnl. Hospital to be utilized to store at least six bodies.
- ☞ There is provision of Embalming Gun and Chemicals to ensure that bodies are preserved for reasonable time and if necessary the bodies can be transported to Divnl. Hospital till claimed by relatives.
- ☞ 20 nos of body bags which are available with Divnl. Hospital is to be utilized.
- ☞ In case of a major disaster the usual complement of medical staff in any ARMV is grossly inadequate for undertaking work of this magnitude. This should be augmented from nearby divisions/zones depending on the requirement
- ☞ Adequate number of Safaiwalas and other health workers who have come to the accident site should be mobilized for this purpose.

- ☞ Dismembered bodies begin emitting foul odour after two days. Carrying out this task under such circumstances become a real problem. Therefore, target should be to extricate all dead bodies within 24 hrs.
- ☞ Dead bodies should be dealt with coachwise, otherwise bodies taken out from different coaches get mixed up.
- ☞ Bodies taken out from coaches should be stacked at quite some distance from the track in front of respective coaches, in separate lots, coach wise. While this may slow down the work initially, in the long run it is more systematic since bodies don't get mixed up.
- ☞ Shift dead bodies from coaches to a nominated place at the accident site with the help of paramedical staff, SJAB, Scouts, Civil Defence personnel, other Railway staff and non-Railway volunteers available at site.
- ☞ Ensure covering of dead bodies with shrouds.
- ☞ Put label (white cloth of 12"x9" written by marker pen) on body bag on each dead body on the chest just below the neck as below:

Date : _____	Dead Body serial No : _____	_____
Coach No: _____	Age _____	Sex : _____
Name : _____		

- ☞ In case of unidentified dead bodies, against the item name', it should be written as unidentified-1/unidentified-2, etc. Approximate age should be estimated from the appearance, such as between 35-45 years.
- ☞ 5 photographs preferably by digital camera should be taken of each dead body. Two should be close up of face from in front and sideways, third should be with the label visible as mentioned above and fourth and fifth should be of full length of the body.
- ☞ Each body should also be video photographed.
- ☞ After photographs have been taken, each body should be placed inside a plastic bag with zip having proper labeling system where some information is also to be provided.
- ☞ After this, bodies will be handed over to GRP or local police for safe custody.
- ☞ Take necessary steps to handle unhygienic condition that may arise due to decomposed/mutilated bodies.

xii. Preservation of dead bodies

- a. Numbering and photography of bodies should be done even when relatives are on hand to claim the body.
- b. Arrangements have to be made for a more permanent location for them till such time as the next of kin arrive to claim these bodies.
- c. In all such accidents passengers are invariably separated from their belongings. As such in many cases there are no tickets or other identification papers on their possession.
- d. This problem is further compounded in unreserved coaches where no reservation charts are available.
- e. Identification problems come up in case of mutilated bodies also. In such cases, photographs are better means of identification.
- f. Arrange for hiring of a couple of big halls, for keeping bodies.
- g. Rooms should preferably be at a single location so that relatives do not have to go around from mortuary to mortuary.

- h. A large building having number of rooms would be ideal for storing them. Best option would be to take over a school building temporarily.
- i. Arrange to move dead bodies to nominated buildings being used as temporary mortuaries.
- j. Bodies should be neatly lined up with their numbers prominently displayed, and kept in different rooms, coach-wise.
- k. Notice Board outside the building should display the room nos where bodies extracted from a particular coach have been kept.
- l. These details should also be posted on a notice board outside each room.
- m. This will prevent unnecessary handling of bodies, which in any case would be in an advanced state of decomposition.
- n. For dead bodies whose relatives are not readily available and delay is expected, arrange for their preservation by dry ice etc.

- o. Procure following items from local market for dealing with dead bodies :

1. Shrouds	3. Coffins
2. Polythene bags	4. Dry ice

- p. Commercial staff should be put on round the clock duty in the building housing the temporary mortuary for guiding relatives as and when they come.

11.2.7 Duties of Commercial Department

i. Main functions

Main functions of the Commercial department can be broadly classified as:

- ☞ Providing beverages and catering to injured and uninjured passengers through IRCTC or any nodal agency.
- ☞ Initial round of hospitals and assessment of situation.
- ☞ Preparing list of injured passengers.
- ☞ Assisting transportation of injured passengers to hospitals and getting them admitted.
- ☞ Payment of ex-gratia to injured and next of kin of dead.
- ☞ Dealing with refund and claims compensation formalities.
- ☞ Taking charge of luggage and consignments.
- ☞ Assistance in post-admittance hospital care of the injured.
- ☞ Taking care of relatives.

ii. General

- ☞ Before Sr. DCM proceeds to accident site he should arrange withdrawal of sufficient cash from station earnings.
- ☞ At the accident site, handpicked commercial supervisors should be deputed for manning commercial counters in UCC and CAC.
- ☞ Each commercial counter in CAC is to be manned by one group as detailed in Chapter 10, Sec-6(six). Co-ordination with other depts. during the process of salvage is must.

iii. Withdrawal of cash from station earnings

- ☞ In order to meet accident related expenditure, Officers can withdraw money from station earnings duly following the procedure incorporated in Commercial Manual Vol. II Rule No.2425.

- ☞ Departmental expenditure necessitated for floods, accidents or earthquakes, etc.
- ☞ Ex- gratia payments to persons involved in train accidents.
- ☞ Procedure and accountal as detailed below should be followed (Para xi & xii below).

iv. Hiring of Vehicles

- a. A large number of road vehicles are required at an accident site for following purposes:
 - ☞ Taking injured passengers, doctors and other important officials to hospitals.
 - ☞ Clearance of uninjured passengers.
 - ☞ Taking dead bodies to mortuaries.
 - ☞ Bringing men and materials, etc. to accident site.
 - ☞ Taking unclaimed luggage for being kept in safe custody.
 - ☞ Taking relatives to hospitals and mortuary.
 - ☞ Other miscellaneous work.
- b. For this purpose apart from whatever number of Railway vehicles may be available, extra road vehicles may be hired.
- c. Adequate number of road vehicles should be attached to CAC for taking relatives to hospitals, mortuaries etc.
- d. Nominated Railway staff to be attached to each hired vehicle round the clock (even group 'D' would suffice), so that optimum use can be made of the vehicle.
- e. Buses from State transport authorities should also be requisitioned along with extra Drivers for round the clock duty.
- f. One Railway staff should be put in charge of each bus on round the clock duty, who will accompany the bus wherever it goes and bring it back in time (even group 'D' would suffice).
- g. In case hospitals are in different towns, then road transport buses should be put on fixed time round trip schedule for movement of relatives from CAC to various locations and back.
- h. All hired vehicles and requisitioned buses should have stickers pasted on their front and rear windscreens indicating '**RAILWAY ACCIDENT DUTY**'.

v. Catering arrangements

- ☞ Arrangements for supply of food and beverages to not only injured but also to other passengers of the accident-involved train should be swiftly organized.
- ☞ Food and beverages should be supplied free of charge.
- ☞ These may be arranged from Railway sources or outside sources as necessary, including IRCTC or their contractors.
- ☞ To supplement Railway catering arrangements nearby dhabas and hotels should be contacted and arrangements made for opening up stalls at the site.

vi. Clearance of uninjured passengers

- a. First of all, arrangements for water and food for stranded passengers should be made.
- b. Clearance of accident-affected passengers from accident site should be planned along with Operating branch who will provide the empty coaching rake.
- c. Make announcement thorough PA system informing passengers regarding their clearance from site either by:
 - ☞ Front portion of the accident involved train.
 - ☞ Rear portion of the accident involved train,
 - ☞ Empty coaching rakes that have been brought to the accident site,
 - ☞ Road bridging that has been arranged.
- d. Arrange adequate coolies for carrying passengers luggage while they transfer to the new train.

- e. In case of road bridging, arrange road transport to clear stranded passengers, record details of passengers dispatched and relay particulars to Divisional Emergency Cell.
 - f. Senior-most official at site shall have powers to arrange conveyance for affected passengers free of charge by any available mode of transport and also incur expenditure for carriage of passengers' luggage, etc.
- vii. Preparing list of injured passengers**
- a. Collect list of injured passengers prepared by TS/TTEs after confirmation by Doctors.
 - b. Separate lists to be prepared coach wise by Medical department.
 - c. This list should be in fed into the Personal Computer available in the CAC.
 - d. The list should also be e-mailed to the Divisional emergency Cell and Hq. Emergency Cell.
 - e. The list of dead and injured that is initially fed into the PC will thereafter be updated periodically, as rescue and relief work continues.
- viii. Amount of Ex-Gratia payable**
- a. The amount of ex-gratia relief payable to injured passengers or to dependants of dead in train accidents including at Manned LC accidents due to Railway's prima facie liability are as under :

☞ Death	-	Rs.50,000/-
☞ Grievous injury	-	Rs.25,000/-
☞ Simple injury	-	Rs.5,000/-
 - b. The amount of ex-gratia relief admissible for death / injury in "untoward incidents" as defined in Section 124A of IR Act 1989 will be as under :

☞ Death	-	Rs.15,000/-
☞ Grievous injury	-	Rs.5,000/-
☞ Simple injury	-	Rs 500/-
 - c. Payment of ex-gratia will be made on the basis of categorization of their injuries made out by doctors at site.
 - d. **No ex-gratia payment** would be admissible to trespassers, persons electrocuted by OHE and road users at unmanned level crossings.
 - e. Ex-gratia payment should also be made to Railway staff killed or injured by a moving train while performing their duty, for example, gangman working on track run-over accidentally by a moving train.
 - f. Ex-gratia amount is to be paid in cash.
 - g. In case of injured passengers, ex-gratia should be paid to the injured passenger himself or in case he is too ill, to his relative in his presence.
 - h. In case of death cases where relatives identify and claim the body, following precautions are to be taken:
 - ☞ Photograph the face of the body from in front and from the side.
 - ☞ Photograph the person taking the ex-gratia payment.
 - ☞ Record the relationship of the person claiming the body along with details of proof, if any.
 - ☞ In case enhanced ex-gratia is announced by the Hon'ble MR, then the enhanced amount should be paid by cheque by Accounts department.
 - ☞ Ex-gratia paid is not to be adjusted against claims compensation payable as decreed by RCT subsequently.
 - i. Payment should be arranged preferably on the spot by a senior scale officer nominated by GM after making such enquiries as can be reasonably made on the spot after immediate needs by way of medical attendance etc., to injured persons have been attended.

ix. Refund and Claims Compensation

- ✎ Refund of fares must be granted in the CAC for unfinished journey as per rules and to be done on priority basis.
- ✎ Injured passengers and next of kin of deceased passengers must be supplied with blank claims compensation forms along with Claims Booklet explaining complete procedure.
- ✎ Photocopy of a filled up Claim Compensation form may also be given along with the blank form so as to help them in filling it up.

x. Luggage and consignments

- ✎ As and when unclaimed luggage and personal belongings are taken out from coaches, a list should be made coach wise, and each item should be tagged with coach no.
- ✎ A list of each item with distinguishing marks should be made.
- ✎ If possible, the cabin number inside the coach should also be indicated.
- ✎ Luggage claimed should be handed over on satisfactory proof of ownership.
- ✎ Unclaimed luggage and personal belongings of injured/dead passengers should be taken possession of for safe custody.
- ✎ Unclaimed luggage should be stored in a safe place, preferably, part of the some building/enclosure which as being used for preserving dead bodies.
- ✎ These should be stored in separate rooms coach wise so that it is easy for relatives to identify.
- ✎ A list should be displayed outside each room indicating the coach no. whose luggage is stored there.
- ✎ It is the responsibility of Commercial department to take charge of all unclaimed luggage etc. These should be taken over from the charge of RPF.
- ✎ Booked luggage, parcels and consignments available in SLRs, VPU's etc. should be taken out and sent by road to nearest Jn. Station for safe custody.
- ✎ Booked perishables goods available in SLRs, VPU's should be taken out and either auctioned at site or sent by road to nearest Jn. Station for being auctioned.
- ✎ RMS consignments on the train should be shifted for safe custody till Postal Authorities come and take over.

xi. Withdrawal from station earnings – Procedure

In order to meet accident related expenditure, Officers can withdraw money from station earnings duly following the procedure incorporated in Commercial manual Vol.II rule No: 2425.

- ✎ Departmental expenditure necessitated by floods, accidents or earthquakes, etc.
- ✎ Ex-gratia payments to persons involved in train accidents.

xii. Withdrawal from station earnings – Accountal

- ✎ The withdrawal from station earnings will be against station pay order. The Officer withdrawing money from station earnings is personally accountable for its correct expenditure and submission of vouchers to the Sr. DFM through Sr. DCM of the concerned Division.
- ✎ Branch Officer of the concerned department shall be responsible for submission of monthly statements of the amount of money withdrawn from station earnings to Sr. DCM, who shall consolidate such withdrawal and submit a report to CCM and FA&CAO(T) accompanied with relevant supporting paid vouchers on the 1st week of the subsequent month.
- ✎ Executive officer concerned shall furnish full particulars of the amount withdrawn, details of payments made, reasons for the payment, the rate and period for which payment is made and the total amount paid with the acquittance to Sr DFM.

- ☞ Sr DCM will compile a monthly statement of all withdrawals from station earnings of his division and send it to CCM and FA&CAO(T).
- ☞ Branch Officer shall be responsible for submission of vouchers against expenditure incurred out of the station earnings withdrawn within 15 days to the Sr. DCM who shall consolidate such withdrawal and submit to Sr. DFM of the respective Division, failing which the amount so withdrawn shall be recovered from the concerned Officer's salary.

(Chapter – 12)

SITE MANAGEMENT PLAN – III

12.1 DUTIES OF MECHANICAL DEPARTMENT

- 12.1.1** For discharging the dual responsibility of extricating injured passengers & dead bodies from coaches and toppling those coaches whose search has been completed, 2 separate groups will be formed at each end for purposes of 'search and rescue' and 'off tracking of coaches'.
- 12.1.2** Once 4 ARMVs, 2 ARTs and 2 BD specials have arrived at the accident site from both ends, normally no more mechanical equipment will be required from anywhere else. The main work will then consist of using of these resources effectively and efficiently.
- 12.1.3** Different teams and groups will be formed for discharging the dual responsibilities of the Mechanical department. Each team should consist of 4-6 members and each group should consist of 3-5 teams, depending upon requirement.
- 12.1.4** One Sr. Supervisor should be in-charge of each team conducting search and rescue at the site. All such 'search and rescue' groups at each end of the accident site would function under directions of an ADME.
- 12.1.5** Similarly, one Sr. Supervisor should be in-charge of each team working on 'off tracking of coaches' at the site. All such 'off tracking of coaches' groups at each end of the accident site, would function under directions of another AME. The second AME concerned would also be in-charge of the crane at that end.(To read AME aSs ADME)
- 12.1.6** **Take precautions in electrified section that power supply is switched off before commencing rescue/relief work.**
- 12.1.7** Use necessary safety equipment like hand gloves, helmet etc.
- 12.1.8** If spillage of inflammable substances is suspected, then only cold cutting equipment should be used.
- 12.1.9** In case of suspected sabotage, ensure minimum interference to clues. Save lives and extricate passengers after video and digital photographs have been taken.
- 12.1.10** Be cautious in using rescue tools like gas cutters, cold cutters, spreaders, hydraulic jacks etc. so that passengers trapped inside or buried under the debris do not get hurt.
- 12.1.11** Ensure marshalling of ART according to site requirement before it is sent into the accident involved block section.'
- 12.1.12** For efficient extrication of entrapped passengers take assistance of Medical/Engineering departments.
- 12.1.13** Each team will join up with Medical teams who would also be involved in extracting dead and injured from coaches.
- 12.1.14** Maximum number of coaches should be tackled simultaneously, except those that have climbed on top or have telescoped into one another.
- 12.1.15** Road cranes of sufficient capacity should be arranged so that these cranes can start working from the center while the 140T cranes could continue working from either end.
- 12.1.16** Trucks should be arranged for carrying BD equipment near to accident involved coaches, so that number of coaches can be simultaneously tackled and more work centers can be opened up.

- 12.1.17** Examine unaffected or re-railed rolling stock and certify their fitness for further movement.

12.2 DUTIES OF SECURITY DEPARTMENT

Main functions of the Security Department can be broadly classified as :

- i. Co-ordination with GRP and Local Police.
- ii. Crowd management.
- iii. Protection of luggage.
- iv. Protection of Railway property.

12.2.1 Liaison with Civil Police

- i. In case of sabotage, liaison with Local Police & officials of District Administration and get early clearance.
- ii. Clearance should be obtained as expeditiously as possible, for starting restoration work.
- iii. Additional manpower should be requisitioned from local police officials and District Administration for purpose of crowd control.
- iv. Exemption should be obtained from SP of the district for waiving off formalities of Post Mortem of dead bodies.
- v. Obtain assistance from GRP and Local Police as and when required.

12.2.2 Crowd Management

- i. The first problem at an accident site is that of surging crowds. Carrying out any kind of rescue and relief operation becomes next to impossible due to crowd. Railway men who try to undertake any kind of rescue and relief work become victims of mob fury.
- ii. Cordon off the site and prevent unauthorized entry of outsiders.
- iii. Segregate the area of accident by putting up temporary barriers using nylon ropes or any other make-shift device available at the scene so that outsiders do not disturb the site or hamper rescue operations.
- iv. These barriers should be at quite some distance away from the track, so that UCC, CAC and LCCs are inside the cordoned off area.
- v. Provide barricade and ask for additional force to control crowd during VIP visit.

12.2.3 Protection of luggage

- i. Protection unclaimed luggages of passengers till these are duly taken over by commercial department for safe custody.
- ii. Unclaimed luggage of passengers should be isolated and stacked coach wise, with proper labeling indicating coach no from which recovered.
- iii. If possible, the cabin number inside the coach should also be indicated.
- iv. All such unclaimed luggage should be protected till they are handed over to claimants or taken over by commercial department.
- v. Unclaimed luggage should be stored in a safe place, preferably part of the same school building which is being used for preserving dead bodies.
- vi. These should be stored in separate rooms coach wise so that it is easy for relatives to identify.

12.2.4 Protection of Railway property

- i. Protect Railway consignments/goods/parcels till these are duly taken over by commercial department and dispatched to nearest station for proper disposal.
- ii. Guard perishables goods till they are auctioned off at site or till they are dispatched to nearest station or being auctioned.
- iii. RMS consignments on the train should be shifted to school building for safe custody till Postal Authorities come and take over the custody.

- iv. Provide security for the cash withdrawn for payment of ex-gratia by the commercial department.
- v. Preserve all clues and evidences regarding probable cause of the accident and ensure that these do not get disturbed.
- vi. Ensure that no Railway staff tampers with any track fittings, or rolling stock parts.
- vii. Anybody found moving under suspicious circumstances should be questioned.
- viii. No Railway staff should be allowed to move about near the accident site with loose or piece meal equipment.

12.2.5 General

- i. RPF personnel should respond to any call for assistance to rescue victims and transport them to the nearest hospital.
- ii. Information updated by field personnel at the scene of incident to the RPF functionary in the UCC, giving the latest situation.

12.3 DUTIES OF ELECTRICAL DEPARTMENT

12.3.1 For discharging the dual responsibility of providing illumination at site and managing the OHE, 2 separate units will be formed at each end of the accident site consisting of 'General branch' officers & staff and TRD officers & staff.

12.3.2 Once 4ARMVs, 2ARTs and 2 BD specials have arrived at the accident site from both ends, normally no more electrical equipment will be required from anywhere else. The main work will then consist of using of these resources effectively and efficiently.

12.3.3 Different teams and groups will be formed for discharging various duties of the Electrical department. Each team should consist of 4-6 members and each group should consist of 3-5 teams, depending upon requirement.

12.3.4 Site illumination

One Sr. Supervisor should be in-charge of each group working at the site. All 'General Services' teams at each end of the accident site, would function under directions of one AEE(G).

- i. Senior most Electrical Officer at site would make a quick assessment of the electrical requirement of the site.
- ii. This would be done keeping in mind the geographical spread of the site, the size of UCC, LCCs, CAC and any other requirement as necessary.
- iii. Thereafter, he would assess the quantity of electrical fittings and generator sets available in ARMVs and ARTs.
- iv. In order to set up adequate illumination facilities, all generator sets and lighting fixtures available in ARMVs and ARTs would be used.
- v. First priority for lighting would be the accident site along the track where rescue, relief and restoration work is going on.
- vi. Next priority would be given to lighting up of UCC, CAC and LCCs.
- vii. Additional requirements of generators and lighting fixtures, if any, should be called for immediately from other Railway sources within the division, well in time.
- viii. In case divisional sources are inadequate, then sources from other divisions should be tapped.
- ix. Officer at site should hire additional generator sets, lighting fixtures and arrange fuel etc. as required, from non-Railway sources available nearby. List of such sources are given in Divisional DM Plans.
- x. Once generators and lighting fixtures have been set up, efforts should be made to tap local power supply from some nearby sources, if available.

- xi.** In case power supply is not available nearby and illumination has to continue on generator supply, then sufficient quantity of petrol and diesel should be procured and kept in stock.

12.3.5 OHE at site

One Sr. Supervisor should be in-charge of each group working at the site. All TRD teams at each end of the accident site, would function under directions of one AEE/TRD.

- i.** Immediately OHE should be switched off. In case OHE is to be brought down, the same should be done immediately so that working of crane does not get held up on account of OHE.
- ii.** In case slewing of OHE suffices for some sections, then the same should be done quickly to facilitate crane operation.
- iii.** Sr. DEE/TRD shall arrange movement of 6 Tower Wagons along with men and material from adjacent depots from both sides of accident site.
- iv.** In case more tower wagons are required these should also be requisitioned from other depots along with men and material.
- v.** An assessment should also be made of the extent of damage to OHE masts, and other equipment.
- vi.** Additional requirement of materials, if any should be called for immediately from other Railway sources within the division.
- vii.** In case divisional sources are inadequate, then sources from other divisions should be tapped.
- viii.** In case other divisional sources are also inadequate, then sources from other zones should be tapped.
- ix.** Availability of OHE masts is a long lead item. Requirement of masts should be quickly worked out so that these can be moved immediately.
- x.** Ensure temporary portals are erected without delay.
- xi.** In case damage to OHE is extensive and a wiring train is considered to be more efficient, then the same should be arranged for from other zone after discussion with RE organisation.
- xii.** Ensure that the section is earthed before staff starts working near OHE.
- xiii.** OHE should not be charged until all staff, tower wagons, cranes etc. have cleared the block section.

12.4 DUTIES OF SIGNAL & TELECOMMUNICATION DEPARTMENT

Duties of S&T department consists of providing sufficient and reliable means of communication at the accident site and other work centers.

12.4.1 Types of communication facilities

For this purpose following types of communication facilities should be provided:

- i.** Satellite telephones.
- ii.** BSNL telephones.
- iii.** Mobile, in case the area is under mobile coverage.
- iv.** Walkie – Talkie sets.
- v.** Railway telephones &
- vi.** PA system.

12.4.2 Locations

These should be provided at following locations:

- i.** UCC
- iv.** Hospitals
- ii.** CAC
- v.** Mortuary

- iii. LCCs
- vi. Any other locations as decided.

12.4.3 Numbers to be provided

- i. Satellite telephones – 05 to be provided. 02 in UCC, 01 in CAC, 02 passengers.
- ii. BSNL telephones – 02 in UCC, 03 in CAC and 01 in each hospital.
- iii. Mobiles – as many as can be arranged in UCC and CAC. In addition to above at least 02 in each hospital.
- iv. Walkie – Talkie sets – each functionary should be covered.
- v. One 25W VHF set shall also be provided in UCC.
- vi. One 25W VHF set shall be installed in a road vehicle so that mobile communication can be set up, upto a range of about 10 Km.
- vii. Railway telephones – each functionary in UCC, CAC and LCCs should be covered.
- viii. In RE area emergency sockets will be utilized for extending communication to the accident site and in non-RE area where 06 Quad cable is available the same will be utilized for providing communication.
- ix. PA system – at UCC, CAC and LCCs.

12.4.4 Public Address System

- i. Provide adequate number of PA system, Hand sets.
- ii. PA system should be provided in UCC, CAC and LCCs. These are to be used for communicating with passengers and for giving directions to Railway staff.
- iii. For this purpose, additional PA systems may become necessary depending upon the requirements at accident site.
- iv. Mega mikes available in ART will also be utilized.
- v. Volume of PA system in UCC, CAC and LCCs should be so adjusted that announcements made over one of them reaches only those areas which are under its jurisdiction. It should not interfere with announcements being made by other PA systems.

12.4.5 General

- i. Ensure availability of adequate copies of Disaster Management telephone directory containing important telephone numbers.
- ii. Adequate number of Mobile Battery Chargers should be provided in UCC, CAC and LCCs along with number of spare batteries.

12.5 DUTIES OF ENGINEERING DEPARTMENT

Some duties have been detailed in Chapter 11 Section 8. Additional duties are as follows:

- 12.5.1** AEN/SEE(P.Way/Works) shall collect men, rescue tools and arrive at site by fastest means possible.
- 12.5.2** Set up UCC, CAC and LCCs at the accident site.
- 12.5.3** Assist Medical/Mechanical Department in rescue work.
- 12.5.4** If necessary contact Army/Navy/Air Base and collect required personnel like Divers for rescue operation.
- 12.5.5** If necessary hire Private Road Cranes, bulldozers, Earth movers etc.
- 12.5.6** 02 Engineering specials, one from each end, carrying engineering material and gangmen from the section.
- 12.5.7** Additional requirements of track materials, if any, should be called for immediately from other Railway sources within the division, well in time.
- 12.5.8** In case divisional sources are inadequate, then sources from other divisions should be tapped.

- 12.5.9** 500 additional workmen are required who are to be moved from adjoining Divisions/Zones.
- 12.5.10** Each such Division sending assistance should move 250 men along with 5 artisans and 5 PWs.
- 12.5.11** One DEN and one AEN each should also move to the site of accident from each such division.
- 12.5.12** Plan for coordinated working and movement of track machine for quick restoration in consultation with TRD and operating officials.

12.6 DUTIES OF PERSONAL DEPARTMENT

- 12.6.1** Sr DPO shall proceed to accident site along with all Welfare Inspectors.
- 12.6.2** Assist Doctors in collecting details of injured/dead and shifting them to hospitals.
- 12.6.3** WIs shall be available round the clock in shift duty to look after the welfare of injured persons in each hospital.
- 12.6.4** Issue complementary return journey passes to relatives for escorting injured and taking them back home.
- 12.6.5** Manning of personnel branch counters in CAC and discharge duties listed out for those counters.

12.7 DUTIES OF ACCOUNTS DEPARTMENT

- 12.7.1** Making available sufficient amount of cash for meeting emergent expenses.
- 12.7.2** Opening of current account in a local bank and getting permission for over draft facilities so that large amount of cash is not required to be carried from far off stations.
- 12.7.3** Issue of cheques for making of enhanced ex-gratia payments, if so announced at accident site by Hon'ble MR.

12.8 STAFF MATTERS

- 12.8.1** First problem is of identifying Railway personnel.
- 12.8.2** They should be supplied with coloured armbands to be kept in ARMVs/ARTs.
- 12.8.3** Adequate number of armbands, gloves and facemasks should also be provided in the ARMVs/ARTs.
- 12.8.4** Second problem is of communicating with Railway personnel in the crowd.
- 12.8.5** Microphones/loud hailer provided in ARMVs/ARTs should be used both for crowd control as also for giving instructions to Railway personnel working at accident site.
- 12.8.6** Once initial rescue operations have got underway, arrangements have to be made for water and food for Railway staff working at site. Contract arrangement should be made for supply of food.
- 12.8.7** Spare coaches should be stabled at nearby stations where watering and charging facilities are available for stay of staff.

(Chapter – 13)

PASSENGER MANAGEMENT

13.1 GENERAL

- 13.1.1** Assistance to passengers and their relatives is of utmost importance in relieving them some of their misery.
- 13.1.2** Injured passengers and their relatives are to be treated with utmost courtesy, concern and sympathy to alleviate their trauma and discomfort.
- 13.1.3** For dealing with relatives arriving from far long corners of the country, staff fluent in the local language of the place from where the train originated should be used as interpreters.

- 13.1.4** Commercial supervisors & WIs should be assigned to talk to injured passengers to ascertain from them whether they wish to call relatives.
- 13.1.5** Injured passengers should thereafter be provided with either mobile or BSNL STD phones in order to enable them to speak to their relatives.

13.2 HOSPITALIZATION OF THE INJURED

- 13.2.1** General policy in case of Railway accidents in which casualties occur is that of rapid evacuation to Railway hospital after rendering immediate and necessary first-aid treatment.
- 13.2.2** In case there are no Railway hospitals nearby, then they are to be admitted in the nearest Govt. hospitals.
- 13.2.3** In following cases, injured may be taken to a Private hospital.
- i.** When there is no Railway or govt. hospital available within a radius of say 8 kms, of the site of accident or.
 - ii.** When the attending doctor certifies that the treatment in private hospital is necessary in the interest of the patient.
 - iii.** Except where Railway doctor certified, such injured passenger should normally be eligible to the lowest class of accommodation in private hospitals where different scales are available.
 - iv.** Where the family of the injured person desires to be provided with a higher class accommodation, the family should give in writing to pay the extra cost involved directly to hospital authorities.
- 13.2.4** For this purpose, each division should make out a working arrangement with such private hospitals as may be necessary in areas served by them so that in an emergency injury cases can be referred to hospitals concerned without loss of time.
- 13.2.5** To facilitate matters and to avoid misunderstandings, CMD should draw up a list of such private hospitals bearing in mind Railway and non-Railway hospitals in the vicinity.
- 13.2.6** Power has been delegated to MS/ARMV-in-charge for settlement of charges to be paid for such cases for each class of accommodation.
- 13.2.7** Payments to private hospitals under this para can be arranged locally by the Railways and Ministry of Railways approval is not necessary.
(Extract of Para 701(1) & Para 712 of Chapter VII of IRMM and Para 1421 of Indian Railway Establishment manual and M.O.Rs letter No. MH59/MES/ 96/medical alt. 18.12.1959).
- 13.2.8** When injured are admitted in non-Railway hospitals, Railway doctors should be deputed to these hospitals to render necessary assistance, including supply of medicines as required which may not be available in these hospitals.
- 13.2.9** They should also carefully monitor the condition of injured and maintain an updated list with all details.
- 13.2.10** If more than one hospital is involved, apart from deputing doctors to individual hospitals, a Railway doctor should also be deputed to coordinate and maintain centralized updated position.

13.3 FACILITIES TO BE MADE AVAILABLE IN HOSPITAL

- 13.3.1** There should be a separate reception counter manned by commercial supervisor or WI at the entry to the hospital for dealing with relatives of patients who arrive.
- 13.3.2** A chart should be displayed at this reception counter indicating ward nos. where accident patients are admitted along with their names, coach no wise.
- 13.3.3** At the entry to each such ward, a second list should display the name of the patient, coach no and the bed no inside the ward.

- 13.3.4** Commercial staff and WI on duty at that hospital should carry a card indicating the name, address and telephone no of relatives as given by the patient, and whether they have been informed or not.
- 13.3.5** Arrangements should be made to inform the next of kin or a relative or friend of the deceased, in case identity of the person involved in accident becomes known.
- 13.3.6** As each relative arrives his name should be marked in the list against the passenger's name.
- 13.3.7** Reception counter should be provided with BSNL telephone with STD facility.
- 13.3.8** There should be 02 mobile telephones for being taken to patients inside wards for making outgoing calls.
- 13.3.9** Complete medical care of all passengers including payment of medical bills till their final discharge should be provided.

13.4 COMMUNICATION

- 13.4.1** STD Telephones/Mobile phones should be made available to passengers to communicate with their relatives.
- 13.4.2** Railway Telephones available at adjoining Stations/Cabins/Gates shall be extended to the accident site.
- 13.4.3** In case of passenger train accident mobile phones which will be kept at ART/ARME will be used by the stranded passenger free of charge.

13.5 ARRIVAL OF THE RELATIVES.

- i). After a few hours the relatives of the dead/injure will start arriving.
- ii). Adequate number of 'Display Board' should be available in the ARME/ART.
- iii). They should be placed at a suitable place to lead the relatives to the CAC.
- iv). Loud speaker should be used to direct the relatives to CAC.
- v). Different counter should be opened to assist them as per Para 13.7.

13.6 CARE FOR THE RELATIVES.

- i). Welfare inspector(WI)/Commercial Inspector(CI) should be available in the CAC to take the relatives to the hospital where the injured are admitted.
- ii). Name and address should be collected from the 'Reservation Chart' after arrival of the relatives.
- iii). If the injured passenger is required to be admitted in the hospital, WI/CI should accompany them.
- iv). Vehicles to be hired to shift the injure/unconscious/relatives to hospital/ mortuary.
- v). WI/CI must be present there till their relatives meet the injure/dead.
- vi). WI/CI should assist them to fill up all the formalities.
- vii). Shelters and readymade food should be arranged for the relatives of the dead/injure.
- viii). If required the passengers to be shifted to hotel/dharmshala on rent.

13.7 SINGLE WINDOW CLEARANCE

- 13.7.1** CAC should have provision of single window clearance for all legal formalities & multiplicity of paper work.
- 13.7.2** Counters provided in CAC should have facilities for following items in the given sequence as indicated in **Annexure – 3**.
- 13.7.3** Reservation chart, for locating the name.
- 13.7.4** List of dead and injured along with name of hospital. The name of passengers involved should be checked up from the list of dead or injured, if available, and their current status informed.
- 13.7.5** Counter for providing commercial supervisor or WI as escort along with a vehicle, for accompanying the relative and going around to various hospitals or mortuary.

- 13.7.6 Railway doctor for issue of Medical Death Certificate.
- 13.7.7 Govt. doctor for issue of Post Mortem Clearance, in case the same is necessary.
- 13.7.8 Municipality official for issue of Official Death Certificate.
- 13.7.9 Local police for issue of authority for handing over of dead body.
- 13.7.10 Claims counter – Payment of ex-gratia and issue of Claims Compensation Form.
- 13.7.11 Counter for helping performance of last rites in case relatives decide to cremate the body there itself.
- 13.7.12 Pass counter for issue of return journey pass.

13.8 PERFORMANCE OF LAST RITES

- 13.8.1 In many cases relatives decide to perform last rites at the place of accident itself instead of taking the body back to their native place.
- 13.8.2 In such cases Railways should render appropriate assistance to relatives for performing last rites.
- 13.8.3 Information about performance of last rites of the deceased would be conveyed to the relatives & transport will be provided for carrying the body.
- 13.8.4 Assistance will be rendered by WI and Commercial supervisor.

(Chapter – 14) **MEDIA MANAGEMENT**

14.1 OBJECTIVE

- 14.1.1 To post the public with factual information pertaining to the accident.
- 14.1.2 To convey certain information which is of use to passengers.
- 14.1.3 To convey specific information which is of use to relatives of dead and injured passengers.
- 14.1.4 To create a positive public opinion.
- 14.1.5 To create a healthy relationship with the press and electronic media.

14.2 DUTIES OF PUBLIC RELATION ORGANISATION (PRO)

- 14.2.1 CPRO and his team will collect whatsoever information is available from Divisional Control Office and first information would be released to the media within 60 minutes of intimation of the accident.
- 14.2.2 The information shall include telephone numbers of Help line Enquiry Booths.
- 14.2.3 CPRO, PRO and the entire PR organization should proceed to the accident site in the 1st Special train carrying GM and other HQ Officers.
- 14.2.4 Number of photographers with digital cameras and video photographers should also be taken along to the accident site.
- 14.2.5 Both CPRO and PRO will be available in the UCC during the day.
- 14.2.6 Responsible PR supervisors should be deputed during night shift for interacting with the media, if necessary.
- 14.2.7 CPRO will organize Press briefings at fixed timings as detailed in Section 6 below.
- 14.2.8 PR organization shall monitor various important media channels to keep track of media reporting. Suitable corrections/clarifications may also be issued, if required.

14.3 SPOKES PERSON

- 14.3.1 Only GM, DRM, CPRO, Chief Emergency Officer in HQ Emergency Cell and Divisional Emergency Officer in Divisional Emergency Cell are competent to interact or give interview to press and electronic media.

- 14.3.2** Apart from the above, any other Officer authorized by GM is competent to interact or give interview to press and electronic media.
- 14.3.3** Railway's endeavor shall be to ensure that only factually correct and confirmed information is relayed to the media.
- 14.3.4** No inflated or exaggerated version of any fact should be relayed to the media.
- 14.3.5** Unconfirmed news having no authentic source shall not be relayed to media.
- 14.3.6** No Railway men shall express or voice any criticism, or express his personal opinion or views about the accident, at any point of time.

14.4 INFORMATION TO BE RELAYED TO PRESS AND ELECTRONIC MEDIA

Information to be given to media can be broadly segregated into following categories:




14.4.1 Accident

- i.** Nature of the accident – date, time, place, exact location, train no, number of coaches involved etc.
- ii.** Details of how the accident most probably occurred.
- iii.** Prima-facie cause of the accident will be relayed to Media only with the approval of GM.
- iv.** Sabotage, even if suspected, will not be relayed to Media, without approval of Railway Board.
- v.** Periodic reports regarding progress of rescue and relief work.
- vi.** Expected date and time of restoration.

14.4.2 Un-injured passengers

- i.** Steps being taken to provide beverages, refreshments and first aid treatment for unaffected passengers.
- ii.** Steps being taken by Railways for clearance of unaffected passengers.
- iii.** Expected time of departure of front portion of accident involved train.
- iv.** Its likely time of arrival at the destination.
- v.** Expected time of departure of rear portion of accident involved train.
- vi.** Its diverted route and likely time of arrival at the destination.
- vii.** In case empty coaching rakes have been arranged, then details of the same.
- viii.** Road bridging being done, labourers provided for transshipment of luggage.

14.4.3 Dead and Injured passengers

- i.** Steps taken by Railways to render immediate medical attention.
- ii.** No. of injured passengers rescued.
- iii.** Breakup of their injuries:
 -  Grievous,
 -  Simple,
 -  Trivial.
- iv.** Names of hospitals where injured are being treated.
- v.** Approximately how many patients have been admitted in each of these hospitals.
- vi.** Names of injured passengers.
- vii.** Communication facilities like Cell phones, STD phones provided at these hospitals.
- viii.** Payment of ex-gratia.
- ix.** Facilities offered to relatives of victims, including free pass for journeys.
- x.** Special trains being run for bringing relatives of dead and injured.
- xi.** Number of dead bodies recovered and number of bodies identified.

14.4.4 Help line Enquiry Booths

- i. Setting up of Help line Enquiry Booths.
- ii. Details of Help line enquiry Booths as follows:
 - ☞ Stations where these have been opened.
 - ☞ Telephone Nos.
 - ☞ FAX Nos.
 - ☞ Interest address of ECoR on the Rail net website

14.4.5 Train Services

- i. Details of train operation with regard to diversion, cancellation etc.
- ii. Running of special trains for carrying relatives to the site of accident.
- iii. Expected departure time of relatives special from the originating stations.
- iv. Refund being granted in Help line Enquiry Booths for passengers whose journey have been interrupted

14.5 CASUALTY FIGURES

- 14.5.1** In all accidents, as long as rescue and relief work continues, there is always a difference between casualty figures given by Railways and casualty figures quoted by the Media.
- 14.5.2** The reason for this difference is that Railways give casualty figures based on actual number of dead bodies recovered, whereas Media estimates casualty figures based on the damage visible and likely final tally.
- 14.5.3** During Press Briefings, this point should be clarified that at that point of time so many bodies have been recovered.
- 14.5.4** However, it should also be made clear that casualty figures are likely to go up since rescue work is still continuing.
- 14.5.5** Assessment regarding likely number of deaths and injuries may also be made if considered necessary. Such assessment should be based on:
- i. Total number of coaches involved.
 - ii. Number of coaches searched.
 - iii. Number of coaches yet to be dealt with.
- 14.5.6** Particular reference should also be made to coaches that are crushed or that have climbed on top, and have not yet been searched.
- 14.5.7** For example, the media can be informed that as of 13 hrs., 02 coaches have been dealt with and so many numbers of bodies have been recovered. 08 more coaches are still to be searched and casualties are likely to go up.

14.6 PRESS BRIEFINGS AT ACCIDENT SITE

- 14.6.1** CPRO on arrival at accident site shall collect factual information from the OIC site and relay the same to Media personnel at site and also to Divisional Emergency Officer in the Divisional Emergency Cell. Thus, an on line communication channel will be established to keep media informed of all important details.
- 14.6.2** The first Press briefing will be held within one hour of CPRO's arrival at site. Subsequent briefings will be held according to the schedule given below.
- 14.6.3** CPRO or PRO should be available in the UCC during Press Briefings.
- 14.6.4** There should be fixed time for Press Briefings so that there will be no confusion regarding different versions given to separate channels at various points of time.
- 14.6.5** Simultaneous Press Briefings should be held at accident site as also at Hq. Emergency Cell and Divisional Emergency Cell as per fixed timings given below so that the same version is given by all concerned.

14.6.6 Information to be given to the media will be of 30 minutes earlier. For example the media briefing held at 7:30 hrs. will convey all information as at 7:00 hrs on that date.

14.6.7 On the first two days, there should be 3 media briefings per day. These should be scheduled at the following timings :

i.	7:30 hrs,	ii.	13.30 hrs,	iii.	19.30 hrs
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14.6.8 Thereafter, as per condition of the site, media briefing to be done.

14.6.9 All media releases will be up loaded on the East Coast Railway website, and new page opened to give specific information with regard to the accident. The priority of information released to various media will be as under:

i. TV Channels.

ii. Agencies UNI, PTI

iii. Print Media.

14.6.10 Convenience and conveyance of media shall be taken care of by PR personnel with assistance of Commercial representatives at site. Media persons should be conveyed to hospitals where injured are being treated.

14.6.11 Commercial department should ensure that list of passengers who traveled by the accident involved train along with list of dead and injured in the accident reach PR officials at the earliest.

14.6.12 (a) On the first two days, there should be 6 media briefings per day. These should be scheduled at the following timings:

- 7/30 Hrs.

- 10/30 hrs.

- 13/30 hrs.

- 16/30 hrs.

- 19/30 hrs.

- 22/30 hrs.

(b) Thereafter, for the remaining days there should be 3 media briefings per day.

These should be scheduled at the following timings:

- 7/30 hrs.

- 13/30 hrs.

- 19/30 hrs.

FIRE AND OTHER ACCIDENTS MANAGEMENT

Fire on a running train is more catastrophic than on a stationary one, since fanning by wind helps spread the fire to other coaches. Moreover, passengers sometimes jump out of a running train on fire resulting in increased casualties.

In case of fire in running train, every Railway staff available on the train or at the site shall immediately try and stop the train and plunge into action to save lives and property.

15.1 FOLLOWING SOURCES ARE MAIN CAUSES OF FIRE ON TRAINS

- 15.1.1** Carrying stoves, Sigris, gas cylinders, Kerosene oil, Petrol, Fire works etc. in passenger compartments.
- 15.1.2** Making fire/using fire near paper, wood, petrol or such other inflammable articles.
- 15.1.3** Lighted match sticks, cigarette ends carelessly thrown.
- 15.1.4** Short circuit in electrical wirings.
- 15.1.5** Using naked light during authority taken delivery to the Loco Pilot, shunting of inflammable loads, sealing of inflammable wagons.
- 15.1.6** Use of open fire, smoking near gas/petrol tank.
- 15.1.7** All Railway staff and passengers should take all possible precautions to avoid any of the above mistakes so that possibility of fire breaking out can be minimized.

15.2 ACTION TO BE TAKEN IN CASE OF FIRE ON TRAIN

- 15.2.1** First and foremost immediately summon the fire brigade.
- 15.2.2** Secondly, if you smell gas or vapour, or even in case of excessive smoke, hold a wet cloth loosely over your nose & mouth and breath through it in as normal a manner as possible.
- 15.2.3 In case of fire in a passenger train**
 - i.** In case of the fire pull the Alarm Chain and stop the train immediately.
 - ii.** Try and put out the fire before it becomes a big blaze by using either water or blankets etc.
 - iii.** More people expire due to suffocation from smoke rather than due to actual burning.
 - iv.** Advise passengers to take a cloth, wet it in their drinking water and cover their nostrils.
 - v.** Instruct passengers to go to the other end of the coach which is away from the fire and if possible cross over to the next coach through the vestibule.
 - vi.** Insist that passengers should save themselves first and not to bother about their luggage which can be retrieved later on.
 - vii.** Make sure that no passenger lies down on the floor.
 - viii.** After train has stopped, passengers should come down from the coach immediately.
 - ix.** Building up confidence of injured passengers by suitable advice is of great importance.
 - x.** Advise them not to get panic.
 - xi.** Ascertain the type of fire (viz. dry, all gaseous & electric) and use the right type of extinguishers.
 - xii.** Isolate the burning vehicle from other vehicle by uncoupling.
 - xiii.** Train to be protected by Loco Pilot and guard at both ends according to the provision of G&SR 6.03.
 - xiv.** Report it to the nearest Station/Control/Fire station.
- 15.2.4 In the event of fire on an Electric engine/EMU**

- i. Loco Pilot shall immediately switch off the circuit and lower the pantograph. The train shall then be brought to a stop at once.
- ii. After disconnecting the electric supply to affected circuits, Loco Pilot shall take necessary action to put out the fire.
- iii. If fire cannot be extinguished by the above means Loco Pilot shall advise TPC through emergency telephone to arrange for OHE of the affected section to be switched off.
- iv. The Guard and any other staff available shall render all possible assistance to the Loco Pilot in putting out the fire.
- v. Ordinary fire extinguishers or water from a hose pipe shall on no account be used to extinguish fire on live wire or electrical equipment.
- vi. If services of fire brigade are required, fire brigade shall not be allowed to commence operation until all electrical equipments in the vicinity of the fire have been made dead/switch off.

15.2.5 In the event of a fire on a Diesel Engine/DMU stock

- i. The Loco Pilot/Motorman shall immediately switch off the circuit breaker and shut down the engine. The train shall be brought to stop at once.
- ii. The Guard shall give all possible assistance to the Loco Pilot in putting out the fire.
- iii. Fire extinguishers of approved type shall be provided on each Diesel/Electric locomotive and motor coach of DMU when these are turned out from the home shed. The Foreman/CWS in charge of the shed shall inspect the fire extinguishers and ensure that these are in good working condition.

15.2.6 When a person is on fire

- i. Approach him holding the nearest available wrap in front of you.
- ii. Wrap it round him.
- iii. Lay him flat and smother the flames.
- iv. He may roll on the floor, smothering the flames.
- v. On no account should he rush out in the open air which will result in more hurring tendency.
- vi. Call for assistance.

15.2.7 Fire caused by Petrol or other inflammable liquids, acids or gases

- i. Segregate the affected wagon, coach or area involved.
- ii. On opening a wagon do not enter it immediately. You would thus, avoid fumes, which may be dangerous.
- iii. Use foam type fire extinguishers, sand and not water or soda acid type fire extinguishers.
- iv. Do not bring naked lights near the site of fire.
- v. Warn people living in the surrounding areas within one Km. Radius.
- vi. Stay away from ends of tanks, as tanks normally burst from the ends.
- vii. Cool tanks that are exposed to flames should be sprayed with water from the sides only after the fire is put out.
- viii. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tank due to fire.
- ix. Inform the nearest Fire Stations intimating that the fire has been caused by Petrol or any other inflammable liquids, acids or gases.

15.2.8 In case of fire due to Explosives/Inflammables/Dangerous Goods

- i. Extinguish by closing the valve or isolating LPG feed to fire by other suitable controls.
- ii. Following steps may be taken if no undue risk is involved.

- ☞ Move unheated cylinders to a safe place after ensuring closing of valves.
- ☞ Cool the hot cylinders by spraying water from a safe position. The person directing the spray should take up a position where he would be protected from possible explosion.
- iii. If cylinder containing inflammable/toxic gas develops leak during transportation, remove it to an isolated open place away from any source of ignition and advise the filler or consignor as required.
- iv. Inform the Chief Controller of Explosives by fax/telephone.
- v. Inform Officer in charge of nearest police station.
- vi. Inform departmental Officers concerned.
- vii. Pending the visit of the Chief Controller of Explosives/his representative, the wreckage and debris shall be left undisturbed except to save lives.
- viii. After getting information from the Chief Controller of Explosives that he does not wish to have any further investigation, the restoration work may be commenced.

15.3 FIRE FIGHTING

15.3.1 Dry chemical powder type fire extinguisher (DCP)

These types are suitable for tackling petroleum, gas, electrical fire and controlling fires of textile fibers. Sodium based chemical powder is to be used on a fire which undergo chemical reaction.

15.3.2 How to Use

- i. Carry to the place of fire and keep it up right.
- ii. Remove the safety clip.
- iii. Strike the knob located in the cap.
- iv. Sealing disk of the cartridge gets broken and allows carbon dioxide gas to escape to the main shell and powder is pushed out.
- v. Direct the stem of the powder at the base of the flame.
- vi. For effective result stand at about 1.5 to 2.5 m. from the seat of the fire.
- vii. Move forward with moving the nozzle rapidly from side to side in sweeping motion.
- viii. When using on outdoor fires operate from the up wind side for effective spray.

15.3.3 Suspicious substance in Railway premises

- i. Clear and isolate the contaminated area. Do not touch or disturb anything.
- ii. Call Police/Fire service/Bomb squad.
- iii. Wash your hands with soap and water.
- iv. Identify individuals who may have been exposed to the material.
- v. Do not leave premises until disposed of by authorities.

15.3.4 Bomb threat/Blast

Person receiving call regarding bomb threat should :

- i. Attempt to gain as much information as possible from the caller like type of device, time set, location, reason/purpose of the act, dialect mannerism and identity of the caller.
- ii. Inform and alert the disaster management team (Bomb detection squad).
- iii. Alert police, fire brigade and explosive department.
- iv. Pass on the information to all departments concerned.
- v. Take initiative for evacuation of all persons from premises.
- vi. Person noticing a bomb like object, should bring it to the notice of the nearest available Officer.
- vii. Inform GRP, RPF, Bomb detection squad.
- viii. Ensure all persons are away from the spot and avoid unnecessary crowding near the area.

- ix. Inform control to take further steps for regulating train services.
- x. Wait for clearance from the police department to restore normal working.
- xi. Utilize “Caller ID” facility if provided to trace the caller.

15.3.5 Radiation Emergency

Personal injury involving radioactive material contamination

- i. Render first aid immediately for serious injuries, as trained.
- ii. Call bomb squad, fire station & police
- iii. If possible, without causing harm to the victim, monitor the injured, remove contaminated clothing and gross personal contamination.
- iv. Radioactive contamination of personnel.
- v. Remove and bag all contaminated clothing.
- vi. Skin contamination should be cleaned using mild soap and tepid water. Use portable survey meter to monitor for remaining contamination. If not free of contamination, re-wash and re-survey.

15.3.6 What to do upon receipt of suspicious letter/package

- i. Handle with care.
- ii. Don't shake or bump.
- iii. Isolate and look for indicators.
- iv. Don't , smell, or taste.
- v. Treat it as suspect.
- vi. Call Police/Fire service/Bomb squad.

15.3.7 If parcel is Open and/or threat is identified

For a Bomb :

- i. Evacuate immediately.
- ii. Call Bomb squad /Police/Fire service.

For Radiological :

- i. Limit the exposure – don't handle
- ii. Evacuate the area
- iii. Shield yourself from the object.
- iv. Call police/fire service/bomb squad.

For Biological or chemical :

- i. Isolate – don't handle.
- ii. Call police/fire service/bomb squad.
- iii. Wash your hands with soap and water.

15.4 OTHER ACCIDENTS

15.4.1 Tampering of Railway fittings causing accidents & Placing of foreign particles on track to cause disruption to traffic

- i. A strict vigil should be kept by introduction of special patrolling over the area as and when warranted.
- ii. Some persons to be trained specially and to be drafted for duty over the area if required.

15.5 GENERAL INFORMATION ABOUT FIRE DISASTER OTHER THAN TRAIN

In case of Fire

- Raise an alarm and inform the Fire Brigade on **Telephone No. 101**
- Attack the fire with available equipment, if you can do so without undue risk.

If you hear the Fire Alarm

- Leave the premises by the nearest available exit.
- Close all doors and windows behind you, if nobody are there behind you.
- Report to the person in-charge at the assembly point.

In the interest of Your Own Safety

- You must know the escape routes, how to operate fire alarm and how to use first aid fire fighting equipments.
- Do not use lift as a means of escape.
- Do not shout or run. This tends to cause panic.
- Call the Fire Brigade.
- The services of the Fire Brigade are provided free of cost Dial 101 irrespective of the size of the fire.

Help the Firemen to Help You

- Give way to fire engines & engineers/volunteers to enable them to reach at the incident/site quickly.
- Allow them to use your telephone to communicate with the control room.
- Don't park your cars/truck close to fire hydrants/underground static water tanks.
- Guide firemen to water sources i.e., Tube wells, ponds, static tanks etc. in case of fire.

You should know that

- a. About 600 liters of water flow through a nozzle in a minute.
- b. A water tender carries 4500 liters of water only.
- c. If two nozzles are used to throw water on to the fire. It takes only 4 minutes to empty a water tender.
- d. Hydraulic Platform/turn table ladders can reach to a height of 30m/45m under most favorable operating conditions.
- e. No objection certificate from Fire Service is not a guarantee against the out break of fire.
- f. Availability of fire fighting equipment in the premises do not prevent out break of fire. They help in minimizing the losses due to fire if maintained properly and operated immediately, effectively and efficiently.
- g. **Non-informing to fire service about the fire incident is a cognizable offence.**

15.5.1 Fire is fast

In less than 30 seconds a small flame can get completely out of control and turn into a major fire. It only takes minutes to fill a house by thick black smoke. In minutes, a house can be engulfed in flames. Then there might not be any time to escape.

15.5.2 Fire is hot

A fire's heat alone can kill. Room temperatures in a fire can be 100 degrees at floor level and 600 degrees at eye/head level. Inhaling this super hot air will scorch your lungs. This heat can melt clothes to your skin. In five minutes a room can get so hot that everything in it ignites at once with an explosion.

15.5.3 Fire is dark

Fire starts bright, but quickly produces black smoke and complete darkness.

15.5.4 Fire is deadly

Smoke and toxic gases kill more people than flames do. Fire consumes up the oxygen you need and produces more smoke and poisonous gases that kill human. Breathing even small amounts of smoke and toxic gases can make you drowsy, disoriented and short of breath. The odorless, colorless fume silences you into a deep sleep before the flames reach your door.

15.5.5 Fixed Fire Fighting Equipments :

The Fire Alarm system consists of smoke/heat detectors, hooters, manual call points, and a Fire Monitor Panel.

15.5.6 ***Smoke/Heat Detectors:***

Smoke/Heat detectors are a sensitive instrument used in detecting the initial stages of a fire. It raises an alarm as soon as it comes into contact with smoke/ heat. These detectors should be installed in each room and corridor. They should be fitted in the false ceiling, facing downward.

15.5.7 ***Hooters:***

A hooter creates a loud warning sound to alert members of the staff in the premises as well as neighbours about a fire. Hooters should be installed at the main entrance to the premises and in each zone. They should be fitted at the top of the walls.

15.5.8 ***Manual Call Point :***

A manual call point enables anyone who detects a fire to raise the alarm in case the smoke/heat detectors do not activate the hooter. Anyone who detects a fire should break the glass at the manual control point. This causes the alarm button to come outward and the hooter to turn on. Manual control points should be installed in each zone in the premises. They should be fitted on the wall close to the exit in each zone.

15.5.9 ***Fire Monitor Panel:***

The fire monitor panel shows the broad location of any fire in the premises. It also helps in testing the electronic fire equipment installed at the site. It should be installed close to the main Security Guard post or at a point where it can be seen by most of the members of the staff.

15.5.10 **Three ways to make your workplace a safer place to be:**

- a. Maintenance of Fire fighting equipments: The Fire Prevention & Life Safety Act has been introduced in some states like Maharastra, from the year 2006. The Act defines the duties and responsibilities of the "Occupier/Owner". The law also defines the penalties in case fire fighting system is not maintained properly.
- b. Get Training: It makes business sense to improve fire safety in your workplace. It has always been emphasized on "Production is a must but Safety First" but we seldom practice the same. The basics of fire fighting can be given by our local fire stations.
- c. Fire Risks: The fire risks may have serious implications and should be dealt with quickly and in confidence by trained people only. A "risk to life and property" could include a disregard to fire safety practices, for example, blocked or locked fire exits.

15.5.11 **Fire Safety Plan :**

Multi storied/high rise office buildings should have siren/hooter for fire, which will be sounded after fire's out break. The person who first sees the fire should call loudly for alerting & hinting others near fire to escape and close the door & windows behind them. All personnel should have been trained to operate/switch on the fire alarm/hooter/siren. After hearing the siren of fire, volunteers / firefighters should search for where fire exists. Immediately identify the area of fire and then approach towards fire cautiously. While approaching the fire clear the exit path if found obstructed. Try to extinguish the fire by using available fire extinguisher as per Annexure – 37, as much as possible. Do not use lift during fire disaster. Other than fire fighters every body should go to the "Assigned reporting place" by the "escape / exit path" only, as identified earlier. Electrical connections should be switched off immediately. In-charge should take the attendance of the staff. Keep the approach road clear for fire brigade vehicles so that they could start combating the fire quickly on arrival before it spreads for massive destruction. During the process of combating fire few staff nominated/trained as surveyor should have been deployed to record the constraint/obstruction faced during the fire fighting operation. The HODs/In-charge should jointly organize a meeting to review the fire risk management plan and evacuation plan. Implement / execute recommendations of surveyor of Fire Department and /or building professional before reusing offices for utilisation.

Remember to conduct the mock drills once in a year and escape plan half-yearly. All Electrical Installations/circuits should be certified once in a year in the month of February by inspection and testing as "free from fire danger".

15.6 FIRES-AWARENESS FOR OFFICES

15.6.1 BEFORE :

1. The office must have sufficient exit routes.
2. Identify the fire hazards and where fires might start.
3. Staff to have training in fire safety.
4. Staff to be made aware about the "Do's & Don'ts". Office should have an emergency exit plan.
5. Check the adequacy of fire fighting equipments and its maintenance.
6. Ensure fire escape routes and fire exit doors/ passageways are unobstructed and doors open freely.
7. Have first aid kits.
8. Keep electrical inspection and testing up to date and carry out repairs.
9. Kitchen has to be in secured and safe location only.
10. Impart elementary fire fighting training to Users.
11. **Conduct fire drills once in a year and Escape path drill half-yearly.**
12. Consult with and implement recommendations of the local fire brigade instructions.

15.6.2 DURING :

1. Exit from the office to an assigned open area.
2. Enclose the fire if possible. If not, get outdoors immediately.
3. Execute evacuation plan and practice fire drills procedures.
4. Call the Fire Brigade by dialing " 101 ".
5. Nearest hospital/authority to be alerted.
6. Do not allow any body to create panic.
7. Do not let anyone hide. HODs/In-charges to ensure that nobody is trapped in toilet/indoors.
8. If the room is filled with smoke, ask staff to stay low to the ground during exit.
9. Feel on top of any closed door about fire (hot) before they are to be opened.
10. If the door is hot, use the nearest window or another exit.
11. Staff should go to pre – arranged locations (assigned open area), Dept. HODs / In-charges should take attendance of their staff.
12. Doctors should comfort distressed staff.

13. Do not allow injured staff to leave on their own.

15.6.3 AFTER :

1. DON'T re-enter or permit anyone to enter the office building, unless the fire officials have given permission to enter.
2. HOD/In-charges to confirm that all staff have reached the assigned open area safely.
3. Review the fire risk management plan and evacuation plan.
4. Implement / execute recommendations of surveyor of Fire Department and /or building professional before reusing offices for utilisation.

15.7.1 DOs

- 1- When you know the fire escape first then alert your nearby co-workers by calling loudly for help.
- 2- Switch on the fire hooter/siren to warn everybody if available. On train pull the chain.
- 3- Inform Electrical Break down Office & switch off the electrical circuits.
- 4- Inform Fire station, Ambulance using emergency calls (telephone numbers - Fire -101, Ambulance –102, Police - 100)
- 5- Evacuate the place with all members by warning them.
- 6- Use staircase while evacuating the building.
- 7- Before opening door ensure the heat by touching top portion of the door.
- 8- If door is found to be cool then only open slightly and observe the escaping path.
- 9- If path is clear & being confirmed that there is no fire/smoke then proceed carefully on staircase.
- 10- Use fire extinguishers if available, untrained staff should act as per the instructions over the extinguisher.
- 11- If you are unable to come out side, keep patience & wait till rescue team approaches you.
- 12- Escape out by crawling mode if possible.
- 13- Escape towards the balcony if not on fire.
- 14- Approach towards window if no fire nearer the window & show any sign by waving handkerchief/ shirt etc to attract rescue team.
- 15- If possible shift the gas cylinders to unaffected / safe area.
- 16- Use ISI certified electrical appliances.

15.7.2 Don't

- 1- Don't use lift during fire accident.
- 2- Don't block the passages of escape / staircase.
- 3- Don't plug too many appliances in one socket.
- 4- Don't use damaged cord & avoid temporary connections.
- 5- Don't use non-ISI electrical appliances.

Note : About 50% fires are of electric origin on account of electric short circuit, overheating, overloading, use of non-standard appliances, illegal tapping of electrical wires, improper electrical wiring, carelessness and ignorance etc. 20% of fire are from the cooking elements like LPG gas, kerosene, grease, petroleum products etc. All these can lead to serious fire and fatal accidents, if proper instructions are not followed. Such incidents can be minimized to a great extent if adequate fire precautions are observed. Electrical fires spread rapidly especially in buildings and cause loss of lives and property. It is, therefore, necessary to act fast. Raise an alarm for help. Switch off power supply to de-energise the equipment. Use dry sand, CO₂, dry powder extinguishers in both the cases.

ALWAYS REMEMBER :

“ Fire is a Good Servant, But a Bad Master - Prevent Fire ”

CHAPATER- 16

PREPAREDNESS FOR DISASTER MANAGEMENT

Intensified Inspections and precise training keep the working force in alert condition, which will prevent any eventuality of Disaster in the system. However trained manpower is an essential ingredient of any DM system, mere provision of sophisticated equipment without trained manpower is futile. For handling an unforeseen situation like managing a Disaster, training of all Railway personnel concerned is an inevitable input. To acquire necessary knowledge and skill, all relevant officials should be given periodic training regarding their duties and that of their department

16.1 INSPECTIONS:

Regular Night Footplate Inspection, Ambush checks, Trolley inspections, Tower wagon inspections, Inspection of Bridges, RATs and night patrolling of tracks in the accident prone, vulnerable sections should be intensified to ensure alertness of the concerned staff to eliminate the chances of Disaster. Constant evaluation of the reports should be done converting it to Safety concern at Division level with information to HQ about action taken report for the purpose.

16.2 TRAINING :

16.2.1 Training should be conducted at the following three levels

i. Individual Training

- a.** For enhancing the skill of staff attached to ARMVs & ARTs, etc., supervisors and staff shall be given general training in Disaster Management.
- b.** Special training may be arranged in Extrication, Rescue, Medical relief Rolling stock restoration technique and Civil Defense by departments concerned.
- c.** Officers and supervisors should be trained to acquire special skill in collection of evidence and preservation of clues as Sr.DSOs are made responsible for collection of evidence, preservation of clues, joint reading and joint findings.
- d.** The onboard staffs should be provided DM training with fire fighting training for better management of fire on train incident.

ii. Seminars/Workshops: Seminars should be periodically conducted on DM Plan and Disaster preparedness.

iii. Joint Exercises: Full scale Disaster Management Mock Drill to be conducted as detailed in para 16.5.

16.3 Civil Engineering department:

16.3.1 Identification and retrofitment to major structures of Risk Zones:

3.28 million Kilometers land falls in moderate to high seismic risk Zones. Seismic retrofitment is the modification of existing structures to make them more resistant to seismic activity, ground motion, or soil failure due to earthquake. Seismic performance of structures can be greatly enhanced through proper initial design and subsequent modifications.

A detailed inventory of major infrastructures such as Bridges, highrise buildings & Telecom towers etc., which may be affected in disaster, shall be prepared for retrofitment. If not possible alternative arrangements shall be made and kept in readiness to establish communication facilities easily and quickly after the disaster.

16.3.2 Installation of Anemometers :

These are the devices used for measuring wind speed at specified height from the ground level. The anemometers should be installed by the Engineering Dept. at strategic stations along the East-Coast route.

16.3.3 Monitoring Quality of constructions:

Engineering department shall monitor the quality of new constructions and repairing works as per the technical guidelines of quality control for all vulnerable areas to natural disasters.

16.4 Mechanical Department:

Mechanical department shall keep ARTs SPART, ARMES/ARMVs/ SPARMV always ready for ordering out at any time. 18 overaged tank wagons suitable for carrying drinking water should be identified and made available at VSKP, KUR & SBP (@ 6 x 3) for loading and movement of drinking water.

16.5 Safety Department:

Disaster Management essentially necessitates a state of preparedness under all circumstances and the efficacy of arrangements therein can be assessed only by conducting periodical full-scale mock drills. Safety Department should ensure regular practice through mock drills and review the calibration of equipments.

16.5.3 Objective of the full scale mock drill would be to:

- i. Gauge the preparedness of DM system including detailed planning and keeping of all equipment in good fettle.
- ii. Integrate the operational response to measure overall performance and the exercise.
- iii. Measure performance with regard to accident restoration.
- iv. On a Division, the first mock drill should be conducted within 03 months of issue of the Zonal DM Plan.
- v. On a Division, the second mock drill should be conducted 03 months after the first one, in order to correct all shortcomings noticed during the first mock drill.
- vi. ***Each division will conduct mock drill once in a year.***
- vii. ***A full scale joint exercise mock drill with nearest NDRF and ODRAF shall be conducted once in every 2 years after the new DRM takes over.***
- viii. It should be conducted during the day and in a branch line section.
- ix. 06 hrs traffic block shall be taken and the ARMV/ART run out to the accident site.
- x. UCC and CAC should be set up and each department will post their functionaries in the Control Office as also in UCC and CAC.
- xi. All facilities should be provided in UCC and CAC by departments concerned.

16.5.4 During these full scale mock drill, following aspects shall be closely watched

- i. Turning out of ARMV/ART within the prescribed time.
- ii. Speed of the specials.
- iii. Assembly of staff.
- iv. Handling of HRDs, HREs and other rescue equipments in ART & ARMV.
- v. Logging of events.
- vi. Functioning of field telephones and communication network.
- vii. Functioning of generator sets, lighting equipments.
- viii. Preparedness of first-aiders and availability of medical equipment.
- ix. Preparedness of commercial department to mobilize adequate manpower.

On completion of the drill, a detailed report shall be prepared in detail. Evaluation of the report should be done for deficiencies noticed, corrective measures initiated and improvements required. A copy of the drill is to be sent to GM and CSO.

(CHAPTER – 17)
CYCLONE MANAGEMENT

17.0 SCOPE

The coastal Divisions of Indian Railway come under the influence of South West monsoons and are situated along the Bay of Bengal. A number of sections along the East Coast are prone to storms, cyclones and heavy intensity of rainfall, which affect the safety of traveling public and also result in disruption to traffic and communication.

17.1 DEFINITION & CLASSIFICATION OF CYCLONES

The following are the definitions of the terms and meaning of abbreviations used in this manual -

17.1.1 India Meteorological Department (I.M.D) : It is the department under Govt. of India responsible for, inter-alia, issue of weather warnings.

Since pre monsoon cyclone season of 1999, IMD has introduced a 4-stage warning system to issue cyclone warnings.

- (i). **Pre-Cyclone Watch** – Issued when a depression forms over the Bay of Bengal irrespective of distance from the coast and is likely to affect Indian coast in future. The pre-cyclone watch is issued in advance at least 72 hrs in advance of the commencement of adverse weather. It is issued at least once in a day.
- (ii). **Cyclone alert** – Issued at least 48 hrs before commencement of the bad weather when the cyclone is located beyond 500 KM from the coast.
- (iii). **Cyclone warning** – Issued at least 24 hrs before commencement of the bad weather when the cyclone is located within 500 KM from the coast.
- (iv). **Post landfall look out** – Issued at least 12 hrs before the cyclone landfall, when the cyclone is located within 200 KM from the coast.

17.1.2 Regional Meteorological Centers (RMC) : These are the centers under the administrative control of the India Meteorological Department, who directly issue the weather warning telegrams on the basis of forecasts. On ECoR system, Regional Meteorological Centres are situated at Bhubaneswar and Visakhapatnam.

17.1.3 Cyclone Warning Centres (C.W.C) : It is a special establishment established in 1986 under the India Meteorological Department located at Visakhapatnam. It specializes in forecasting of development, movement and progress of cyclone on the Bay of Bengal. It is the main source to provide information related to cyclone not only to the Railway and such other organisations, but also to the Regional Meteorological Centers under the India Meteorological Department situated elsewhere.

17.1.4 First Stage Warning' by CWC : It is the warning issued by CWC as soon as a cyclonic storm is located at such a distance from the coast that it is expected to cause bad weather' over the coast during next 48 hours.

17.1.5 Second Stage Warning' by CWC : Following the first stage warning', the second stage' warning is issued as soon as there is "actual threat" of cyclone over the coastal area.

17.1.6 Tropical cyclone Storm:

- i. **Severe Cyclonic Storm** : When the wind speed on the strike of cyclone on land is expected to be 120 Kmph.
- ii. **Very Severe Cyclonic Storm** : When the wind speeds in the strike of cyclone on land is expected to be 180 Kmph.
- iii. **Super Cyclonic Storm:** When the wind speeds on the strike of cyclone on land is expected to be 220 Kmph.

17.1.7 De-warning Message : A message issued by CWC/Visakhapatnam after the cyclonic storm has adequately weakened or passed fully.

17.2 INFORMATION DISSEMINATION & CYCLONE INTENSITY MONITORING SYSTEM

17.2.1 Arrangements exist with the Meteorological Dept., Govt. of India for issuing telegrams of warning whenever there is storms, gales and heavy rainfall. The conditions under which warnings are issued are detailed below –

- i.** Amount of rainfall considered dangerous – 75 mm and above in 24 hours.
- ii.** Wind velocity considered dangerous – 65 Kmph and above.
- iii.** Period when warnings will be given – Throughout the year.

These weather telegrams are issued by the I.M.D. offices at Bhubaneswar and the Cyclone Warning Centre/Visakhapatnam to the Chief Controllers of all the 03 Divisions of ECoR apart from Central Control at Chandrasekharapur/Bhubaneswar. Arrangements exist that in case of failure of DOT communication system during bad weather/cyclone, the microwave network of the Railway or Police wireless systems or satellite phones will be utilized.

17.3 PRE-CYCLONE SEASON PREPARATION

Pre-cyclone preparation essentially involves ensuring of adequate inventory of necessary stores and equipments as per the check list.

17.4 CHECK LIST OF STORES

Since the time available between initial warnings upto the actual occurrence of cyclone and its damages/disruptions is often very short, pre-emptive action is essential to ensure adequate preparedness in terms of stores and equipments necessary to deal with the disruptions/damages.

17.5 STORES DEPARTMENT

The Stores Department will ensure stock of items with quantities given in **Annexure 5**. The locations for stocking of these materials shall be at Mancheswar, Khurda Road and Waltair Stores Depots which are accessible by rail as well as road.

17.6 ENGINEERING DEPARTMENT

The list of materials which should be kept at strategic locations on the East-coast section at all times is available at **Annexure-6, (Engg)**. Apart from the standing inventory of materials as listed in Annexure-24, the following arrangements should exist;

- 17.6.1** Standing arrangements on 'whenever required' basis should exist for supply of adequate rake loads of steel plants slag from SAIL, Rourkela and Visakhapatnam Steel Plants and quarry dust with ballast contractors.
- 17.6.2** As restoration of traffic often requires heavy handling of earth, availability of heavy earth moving machinery viz Poclains, JCBs, Pay-loaders etc should be identified in the coastal towns along with firm's/owner's names, addresses and telephone numbers so as to hire and mobilize them whenever as the necessity arises.
- 17.6.3** Standing contracts with 100% option clause may be entered into on annual basis from strategic quarry dust and boulder supply locations viz Tapanga, Niligiri, Chandikhole (near Dhanmandal) on East Coast Railway and Pakur at Eastern Railway.

17.7 ELECTRICAL DEPARTMENT

The items, quantity and locations of electrical materials to be kept as pre-cyclone measure are available at **Annexure-7, (Electrical)**. In addition to these materials, the locations of additional generator cars should be identified in advance so that they can be requisitioned from other Divisions/Railways in case of necessity.

17.8 MECHANICAL DEPARTMENT

Mechanical Dept during pre-cyclone season needs to take the following measures –

About 18 over aged four wheeler tanks suitable for carrying drinking water shall be identified and made available at VSKP, KUR & SBP (@ 6 X 3) for loading and movement of drinking water.

17.9 S&T DEPARTMENT

The experience has shown that the communication links including terrestrial, underground and microwave sever off at the on set of cyclone. In such cases, VHF sets for short distance communication and satellite phones for long distance communication are the only means available for exchange of vital information. However, following pre-cyclone arrangements should be made –

- 17.9.1 Availability of emergency generator sets for charging of VHF equipments at all nominated stations with adequate fuel.
- 17.9.2 The satellite phones should be kept in working order at Chandrasekharpur/BBS.
- 17.9.3 Spare 25 W VHF set complete with battery and antenna to the extent of 25% of total sets provided in the Divisions should be available with TCIs on East Coast Route.
- 17.9.4 One extra DG set along with 02 number of 20 litres of jerkin full with fuel should be stored at each of the three locations (SBP, KUR & VSKP) along the East Coast route at SE(Sig)/SE(Tele)'s stores.

17.10 MEDICAL DEPARTMENT

Medical Dept will keep the following items in stock at the locations indicated against each as preparedness for cyclone even during the pre-cyclone season.

Material	Quantity	Locations
Chlorine tablet	01 Lac	MCS, KUR & WAT
Bleaching power	50 Bags	MCS, KUR & WAT

- At above locations the material will be kept with CMD/CMS stores in respective Main Hospitals.

17.11 ACTION TO BE TAKEN 48 HOURS IN ADVANCE OF HITTING CYCLONE

Formation of low-pressure area, its development into cyclonic storm and its tentative direction of propagation becomes known much before (well above 48 hours) the estimated time for it's striking the coast. A broad assessment of anticipated severity of cyclone becomes known at least 48 hours before it's strike to the coast. From this point of time, prompt action to combat the cyclone is warranted.

17.12 CHECK ON THE INVENTORIES AND EQUIPMENTS OF STORES

Inventories/Stores to be maintained by each Dept on specified locations is detailed in Annexure- 5 to 7. After initial warnings of cyclones have been received from the I.M.D/C.W.C each dept will conduct a check for physical availability of items with quantities and locations as per the checklist given in Annexure. The following actions are required by each Dept :–

17.12.1 STORES DEPARTMENT

- 17.12.2 Reviewing the stock position of items given in **Annexure-5** (Stores) (in the stocking depot and locations likely to get affected).
- 17.12.3 Arranging transportation of some of the relief materials to the likely affected areas before natural calamity strikes.

17.14.2 ENGINEERING DEPARTMENT

The engineering material as stocked as per **Annexure-6** (Engg) should be cross checked for its physical availability in full. The fitness of vehicles on which the materials have been loaded 'on wheel' should be obtained. Apart from this, the following action needs to be taken –

- (i). Based on the anticipated severity and warnings, the modalities for movement of materials given in Annexure-6, (Engg) should be planned.
- (ii). The firms/owners having heavy earth moving machineries should be contacted, alerted and asked to be in readiness to provide the machineries to the Railway. Movement of such machine including loading and unloading arrangements should be planned in consultation with the Operating Department.
- (iii). A review of availability of the following materials with stockholders should be done to know the availability position -
 - (a). GI Wires, (b) Asbestos Sheets, (c) GI Sheets, (d) Tents & (e) Pipes/ Bamboo.

17.14.3 ELECTRICAL DEPARTMENT

Check working of DG sets, stock position of fuel oil, K-Oil, position of light fittings and other materials so as to ensure that they are available in working condition at nominated depots. This should be ensured by DEE(G)/ AEE(G)/ Supervisor in-charge for their respective jurisdiction. Any shortage should be made good. HQs control should be informed for assistance if required. **Complete list of vital equipments & consumables should be available in Divisional control.**

17.14.4 MECHANICAL DEPARTMENT

The fitness of rolling stock for transportation of drinking water as well as those of ARTs, ARMEs & ARMVs should be checked and ensured.

17.14.5 S&T DEPARTMENT

17.14.5.1 Communication

- i. Check that 25 W VHF set provided at each station is functioning properly & battery in fully charged.
- ii. Check that emergency generator set is functioning properly with adequate fuel.
- iii. Check that fuel supply tanks of the generator sets have been fully filled and adequate fuel for 72 hrs has been stocked.

17.14.5.2 Microwave tele-communication equipment

- i. Check and align all Microwave equipment and battery of DG sets with adequate fuel.
- ii. Keep MAST riggers, Transport, Fuel ready to attend to any disturbance to antenna and tower mounting.
- iii. Telecom channels via alternative routes should be lined up and kept terminated for Administrative trunks and control working.
- iv. Satellite phones wherever available should be tested and accompanying staff identified along with battery charging arrangement.
- v. Communication equipment in ART should be tested for proper working order.

17.14.5.3 Block working

- i. Check all the Block Instruments and their Batteries.
- ii. Extend power supply from emergency generator set to Block Battery charger.

17.14.6 MEDICAL DEPARTMENT

Medical Dept will check the availability of stock as detailed in Annexure-04 (D)

17.14.7 OPERATING DEPARTMENT

Sr.DOM of the concerned divisions will make a rough assessment of staff and area of deployment and advise HQs and Emergency Control/BBS. The Divisional Control will also obtain the status of functioning of VHF sets and batteries/generators from each station and bring the discrepancies to the notice of Sr.DSTE.

SM of the area with assistance of Sr.DOM of the division which is likely to be affected will ensure storage of adequate drinking water, functioning of LED hurricane lamps, match

box, adequate availability of fuel for generator sets, functioning of VHF sets, charging of stand by batteries and adequacy of first aid equipment.

17.15 ACTIVATION OF ALARMS TO STAFF & COLONY

17.15.1 Action by Central Control – COM's Office

- i. At HQs Office the Central Control Unit who is the recipient of the weather warning telegrams will arrange for the distribution of the message to the CE, CBE, CTE, COM, CSO, CME, CEE and CSTE through their concerned departmental counterparts in Central Control.
- ii. Central Control should also verify with the Divisional Control that such weather warnings, telegrams have been received by the Chief Controller of the concerned Division to enable them take prompt action at field level, if not should be informed immediately.

17.15.2 Action by the Divisional Control Office

The Chief Controller or in his absence the Dy. Controller should immediately arrange for the weather warning telegram to be repeated verbatim to the Divisional Officers as well as AENs concerned and all SMs on the section likely to be affected on the control telephone. The Controller repeating the telegram should record the name of the SM to whom the telegram has been repeated.

17.15.3 PREPARATION OF ACTIVITIES FOR STATIONS LIKELY TO BE AFFECTED BY CYCLONES

- (i). **Diversion of Trains** : Divisional/HQ Emergency Control will remain in touch and take action for diversion of trains based on the ground situation. All diversions ordered shall be advised through a bulletin to all concerned including CPRO for publicity.
- (ii). In order to avoid any mishaps or damage to the passenger trains and to avoid marooning of passengers, the COM or an officer acting on his behalf will issue instructions to all concerned for either cancellation or regulating the trains in time so as to avoid running through likely affected area by cyclone.

17.16 NOMINATION OF OFFICERS TO MAN THE EMERGENCY CONTROL AND WAY-SIDE STATIONS

17.16.1 In addition to the action taken as per above para by various departments, each PHOD/concerned DRM will identify and nominate the officers for opening up and manning of emergency control at short notice at HQ/Division.

17.16.2 Two light motor trolleys should be arranged & kept in readiness at strategic stations which should be away from the likely affected zone. At least one Officer & a few staff should be nominated for each. They should be provided with VHF sets & 01 satellite phone each so that they can accomplish the mission of physically covering the entire affected zone & give "First information on damage" through these equipment to the control after passage of the cyclone.

17.25. ACTIVATION OF EMERGENCY CONTROL AND NOMINATION OF STAFF FOR VARIOUS DUTIES

17.25.1 Emergency Controls

- i. Emergency offices shall be opened in the HQ Control, Divisional Control (affected division) and important junction stations in all case of warning of super cyclone or very severe cyclone storm viz. VZM, CHE, PSA, BAM, KUR, CTC, PRDP & BHC .
- ii. The Divisional and HQ Emergency control shall obtain every two hourly position from Meteorological Office for up to 12 hrs before the likely time of cyclone hitting the coast and thereafter every hour.
- iii. The SM shall inform Local Revenue Officers, Sub-Collectors of the area regarding the holding of trains in his station.

17.25.2 Relief Train

- i. Any available rake of preferably 06 coaches of any type to be nominated and kept ready at VSKP, KUR at least 24 hrs before the cyclone is likely to hit for carrying staff, Doctor, Food, medicines & Relief materials by Operating Department.
- ii. Empty flat wagons (BRH/BRN) will be got placed at suitable sidings (preferably goods platform line with ramps) to enable quick loading of earth moving machinery in consultation with Engineering Department.

b) Action by Commercial Department

Enquiry offices should be opened by CCM at important stations with public address system and information about running of trains, arrangements made for supply of food, transshipment of passengers, etc. should be repeatedly given over the public address system for the benefit of the passengers.

c) Engineering Department

- i. The ongoing patrolling of track shall be intensified 24 hrs before anticipated strike of the cyclone at locations which are likely to be affected by cyclone. The trains loaded with the 'monsoon reserve' materials (cinders, boulders, quarry dust, empty cement bags filled with earth/sand etc.) will be ordered to run-in consultation with operating department to the stations near to the last likely affected stations.

d) Mechanical Department

- i. The ART, ARME & ARMV staff and crane driver will be kept alert to rush to duties at minimum notice.
- ii. The drinking water, food items (including biscuits & ration) shall be provided ready on ARTs & ARMVs. ARTs will be equipped with fuel patromax/ gas lamps & portable generator with adequate provisions for 72 hours.

ix. PREPAREDNESS OF RELIEF MATERIALS, ROAD VEHICLES & EQUIPMENT

a) Road Vehicles

All road vehicles including jeeps, cars, light & heavy material carrying vehicles shall be kept in readiness at the nominated Stations/Divisional offices with adequate fuel & two (roster duty) drivers to move men/materials/equipments at minimum notice.

b) Communication Equipment

As the coastal areas likely to be affected will be quite clear by then, Satellite phones with personnel competent to use, handle & troubleshoot, shall be dispatched to a strategic stations (larger among those likely to be affected).

Stores Department Items

Preparations for packing, transportation & distribution of materials shall be started. The packing shall be done with water proof packing materials & easy to handle crates (manually).

Nomination of Stores Officer in HQs for coordinating the material supply activities with Officer-in-charge at site/nominated Officers of user department in HQs.

x. SECURITY

The Security personnel will be nominated by Sr.DSCs / DSCs at following positions –

- a) To accompany 'relief material' carrying trains when ordered.
- b) To help commercial & station staff of major stations to handle public enquiries etc.
- c) At each station where any passenger carrying train is regulated.
- d) On heavy vehicles carrying relief materials.
- e) At major restoration sites after cyclone recedes & work commences.

xi. COORDINATION AT HQ, DIVISIONAL & BOARD'S LEVEL

A complete fluidity inflow of information between HQ, Division & Board's level will be the objective.

- a) The HQs cell will keep the Rly Board cell informed & updated periodically and ask for assistance from the neighbouring (other Railways) as required. It will watch inter-division movement of relief trains, restoration materials and equipments and guide the Division in marking a plan of action for rescue, relief and restoration. It will also be responsible for documenting the developments.
- b) The monitoring cell of adjacent division will be responsible to ensure a complete compliance of HQ instructions as per the disaster management plan worked from their & requiring resources of the division. It will ensure that top priority is accorded to the relief and restoration work in the neighbouring affected divisions.

xii. ACTIONS DURING CYCLONE (RELIEF AND RESCUE)

Heavy devastation is often caused by the cyclonic winds and heavy downpour during the cyclone. The first priority, during cyclonic storm, is therefore to protect the traveling passengers in trains passing through/near to the cyclone affected zone. The action to be taken by different department is as follow;

a) Action by Operating Department

Coaching trains should be controlled/diverted so that the trains do not enter the cyclone affected area, suitable publicity to be arranged. The controlling of trains should, as far as possible, be done where adequate water supply, lighting catering and medical facilities are available.

b) Action by Commercial Department

- i. All Commercial staff should guide the passengers, whether they are on a running train or at a station when the cyclone actually strikes, regarding taking adequate measures for ensuring their personal safety.
- ii. If a train is stranded in the block section, the conductor/TTEs manning the train should take a census of the passengers, and try to pass on the information to the station at either end through the Mobile phones/walkie-talkie sets available with the Guard/Driver of the train so that the information can be passed on to the Divisional Control Office in case communication is available.
- iii. If any passenger is found to have injured during the cyclone, first aid should be provided by the Guard/ TTEs/ Station staff, as the case may be. In case of injured passengers at a station, medical aid as locally available should be arranged. Wherever possible, details of such cases should be passed on the Divisional Commercial Control.

xiii. POST CYCLONE OPERATION

a) FIRST ASSESSMENT OF DAMAGE

1. Motor Trolley Survey

- i. The cyclones and consequent floods, if any, do not damage the continuity of track frame even in case of breaches, washouts, erosions etc.,. Experience has shown that in most cases, a light motor trolley can pass through the entire cyclone affected zone (on its own power or augmented manually) without much difficulty except if the track frame itself is submerged in water.
- ii. The Officer(s) & staff, nominated & in readiness, as in Chapter 07, should proceed immediately after cyclone has passed off the affected zone. Equipped with satellite phone and VHF sets, the two trolleys – from either end of the affected zone – should proceed through the affected zone and give precise information to control regarding;
 - ☞ Nature of damage/obstruction to track with location.
 - ☞ Possible method/system for restoration.
 - ☞ Resources required for restoration.
 - ☞ Whether or not a light vehicle (e.g. Tower Wagon) or light engine or full relief train can pass.

- ☞ Likely time to clear the location by repairing the damage/removing the obstruction.

2. Damage assessment

This will be carried out concurrently and independently with motor trolley survey and will not be call off till completed, to give corroborative information.

3. By Boats

In circumstances when substantial portion of track get inundated under water, boats shall be hired locally to navigate across the water body and assess the damage.

xiv. MOVEMENT OF RELIEF TRAIN FOR RESCUE, RELIEF AND RESTORATION

- a) On receipt of first information of super cyclone having passed the coast, after assessment of the damaged Railway property or assistance required, all the relief trains on the section must be ordered and should be started with full complement of men, equipment and materials as detailed in Annexure-04. The movement of relief train shall not wait for receipt of detailed report from site. The staff required to move on these trains shall be accommodated on the train itself and should not be allowed to come back home. This may involve organizing supply of food from local sources for staff who have to remain on the relief trains for long hours.
- b) These trains will move up to the neck of the affected zone in normal course. Thereafter, the trains will move forward in such a way that the section in the front is cleared of all physical obstructions to the moving dimensions. It will leave each station after confirming on VHF by the SM with the adjacent station that no breaches/washouts have occurred on that section.

xv. MOVEMENT OF RELIEF MATERIALS AND RESTORATION

a) Engineering Department

Based on damage report and restoration strategy, priority and sequencing of movement of available materials on wheels (e.g. boulder fillers, earth moving machinery & bridge girder etc.) and labour should be quickly chalked out by Engg. Dept. and conveyed to the Operating personnel at Central Control and respective divisional controls.

b) Electrical Department

- i. Restoration Work – The damage caused to electrical installations is to be assessed location-wise. For this purpose, competent officials shall be deputed to obtain detailed assessment of the damages. Supervisors and staff should be deputed with necessary materials and tools either by Rail or by Road for immediate restoration work.
- ii. In case of power failure at stations where trains are controlled, temporary lighting may be arranged with portable DG sets or through patromax lights.

c) Stores Department

- i. During restoration, Stores Dept shall play a pro-active role in making emergency purchases preferably by standing Spot Purchase Committee & supplying the same to the user departments at sites.

d) Commercial Department

Commercial Dept will continue to take action as per para 7.6.

e) Medical Department

- i. The Medical team will accompany each of the relief train ordered. It will carry with them at least 1,00,000 chlorine tablets and 1000 kgs. of bleaching powder for distribution at various stations.
- ii. The medical team will attend to stranded passengers and Railway personnel and their families for any ailment. For this purpose sufficiently wide portfolio of medicines will be carried in relief trains for various ailments in sufficient quantity.

xvi. MOVEMENT OF RELIEF MATERIALS

- a) CPTM will order the special train for carrying the relief material. Wide publicity shall be given in Press and Media to attract voluntary organizations, individuals, NGOs, medical practitioners etc. to avail of the service. The composition & timings will be planned and publicized.

xvii. PROCEDURE FOR ACCOUNTAL, AUDIT & FINALIZATION OF ACCOUNTS

a) Special Returns by Stockholders after Restoration

All stockholders of all departments in-charge of custody of Railway stores shall submit a "special Return" of the material transaction that took place during restoration.

b) Emergency Purchase of materials

Emergency demands placed through HOD's notes shall be compiled by the Stores Dept through a Spot Purchase Committee.

c) Works Contracts – Single tender and hiring of machinery

For restoration of traffic single tenders may be awarded to the competent contractors who have exceptional capacity to mobilize machinery and materials. Prior consent of the General Manager will be taken while processing the case.

(CHAPTER-18)

FLOOD MANAGEMENT

18.0 SCOPE

Flood is the most common and widespread of all natural disasters. India is one of the highly flood prone countries in the world. Around 40 million hectares of land in India is prone to flood as per National Flood Commission report.

The coastal area of East Coast Railway comes under the influence of South West monsoon and is situated along the Bay of Bengal. A large area along the East Coast are prone to cyclone and heavy intensity of rain fall. The recent flood in Balasore district in June 2008, damaged the Railway bridge in Kharagpur Bhadrak section in Howrah Chennai main line of South Eastern Railway, consequently train service in Howrah – Chennai main line via Bhubaneswar remained disrupted for nearly two months.

The flood caused by the Super cyclone combined with huge storm surge of about **230 Kmph during October 1999** in the coastal belt of Orissa in Jagatsinghpur district was the worst of it's kind in the recent past.

18.1 Areas of East Coast Railway affected by flood:-

- ❖ North Orissa- This area is flooded by Baitarani and Brahmani rivers. Jajpur, Bhadrak and Cuttack district come under this zone. Every year these two rivers flood a large area and disrupt rail service between Bhubaneswar-Howrah.
- ❖ Central Orissa and Coastal Orissa:- Mahanadi river system cause flood in Sambalpur & Bolangir districts of central Orissa as well as Cuttack, Jagatsinghpur, Kendrapara, Jajpur, Nayagarh, Khurda & Puri districts of coastal areas of Orissa.
- ❖ Southern Orissa:- Koraput, Rayaguda, Gajapati district come under this zone. Flood generally caused due to Vansadhara and Saleru river system.
- ❖ Flash flood- Small culverts located in particularly in coastal areas some times over flow and cause flash floods and disrupt Railway communication.

18.2 EFFECT OF FLOOD-

- ❖ Damage to embankment including breaches / wash away of embankments thereby affecting Railway track.

- ❖ Rain due to sudden cloud burst resulting in flooding of the Railway track causing sinkage or washing away of track, damaging track components which effect the level and alignment of Railway line and consequently affect the safety of traveling public and disruption to traffic and communication.
- ❖ Washing-away or damage bridges, piers, abutment and other components of bridges.
- ❖ Inundate the Railway colony at low level

18.3 INFORMATION AND FLOOD MONITORING SYSTEM:-

Regional Meteorological Center, located at Bhubaneswar and Vishakhapatnam, under the administrative control of the Indian Meteorological Department, is responsible for issuing telegrams of warning whenever there is expectation of heavy rainfall. The condition under which warning for flood is issued when amount of rain fall is expected above 75 mm in 24 hours. The warning telegram is issued by I.M.D at Bhubaneswar/Vishakhapatnam to the Chief Controllers of all the Divisions in East Coast Railway and Central Control at Bhubaneswar. In case of failure of DOT communication system during bad weather, Microwave network of Railway or police wireless systems or satellite phones are used for the purpose.

18.4 Action taken before flood :-

- ❖ Co –ordination with Meteorological Department for advance information.
- ❖ Data base for RAT/RAW/Vulnerable bridges on topo sheet and information on approach road to location.
- ❖ Identification, Inspection and Attention to RAT/RAW & bridges.
- ❖ Co-ordination with state Government officials over phone/hot line/satellite phones.
- ❖ Flood monitoring system in addition to patrolling.
- ❖ Adequate prevention by executing anti erosion works of tracks, formations, bridges etc., improvement to water ways of bridges in track formation, and with Monsoon Reserve.
- ❖ Materials required for flood prevention /management like Empty Cement Bags, sands, boulder etc are stocked and also the sources from where they can be arranged at short notice in case of dire necessity is clearly identified with all details.
- ❖ Development of flood shelters for staffs and passengers at suitable locations in the area prone to repeated floods.
- ❖ Emergency response team on floods.
- ❖ Emergency equipments and relief logistics.
- ❖ Medical preparedness plan.

PRE-FLOOD PREPARATION -

18.5 ENGINEERING DEPARTMENT:

- i) Safety Measures for track during heavy rain:- Gang Petrol during monsoon to detect damage to Track and bridges as per IRPWM Para 1014
- ii) Night patrolling during monsoon to detect damage such as breaches, settlements, slips as well as scours and immediate action is to be taken to protect the track. Posting of stationary watchman may be considered.

- iii). If it is found that water level has a rising trend to danger level on a river bridge, immediate action to be taken to control /divert the passenger carrying train or impose speed restriction if the situation permits. Constant monitoring is to be done at Officer level.
- iv). Daily patrolling by Key man to inspect entire track daily on foot and take immediate action incases of any unusual occurrences like heavy rain, flood and land slides.
- v). Deputing Watchman at vulnerable location like bridges, flood cause-way etc , to provide safety of Railway track.
- vi) Check the availability of materials which should be kept at strategic location in East Coast Railway at all time are shown in Annexure -6.
- vii) Choked drains in the Railway colony to be cleaned before monsoon so that rain water can freely flow and the Railway colony is not submerged in water.
- viii) Materials required for flood management like empty cement bags, sand, boulder, cinder etc is stocked at strategic location and also the source from which it can be arranged at short notice in case of dire necessity clearly identified.
- ix) Standing arrangements on “whenever required” basis should exist for supply of adequate rake loads of steel plant slag with Vishakhapatnam and Public and Private sector steel plant and quarry dust with ballast from contractors.
- x) As restoration of traffic after flood often requires heavy handling of earth, availability of heavy earth moving machinery viz. Procleans, JCBs and Pay loaders etc., should be identify in the near by coastal town with firm / Owners name, address and telephone no so as to hire and mobilize them as and when necessity arises.
- xi) Standing contract with 100% option clause may be entered into on annual basis from strategic quarry dust and boulder supply locations ets.,.

18.6 LIST OF STORES AND STORAGE LOCATIONS.

Since the time available between initial warning and up to the actual occurrence of flood and its damages/disruptions is often very short, pre-emptive action is essential to ensure adequate preparedness in terms of stores and equipments necessary to deal with the disruption/damages.

18.7 STORES DEPARTMENT.

- a. Stores Department will ensure stock of items with quantities given in Annexure-5. The locations for stocking of these materials shall be at stores in East Coast Railway which are accessible by rail as well as road.

18.8 ELECTRICAL DEPARTMENT.

The items, quantity and location of electrical materials to be kept ready as pre-flood measure at annexure 7. In addition to these materials, the location of additional generator cars should be identified in advance so that they can be requisitioned from other Division/Railway in case of necessity.

18.9 MECHANICAL DEPARTMENT.

Mechanical Department during pre-flood preparation need to identify about 18 over aged(fit to run) four wheeler tank wagons suitable for loading drinking water and made available at KUR, VSKP and SBP (@6 X 3) for loading and movement.

18.10 S & T DEPARTMENT.

During flood the communication link is cut off. In such cases VHF sets for short distance communication and satellite phones for long distance communication are the only means available for exchange of vital information. Following pre-flood arrangement should be made:-

- i). Availability of emergency generator for charging of VHF sets at all nominated stations with adequate fuel.
- ii). The satellite phones should be kept in working order at Chandra sekharpur/ Bhubaneswar, Divisional Control Offices of KUR, WAT & SBP as well as all other strategic locations..
- iii). Spare 5 & 25 W VHF sets complete with battery and antenna to extent of 25% of total sets provided in division should be available with SE/T/Wireless in-charge as well as all other strategic locations on East Coast Route.
- iv). One extra DG set along with 02 number of 20 liter capacity jarken full with fuel should be stored at each of the three locations (KUR,VSKP & SBP)

18.11 **MEDICAL DEPARTMENT.**

Railway Medical Department will be prepared for management of flood casualties. Intravenous (IV) fluid, oxygen, dressing materials, tetanus, toxoid, antibiotics, vaccines, anti snake venom and anti diarrhea drugs will be the most commonly needed medical resources . These medicines should be stored in the divisional Railway hospitals and health units over East Coast Railway.

Medical Department will keep the following items in stock at the location indicated against each as preparedness for flood even during pre-flood season.

Material	Quantity.	Location.
Chlorine tablets	01(one) Lac	KUR &WAT
Bleaching powder	50(Fifty) Bags	KUR & WAT

18.12 **ACTIVITIES DURING FLOOD.**

- ❖ Opening of Control Room at Zonal HQ and Division to be managed by Operating Department round the clock in shifts.
- ❖ First priority, during flood , is to protect the traveling passengers in the train passing through/near the affected zone. Whenever incident of flood occurred in any Railway area the respective DRM of the division should immediately take the situation under control and pass order to the different department to take necessary relief and rescue measures for the passengers of the affected train.
- ❖ Local Law and order authorities may be kept in touch as in flood affected Zone, the local public some times take shelter on embankment making movement of train difficult. Adequate patrolling staff with PA systems may be kept in readiness for the purpose.
- ❖ DRMs are empowered to requisition help from nearest NDRF and ODRAF battalion through HQ as per Act 2005 for relief and rescue of the passengers in the situation when a passenger train is washed away partly / fully by flood, where boats and divers are essential.

POST-FLOOD/EARTHQUAKE DISASTER PLAN – (PREPARATION) -

18.13 **Post – Flood/Earthquake Disaster Plan -**

After a major disaster, the first priority is to provide relief and medical aid to affected persons to minimize loss of lives. During the disaster like Gujarat earthquake, roofs of several quarters in Railway colony had collapsed. A number of families were rendered destitute. During earthquake others, whose dwellings were intact, preferred to live outside because of fear of continuing tremors. The water and electric power supply to Railway stations and colonies had been disrupted. Fortunately, there were no stranded passengers

and no trains in mid-section. Rail infrastructure had been extensively damaged. Communication channels were down and organization was in disarray as most Officers and supervisors in the affected area were themselves victims of damage. Movement of men and material for rescue and relief in such circumstances becomes a challenging task. The Divisional Control office should function under the direct charge of ADRM. Assistance of headquarters office can be sought for mobilizing relief from outside the Division also.

18.13.1 ACTION BY OPERATING DEPARTMENT.

In the event of severe disaster like flood/earthquake situation when it is not feasible to continue the normal train operations due to damage at various locations in this Railway, it is necessary to have a central organization which can receive information, messages and reports etc., from the affected areas and issue necessary instructions as required. For this purpose a **“Central Emergency Control Office”** at HQ and Divisional level will be set up. These emergency control offices shall be opened in the **Disaster Resistance Control Room**. CPTM will be the chief emergency officer at HQ and Sr.DOM will be the Divisional emergency officer at Divisional Level. In addition to this, emergency offices shall be manned by emergency officers as nominated by GM and DRMs for the round the clock operation at HQ and Division respectively. The emergency offices will work in three shifts of 08 hourly basis as mentioned below.

Shifts	Central Emergency Office	Divisional Emergency Office
1 st shift	06:00 – 14:00 hrs	08:00 – 16:00 hrs
2 nd shift	14:00 – 22:00 hrs	16:00 – 24:00 hrs
3 rd shift	22:00 – 06:00 hrs	00:00 – 08:00 hrs

- i). An Emergency Control Order register shall be opened at HQ and Divisional Level and every message communicated between HQ, Division and other Officer/Organisations should be recorded bearing message nos serially. Making over and taking over charges should also be recorded in this register along with important remarks if any. Means of communication if disrupted will be immediately restored (by satellite phone, VHF & wireless) and made known to all concerned.
- ii). Chief Emergency Officer will decide and communicate to the DRMs about the cancellation, rescheduling and short termination of passenger trains.
- iii). Coaching trains should be controlled/diverted so that the trains do not enter the earthquake affected area, suitable publicity to be arranged. Controlling of trains should, as far as possible, be done where adequate water supply, lighting, catering and medical facilities are available.
- iv). When control communication is damaged, provision of VHF sets for station to station for train working on “paper line clear” should be made till more permanent arrangement is arranged.
- v). Cancellation/diversion of trains should be widely announced through News Papers, TV, News Channels, All India Radio and Public address system.
- vi). Movement should be done on top priority for restoration material, equipments, labours and other items for restoration work as demanded by site officials.

18.13.2 ACTION BY COMMERCIAL DEPARTMENT

- i). All commercial staff should guide the passengers and volunteers, whether they are on a running train or at station when train services is affected by earthquake, regarding taking adequate measures for ensuring their personal safety.

- ii). Food and water to be arranged for the entrapped passengers & victims.
- iii). Alternative arrangement should be made for the passengers for safe journey to their destination.
- iv). If a passenger train is stranded in the earthquake affected zone, the conductor/TTEs manning the train should take census of passengers, and try to pass information to the station at either end through walkie-talkie set, so that information can be passed on to the Divisional control office.
- v). If any passenger is found injured or sick, First Aid should be provided by the guard/TTEs of the train.
- vi). If a Railway colony is affected in earthquake, the victims and residents of the colony to be shifted to a safe place as quick as possible.

18.13.3 ACTION BY MEDICAL DEPARTMENT.

Doctors & Paramedical staffs should be rushed to the site with medical kits, where the victims and train passengers are entrapped in a train or at a station to provide medical help.

18.13.4 ACTION BY ENGINEERING DEPARTMENT

- i). The Officers and staff should proceed immediately to affected zone as soon as information received equipped with satellite phone and VHF set to give precise information to control office regarding;
 - a). Nature of damage/obstruction to track & colonies with location.
 - b). Possible method /system for restoration.
 - c). Maximum resources required for taking out the victims,
 - d). Whether or not a light vehicle can used for the same.
 - e). Likely time to clear the victims trapped under debris from location by repairing of the damaged/removing the obstruction.
- ii). In circumstances when substantial portion of the track installations gets blocked under debris, Vehicles/helicopters shall be hired locally to navigate across the affected area to assess the damage.
- iii). Based on the damage report and restoration strategy, priority and sequencing of movement of available materials on wheels (e.g. boulders, earth moving machinery, bridge girder and cranes etc) and labour should be quickly chalked out and conveyed to the Traffic personnel at Central Control and respective Divisional control.
- iv). Heavy Earth Equipment, road cranes etc., may be requisitioned as per requirement from the sources within the Division and out side.

18.13.5 Electrical Department.

- i). Damage caused to electrical installations is to be assessed location wise. For this purpose, competent officials shall be deputed to obtain detailed assessment of the damages. Supervisors and staff should be deputed with necessary materials and tools either by rail or by road for restoration work for supplying Power to affected area and lighting arrangement for rescue and restoration..
- ii). In case of power failure at station where trains are controlled, temporary lighting may be arranged with portable DG set.

18.13.6 Mechanical Department.

- i) The ART/ARME staff and crane with crane driver will be kept ready to rush to duties at minimum notice whenever required.
- ii) Drinking water, readymade food items shall be kept ready on ART/ARME. ARTs will be equipped with fuel, patromax/gas lamps and portable generator with adequate provision for 120 hours.

18.13.7 Signal & Telecommunication Department.

- i). S & T department will look after the communication system at affected zone. For this purpose they will do the following activities:-
 - a). Check the 25 W VHF set provided at each station functioning properly & battery is fully charged.
 - b). Check the emergency generator set is functioning properly with adequate fuel.
 - c). Check that fuel supply tanks of the generator set have been full filled and adequate fuel for 72 hrs has been checked.
 - d). Check and align all Microwave equipment and battery of DG sets with adequate fuel.
 - e). Keep MAST riggers, Transport, Fuel ready to attend any disturbance to antenna and lower mounting.
 - f). Telecom channel via alternative routes should be lined up and kept terminated for administrative trunks and control working.
 - g). Satellite phones where ever available should be tested and accompanying staff identified along with battery charging arrangement.
- h). Communication equipment in ART should be tested for proper working order.
- i). Check all the Block Instruments and their batteries.
- j). Extend power supply from emergency generator set to Block Battery charger.

18.13.8 Stores Department

During restoration, Stores Department shall play a pro-active role in making emergency purchases preferably by standing Spot Purchase Committee & supplying the same to the user department at sites.

18.13.9 Security Department.

Security personnel will be nominated by Sr.DSC/DSC at following position-

- a). To accompany the relief material carrying train when ordered.
- b). To help commercial & station staff of major station to handle public enquiries.
- c). At each station where passenger train is regulated.
- d). On heavy vehicle carrying relief materials.
- e). At major restoration sites after earthquake work commences.

18.14. MOVEMENT OF RELIEF MATERIALS.

CPTM will order the special train for carrying the relief material. Wide publicity be given in Press and Media to attract voluntary organization, individuals, NGOs, Medical practitioners etc to avail the service. The composition and timings will be planned and published by CPRO.

18.15. PROOCEDURE FOR ACCOUNTED, AUDIT & FINALIZATION OF ACCOUNTS.

- i). Special Returns by Stockholders after restoration.
- ii). All stock holders of all departments in-charge of custody of Railway stores shall submit a "Special Return" of the materials transaction that took place during restoration.

18.16. Emergency Purchase of Materials

Emergency demands placed through HOD's notes shall be completed by the Stores Department through a Spot Purchase Committee.

18.17. Work Contracts- Single Tender and hiring of machinery.

For restoration of traffic single Tender may be awarded to the competent contractors who have the exceptional capacity to mobilize machinery and materials. Prior consent of the General Manager will be taken while processing of the case.

18.18 External Assistance :

Devastation in Earthquake does not get limited to Railway. As such Co-ordination with District Administration through NDMA, State DMAs is an absolute necessity for both availing and rendering help.

- 18.18.1 All road transport available outside are generally requisitioned by Civil Administration for relief supply. Expeditious clearance and delivery of relief material should be planned with District Administration by Commercial Department. Similarly Engg. Dept. should co-ordinate with Dist. Administration for debris clearance and track restoration by earth moving machinery, road cranes, trippers etc., available locally as command of these are generally taken over by Dist. Administration.
- 18.18.2 Once rail working is restored, movement of relief materials through train is to be co-ordinated with Dist. Administration by Operating Department.
- 18.18.3 Specialised trained staff and equipments for rescue of passengers/ dwellers may be co-ordinated through State DMA(like ODRAF of Orissa).
- 18.18.4 Provisions for affected families in Railway colonies may not be available for considerable period. Help of NGOs may be taken to open fair price shops.
- 18.18.5 A). Help of military/ para military forces, requirement of boats, divers, helicopters etc., may be availed through NDMA and State DMAs.
- B). Help of Local Hospitals to be co-ordinated through State DMAs and medical Department.
- C). Railway may provide mobile Medical facility to staff and civilians by self propelled mobile medical units(ARME)

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(Chapter – 19)
EARTH QUAKE MANAGEMENT

19.1 INTRODUCTION

Considering Precambrian geological set-up in major parts of Orissa, seismicity is relatively high as evident from the number of earthquakes in the hard rock terrain. A couple of events originated close to the basin marginal faults of Gondwana Garben. Records of historical seismicity indicate activity along the Orissa Coastal belt also.

As per the recent categorization, the country has been divided into four zones. Similarly the Seismic Zoning of Orissa has been revised and Orissa falls between Zone II to III, i.e. low damage risk zone and moderate damage risk zones. However, it may be noted that major part of Gujarat, including Ahmedabad, also comes in the moderate zone but Ahmedabad City was badly affected by the impact of the Bhuj earthquake. The details of the location of the district according to seismic zones is given in the Table below and in the map enclosed in Annexures-35 & 36.

The jurisdiction of ECoR like Bhubaneswar, Cuttack, Paradip, Puri and the critical Hirakud Dam fall within the Zone-II (Low damage risk zone), while VSKP and KK line comes under Zone-III (Moderate damage risk zone). The city of Ahmedabad, which was badly affected by the impact of Gujarat earthquake 2001, is also located in the moderate damage risk zone.

District coming under	Districts coming under
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Low Damage Risk Zones	Moderate Damage Risk Zones
Bargarh, Sambalpur, Anugul, Dhenkanal, Jajpur, Cuttack, Khurda, Puri, Bhubaneswar, Cuttack, Jagasinghpur, Kendrapada, Bhadrak.	Koraput, Rayagada, Gajapati, Ganjam, Bolangir, Srikakulam, Vizianagaram, Visakhapatnam.

19.2 SEVERITY IDENTIFICATION :

Measure of intensity of earthquake according to Modified Mercalli (MM) scale and its possible impact is given below:

MM scale intensity of earthquake	Measure of intensity described in terms of possible impact
I	Not felt except by a very few under especially favourable circumstances.
II	Felt only by a few persons at rest, especially on upper floors of building.
III	Felt quite noticeably indoors, especially on upper floors of buildings.
IV	Felt by many indoors, during the day by a few outdoors. At night some are awakened. Dishes, windows, doors are disturbed. Standing motorcars rock noticeably.
V	Felt by nearly everyone, may awakened. Some dishes, windows, etc., broken; Pendulum clock may stop.
VI	Felt by all : many frighten and run outdoors. Heavy furniture may move. A few instances of fallen plaster or damaged chimneys - damage slight.
VII	Everybody runs outdoors. Damage negligible in buildings of good design and construction, slight to moderate in well built ordinary structures, but considerable in poorly built or badly designed structures.
VIII	Damage slight in specially designed structures; considerable in ordinary structures and great in poorly built structures. Fall of chimneys, stacks and columns. Persons driving motorcars are disturbed.
IX	Damage considerable, even in especially designed structures; well-designed frame structures thrown out of plumbing. Buildings shift off foundations. Ground cracked conspicuously.
X	Some well-built wooden structures destroyed; ground badly cracked; rails bent. Landslides and shifting of sand and mud.
XI	Few, if any (masonry) structures, remain standing. Broad fractures, on ground.
XII	Damage total. Waves seen on ground surface. Lines of sight and level distorted. Objects thrown upward into the air.

The technical paper of GIS states that ORISSA, if at all, experiences any earthquake, it may attain the intensity of 5.9 on the Richter scale. Accordingly, the intensity as per modified Mercalli scale goes in the rang of VI & VII.

Richter Scale Magnitude (M)	Modified Mercalli Scale Intensity (MM)
5.0 – 5.9	VI – VII
6.0 – 6.9	VII – VIII

19.3 Pre Earthquake Disaster Management Plan

Warning and disaster preparedness are the important components of pre-disaster plan. However, in case of earthquake, there is very little scope of prior warning since the event comes very suddenly.

The critical factors responsible for the high seismic risk zone in India and consequently the identified six sets of critical interventions have been presented as the six pillars of earthquake management.

- a. Ensure incorporation of earthquake-resistant design features for the construction of new structures.
- b. Facilitate selective strengthening and seismic retrofitting of existing priority and lifeline structures in earthquake-prone areas.
- c. Improve the compliance regime through appropriate regulations and enforcement.
- d. Improve the awareness and preparedness of all stakeholders.
- e. Introduce appropriate capacity development interventions for effective earthquake management (including education, training, R&D, and documentation).
- f. Strengthen the stakeholders for emergency response capability in earthquake prone areas.

The pre-disaster preparedness for ECoR is identified as below –

- i. Hazard Zone mapping. Mapping of earthquake vulnerable zones and superimposing details of vulnerable structures, infrastructure, vital installations.
- ii. Record detailed inventory of major infrastructures such as Rly. buildings, Bridges, yards, signalling telecom network, OHE & vital installations like Work shops, Diesel and Electric loco sheds and Hospitals. Set up assessment teams comprising of representatives from the Civil, Electrical, Signal & Telecommunication, Security, Mechanical and Medical disciplines.
- iii. Settlement locations and population inventory.
- iv. Creation of data-bank of existing structures within Railway Jurisdiction for new and existing infrastructures need retro-fitment along with Cyclone, flood and Land slide data in tabular form for reviewing of preparedness.
- v. Assessing vulnerability of structures and prioritizing vulnerable structures based upon structure falling within particular seismic zone, importance of structure.
- vi. Developing retrofitting methods. Service of IITs, SERC Rorkee and independent consultants can be utilized.
- vii. Sanctioning of works and undertaking retrofitting to strengthen vulnerable structures if required.
- viii. Medical preparedness to deal with emergency medical response. Medical preparedness will focus on likely injuries, out break of diseases and other post earthquake health problem including psycho-social trauma. Mock drills to be organized.
- ix. Adequate training /exposure of Railway officials to earth quake resistant design, construction, retrofitting, knowledge of various codes, manuals, articles etc on earth quake resistance technique. Interaction with other agencies like, IITs, SERC Rorkee, CBRI, CRRI etc.
- x. Tie up should be made with State DMAs and through them other local military/para military units and public hospitals.

19.4 Emergency Response Plan

- i. In the event of an earthquake striking some area, the IMD and GSI seismic observation centres give the exact location of the epicentre and the intensity of the earthquake on the Richter scale. With this information in hand, the disaster emergency squad will make an immediate visit to the spot of the affected area for a quick on-site assessment of the situation. Simultaneously, there will be a public announcement about the epicentres and probably affected area and the intensity of the earthquake. The emergency squad on ground shall take video photographs of the affected area. The on-site visit and assessment shall be completed within hours and such news will be broadcast through All India Radio and Door Darshan as well as through Rly. Communication network and other means for information to the public and also to the people in the affected area.
- ii. The information on affected area as well as the first assessment of the emergency squad will be immediately super-imposed in the hazard zone map. The Control Room at the particular affected areas as well as the Central Control Room will be put under red alert within the shortest period after the earthquake strikes.
- iii. A good pre-disaster preparedness plan results in a very good emergency response plan in the time of need.

19.5 **Post - Earthquake Disaster Plan -**

See para 18.13 to 18.18.05.

19.6 The Photograph of Earthquake zone is available in annexure-35

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(Chapter – 20) **LAND / HILL SLIDE**

When a huge land/rock mass suddenly gets displaced from its position and comes down with tremendous force, it can cause intensive damage to Rly. Track, Buildings and other Railway Installations, with blocking of traffic movement. It can also cause loss of human Lives. This can be caused due to prolonged torrential rain, blasting of rock nearby and Earthquake etc.

20.1 Actions to be taken in during Land/Hill Slide

- 20.1.1 After receiving the message from the concerning Station Master under whose jurisdiction the Section is situated, the Section Controller will inform concerning Operating Officer to stop the movement of trains in the adjacent sections and inform DRM/ADRM, Sr.DEN(Co-ord) (through Engg. Control), Sr.DME, Sr.DEE(OP), DSC and other Concerning Branch Officers.
- 20.1.2 DRM with Sr.DEN(Co-ord) and Sectional DEN will proceed to site. ART/MRT will be ordered, if required.
- 20.1.3 Sr.DEN(Co-ord) will requisition earth moving equipments including, Pay loader, JCB, Dozer, Proclains & Jack Hammer Dumper & Trucks from the nearest available Railways & Non-Railway sources.
- 20.1.4 Licensed Rock Blasting staff, with sufficient quantity of explosive & detonators, Rock drills, Rock drilling equipments and Air compressors available from the nearest sources also should be rushed to the site. Only trained experts having license to handle explosive should only be deployed for rock blasting.
- 20.1.5 DRM, after getting detailed information from site will seek the help of Army, Border Road Organization Units, as the case may be.
- 20.1.6 Sufficient quantity of explosive & detonators has to be sent to the site for replenishment.
- 20.1.7 The residents of the nearby houses/Staff quarters must be evacuated to safer places before starting the Blasting of Rocks.

- 20.1.8 Requisite quantity of P. Way material should be kept ready in the nearest station to move to the site incase the P. Way is damaged.
- 20.1.9 Similarly, Signaling, Elect., TRD staff also should be kept in readiness with men & materials for immediate repair of installation.
- 20.1.10 Sufficient number of labours to be requisitioned and deployed at site to help in clearing the landmass.
- 20.1.11 Casualty/injured persons/staff should be shifted to nearest Hospital for treatment.
- 20.1.12 The loose boulders to be dislodged and the need for flattening its slope by earthwork or protection of cutting by boulders nets or rock bolting or short creating to be explored.

(Chapter-21)

TERRORISM DISASTER

Terrorism:- Politically motivated and perpetrated in a clandestine manner against non-combatants. The act is committed in order to create a fearful state of mind in an audience different from the victims.

21.1 Loss of terrorist attack:- Terrorism is a manmade disaster and cost the most in terms of the followings;

- ❖ Loss of lives
- ❖ Loss of properties.
- ❖ Workers' compensation.
- ❖ Accident and health.
- ❖ Disability.
- ❖ Political and social instability in the region and between countries.
- ❖ Long term damage to a country's economy and production capacity

21.2 Types of Terrorism-Researchers in the United States began to distinguish different types of terrorism such as Hijacking, Bombing, Diplomatic kidnapping and assassination to assert their demands.

21.3 Some terrorist attack in India:-

On Dec.13, 2001, in a suicide attack on Indian Parliament, nine police men and parliament staffer were killed. On June 22, 2000, two powerful car bomb explosion took place in south Mumbai killing at least 46 people. On 22 Jan.2002, militants attacked American cultural center in Kolkata, killing four police and injured 21. On 1st Oct.2001, a car bomb exploded near the state Assembly J&K, killing 38 people. On July 2005, Jaunpure train explosion at least 10 people were killed and more than 50 were injured. On 29 Oct.2005, bomb blast in New Delhi, 70 people were killed and several injured. On March 2006, serial blast in Varanasi, at least 100 were injured. On 11 July 2006, Mumbai train blast, at least 190 people were killed in the 1st class compartment. On 26th Nov.2008, terrorist attacked Taj hotel in Mumbai and killed at least 185 people and injured more than 300.

21.4 TERRORISM MANAGEMENT MEASURE:-

21.4.1 Before terrorist attack

- ❖ Keep security alert and aware of the surrounding area.
- ❖ Take precaution when traveling. Be aware of conspicuous or unusual behavior. Do not accept packages from strangers or leave luggage unattended.
- ❖ Leave where emergency exits are located. Think ahead about how to evacuate a train, subway, building or congested public area. Learn where stair case are located.
- ❖ Terrorist may damage the Railway track or Railway bridge, therefore for patrolling to be intensified.

- ❖ In a terrorist attack there may be many injured, so medical department should store sufficient stock of life saving drugs and blood.
- ❖ The explosion can result in collapsed building and fire. People who live or work in a building review emergency evacuation procedure and know where fire exits are located.
- ❖ There may be general Power Supply (Electricity) failure during a terrorist attack. One Power Car of suitable capacity per Division at Divisional Head Quarter may be kept.
- ❖ If you receive a bomb threat, get as much information from the caller as possible. Keep the caller on line and record every thing that is said. Notify the police and building management.
- ❖ During terrorist attack train may be detained for a long period due to damage of traction installation. On receiving warning messages from authorized sources, Diesel power(engine) should be kept ready as stand by at suitable strategic locations.
- ❖ After you have been notified of a bomb threat, do not touch any suspicious packages. Clear the area around the suspicious packages and notify the police immediately. In evacuating a building, avoid standing in front of window or other potentially hazardous area.
- ❖ Install Video camera at the busy Railway station to watch movement of suspicious person.
- ❖ Bomb detecting machine to be installed at every important Railway stations to examine the luggage of the passengers boarding a train.
- ❖ Random checking of the luggage of the passengers.
- ❖ Deploy sufficient number of RPF staff at stations and on trains.
- ❖ Tight security at all work places and residential colony.

21.4.2 During terrorist attack-

- ❖ In a building/train explosion, get out of the building/train as quickly and calmly as possibly. If exits are blocked, get out through emergency exits or get under a sturdy table or desk.
- ❖ If there is a fire, stay low to the floor and exit the building as quickly as possible.
- ❖ Cover nose and mouth with wet cloth.
- ❖ When approaching a closed door, use the palm of your hand and fore arm to feel the lower, middle and upper parts of the door. If it is not hot brace your self against the door and open it slowly. If it is hot, do not open the door and seek an alternate escape route.
- ❖ Heavy smoke and poisonous gases collect first along the ceiling, stay below the smoke at all times.

21.4.3 After a terrorist attack-

If you are trapped in debris-

- ❖ Use a flash light.
- ❖ Stay in your area so that you don't kick up dust. Cover your mouth with a handkerchief or clothing.
- ❖ Tap on a pipe or wall so that rescuer can hear where you are. Use a whistle if available. Shout only as a last resort. Shouting can cause a person to inhale dangerous amount of dust and smoke.
- ❖ Assist victims, However, you should not attempt to rescue people who are trapped in side a collapsed building. Wait for emergency personnel to arrive.
- ❖ Where a chemical agent attack occurs, authorities would instruct citizens either to seek shelter where they are and seal the premises or to evacuate immediately. Explosion of chemical agent can be fatal.

21.5 Duties of Departments :

After a terrorist attack at station/train , the DRM of affected Division should take the situation under control and immediately advice the RPF and other department to rush the spot immediately for relief and rescue work.

The duties of RPF is vital in the terrorist attack. They should immediately inform state police and rush to the spot with full force to handle the situation.

21.5.1 **Duties of RPF department**

- ❖ Evacuate the injured and un-conscious persons from the affected zone with the help of ODRAF, NDRF, GRP and Local Police etc.,. Permission has been accorded by Home Ministry (vide their letter no-VI-24022/11/2002-PM-I, dtd. 24-12-2002, addressed to Home Secretary of all states), that State Govt. or Police clearance is not required for launching rescue operation for the purpose of saving human lives.
- ❖ If there is fire or collapse of building, State's fire service to be informed immediately.
- ❖ They should be careful to stop panic.
- ❖ Affected area is to be cordoned.
- ❖ Attack of terrorist may be at any place, even religious places are not left, but Railway disaster is mainly concerned with Railway property such as Railway stations, trains, colony, offices, workshops. So they should be prepared in all respect.
- ❖ They should protect the belongings of the passengers.

21.5.2 **Duties of medical department-**

- ❖ Terrorist attack may cause loss of life, serious/minor injury to people. On receipt of the information of a terrorist attack on any Railway establishment, the ARME in-charge should rush to the spot immediately with sufficient nurse and doctors.
- ❖ They should have sufficient number of stretchers.
- ❖ Ambulance with life saving medicines, dressing materials, Tetanus toxoid and Intravenous fluids.
- ❖ First aid to be given to injured and seriously injured to be shifted to the nearest hospital.

21.5.3 **Duties of Mechanical department:-**

- ❖ During terrorist attack train may be seriously damaged/de-railed, in such situation senior most Officer should rush the site immediately by fastest means.
- ❖ 140 T crane/ART/ARME may be ordered as per the requirement.
- ❖ Senior most officers should monitor the rescue operation at site.

21.5.4 **Duties of Operating Department:**

Movement of Advance Pilot:- In case there is a threat to Railway assets such as track, bridge tampering, threat of sabotage by terrorist, Chief Operations Manager shall decide to run an advance pilot ahead of important mail/express or other trains as occasions demand. In this case, an advance pilot shall be an engine (preferably a Diesel engine) with composition as required as well as with necessary security arrangement to be run. The speed of advance pilot should not exceed 80 Kmph and 60 Kmph during day and night respectively and 10 Kmph during bad weather impairing visibility. The first train should follow the advance pilot after a time interval of 10 minutes. The speed of the following train shall not exceed 60 Kmph and 40 Kmph during day and night respectively. In case of any sabotage to the track or advance pilot, efforts may be made to protect the site. The loco pilots of the following train must be most vigilant, cautious and be prepared to stop his train short of any obstruction.

21.5.5 **Duties of Commercial Department:-**

- ❖ Commercial staff should guide the affected passengers regarding their safety.
- ❖ Adequate food and drink to be arranged for the distressed passengers.
- ❖ Alternative arrangement may be made for the safe return of the distressed passengers.

- ❖ Payment for compensation to be made to the kin of the dead.

21.5.6 Duties of Personnel Department-

- ❖ Welfare Inspectors of Personnel Department should keep the record of the dead/injured for the payment of compensation.
- ❖ They should assist the Commercial Department for the payment.

21.5.7 Duties of Engineering Department:-

- ❖ Terrorist attack may damage the Railway track/ bridges. Sufficient number of rails and bridge girders may be stocked at suitable places.
- ❖ Boulder and sand may be stocked at places to meet the situation.

21.5.8 Duties of S&T Department:-

- ❖ The attack may damage the communication and signaling system.
- ❖ Satellite phones and VHF sets are to be kept ready in ART/ARMES

(Chapter- 22) **CHEMICAL DISASTER**

22.0 Handling large quantity of HAZCHEM (Hazardous Chemical) in installation, isolated storages and transportation, poses the grave risk of sudden release of copious quantities of toxicants on the environment. Indian Railway transport these HAZCHEM e.g Petroleum products (petrol, HSD, naphtha etc.), caustic soda, alcohol, compressed gases (LPG), chemical manures, acids, matches etc. These goods are carried either in piece meal system in SLR or wagon or in bulk load in full rake of tank wagons. Indian Railway's Rule for carrying dangerous chemicals i.e. HAZCHEM by rail have been legislated in the Railway Red Tariff Rule 2000 as per which dangerous goods have been classified in the following 8 categories.

- i) Explosives,
- ii) Gases, compressed, liquefied or dissolved under pressure,
- iii) Petroleum and other inflammable liquids,
- iv) Inflammable solids,
- v) Oxidizing substance,
- vi) Poisonous /Toxic substance,
- vii) Radio active substance,
- viii) Acid and corrosives.

Improper or unsafe handling i.e. loading, unloading, leveling and transporting may cause chemical accident/disaster resulting in fire, explosion, toxic release poisoning the environment and combination of the above.

The Bhopal gas disaster in December 1984 brought in to sharp focus the unprecedented potential of HAZCHEM like Methyl isocyanides in terms of loss of life, health, injury and long effect on population.

Petroleum and other inflammable liquids considered dangerous as per Railway Act 1989 (24 of 1989) and have been classified in three classes i.e. class "A", class "B" & class "C".

- Class "A" – Petroleum & other inflammable liquids , the vapour of which having flash point below 23⁰ C .
- Class "B"- Petroleum & other inflammable liquids, the vapour of which having flash point above 23⁰ C but below 65⁰ C.
- Class "C"- Petroleum & other inflammable liquids, the vapour of which having flash point 65⁰ C and above.

A number of factors including human error could spark of chemical accident with the potential to become chemical disaster. These are:-

- i). **Process and Safety system failure.**
- ii). **Technical error:-** Design defect, Fatigue, metal failure, corrosion etc.
- iii) **Human error:-** Neglecting safety instructions while handling the HAZCHEM, deviation from specified process etc.
- iv). **Lack of information/knowledge:-** Absence of emergency warning procedure, non disclosure of line of treatment etc.
- v). **Transportation:-** Transportation in unsafe manner i.e. in leaky container/tank wagons, loose shunting during attachment/ detachment of wagons, rough driving while transporting by rail.
- vi). **Organizational error:-** Poor emergency planning and coordination with public, non compliance of mock drill/exercise.
- vii). **Terrorist attack/sabotage:-** Vulnerable chemical disaster is further compounded by likely terrorist and warfare activities which includes sabotage and attack on HAZCHEM installations/ storage and transportation vehicle. These can occur at any time and at any place.
- Viii). **Improper storage.** Improper storing of HAZCHEM.
- ix). **Packing :** Packing and leveling in unsafe manner.

22.1 Pre-Disaster Measures:-

General Rules regarding acceptance of the dangerous chemicals for carriage by rail are given in Rules 202, 203, 204, 205, 206 of Red Tariff No 20. Those are to be followed meticulously. There are various process of handling the dangerous chemicals. Those are:-

- 22.1.1 Packing:-** Before the dangerous chemicals are transported by rail, it must be packed as per Rule 207.1 & 207.2 of Red Tariff No 20. Rule 207.2 i.e. rule for protection cylinder valves during transportation shall not apply to cylinders containing oxygen or nitrous oxide for medical purposes having water capacity less than 5 liters.

Acid and other corrosives is to be packed by consignor but more precautions need to be taken by concerned Railway Officials, that it is packed strictly in the manner laid down in Rule 807 of Red Tariff No. 20. The outer most package containing acid and other corrosives must be marked with word “**Corrosive**” and name of the acid or corrosive.

22.1.2 Marking and leveling of cylinders or containers:-

Rule for marking and leveling of cylinders are given in Rule 208 & 209 of Red Tariff No 20. It must be ensured that the dates of the last hydraulic test is marked on every cylinder. In case of liquefied petroleum gas cylinder, the quarter of the year of test shall be given additionally in neck ring or on a shoulder plate. It is to be ensured that the words “Highly inflammable” and “Inflammable” as the case may be is marked on every package/container containing inflammable liquids. Every tank wagon used for transportation of petroleum must be marked on each side and rear thereof in letter at least 7cms high on a background of sharply contrasting colour the word “**INFLAMMABLE**” and the name of the liquid transported.

22.1.3 Storage (Refer Rule 211 of Red Tariff No 20).

During storage , the following Points must be ensured.

- ❖ Thin walled cylinders such as LPG cylinders and dissolved gas cylinders shall not be stored in horizontal position.

- ❖ Cylinders containing inflammable gases, other toxic gases shall be kept away from cylinders containing other type of gases.
- ❖ Cylinders shall not be stored along with any combustible materials or explosives or other dangerous goods.
- ❖ Smoking and carrying any type of naked fire must not be allowed near these commodities.
- ❖ All operation of loading, unloading and handling of petroleum and other inflammable liquids shall be conducted between sunrise and sun set. Loading and unloading can be done if adequate lighting arrangement is made. All loading and unloading points of petroleum products must have been provided with adequate fire fighting facilities with trained fire fighting staff.
- ❖ Smoking, taking fire or naked light matches or other article of inflammable nature is strictly prohibited near the storage or loading/unloading point of petroleum liquids.
- ❖ All due precautions should be taken at all times to prevent any escape of petroleum and other inflammable liquids.
- ❖ All the storage place of the dangerous goods like HSD, Petrol, Lubricants etc. must have road access so that fire tender can approach in the event of any major fire.
- ❖ Adequate security arrangements should be made at these locations to prevent any outside interference which may cause any untoward incident.
- ❖ The facility for storage of petroleum products by the Railways should conform the Petroleum Rules 2002 notified in Gazette of India.
- ❖ Where there is storage of petroleum product other than Railway but adjacent to Railway infrastructure, Railway should liaise with such private owners that adequate safety precaution are taken and locations are suitably guarded to avoid any untoward incident that might affect Railway system.

22.1.4 Transportation:-

Petroleum and other inflammable liquids class "A" shall be transported by goods train only. Petroleum and other inflammable liquids class "B" & "C" may be transported in wagons by all trains except passenger train.

Petroleum and other inflammable liquids class "A" may be transported in wagons by mixed train or parcel train on any section on which goods trains are not running provided that immediately after entering any section on which goods train are running, the wagon containing petroleum and other inflammable liquids class "A" shall be detached.

Petroleum and other inflammable liquids shall not be carried in brake van of passenger train. Whenever these commodities are permitted to be carried in brake van the following points must be ensured.

- ❖ The total quantity in the brake van at any one time shall not exceed 50 liters.
- ❖ Petroleum and other inflammable liquids shall not be conveyed in the same carriage with any matches or fuses or appliance producing ignition or explosive or dangerous goods.
- ❖ Package containing petroleum and other inflammable liquids shall be carried only in rear brake van with good ventilation. Packages containing petroleum and other inflammable liquids shall be placed as far away as possible from other packages in the brake van and from the tail light of the brake van.
- ❖ Acids and other corrosives in wagons may be transported by all trains including passenger trains, but not to be carried in the brake van of trains.
- ❖ Acids and other corrosives shall be carried in covered iron wagons and tank wagons. End opening carriages or wagons shall not be used.

22.2 Precautions to be taken during loading/unloading tank wagons:-

- ❖ Tank wagons used for carrying petroleum and other inflammable liquids shall be of a design approved by Chief Controller of Explosives.
- ❖ Tank wagons used for conveyance of petroleum shall be in good condition and free from leakage. In filling the tank wagons, an air space of more than 5 % of the capacity of the tank shall be left. The air space may be reduced to
 - a) 2.5% in case of some important items like HSD, Furnace oil, Kerosene, aviation turbine fuel.
 - b) 4% for some important items like Aviation Spirit, Petrol, Naphtha.
- ❖ All inlets and out lets shall be securely closed.
- ❖ Petroleum and other inflammable class "A" shall not be loaded or unloaded from tank wagons where tank wagons is exposed to spark within 30 meter from any fire, furnace or artificial light capable of igniting inflammable vapor.
- ❖ After unloading petroleum liquid from tank wagons the top cover shall be left open to discharge the vapor.
- ❖ Before filling petroleum liquids in tank wagons, they should be cleaned thoroughly and should be tested for leakage.
- ❖ Tank wagons containing petroleum should not be loose shunted during attachment or detachment
- ❖ Packages containing acids and other corrosives not to be thrown, dropped down or dragged along the ground of floor and care should be taken to avoid striking them against any hard object.
- ❖ When loading and unloading heavy drums or casks cushions of a suitable type, thick coir matting, felt, bags filled with saw dust or similar protection should be used to avoid damage to the drums or casks and to prevent leakage.
- ❖ Whenever practicable, packages containing acids and other corrosives shall be carried or conveyed on trolley or hand barrows.
- ❖ Acids and other corrosives not to be stored or handled with or near explosives or other dangerous goods of inflammable nature.
- ❖ Acids and other corrosives not to be stored or handled with or near foodstuffs or foodstuff empties.
- ❖ The floor of any place or wagon on which acids and other corrosives have been stored or carried shall swept and thoroughly cleaned after removal of the goods there from.

22.3 Rescue Relief and Restoration:-

Railway's expertise in dealing with the miss-happenings like spillage, explosion, catching fire, release of toxic etc. of the dangerous chemicals is very limited. Therefore help from agencies and organizations such as NDRF, ODRAF, IOC, BPCL who have expert in dealing with the hazardous goods is asked for relief and rescue operation during a chemical disaster. The agencies and their contact numbers are given in the Annexure. If any untoward incident related to dangerous chemicals happen in the Railway premises, with out delay those agencies or organization can be called for relief and rescue operation.

The staff of ARMVs, ARTs and a few of the staff maintaining rolling stock which is used for transportation of hazardous chemicals may be trained and equipped with the equipment used for dealing with such material in eventualities.

(Chapter – 23) **CHEMICAL TERRORISM DISASTERS(CTD)**

A terrorist attack involving chemical agents differs from a normal terrorist attack as it results in specific effects on health and can cause fatal injuries, create panic, and affect the morale of the community. The targets of terrorists include market places, densely populated areas, public functions, important dignitaries, water and electricity supplies, restaurants/food

plazas, malls, places of entertainment, busy railway stations in metros and critical and sensitive military, civil and economic institutions.

Chemical terrorism is an act of violence to achieve professed aims using chemical agents. These chemical agents include poisonous gases, liquids or solids that have a deleterious effect on the biotic and non –biotic environment. Due to the relatively easy availability of hazardous chemicals in Major Accident Hazard units, storages and during transportation, terrorists can procure chemicals or even try to sabotage the facilities or transport vehicles as it offers them an easier and often more catastrophic method of anti-national activity. The mode of dispersal used for chemical agents would range from dissemination of aerosolised material to contamination of food and water.

23.1 NDMA's Guidelines :-

The possibility of a chemical terrorism attack can be minimised by spreading general awareness and building the capacity of the community, institutions, governmental and non-governmental organisations.

The approach followed in the NDMA's Guidelines lays emphasis on :

- i) Security and surveillance measures for installations manufacturing/ using/ storing chemical materials.
- ii) Strengthening intelligence regarding the movement of chemicals.
- iii) **Preparedness for counter-terrorism measures:**
 - (a) Issues regarding the safety of chemicals and risk reduction strategies etc.
 - (b) Strengthening of response through rescue and emergency medical resources.
 - (c) Preparedness of all emergency functionaries in terms of protection, detection, de-contamination, de-corporation, capacity building and infrastructure development.
 - (d) Community-centric mechanism for the management of chemical terrorism disasters.

23.2 CTD Preparedness Plan :-

Implementation of the Guidelines at the national level has begin with the preparation of a detailed action plan (involving programmes and activities) by the nodal ministry (MHA) to promote coherence among different CTD management practices and strengthen mass casualty management capacities at various levels. The concerned ministries like MoD, MoEF, Ministry of Railways (MoR), MoL&E (through Employees' State Insurance Corporation (ESIC), MoA etc., have also prepared their respective CTD preparedness plan as a part of all hazard DM Plans. The Railways has an important role in the management of mass casualties in the event of national calamities, Railway should also cater for developing additional capacities besides meeting our own requirements in our preparedness plan.

23.3 Preparedness for Emergency Response :-

Preparedness for an emergency response at the incident site requires protection, detection, and decontamination. SOPs are required for all the emergency responders working under the overall supervision of the incident commander. SOPs will be included for field decontamination. A well-organized medical response to CTD will be possible only by having a command and control function at the divisional level by the Medical Department. The CMO/CMS will be the main coordinator for the management of CTD.

23.4 Guidelines on Chemical Disasters :-

Railway's guidelines/instructions relevant to the zonal railways have been issued for taking necessary action and incorporating suitable provisions in their respective DM Plans. These guidelines will add to the existing safeguards listed in the Red Tariff on handling, storage and transportation of hazardous material.

23.5 Training for the Responders (Preparedness):-

The Medical Department of the Railways has little or no expertise in the effects of different chemicals. This needs to gradually develop initially in a skeleton number (one or two) of Doctors and Para-medics in each Divisional Railway Hospital through training.

(Chapter -24) **NUCLEAR AND RADIOLOGICAL EMERGENCY DISASTER**

Any radiation incident resulting in or having a potential to result in exposure and/or contamination of the workers or the public in excess of the respective permissible radiation limits can lead to a nuclear/radiological emergency. In the incident of Fukushima, plant released a large-scale of radiation in the environment due to failure of cooling system of nuclear facility. The nuclear fuel cycle/ nuclear reactors using radioactive resources burst due to uncontrolled nuclear reaction, in 11th March 2011 earthquake and tsunami resulting triggering of fires, explosions and radiation leaks in the world's worst nuclear disaster since Chernobyl in 1986. The March disaster is believed to have killed more than 24,500 people.

After due consideration of the nature and consequences of all possible scenarios, these radiological emergencies have been broadly classified into the following four categories:

- i. A 'criticality' accident in a nuclear fuel cycle facility where an uncontrolled nuclear chain reaction takes place inadvertently, leading to bursts of neutrons and gamma radiations.
- ii. An accident during the transportation of radioactive material.
- iii. The malevolent use of radioactive material as a Radiological Dispersal Device by terrorists for dispersing radioactive material in the environment.
- iv. A large-scale nuclear disaster, resulting from a nuclear weapon attack (as had happened at Hiroshima and Nagasaki), which would lead to mass casualties and destruction of large areas and property.

Normally, nuclear or radiological emergencies (referred to in points i to iv above) are within the coping capability of the plant/facility authorities. A nuclear emergency that can arise in nuclear fuel cycle facilities, including nuclear reactors, and the radiological emergency due to malevolent acts of using Radiological Dispersal Devices are the two scenarios that are of major concern. The impact of a nuclear disaster (scenario at (iv)) will be well beyond the coping capability of the local authorities and it calls for handling at the national level.

As regards the vulnerability of various nuclear fuel cycle facilities to terrorists attacks, these facilities have elaborate physical protection arrangements in place to ensure their security. The structural design of these facilities ensures that even in the event of a physical attack, the structural barriers prevent the release of any radioactivity outside the plant area itself and hence the public shall not be exposed to radiation.

While their radioactive strength is in itself a deterrent to pilferage, the radioactive sources can still be stolen and used in a Radiological Dispersal Device or Improvised Nuclear Device. Essentially, a Radiological Dispersal Device is a conventional explosive device in which the

radioactive material has been so added that, on its being exploded, there would be dispersal of radioactivity in the environment.

A Radiological Dispersal Device is not a Weapon of Mass Destruction. Normally, the use of a Radiological Dispersal Device by itself would not result in fatalities due to radiation. The fatalities, if any, would primarily be due to the explosion. However, it may contaminate a reasonably large area, besides its main potential of causing panic and disruption.

There are well-established international treaties for the control of fissile materials, because of which the possibility of fissile material falling into the hands of terrorists is extremely low. However, if these treaties are violated through state-sponsored activities, access to fissile materials by terrorist group cannot be ruled out.

Accidents during the transportation of radioactive materials are of low probability due to the special design features of the containers in which they are transported and special safety and security measures (to take care of all possible threats/ eventualities, including the threat from misguided elements) which are laid down to be followed rigidly during actual transportation.

A network of 18 Emergency Response Centres has presently been established by the Bhabha Atomic Research Centre to cope with radiological emergencies in the public domain, like transport accidents, handling of orphan sources, explosion of Radiological Dispersal Devices etc. The task of these Emergency Response Centres is to monitor and detect radiation sources, train the stakeholders, maintain adequate inventory of monitoring instruments and protective gear, and provide technical advice to first responders and local authorities.

In this chapter a concise concept has been provided regarding, how a nuclear and radiological disaster could take place and how to tackle the disaster.

(Chapter -25) **BIOLOGICAL DISASTERS**

25.1 Causes of Biological Disasters :-

Biological disasters might be caused by epidemics, accidental release of virulent microorganism(s) or Bioterrorism (BT) with the use of biological agents such as anthrax, smallpox, etc. The existence of infectious diseases have been known among human communities and civilisations since the dawn of history. The classical literature of nearly all civilisations record the ability of major infections to decimate populations, thwart military campaigns and unsettle nations. Social upheavals caused by epidemics have contributed in shaping history over the ages.

In recent times travelling has become easier. More and more people are travelling all over the world which exposes the whole world to epidemics. As our society is in a state of flux, novel pathogens emerge to pose challenges not only at the point of primary contact but also in far remote locations.

25.2 Biological Warfare (BW) and Bio-Terrorism (BT) :-

The historical association between military action and outbreaks of infections suggest a strategic role for biological agents. The advances in bacteriology, virology and immunology in the late 19th century and early 20th century enabled nations to develop biological weapons. The Biological and Toxin Weapons Convention, however, resolved to eliminate these weapons of mass

destruction. Despite considerable enthusiasm, the convention has been a non-starter.

25.3 Mitigation :-

The essential protection against natural and artificial outbreaks of disease (bio-terrorism) will include the development of mechanisms for prompt detection of incipient outbreaks, isolation of the infected persons and the people they have been in contact with and mobilisation of investigational and therapeutic countermeasures.

Therefore proper surveillance mechanism and response system should be developed in places where epidemics can be detected at the beginning stage of their outbreak can be controlled easily.

In the case of deliberately generated outbreaks (bio-terrorism) the spectrum of possible pathogens is narrow, while natural outbreaks can have a wide range of organisms. The mechanism required however, to face both can be similar if the service providers are adequately sensitised.

The Data base of medical care infrastructure with capability of casualty evacuation and treatment, have an important role to play in managing the Biological Disaster cases is available in Divisional DM Plan.

25.4 Support of other: -

To manage these challenges medical department coordinate with the nodal Ministry-Ministry of Health and Family Welfare (MOH&FW) with inputs from the Ministry of Agriculture for agents affecting human, animals and crops.

25.5 Handling CBRN Disaster – Training :

With the help of trained Doctors Medical Department should be able to handle and provide adequate medical relief for all cases of CBRN disaster (Biological Disaster include a BW and BT affected Railway staff) by consultation with Local Civil Administration and Health Administration.

A skeleton number of Medical Doctors in each Divisional Hospital to be trained to manage CBRN casualties.

(CBRN- Chemical, Biology, Radiology & Nuclear)

MANAGEMENT OF CRISIS

26. To deal with the crisis situations, the following committees shall be activated:

- (a) National Crisis Management Committee (NCMC)
- (b) Crisis Management Group (CMG), and
- (c) Zonal Management Group (ZMG)

26.1 National Crisis Management Committee (NCMC):

26.2 The NCMC is the apex body comprising senior officials of the Government of India to deliberate on the problems at national level. The following officers will represent the Ministry of Railways (Railway Board) in NCMC for the various crisis situations:-

- | | |
|---|---|
| (i) All India Railway Strike | : Member Staff
Member Mechanical
(Alternate). |
| (ii) Terrorism/Security related Crisis | : Member Staff
Member Traffic
(Alternate) |
| (iii) Natural Factor(s) related Crisis | : Member Engineering
Member Traffic
(Alternate) |
| (iv) Major Train Accidents | : Member Traffic
Member Mechanical
(Alternate) |
| (v) Crisis where railways have to help other ministries | : Member Traffic
Member Staff
(Alternate) |

Names, telephone numbers and addresses of the Members / alternate Members, who will represent the Ministry of Railways in NCMC are contained in Annexures:-

26.3 Crisis Management Group (CMG):-

The CMG is the Executive Authority responsible for dealing with the crises and shall work under the broad guidelines and directives issued by NCMC. It shall be in constant touch with the NCMC on the one hand and the concerned Zonal Management Group on the other. In addition to the concerned officers of the Railway Ministry, nodal officers from the concerned Ministries should be contacted (Annexure-12) if help is needed from the other ministries for effectively dealing with the various crisis situation; e.g. Ministry of Defence should be contacted for air support and/or expert help like divers, boats etc. However, Control Room of MHA should be kept informed of the developing situation for assistance as warranted. In case of difficulty in getting to the nodal officer of the concerned ministry, Control Room of MHA can be contacted.

26.4 The overall composition of the Crisis Management Group including the names, telephone numbers and address of its members for dealing with various crisis situations are given in Annexures as detailed below:-

- | | |
|--|---|
| | Convener/
Overall composition of
The Central Management Group |
| (i) All India Railway Strike | : Additional Member(Staff)/ |
| (ii) Terrorism/Security related Crisis | : Director General (RPF)/ |

- | | |
|---|--|
| (iii) Natural Factor(s) related Crisis | :Additional Member (CE)/ |
| (iv) Major Train Accidents | :Additional Member Traffic Advisory (Safety) |
| (v) Crisis where railways have to help other ministries | :Additional Member Traffic/ |

26.5 The list/names of the Members of the CMG will be updated and circulated by the Safety Directorate of Railway Board every year.

26.6 Members of the CMG will first assemble in Emergency Control Room of Railway Board in Room No. 476 K (Telephone Nos. Railway 43399, 43599; P&T 23382638, which is located on the 4th floor of Railway Bhawan, at Raisina Road, New Delhi – 110 001. Depending upon the type, gravity and duration of the crisis, the convener of the CMG will decide to operate either from the control room of the respective directorate or from the Railway Board Committee Room on the 2nd floor of Rail Bhawan.

26.7 Zonal Management Group (ZMG)

26.7.1 ZMG is the same for all types of crisis. The Zonal Management Group (ZMG) shall be established at the Zonal Railway Headquarters and would comprise of the following Officers of the Zonal Railway Headquarters:

- | | | |
|--------|---|----------------------------|
| (i) | Additional General Manager | : Convenor |
| (ii) | Principal Chief Engineer/
Chief Engineer (Co-ordination) | :Member/Alternate Convenor |
| (iii) | Chief Security Commissioner | : Member |
| (iv) | Chief Personnel Officer | : Member |
| (v) | Chief Operation Manager | : Member |
| (vi) | Chief Mechanical Engineer | : Member |
| (vii) | Chief Electrical Engineer | : Member |
| (viii) | Chief Signal and Telecommunication
Engineer | : Member |
| (ix) | Chief Safety Officer | : Member |
| (x) | Chief Public Relations Officer | : Member |

26.8 The Zonal Management Group will assemble in the Disaster Management / Emergency Control Room of the Zonal Railway Headquarters and will keep in touch with CMG till the termination of the crisis.

(Chapter -27)
STRIKE MANAGEMENT

27.0 CRISIS SPECIFIC ACTIONS

27.0.1 ALL INDIA RAILWAY STRIKE

27.0.2 The composition of the Central Management Group to deal with the crisis situation is given at Annexure-6

27.0.3 All the Zonal Railways have 'Strike Scheme' based on the vulnerabilities on their system. Strike Scheme is updated and reviewed by the zonal Railways from time to time. All the ZMGs will implement their respective 'Strike Scheme' at all levels and will keep CMG informed of the developments and assistance needed.

27.0.4 The broad guidelines and general instructions of the strike scheme is to attain the following objectives:-

- (a) To provide an emergency organization to operate the Railway under such conditions as and when a large section of the Railways employees may go on strike which may also be accompanied by sabotage, intimidation of loyal staff or even civil unrest.
- (b) To keep open in the event of a strike, Railway lines alongwith communication lines and to run the greatest possible number of passenger and goods services of an essential nature.
- (c) To safeguard and, in general, to prevent damage to Railway property, especially vital installations.
- (d) To protect, as far as practicable, Railway personnel who do not wish to join the Strike and to enable them to continue their work unmolested.

INSTRUCTIONS FOR DEALING WITH CRISIS SITUATIONS

27.1.0 FLOW OF INFORMATION

27.1.1 On receipt of information of the crisis from the field unit, it should be immediately passed on to the concerned Divisional Railway Control Room, which in turn will immediately pass it on to the Emergency Control Room of the Zonal Railways Headquarters, and the Emergency Control Room of the Railway Board at Rail Bhawan.

27.1.2 Liaison Officer nominated at the Zonal Railway Headquarters will also immediately pass on the information to Disaster Management Control Room in Ministry of Home Affairs, North Block, New Delhi, which is operational round the clock.

27.1.2 The Divisional Railway Control Room will also simultaneously communicate the information regarding the crisis to the following:
(i) All Branch Officers of the Division including Security for security related crisis.
(ii) District Magistrate concerned.
(iii) Distt. Supdt. Of Police concerned;
(iv) Chief Medical Suptt. (Railways), and to Distt. Civil Surgeon concerned.
(v) Chief Fire Officer of the District concerned.

27.1.3 The Divisional control room will mobilize railway and non-railway resources to meet with the crisis situation locally as per the provisions of their accident manual, strike scheme and disaster management plan.

27.1.4 The Officer Incharge of the Emergency Control Room of the Zonal Railways Headquarters would immediately pass on this information to all members of the

Z.M.G. who will assemble in the Emergency Control Room at their respective Railway. The convenor of the Z.M.G. besides passing on immediately the information regarding the crisis and the developments threat to Convenor of C.M.G either directly; or through the Central Contrl Office, will also pass on the same to the following and other concerned authorities.

- (i) Chief Secretary,
- (ii) Director General of Police

- 27.1.5 When a situation is of an extremely urgent nature, which does not permit adequate time to consult the CMG, the ZMG shall handle the situation in the best possible manner and as per the extant instructions laid down for dealing with the crisis situation. The ZMG will make all out efforts to mobilise needed resources by all possible means to manage the crisis as per the provisions of their accident manual, strike scheme and disaster management plan.
- 27.1.6 The officer Incharge of the Safety Control Room at Room No. 476-K in Rail Bhawan (P&T phone No. 23382638 and Railway Phone No. 43399, 43599) which is manned round the clock would immediately inform all the Members of CMG by the quickest possible means and give brief information about the nature of the crisis. The Convenor or his representative will convey information regarding the crisis situation to the Memebtrs of N.C.M.C.
- 27.1.7 The CMG wil interact with NDM control room and officials of the other ministries to arrange for the support needed from them
- 27.1.8 As soon as the report about the crisis is received, the convener of the CMG will decide to operate either from the Control room of the respective directorate or from the Railway Board Committee Room on the 2nd Floor of Rail Bhawn depending upon the type, gravity and duration of the crisis. The respective Control Room will be named as Emergency Control Room and its working will be upgraded in view of the crisis and will be manned round the clock under the charges of an Emergency Officer, not below the rank of Joint Director in each shift.
- 27.1.9 The main functions of such Emergency Control Room will be as under:-
- (a) To get situation reports on a continuous basis from the site;
 - (b) To keep all the concerned Officers of the various disciplines in the Railway Board as also in the concerned Ministries informed of the developments.
 - (c) To convey instructions and guidelines to the Officers In-charge of Relief Operations at site.
 - (d) In case where Railways have to help and assist other Ministries in crisis situation, the emergency control office will maintain continuous liaison with the Nodal Ministry dealing with the crisis situation, and arrange assistance from the Railway as per the requirements and in coordination with the Nodal Ministry.
- 27.1.10 All the Control Rooms at Rail Bhawan will have the names and telephone nos. of all the Memebtrs of the CMG to deal with the various crisis situation. On being informed about the development of the crisis situation by the Official Incharge of Emergency Contrl Rook, the Joint Secretary, Railway Board, will make available adequate numbers of transport and Typists/Stenographers for working in shifts, round the clock with the Emergency Contrl Room for efficient discharge of its functions.
- 27.1.11 In order to avoid any panic and also with a view to conveying correct information to members of public, the Z.M.G. and C.M.G. will nominate senior officers of the Public Relations Deptt. at all three places, i.e the crisis area, the Z.M.G Hd.Qrs and CMG

Hd.Qrs to coordinate the activities of Media and for issuing information bulletins at proper intervals.

27.2.0 Role of Other Minsitries/Departments

- I. Railway is the nodal agency to deal with this crisis situation. Other ministries/departments will render help and assistance to the Railways to deal with this crisis.
- II. Strike Scheme of all the concerned zonal railways is circulated to the District Magistrate and Superintendents of Police of the concerned districts and the Chief Secretaries and Directors General of Police of the concerned states. They will ensure that the provisions contained in the Strike Scheme booklet are read and understood by them so that the same can be implemented at the time of actual happening. Local SOPs will be drawn by the police and civil administration for facilitating ground operations at the time of crisis.
- III. Railway and Civil intelligence agencies will exchange and share information indicative of any developments leading to the Railway strike. Local intelligence agencies will also communicate information about the confidential activities of the striking employees to the Railway Administration on continuous basis.
- IV. Local Civil administration and the Police will actively associate in the deployment plan to be prepared by the Railway Protection Force to guard the critical operational installations like signaling rooms, ASMs cabins/offices, running rooms, etc., vulnerable locations like tunnels, bridges, etc. manning and escorting of selected strategic trains, etc.
- V. On contacting by the Railway Administration in the event of the strike, local police and Civil Administration will extend assistance to maintain law and order to facilitate working of the railway. Local Police Agencies will also act as per the deployment plan to extend help in guarding the critical railway installations and for escorting of trains.
- VI. Local civil administration will ensure and assist railway in mustering assistance from non-railway agencies like Public Works Departments, Irrigation departments, Private Agencies in having the specialized equipment available with them to facilitate smooth operations.
- VII. Services of Para-Military services available in the affected region will also be extended, if needed through Ministry of Home Affairs.
- VIII. Territorial Army will be deployed as demanded by the Railways through Ministry of Defence.
- IX. Local fire services will be on the alert for their movement at the short notice in the event of fire/arson as reported by railways.
- X. Government owned hospitals, private hospitals and other rescue resources will be on alert to take care of any medical related contingency that may occur during this period.
- XI. All other agencies of the local administration will be on alert to render help on short notice to ensure that railways run as smoothly as possible with all the resources pooled together.

27.2.1 Terrorism/Security related Crisis

27.2.2 The composition of the CMG to deal with this crisis situation will be as per Annexure-7.

27.2.3 Crisis like explosions on the Railways, large scale sabotage involving blowing up of bridges and tracks require assistance of a more elaborate nature from outside. Ministries or other agencies which may have to be tackled at the National Level. Under such situations, Railways need to take the help of other Government and Non-Government Agencies for their expertise. Contact details of all such agencies should be included in the Disaster Management Plans of Zonal railways and divisions, which should be updated once every year in January. In addition to the hard copies,

railways should also have the web-based electronic versions of Disaster Management Plans on their Railnet server for expeditious search of the key information at the time of Crisis.

- 27.2.4 Under these situations, the instructions contained in the Railway Accident Manual/disaster management plan would be applicable with suitable modifications as required by local circumstances. In these situations the GRP and Civil Police would play a more important role as they would be investigating the criminal case relating to sabotage/explosion, which would need a lot of assistance from the agencies would be done by the senior-most railway officer present at the site, he should specifically nominate a senior RPF officer to coordinate with the police agencies.
- 27.2.5 In cases of large-scale incidents of sabotage or explosion on railways, requiring assistance from Ministry of Home Affairs, Cabinet Secretariat and the State Government, Director General, Railway Protection Force, will coordinate on behalf of the Railway as convener of CMG for this crisis.

27.3.0 Role of other Ministries/Departments

(i) Ministry of Home Affairs is the nodal agency to deal with this crisis situation. Railways at operational level will render help and assistance and will facilitate to deal with this crisis on the railway system.

(ii) Intelligence agencies will keep informing the railway administration and the local police about the likely terrorist attacks/sabotage on the railway system. Local police will co-ordinate and liaison with railway authorities in warning of any imminent danger.

(iii) Local Police responsible for the maintenance of law and order in the region will have SOPs in place in co-ordination with all the other agencies like Railway Protection Force, Govt. Railway Police, locally deployed staff of the railway to guard vulnerable railway installations like major railway stations, trains, vulnerable locations, etc. It will act according to this SOP on receipt of intimation of any terrorist/security related crisis. It will take command of the situation and order the railway authorities at the site of the incident to facilitate their operation. It will cordon off the affected area to facilitate the rescue relief and restoration work.

(iv) Civil administration will alert government and private hospitals and rescue resources to reach the site to take care of the victims. Trauma centres, if any, in the region should be alerted to receive the victims for their expeditious treatment.

(v) Local civil administration will organize surveillance of the terrorism prone area after the event to preclude another happening.

(vi) MHA will activate National Security Guards and help from other security related agencies to reach the site of crisis and take over from the local personnel for large operations.

(vii) MHA will also requisition national disaster response force, if so considered essential for the crisis and will direct the force to reach the place of crisis.

(viii) Ministry of Health and Family Welfare is procuring a container based Mobile hospital. Once it is in position, it can be deployed for major disasters, if the situation so warrants.

(ix) Ministry of Defence will mobilize defence personnel to take over the crisis situation as per the need.

27.3.1 Natural Factors Related Crisis.

- 27.3.2 The composition of the CMG to deal with this crisis situation will be as per Annexure-8.

- 27.3.3 On receipt of warning about any imminent cyclone, flood etc. that can affect the railway system, the concerned railway administration will take immediate steps to warn the field units well in advance to mitigate the effect of such an event. For this purpose every zonal railways will have provisions in their respective disaster management plan which should immediately invoked to action.
- 27.3.4 ZMG in the zonal Headquarter will assemble in the disaster management control room and will take appropriate measures to mobilize resources from all the agencies to manage the situation. It will assist, help and guide divisional railway managements in their endeavours and will organize to supplement their efforts under such crisis situation.
- 27.3.5 ZMG will also approach other ministries through NDM control room and also through the CMG in the Railway Board for any help needed at their level.

27.4.0 Role of Other Ministries/Departments.

- I. Meteorology department will communicate the natural factors like cyclone, heavy rains, earthquake related information to the local railway administration to have them warned of any imminent crisis situation.
- II. SOP for transmission of the warning to the field units will be immediately activated to take appropriate preventive measures.
- III. On serious disruption of traffic on the railways, local agencies like public works department, irrigation department, local defence and para-military units will assist railways as per the request from the railway administration
- IV. Local civil authorities and police will assist railways in ensuring security of passengers in the stranded trains and at the stations. They will also assist in reaching water and food to the stranded passengers with help of defence/para military personnel, if so needed.
- V. Local Civil administration will assist railways in harnessing resources from non-govt. agencies also e.g. divers, earthmoving equipment, etc.
- VI. Resources with all the agencies will be pooled and leveraged to help evacuation, if so needed.
- VII. Department of Space will provide flood inundation map/information to the concerned Railway Administration to facilitate their being warned of any imminent crisis situation.

27.4.1 Major Train Accidents.

- 27.4.2 The Composition of the CMG to deal with this crisis situation will be as per Annexure-VIII.
- 27.4.3 On receipt of information of a Train Accident involving/suspecting injuries or death of passengers, Accident Relief Medical Equipment Vans (ARMVs) and Accident Relief Trains (ARTs) which are stationed at strategic locations, are immediately turned out for the site of accident with Doctors, Paramedical Staff, rescue workers and Engineers.
- 27.4.4. All Railway Men, since their recruitment, are made aware of sacredness and vital importance of dispatch and movement of ARMVs and ARTs within prescribed time.
- 27.4.5. The Medical Team attends to the injured passengers and seriously wounded are transported to nearby hospitals.
- 27.4.6 The cost of such treatment is borne by the Railways. Dead bodies are handed over to police for further action such as autopsy, for medico legal purposes.
- 27.4.6. ZMG will also approach other ministries through NDM control room and also through the CMG in the Railway Board for any help needed at their level.

27.5.0 Role of Other Ministries / Departments.

With the enactment of the Disaster Management Act – 2005 which envisages participation by all stake holders based on their expertise, the golden hour i.e first hour after the accident is to be generally managed by the few on board railway staff, railway staff working at nearby areas, unaffected train passengers, local police and fire brigade, local hospitals and doctors, other relief rescue workers in the nearby areas. Keeping the above in view, zonal railways are coordinating with the non-railway, govt./non-govt. resources available with various agencies so that the same can be requisitioned immediately to help the affected persons. This information has been made part of the Disaster Management Plans of the Zonal Railways.

27.5.1 CONTINGENCY PLAN WHERE RAILWAYS HAVE TO HELP AND ASSIST OTHER MINISTRIES IN CRISIS SITUATION.

27.5.2 Ministry of Railway will provide emergency support and assistance to other Ministries mostly in regard to rail transportation. For this purpose Ministry of Railways has issued an Emergency Support Function Plan (ESF) vide 2003/Safety (DM)/6/3 dated 25.10.04 nominating Quick Response Teams (QRTs) at the Ministry level and Zonal railway level as well. QRT at the level of Ministry of Railway is CMG for dealing with the crisis situation to help other Ministries is given at Annexure-9.

27.5.3. The CMG will obtain directions from NCMC and organize the necessary relief operations through field level QRTs.

27.5.4 The concerned Ministry will make their own Contingency Plan bringing out the assistance required from the Railways, which will be mobilized.

27.6.0 **Strike:-** Strike is a stoppage to perform work by mass refusal of employee. Strikes are some times used to put pressure on government/employer to change policies. Occasionally, strikes destabilize the rule of a particular political party. Certain categories of person may be forbidden to strike such as health personnel, police, RPF & GRP, Firemen etc.

27.7.0 Types of Strike.

- i). General strike:- All employee participating in strike. It may be forbidden by a public order.
- ii). Hunger strike:- Voluntary refusal to eat by employee as form to protest and to fulfill their demand.
- iii). Mass Sick:- Where laws prohibit certain employee from declaring a strike, they report sick enmass to fulfill their demand.
- iv). Pen down / Tool down strike:- Though employee are present on duty, they do not perform their duties in protest against some policy of the organization.

27.8.0 Strike preparation:-

Most strikes called by union are some what predictable. Since strikes are spontaneous action by working people, they may be serious some times life threatening and safety hazards in the work place. Therefore security of the work place may be enhanced. Unauthorized person should not be allowed to enter into the work place. Gathering in and around the work place should not be allowed.

Management should negotiate with the union leaders to settle the dispute and avert the strike.

27.9.0 Effect of strikes:-

- a). Stoppage of work which may affect the production of a production unit.
- b). Service/communication break.
- c). Stoppage/reduce maintenance outage of a maintenance unit.
- d). Create inconvenience to public.

27.10.0 Action during strike:-

27.10.1 Duties of security department :-

During a Railway strike, the Railway security department should be well alert. They should depute adequate staff at the work place to protect the Railway property and infrastructures from damage and destruction by the agitated people. During strike there may be some staff who do not participate in strike and come to work. So adequate security for them should be arranged so that they can work with out fear.

27.10.2 Duties of commercial department:- The Concerned department should arrange food and water etc., for the staff who do not participate in strike and come for work. Such arrangement can be done through IRCTC or by any other alternate means. The respective department may also be arranged for night halt if needed.

27.10.3 Duty of medical department:- Strike may cause violence which result injury to staff. So doctors may be available with readiness for any emergency situation. All medicines should be available in the hospital. Ambulance should be kept ready.

27.10.4 Duty of personnel department:- Personnel department should depute inspectors to monitor the welfare of the staff working during strike period. They should keep the record of the attendance of the staff present during strike. Staff may be hired if required and help from state government, military, paramilitary, territorial army also may seek for to continue the service to public.

27.10.5 Duties of Engineering Department:- During Railway strike the agitated staff may damage track, bridges. So adequate spare to be kept ready at suitable location to replace/ repair the track / bridges. Help from TA may be sought for to guard the track/bridges.

27.10.6 Duty of Mechanical Department:- During strike the train may be forcible stopped at some places and may cause cancellation of trains due to non availability of rake. So additional rakes may be kept ready to run the trains.

27.10.7 Duty of Electrical Department:- During strike power supply may be cut off. So Generator of suitable capacity may be arranged to supply power to colony and Work places.

(CHAPTER-28)

TUNNELS/ DEEP CUTTINGS OR IN A WATER BODY DISASTER

28.1 Expertise To handle Rail Disasters in Tunnels etc. :

The Railways have no expertise or infrastructure to handle a train disaster if it occurs in a tunnel or in a deep cutting not approachable by land. No machinery, or earth moving equipment is available on the Indian Railways which could be mobilized for this job.

28.2 Ventilation arrangements in Tunnels :

Adequacy of ventilation arrangement and its efficient operation is always a matter of concern especially in very long tunnels. There are ventilation systems installed with alarms to warn the control rooms in case of a mishap.

In case a train stalls in long tunnel due to derailment/fire or any unusual condition automatically alarm will be sounded in the control room to alert the Ventilation Operator controller or if Guard/Driver of a train or any other person gives such call on 'Emergency' Telephone the ventilation operator should control the ventilation in tunnel as per the procedure given.

28.3 Handling Rail Disasters in a Lake, River, Sea etc. :

The Railways neither has the equipment (cranes operated from barges) nor trained manpower to extricate bodies from a train or coaches fallen down from a bridge on to a water body, viz lake, river or sea etc.

28.4 Assistance of NDRF and State Governments :

The Zonal Railway has to contact the respective NDRF Battalion for assistance; or if trained manpower alongwith equipment is available then even the resources of the State Government can be made use of.

Managing of Crowds

29.1. Guidelines by NDMA.

National Disaster Management Authority (NDMA) has issued a guide for administrators and organizers of events and venues for managing crowds in 2014. The scope of the guidelines involves study of past crowd disasters, framework for administrators to plan and manage events better, to provide practical guidelines to venue managers and event organizers etc.

29.2. Salient features of NDMA guidelines.

Important aspects of planning for events/places of mass gathering includes understanding the visitors, various stake holders and their needs, crowd management strategies, risk analysis and preparedness, information management and dissemination, safety and security measures, facilities and emergency planning, transportation and traffic management. One of the important points to be kept in mind is the demand and supply gaps. Depending on the type of event, venue and type of crowd expected proper signage have to be planned. Specific focus should be on fire, electrical and structural safety. NDMA has suggested the following guidelines on IncidenceResponse System.

- (i) Systematic and complete planning process.
- (ii) Clear cut chain of command.
- (iii) System of accountability for the incident response team members.
- (iv) Well thought out pre-designed roles for each member of the response team.
- (v) Effective resource management.
- (vi) System for effectively integrating agencies into the planning and command structure without infringing on the independence of the concerned agencies;
- (vii) Integration of community resources in the response effect and
- (viii) Proper and coordinated communications set up.

29.3 Crowd control and management.

For effectiveness management of crowd, RPF, GRP and District Police have to act in a synchronized manner in consultation with magisterial authorities. Chapter 10 (Maintenance of Public Order and Tranquility) of the Criminal Procedure Code (Cr.P.C.) Part-A deals with 'Unlawful Assemblies'. Legal procedures are outlined in Sections 129 to 132 of the Cr.P.C. for dealing with Unlawful Assemblies. These provisions empower Members and Officers of Armed Forces (RPF is an Armed Force of the Union) to deal with Unlawful Assemblies.

One of the intelligent video analytics to be incorporated in the Integrated Security System is related to signal for crowd density within station premises when it exceeds the prescribed limit. This will enable RPF personnel and railway authorities to get timely information when heavy crowd builds up within station premises and accordingly plan follow-up action. Pictures stored on CCTV system will be of immense help in identifying miscreants and in ensuring effective legal action.

We should prescribe preventive protocols, when laid down footfalls defined separately for important stations become extraordinarily high, as during Melas or other exceptional situations. It may not be out of place to ban all commercial vending and parcel handling on such occasions.

It is important to press upon the District Magistrate (Dy. Commissioner) or the Civil Police (Senior Superintendent of Police) to give an approximate indication of the number of persons likely to reach Railway stations in the days when rush is expected. Even more important is the number of such persons reaching each Railway station within one to two hour time slots. Unless this information is given, it would not be possible for Railways to plan special trains. The OD flows of the passenger is very important to plan destination wise running of special trains. It may be kept in mind that often the Inward and outward passenger traffic is not equal; there are wide variations. Further the inward rush comes in a staggered and spaced interval; the outward rush goes back at one go. It would be essential for the Zonal Railway or Division to impress upon the State Government (or the District Magistrate) in writing of their peak

capacity to clear rush, as also they can do so only direction wise. The District Administration has to regulate and control the entry of more than this number beyond which (in 1-2 hourly slots) the Railway would be unable to evacuate.

29.4 Role of responsibility of Zonal Railways/Divisions :-

Depending upon the past experience Zonal Railways/divisions should identify events of mass gathering over their system. The events can be of periodic in nature or one time events where mass gathering of passengers is expected in the station which is beyond the normal capacity that can be handled at that station.

Concerned Zonal Railway/division should have a close coordination with the organizers and law enforcement agencies to understand crowd arrival and departure, their numbers for each such event. Railway administration should identify the threats, assess the risk and plan accordingly. Based on the past experience a coordinating officer should be nominated for better planning and execution of crowd management at the station. He should be designated as incident commander and shall be overall in charge of that particular station. He shall be assisted by staff drawn from the respective departments to discharge his/her functioning.

29.5 Crowd control and Management of rush at Railway Stations: -

Specific defined areas of jurisdiction for crowd control and duties assigned to GRP/RPF and the city Police needs to be placed on record much before the expected days of rush.

Close coordination has to be maintained between the 3 wings of security personnel:-

Railway Protection Force,

Civil Police and

GRP with well defined areas of responsibilities.

The car and other vehicle parking facility at a station may be discontinued, sale of Platform Tickets can also be banned for short period of time. RPF and GRP personnel deployed on each platform will monitor crowds and rush build up in the circulating areas, booking windows, station platforms and mainly on the FoBs. Special teams of commercial staff will liaise with the RPF/GRP and relay 2/4 hourly position to a centralized location viz. commercial control who will advise the need for running of special trains to specified destination to the operating departments control room.

Tsunami Management

30.1 Tsunami risk:-

The tsunami risk and vulnerability which the coastal communities in India are exposed to, even by a distant high intensity earthquake in Indonesia, came as a shock and surprise to the unsuspecting public.

Most Tsunamis are caused by earthquakes (of magnitude more than 6.5 on the Richter Scale), with a vertical disruption of the water column generally caused by a vertical tectonic displacement of the sea bottom along a zone of fracture in the earth's crust which underlies or borders the ocean floor. Tsunamis are also generated by volcanic eruptions and submarine landslides, nuclear explosions, and even due to impact or fall of large size meteorites, asteroids, and comets from outer space.

Tsunamigenic zones that threaten the Indian Coast have been identified by considering the historical tsunamis, earthquakes, their magnitudes, location of the area relative to a fault, and also by tsunami modelling. Both the east and west coasts of India and the island regions are likely to be affected by tsunamis from the five potential source regions, viz., the Andaman-Nicobar-Sumatra island arc, Indo-Burmese zone, Nascent Boundary (in the central Indian Ocean), Chagos archipelago and the Makran subduction zone.

The DM Act 2005 envisaged a paradigm shift in the GOI's focus from its hitherto post disaster rescue, relief and rehabilitation-centric approach to a more proactive pre-disaster preparedness, mitigation and improved response capacities approach. This paradigm shift is also influenced by global best practices, which have established that strengthening preparedness and mitigation strategies would considerably reduce the vulnerability of disaster prone communities and thereby reduce the risks associated with tsunamis in the coastal areas.

30.2 Preparedness :-

The critical gaps that now remain are the lack of public awareness on tsunami risk and vulnerability in the coastal areas, development control regulations and building codes in the coastal areas, and the challenges in implementation of appropriate technologies to disseminate and communicate the early warning to the inhabitants of colony at coastal areas located in the near vicinity of a near source tsunami.

Local populations at risk must be able to recognize the signs of impending tsunami hazard such as strong, prolonged ground shaking, the receding of the shoreline, bubbles in the sea, change in colour of the sea, etc. and seek safety in higher ground immediately.

Communities of Employees also need to know the ear marked areas likely to be inundated, possible evacuation areas, designated evacuation routes and safe regions to assemble evacuees and set up temporary relief camps in safe high ground in the coastal areas. Mangrove wetlands should be regenerated.

- Coral reefs, grass beds, and coastal forests should be preserved and conserved for both short-term and long-term ecological and livelihood benefits.
- Raising coastal plantations like casuarinas, saliconia, palm, bamboo, etc. will act as an effective bioshield and provide protection to the coastal stations areas and colonies.
- Near by geomorphologic features like sand dunes, beaches, coastal cliffs should be protected.

A probabilistic approach is necessary for evaluating tsunami hazard from nearby seismogenic sources as well as from distant sources because many uncertainties exist in a process of estimating tsunami heights along coastal areas from tsunamigenic source models. However, a Probabilistic Tsunami Hazard Analysis (PTHA) is not common in comparison with a Probabilistic Seismic Hazard Analysis (PSHA). The PSHA is a methodology for estimating the probability that specified levels of earthquake ground motions exceed at a given location in a given future time period by combining the probabilistic models of earthquake occurrence and earthquake-caused ground motion. On this basis, PTHA is to be carried out. Essentially it reflects the likelihood of exceeding certain wave parameters. This method can be developed based on source zone identification and Land Sea

30.3 DO & DON'T:-

You should find out if your home, school, workplace, or other frequently visited locations are in tsunami hazard areas.

- Know the height of your street above sea level and the distance of your street from the coast or other high risk waters. (Local administration may put sign boards). Evacuation orders may be based on these numbers. Also find out the height above sea level and the distance from the coast of outbuildings that house animals, as well as pastures or corrals.
- Plan evacuation routes from your home, school, workplace, or any other place you could be where Tsunami is present a risk. If possible, pick areas (30 meters) above sea level or go as far as 3 kilometres inland, away from the coastline. If you cannot get this high or far, go as high or far as you can. Every meter inland or upward may make a difference. You should be able to reach your safe location on foot within 15 minutes. After a disaster, roads may become blocked or unusable. Be prepared to evacuate by foot if necessary. Footpaths normally lead uphill and inland, while many roads parallel coastlines. Follow posted Tsunami evacuation routes; these will lead to safety. Local emergency management officials can advise you on the best route to safety and likely shelter locations.
- If your children's school is in an identified inundation zone, then find out what is the school evacuation plan. Find out if the plan requires you to pick your children up from school or from another location. Telephone lines during a Tsunami watch or warning may be overloaded and routes to and from schools may be jammed.
- Practice your evacuation routes. Familiarity may save your life. Be able to follow your escape route at night and during inclement weather. Practicing your plan makes the appropriate response more of a reaction, requiring less thinking during an actual emergency situation.
- Use a Weather Radio or stay tuned to a local radio or television station to keep informed of local watches and warnings.
- Talk to your insurance agent. Home owners' policies may not cover flooding from a tsunami. Ask the Insurance Agent about the benefits from Multi-Hazard Insurance Schemes. Discuss tsunamis with your family. Everyone should know what to do in a tsunami situation. Discussing tsunamis ahead of time will help reduce fear and save precious time in an emergency. Review flood safety and preparedness measures with your family.

30.4 KIT bag :- The following items might be needed at home or for an evacuation.

Keeping them in an easy-to-carry backpack or duffel bag near your door would be best in case you need to evacuate quickly, such as in a tsunami, flash flood, or major chemical emergency. Store your kit in a convenient place known to all family members. Kit basics are:

- A portable, battery-powered radio or television and extra batteries.
- Flashlight and extra batteries.

- First aid kit and first aid manual.
- Supply of prescription medications.
- Credit card and cash.
- Personal identification.
- An extra set of car keys.
- Matches in a waterproof container.
- Signal flare.
- Map of the area and phone numbers of places you could go.
- **Special needs**, for example, diapers or formula, prescription medicines and copies of prescriptions, hearing aid batteries, spare wheelchair battery, spare eyeglasses, or other physical needs.

If you have additional space, consider adding some of the items from your Evacuation Supplies Kit.

30.5 Action on Division/Zones on Orange/Red Alert :-

On the issue of an Orange Alert (or of a higher level) the Responders have to be activated as required for relief etc. as under :-

Mobilisation of Gangmen

- Hospitals to mobilize Doctors and Para-medical staff.
- Civil Defence units to be activated.
- RPF and RPSF deployment.
- Scouts and Guides for colony care and passenger guidance.
- Operation and manning of the disaster control room.
- Coordination amongst various stake holders through advance warnings.
- Communication system to be ensured and backups to be in readiness for immediate use when required.

TA Units Deployment; In case the existing railway staff may not be able to maintain train services to be operational, the TA units have to be mobilized. (It takes 2-3 days for the deployment of the TA unit after issue of their mobilization order; hence advance warning is of essence)

30.6 Monitoring/Reporting of Effects of Disaster : -

The Safety Dte./Department in the Board would be given information regarding Orange / Red Alerts by Zonal Railway. On the declaration of an incident as a Disaster by a State Government or District Administrator or even by the GM/AGM of the Zonal Railway, the CSO would give time to time updates to the Safety Control in Railway Board of the Situation. Assistance of other departments would be made available by the GM to the Safety Department on the zonal Railways.

30.7 Standard Operating Procedure (SOP) on Railways:

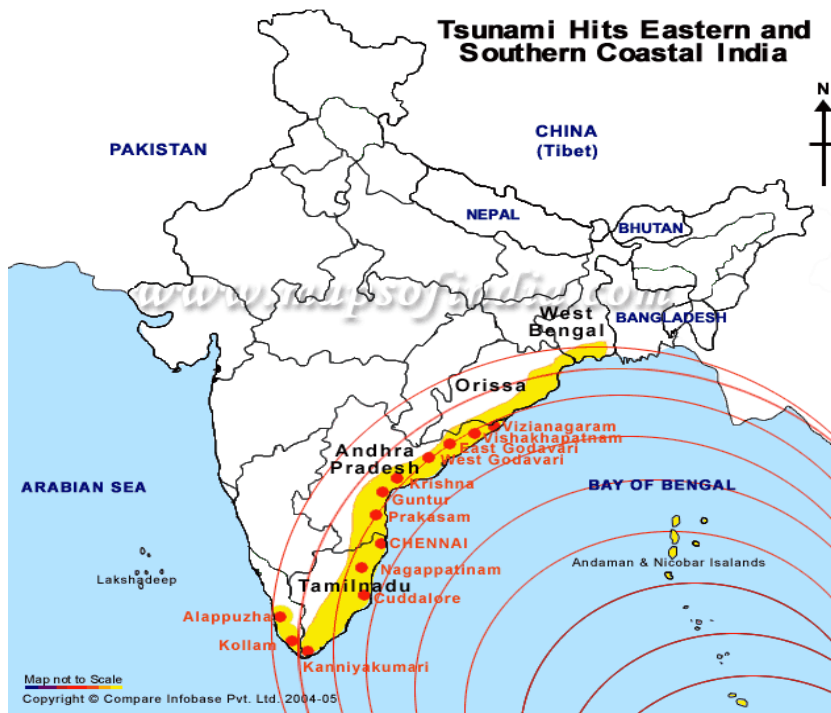
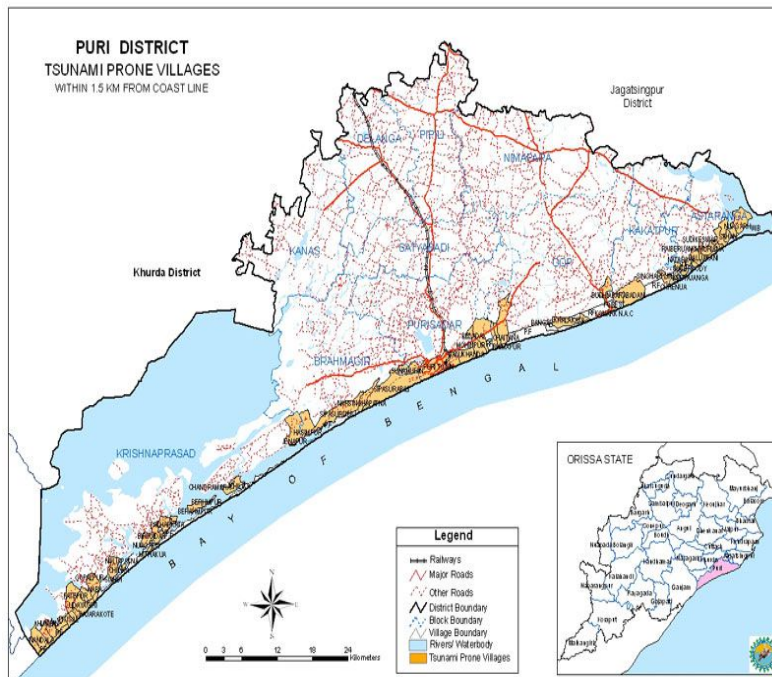
National Disasters:-

The Civil Engineering Department at the field level and on the Divisions gets information through advance warning sent by the respective Government Departments on the possibility of Floods, Cyclones, Earthquakes, Landslides etc. Depending on the gravity of the disaster /crises/ calamity expected the information would be passed on to the Divisional officers through the Emergency Control which will act as the IRS. Where train operations have to be suspended or regulated the operating departments would be suitably advised. After making the train regulation plan the divisional control would advise the commercial and security departments for management of the welfare of passengers. Alerts to the passengers would be issued through the PR Department of the Railway in the Print and Electronic Media.

The DRMs on the divisions shall ensure coordination amongst the Departments for ensuring running of train services (including relief special trains) as also relief arrangements for the passengers and for the Welfare of Railways own staff. Assistance of other Divisions and from the Zonal Railways would be taken through the Headquarter of the Zonal Railways (i.e. by involving the General Manager). Coordination with the IOC of MHA and NDMA / NDRF would be through the Emergency Control of each zonal Headquarter.

Zonal Emergency control / BBS -CUG telephone No.-
 Divisional Emergency control / KUR -CUG telephone No.-
 Divisional Emergency control / WAT- CUG telephone No.-
 Divisional Emergency control / SBP- CUG telephone No.-

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08455887939.
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(Chapter – 31)
DISASTER COMMUNICATION MANAGEMENT

31.1 Introduction

Immediately after declaration of Disaster :

- i. Headquarter Central Control and SE/SSE(Sig)/HQ control will inform the CSTE, CSE and CCE at once.
- ii. SE/SSE(Sig)/HQ control (on duty) will also inform all open line S&T Headquarters officers.
- iii. SSTE/TM shall call for JE/SE/Tele under his control and start operation of HQ control office at South Block.ECoR Sadan,Ground floor.
- iv. GM/Jt.GM/DyGM Railtel Corporation may be alerted.

Signal & Telecom Control is located at HQ Office, South Block, Rail Sadan, Bhubaneswar.

31.2 Mobilization Plan of Officers and Staff

- i. CSTE will immediately proceed to the site of the accident in HOD special. In case CSTE is not available, CSE/CCE will go to the site of accident. In case CSE/CCE is not available Dy.CSTE/HQ will go to the site of accident.CSE/CCE will remain in HQ when CSTE proceed to the site of accident.
- ii. One JE(Tele), two TCM/WTM's and two Khalasis working under SSTE/TM shall accompany CSTE with One Satellite phones of HQ and one FAX machine and 4 Walkie-Talkie sets along with chargers in GM's special.
- iii. CCE will be in charge of communication at all the locations and monitor the situation from HQ control.
- iv. SSTE/Tele(HQ)/SSTE(TM) will be specifically responsible for communication at central control office. One Satellite phone will be made operational at Central Control Office.
- v. Due to severity of accident if HOD Special is not moving due to traffic interruption, HQ Maintenance team consists of SSTE/TM, JE/SE/Tele, two WTMs and two Khalasis shall move with items listed at (ii) by Road vehicle to be arranged by Dy.CSTE/HQ for this purpose.One mobile relief van case is being processed for telecom equipments.
- vi. For meeting contingencies of cash imprest and movement by road necessary drawal from stations earning can be made by the officer reaching at site for site and by Dy. CSTE/HQ for HQ requirement.
- vii. Sr. DSTE/DSTE of the affected division will carry the satellite phone, FAX cum printer, two 25W VHF sets along with antenna and battery and 10 numbers 5W walkie-talkie sets to the accident site. He will be accompanied with at least one SE/SSE(Tele) and two TCMs. Four more SE/SSE (Tele)/TCMs and one SE/SSEs(Sig) of the section will also go to the site of accident at the earliest.
- viii. DSTE of divisions will immediately come to the divisional control office and will ensure setting up of all communication facilities.

31.3 CENTRAL CONTROL COMMUNICATION ARRANGEMENTS :

The communication arrangements in central control office, Rail Sadan will be arranged by SSE/Tele/Exch under supervision of SSTE (TM)/SSTE(Tele)

31.3.1 Central Control office at Ground Floor. South Block, Rail Sadan, Chandrasekharpur, Bhubaneswar

i. Emergency Control

Telephone No.2303564 having ISD/STD facility is already available in the Chief Coaching controller. Dynamic locking code of the telephone is available with CHC/Coaching control. (The dynamic locking code should be kept in a sealed cover in the control office which can be opened during emergency after duly entering in the register in case of non availability of CHC.)

Railway Accident Information-	-1072 (Toll Free)
State Emergency Operation Centre	-1070(Toll Free)
District Emergency Operation Centre	1077(Toll Free)
Police Staion	100 (Toll Free)
Fire station	101 (Toll Free)
Ambulance	108 (Toll Free)

Following Telephones shall be provided in Emergency Control:

S.No	BSNL Phone No.	Facility	Existing with	RAILWAY PHONE ALREADY AVAILABLE
1	2303564	ISD/STD	CHC/Coaching	51160, 51066, 51168, 51664, 51662, 51660, 82017, 72866, 62389
2	2300373	STD	CHC/Fr	
3	2300325	Local	At central control	
4	51264(Rly)	FAX	ALREADY EXISTS	

(Responsibility: Primary-SE/Tele/South Block Standby-JE(Tele)/Indoor)

The ISD facility at Zonal HQ Control and Divisional Control Offices has been provided in compliance to recommendation No.43(b) of High Level Committee on Disaster Management.

ii. Commercial Control

- ☞ Rly Tel. 51333,
- ☞ BSNL Tel No. 2303110, 8455885972
- ☞ FAX No. 50731 (Rly), 2302272(BSNL).

31.3.2 Railway Board (Dialing Code- MTNL/DOT – 011; RLY – 030)

i. Emergency Control/Punctuality R.No. 476/P

- ☞ 011-23388230 (STD) 43859 (Rly)
- ☞ 011-23388503 (MTNL-STD/FAX) 43600 (Rly), 43528 (Rly),
32636 (Rly)

ii. Safety Cell R.No. 476 K

- ☞ 23382638 (MTNL-STD/FAX) 43399 (Rly),41550, 41551 (Rly)

(Responsibility: Primary-SSE(Tele)/Exchange/Rly.Board Standby-JE/I & II(Tele)/
Exchange/ Rly.Board)

31.3.3 COMMUNICATION ARRANGEMENT IN DIVISION :

31.3.3.1 Communication arrangement in KUR division.

i.Control Conference room

Rly : 72819,72818 Inter-Com : 798, BSNL : 0674-24392374, FAX-72347(Rly), 06742372347.

Dy. Control : BSNL: 0674-2492374 (with ISD facility), Rly : 72452, Intercome-795, CHC-72360,72466(Rly0 , CUG-8455887938.

ii. Commercial Control

Rly : 72334, Inter-Com: 724 BSNL : 0674-2490670, CUG-8455887999. **1072**;
Accident Cell : 72563 (Safety section, Sr. DSO office)

(Responsibility: Primary-JE/Exchange/Indoor/KUR Standby-SSE/SE/ Exchange/ KUR)

31.3.3.2 Communication arrangement in SBP division

i. Control Conference room

Rly : 62401; Inter-Com - 669 ; BSNL : 0663-2520926 (with ISD facility), 0663-2401913 (Dy Chief controller), 06632401908, CUG-8455886938. Rly-62315,62478 Intercom-668.

ii. Commercial Control

Rly : 62332 Intercom-629 BSNL :06632533037,2521091, 2521191,CUG-08555886999. **1072**;

(Responsibility: Primary-JE/Exchange/Indoor/SBP, Standby-SSE/SE/ Exchange/ SBP) FAX-06632400093.

31.3.3.3 Communication arrangement in WAT division

i. Control Conference room

Rly : 83096,82088,82089.

BSNL : 0891-2746266 (conference), 08912746255(Emmergency)

ii. Commercial Control

Rly : 82415 BSNL : 0891-2748641, CUG-08978080999 **1072**;

(Responsibility: Primary - JE/Exchange/Indoor/WAT, Standby- SSE/SE/Exchange/WAT)

31.3.3.4 Location of 1072 Nos. over ECoR

Specific DOT number for Railway Accident – Information (Railway Emergency Services – Allotment of 4 digit number ‘**1072**’ in compliance to recommendation No.43(b) of High Level Committee on Disaster Management has been installed at Khurda Road, Berhampur, Cuttack, Bhadrak, Puri, Sambalpur, Waltair, Jagdalpur, Rayagada locations as per Annexure – 10.

31.3.3.5 Satellite Phones provided over East Coast Railway

Available at Annexure – 10.

31.3.3.6 Help Line Booths at Important Stations

Help Line booths are to be opened at all the important stations enroute of the affected train. 2 BSNL phones should be identified and kept pre-wired to the Help Line booths so that same can be energized in shortest time. (SSE/SE/JE(Tele) of respective division). Stations at which such arrangements are to be made and telephones which are to be utilized should be identified by Sr.DSTE with approval of DRM. FAX machine should also be provided at nearby location.

A list of such important stations (division-wise) is placed as Annexure-11.

Sr.DSO/DSO and On duty Station Master is authorized to hire 10 cell phones on spot in compliance to recommendation No.(44) of High Level Committee on Disaster Management and DOP Srl.No. 13(b). Total cell phones hired by all officials shall not exceed 10 in total per accident.

As per Rly. Bd's letter 2004/Tele/TN/2 dt.29.06.2006;, 4 nos of mobile cell phone to be kept by Sr.DSTE at location, preferably of different service providers.

31.4 COMMUNICATION ARRANGEMENTS AT ACCIDENT SITE

31.4.1 Site Control Office

- i. The Engineering Department shall set up a control office in a waterproof tent. A prominently visible “**UNIFIED COMMAND CENTRE**” banner shall be displayed on the tent and shall provide sufficient number of tables and chairs for keeping the communication equipments.
- ii. Arrangement for 220V, 5KVA stabilized power supply shall be made by Electrical department for the communications equipment. In the railway control office, satellite phone with the FAX machine shall be installed for providing communication between the accident site, divisional control office and the emergency control office at Chandrasakherpur.
- iii. One 25 W VHF sets shall also be provided in the Railway site Control Office and one 25 W VHF set shall be installed in a road vehicle so that a mobile communication can be set up to a range of about 15-20 Km. This will help in providing communication between hospital and the Railway Control Office at accident site.
- iv. Three site offices shall be set up as follows :

(a)	Site Control Office-1	Medical/Commercial/RPF to be manned by Commercial staff.
(b)	Site Control Office-2	Control office to be manned by Telecom staff.
(c)	Site Control Office-3	CPRO-cum-Public Phone Office manned by CPRO staff. Telecom staff will man the telephone facility for the public.

Note : All 3 control office at site shall be opened only for passenger train accident otherwise only (b) shall be opened.

- v. Each of Site Control Office will be provided with FAX, Control phone, one BSNL phones and Two Railway phone (subject to technical feasibility). Where BSNL phone are not available, satellite phone will be provided.
- vi. One FAX Machine and at least two telephones (one BSNL & one Railway) should be kept free in **EACH** of the Site Control Office to receive only **INCOMING** calls.

31.4.2 BSNL/Railway Telephones

- i. Subject to availability and feasibility BSNL/Railway Telephones available at adjoining Stations/Cabins/Gates shall be extended to the accident site. PCO telephones and other BSNL phone in the nearby localities/villages /Towns shall also be extended to the accident site by persuading the owners of these phones. Payments for such telephone connections will be made from the Station Earnings.
- ii. In RE area emergency sockets will be utilized for extending the communication to the accident site and in non-RE area where 6 Quad cable is available the same will be utilized for providing the communication.

31.4.3 Satellite Phones

- i. Satellite Phone and FAX machine shall be kept in the divisional control Test Room under the charge of a telecommunication supervisor who shall be responsible for keeping these equipments in good fettle. Whenever any serious accident takes place, the nominated supervisor will rush these equipments to accident site and make these functional at the earliest.
- ii. Adjoining divisions shall also rush their satellite phones through fastest means to accident site through their nominated supervisors. Minimum two telecom staff will carry the satellite phone and FAX machine to the accident site. Total 2 Satellite phones shall be available at accident site.
- iii. Nominated telecom supervisor trained in setting up, handling and troubleshooting the satellite phones at accident site should be able to use the satellite phone for setting up internet connection through '**Lap Top**' carried by **the DRM**. All S&T officers & Telecom Supervisors attending accident site shall be able to operate satellite phones independently.
- iv. HQ telecom control has to be informed regarding inter divisional movements and telephone numbers installed at site.

31.4.4 Dialling Procedure for Satellite Phone:

Dialling International Access Code (00) followed by Country Code (91) then area code (i.e. City Code e.g. 674 for Bhubaneswar) and finally the subscriber number of the wanted subscriber.

Responsibility: Primary: SSE/SE(Tele), Stand by: JE(Tele), DSTE/ASTE to ensure that staff specially trained and nominated to operate Satellite phones are deputed.

31.5 Movement Plan of Satellite Phone :

In case of an accident on any division, two satellite phones kept with SSTE/TM shall be moved to accident site. One additional Satellite Phones of adjacent divisions should also be as per plan given below.

SN	Division/Section of Accident	Division/HQ from where additional satellite phone to be moved
1	KUR : KUR-BHC, CTC-HND, KUR-PUI, KUR-BALU	KUR-I and KUR-II
2	KUR : HND-ANGL	KUR and SBP
3	SBP : ANGL-SBP	SBP and KUR
4	SBP : JSG-SBP	SBP and TIG
5	SBP : SBP-SPRD, TIG-KBJ	SBP and TIG
6	SBP : KBJ-R	SBP and TIG
7	WAT : VZM-SPRD	WAT and KRPU
8	WAT : PSA-VZM	WAT and KUR
9	WAT : VZM-WAT-DVD	WAT and KUR
10	WAT : K-K and K-R	KRPU and WAT

NOTE: Additional set shall be sent to SBP and WAT divisional HQ from BBS depending upon the requirement.

Two satellite phones of the division where accident has taken place shall also be moved to the accident site, with two telecom staff. Thus total No. of Satellite phones available at any accident site shall be 2 (Two).

31.6 Wireless Communication

31.6.1 Walkie - Talkie Sets

- i. **30 Nos. of 5 Watt hand-held walkie-talkie sets are kept in ARTs in compliance to recommendation No. (96) of High Level Committee on Disaster Management.**
Walkie-talkie sets shall be mobilized at the accident site under the charge of a telecom supervisor who shall be responsible for issuing these sets to different supervisors and officers.
- ii. 10 Nos. 5 Watt walkie-talkie sets has been kept in each ARME. S&T staff will carry 10 No. sets to the site of the accident. Sr. DSTE shall keep 20 sets as reserve in the divisional headquarters office so that these walkie-talkie sets could be taken to the accident site, if required.
- iii. The charging facility for the walkie-talkie sets shall be provided in the ART/ARME so that these sets are kept in fully charged condition at all the times. It must also be ensured that sufficient spare batteries are made available at the site in fully charged condition for changing the working batteries.

31.6.2 25 Watt V.H.F. Sets

- i. V.H.F. communication shall be set up at the site using 25 watt set with battery back up. Another 25 Watt V.H.F. set shall be carried to site mounted on a road vehicle to facilitate communication with nearby hospitals, where injured passengers are admitted. The road vehicle will be nominated by DRM. One SE/JE(Tele)/TCM shall also accompany the road vehicle.
- ii. **Two numbers of 25 watt VHF sets are kept in each ART in compliance to recommendation No. (96) of High Level Committee on Disaster Management.**

31.6.3 Public Address System and Mega Mikes

- i. Public address system must be made functional at accident site – both for communication with passengers/public and also to give directions to railway staff regarding relief operations. For this purpose, additional P.A. systems may become necessary depending upon the requirements at accident site.
- ii. In addition, mega mikes available in accident relief train will also be utilized. P.A. systems & mega mikes shall be under charge of the nominated supervisor.

31.7 Staff to be deployed at the Site

A roaster shall be prepared by Sr. DSTE for the staff to proceed to the site of accident for operating nominated equipments. Standby staff shall also be notified. Arrangements of Road Vehicles to proceed to accident site, indicating alternative vehicles as well, shall be notified. Arrangements of vehicle drivers shall also be notified.

31.8 Duties of Railway Officers at the time of accident:

CCE shall be in charge of all communication arrangements at all locations. Dy.CSTE/HQ/SSTE/HQ shall be responsible for making necessary arrangements in Emergency Control Office at South Block, ECoR Sadan.

HQ Telecom control shall monitor installation of various telecom gadgets at site.

SE/JE/Sig./HQ in shift duty shall inform CSTE, CCE, CSE, Dy. CSTE(HQ), SSTE/T, SSTE/Sig, ASST/Tele, SSTE/TM and shall arrange the S&T vehicle on emergency duty in HQ control office to the residence of the officers deputed for emergency control duty so that these officers can reach the emergency control room within 15 – 20 minutes on the first information.

Simultaneously CSTE/C and Dy.CSTE/C of the concerned division shall be alerted with advice to keep their stores open and vehicles in readiness for movement of men and material to site if so ordered by CSTE.

31.9 Power Requirement

230V AC, 5 KVA power will be required for the communication arrangements at the site of the accident. In addition, charging arrangements will be required in ARTs and ARMEs for charging the walkie-talkie sets.

31.10 Video Conferencing

This item is partially implemented .

Railway board has revised the schedule of mock drill of live feed from Accident Relief Train regarding video transmission with provision to V-SAT equipment. The nominated mock drill period and day of the month for ECoR is appended below. In case the nominated day is a holiday , mock drills should be conducted on the next working day.

S.no	Site Name	Rly	Working day of month for Mock Drill
1	Khurda Road	ECoR	1 st Thursday 12 hrs to 13 hrs.
2	Sambalpur	ECoR	1 st Thursday 15 hrs to 16 hrs.
3	Waltair	ECoR	1 st Friday 10 hrs to 11 hrs.

“ SUFFICIENT MOCK DRILLS SHALL BE CARRIED OUT TO ENSURE SMOOTH OPERATION WHEN REQUIRED ”

(Chapter - 32)
EXTRACTS OF EAST COAST RAILWAY SCHEDULE OF POWERS
FOR MEETING EMERGENCIES

ON WORKS MATTER :-

Sn	Nature of Duties	Designatory	Powers Delegated
1	To call and award single tenders for works in emergent situation which are as follows – (a) Accidents and breaches involving dislocation of traffic.	AGM CAO/C PHOD CO-ORD SAG DRM	Full Powers up to his powers of acceptance regarding item (a) only under column (2) Prior finance concurrence at the level of FA&CAO to be obtained in each case. Up to Rs. 20 lakhs per case per PHOD subject to the annual limit of Rs. 1 Crore per PHOD regarding item (a) only under column (2) Prior finance concurrence at the level of FA&CAO to be obtained in each case. Up to Rs. 10 Lakhs per case subject to the annual limit of Rs. 50 lakhs regarding item (a) under column (2) Prior finance concurrence of the Sr.DAO should be obtained in each case.
2	To dispense with the calling of tender for works in consultation with associate	AGM PHOD CO-ORD SAG	Up to Rs. 50 thousand in each case subject to an annual ceiling limit of Rs. 4 lakhs. Up to Rs. 50 thousand in each case subject to an annual ceiling limit of Rs. 4 lakhs.

	finance at the stage of acceptance of offer subject to the following -	SAG	Up to Rs. 50 thousand in each case subject to an annual ceiling limit of Rs. 4 lakhs.
		DRM/ADRM CWM	Up to Rs. 50 thousand in each case subject to an annual ceiling limit of Rs. 4 lakhs.
		JAG	Up to Rs. 40 thousand in each case subject to an annual ceiling limit of Rs. 4 lakhs.

SCHEDULE OF POWER ON DISASTER MANAGEMENT

Sn	Nature of Duties	Designatory	Powers Delegated
1	Withdrawal of money from station earnings for rescue and relief operation including hiring of vehicle, cell phones, purchase of medicines Note- As far as possible multiple withdrawal of money from station earnings should be avoided for the same accident. This power be exercised by senior most administrative grade of branch officer at accident site/station.	AGM DRM/ADRM SAG officer including CMD Sr.DME/DME Sr.DSTE/DSTE Sr.DEE/DEE Sr.DEN/DEN Sr.DSO/DSO Sr.DCM/DCM MS/Sr.DMO/DMO SM(Gaz)	Full powers. Full powers. Full powers. Up to Rs. 20,000/- Up to Rs. 10,000 per occasion.
2	Hiring vehicle for rescue and relief operation for use in accident related transportation work, and to medical officers, for treatment of injured passengers at non-Railway hospitals. Rates should be reasonable as per prevalent market rate.	AGM SAG officers including CMD DRM/ADRM/CMS Sr.DCM/DCM/MS Sr.DMO having independent charge	Full powers Full powers Full powers Up to Rs.20,000 per occasion.
4	a) Requisitioning medical assistance from Civil Sector in case of disaster/accident. b) Purchasing of essential medical items/equipments including medicine not available at ARME/ART and procurement of additional life saving drugs from the market at the site.	DRM/ADRM/CMD MS/Sr.DMO DMO/SM(Gaz) SM(non-Gaz)/ Station Master DRM,ADRM,CMD MS/Sr.DMO DMO/SM(Gaz) SM(Non-Gaz) Station Master	Full powers Up to Rs.20,000/- per occasion. Up to Rs. 10,000/-/ Rs.5000/- per occasion Full powers Up to Rs.20,000/- per occasion. Up to Rs.10,000/- per occasion. Up to Rs. 5,000/- per occasion.
5	Hiring of cell phones at accident site which has cell phone connectivity. a) For Railway use. b) For use of passengers at accident site free of charge.	DRM/ADRM JAG/SS officer SM(Gaz) SM(non-Gaz) Station master.	Full powers Up to Rs.5000/- per occasion Up to R. 2500/-per occasion. Up to Rs.1000/- per occasion.

6	Hiring and purchasing of any material other than those listed at items 2 to 5 above which is required for quicker rescue/restoration operation at accident site.	AGM DRM/ADRM SAG Officer SG/JAG Officer SS/JS Officer	Full power Full power Rs 5 lakh Full power-Rs 1 lakh Up to Rs.20,000/-per occasion Up to Rs.10,000/-per occasion
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Sn	Nature of Duties	Designatory	Powers Delegated
7	(a) Providing food and beverages and arranging for transport of injured passengers.	AGM	Full Powers.
		POHD/CHOD/ HOD	Full Powers.
		DRM/ADRM	Full Powers.
		Divisional Officers	Full Powers.
	(b) Food for staff attending to breakdown/accident duties. Note: In case of non-submission of proper accounts within three months after withdrawal from Stn. Earnings, necessary action should be taken by the Bill compiling accounts officer to recover the outstanding amounts of such station pay order from the salaries of the officers/staff.	AGM/ CAO(C)	Full Powers.
		PHOD / CHOD / HOD	Full Powers.
		DRM/ADRM	Full Powers.
		Divisional Officers	Full Powers.
	(c). To incur expenditure on setting up camp, lighting and transshipment arrangement on breaches and accidents.	AGM	Full Powers.
		PHOD/ CHOD/HOD	Full Powers.
		DRM/ADRM	Full Powers.
		JAG	Up to Rs. 20,000/- on each occasion.
		Sr. Scale	Up to Rs. 10,000/- on each occasion.
		Jr. Scale	Up to Rs. 5000/- on each occasion.

Sn	Nature of Duties	Designatory	Powers Delegated
8	Purchase of spares and other equipments required for ART/ARME/BD crane and for all	CME/CMD CRSE/CMPE/ DRM	Up to Rs.20,000/-in normal circumstances and up to Rs.1 lakh -

	equipments contained therein.	Sr.DME/DME/ Sr.DEN MS/Sr.DMO in-charge of ARME	during accident Up to Rs.10,000/-per occasion & Rs 20,000/- during accident. Up to Rs.10,000/-per item & Rs 20,000/- during accident.
9	To enter into AMC with OEMs or their authorized agents for supply of critical items of ART/ARME/BD crane/Re-railing equipment and their maintenance ,	AGM CME CMD for ARME only CRSE/CMPE CMS/MS for ARME only Sr.DME/DME as BO	Full powers Full powers Full powers Full powers Up to Rs.25,000/- in each case Up to Rs.10,000/-in each case.
10	Requisition of Helicopters/Aero-planes due to serious passenger train accidents where :- a) More than 10 casualties(death cum serious injuries) are feared and it is difficult for these officers to reach the site within reasonable time. b). Heavy damage is caused to Railway installations in sensitive and tension filled areas (e.g. Wreckage of track, bridges, etc through bomb blast, other means of sabotage etc.) c). Public reaction in case of late arrival of Senior Officers at site as likely to be highly adverse.	GM/DRM (power to be exercised personally by GM/DRM and may not be delegated)	Full power.

DELEGATION OF POWERS (STORES MATTERS)

Sn	Ref. to Item/Board's order	Nature of Item	Powers delegated to AGM	Powers delegated to SAG Officers	Powers delegated to DRM	Powers delegated to JAG Officer	Powers delegated to Sr. Scale, Jr. Scale Officers
1	711-S&Board's letter No.79-F(S)/1/PW-7/2 dtd.12.11.79 & 79F(S)/1/PW-	Local purchase of materials of small value which are		a) COS/CMM full powers to make local purchase of items of small value both Stock and	Full powers upto Rs. 500/- subject to a max of Rs.	i a) Dy.COS upto Rs.10,000/- per item.	i a) SSO/GR C & DCOS : In depots ACOS's holding

	7/4 dtd.05.12.80	urgently required		Non-stock upto Rs. 10,000/- per item subject to the fulfillment of the conditions.	5000/- in a year after obtaining more than one quotatio n.		independ ent charge of Depots. ACOS/D COS/Sr. DCOs in the Division upto Rs.10,00 0/- per item.
		ii. (b) On single quotation when urgently required					
2	706-S & Bd's letter No.70F(S)/I/P/ W/7/I dtd.17.07.71	Procurem ent of DGS & D item including rate running contract items in emergenc ies.	Upto the limit of 4 crore s	COS : Upto Rs. 1 crore & CCM : Upto Rs. 50 lakhs in each case. COS/CMM will also decide when, for what quantity and in what manner such emergencies purchases shall be made.	NIL	Dy.COS : Upto Rs. 5 lakhs	SSOs : Upto Rs. 50 thousand ACOS : Upto Rs. 15 thousand

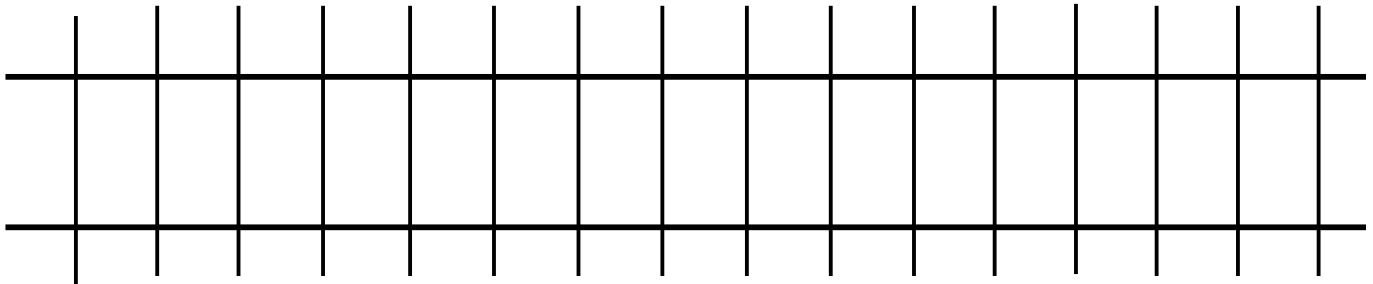
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Important **Telephone numbers of Railway Board's** officials for reporting Disasters /Accidents.

S. No.	Name/Designation	Telephone / Mobile No.	
		Office	Residence
1	Safety Control Room, Room No- 476 K	Rly : 030-43399, 43599 MTNL: 011-23303399 011-23303599	TeleFax: 011-23382638
2	Sh. P. Srinivas (Director/Safety-III) Room No- 362	Rly: 030-43239 MTNL: 011-23385836 0120-2648001	Rly: 030-22447 MTNL: 011-23363789 Mob: 09910487542
3	Sh. Asish Kumar (Jt.Director/Safety-II) Room No-355	Rly: 030-43446 MTNL: 011-23389987 011-23303446	Rly: 030-54101 MTNL: 011-23367801 Mob: 09810017905
4	Sh. Ashish Mehrotrn (Director/Safety-I) Room No- 6 A	Rly: 030-43667 MTNL: 011-23747863, 011-23387009	MTNL: 0129-2244170 Mob: 09910487334
5	Sh. Alok Kumar (Jt.Director/Safety-IV)	Rly: 030-43574 MTNL: 011-23070944	Mob: 09910487540
6	Sh. Sanjib Garg (Adviser/Safety)	Rly : 030-43302 MTNL: 011-23381344 : 011-23073197	Mob: 09818798390 Fax : 011-23386215

Annexure – 01

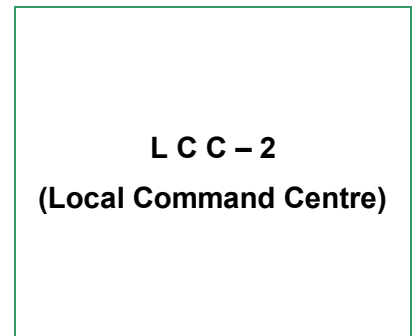
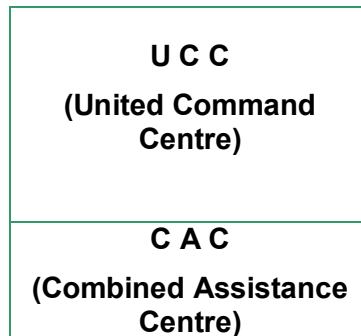
OUTLINE SCHEMATIC PLAN OF UCC/CAC/LCCs



[Remote Disaster site]
(if required)

(Nearer to main Disaster site)

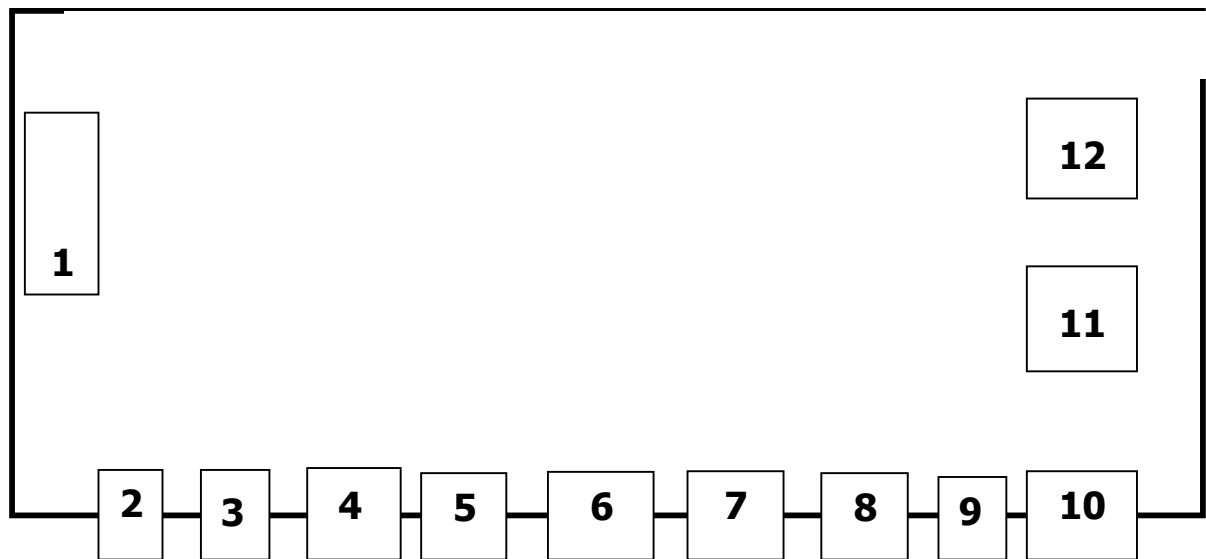
[Remote Disaster site]
(if required)



Annexure – 02

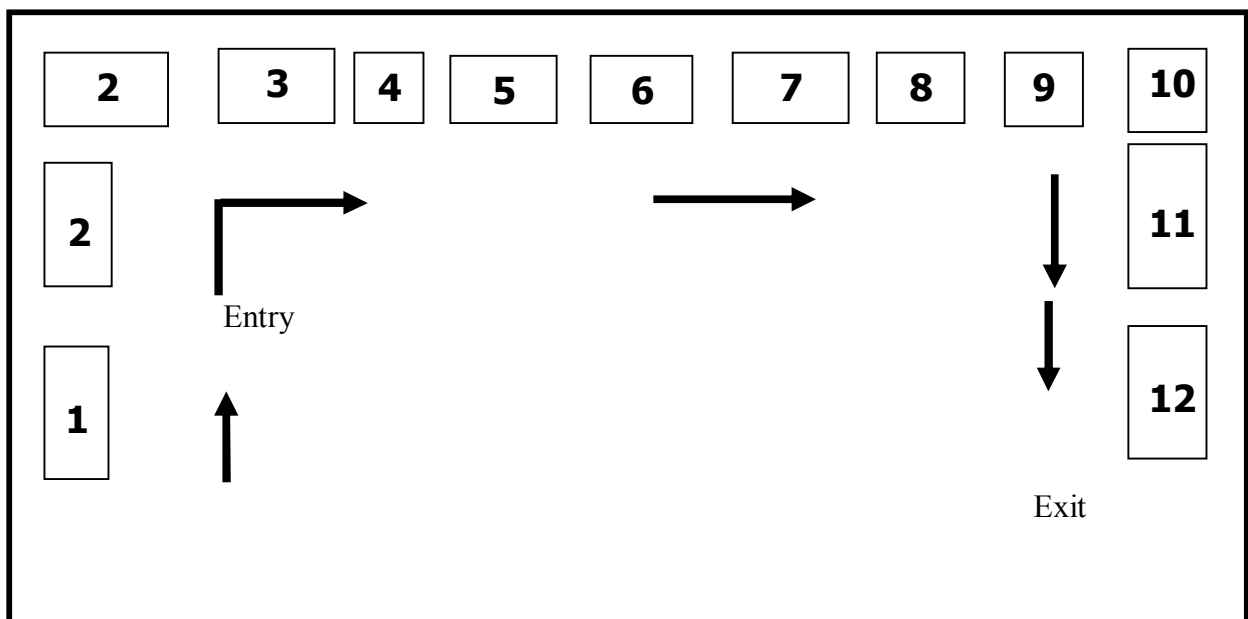
DETAILED SCHEMATIC PLAN OF UCC

(Unified Command Centre)



- | | | | | | |
|---|------------|---|-----------------------|----|----------------|
| 1 | Medical | 5 | Security | 9 | Electrical |
| 2 | Commercial | 6 | Public Relations | 10 | S&T |
| 3 | Operating | 7 | OIC Site and Officers | 11 | Engineering |
| 4 | Safety | 8 | Mechanical | 12 | Telecom Centre |

Annexure - 03 DETAIL SCHEMATIC PLAN OF CAC



1	Commercial – Reservation Chart		7	Municipality Official – Issue of Official Death Certificate
2	Medical – List of dead and injured		8	RPF/Local Police – Issue of authority for handing over dead body
3	Commercial – Provision of escort and vehicle		9	Commercial – Payment of Ex-Gratia, Issue of Claims Forms
4	Railway doctor – Issue of Medical Death Certificate		10	Commercial – Assistance for performing of last rites
5	Govt. Doctor – Issue of Post Mortem Report		11	Personnel – Issue of Return Journey Pass
6	CAC in-Charge and Officers		12	Operating – Arrangement for Return Journey

Annexure – 04

A. LIST OF MECHANICAL ITEMS IN AUXILIARY BOGIE OF MEDICAL VAN

Sl. No.	Item No. & Description	Quantity	Purpose
a	Mechanical Cutting & Rescue Equipments (Hydraulic, Abrasive, Cutting and Gas Cutters)		
1	Power Pack with extension Reel	2	Powering Hydraulic Tools
2	Hand operated pump as stand by	1	Powering Hydraulic Tools
3	Spreader with a set of 4 spare spreading jaws	1	Opening Coach Body
4	Cutting set with a set of 4 spare cutting jaws	1	Cutting window grills & different structural members.
5	Hand operated combi tool with a set of 4 spare cutting jaws	1	Cut and spread at loations where Power Pack can reach.
6	Spare extension reel	2	Extending reach of Power Pack.
7	Chain pulling arrangement to be used in conjunction with spreader	1	To squeeze & tear Panels.
8	Telescopic Ram	1	For displacing obstacles, lifting and peeling of Sheets during rescue.
9	Wind shield cutter	3	Cut window glass.

10	Spring Loaded punch	3	Punch window glass to make passage for the cutter.
11	Protection cover sets	12	To protect rescuer and victims from sharp edges cut in the coach body during rescue.
12	Electric Abrasive Cutter	3	Cut structural members if required.
13	Petrol Generator set for Power Abrasive cutter	2	Power cutter and hole saw drill. (3.5 - 4 KVA capacity)
14	Electric Power Saw	6	For cutting Wood & Ply (220 V , 600 W, Make-Bosch , CP , Webtool make or similar)
15	Electric Hole-saw cutter	2	Drive hole saw cutter. Power to be taken from the Gen set provided for abrasive cutting. (Suitable model from Bosch/CP/Web tool capable of taking 5/8" & 1/2" arbour)
16	Gas cutter set (1 set of regulator, one 5 ft. long torch, 2 ordinary Torches, 2 eye protector, 2 set hand gloves, 2 leather guard)	3 sets	Cut structural members if required.
17	DA + Oxygen set, (3 Oxygen + 1 DA) per set	3 sets	Cut structural members if required.
18	Hand Gloves set	20 pairs	Protection to welder/gas cutter staff
19	Eye Protector Goggles	20 nos.	Protection to rescue staff from metal splinters during spreading.
20	Petrol (in ltrs)	50	to be used as fuel
21	Hydraulic Oil (in ltrs)	50	for Hydraulic Equipment.
22	Oxy Fuel under water cutting tool	1 set per SPART	As per H.L.Committee's Recommendation no. 61. To do underwater cutting. (Torch, 3 under water cutting tips, under water igniter, under water shroud Assembly, 2.5 Galon fuel tank with regulator, 25 ft air hose, 50 ft gasoline and Oxygen hose each, oxygen Back flash arrester and other accessories.)
23	Portable Electrically operated Cutting & Boring Tools of reputed make comprising of Trepanner, Shell shaver, Channel Cutter & Bar Cutter.	1 set per SPART	As per H.L.Committee's Recommendation No. 62. For cutting & boring of coach body to rescue passengers.
24	Emergency Inflatable Lighting Towers	2	As per H.L.Committee's Recommendation No. 60. For immediate lighting of accident site by Relief Van staff.
25	Inflatable air bags	1 set per SPART	As per H.L.Committee's Recommendation no.64. For lifting of heavy loads in inaccessible areas.

26	Portable hand operated hydraulic window bar cutters	3	For quick cutting of Coach window bars (Crimpwell or similar)
27	Hand Held Search Light (HHSL)	2 per SPART/ARME	For effective searching of dead & injures during accident.
b. Hand Tools and Other equipments			
1	Pick Axes	6	For digging earth
2	Hammer sledge	6	For driving & pegging 7 lbs capacity, (Taparia, Jhalani ,Everest or similar)
3	Torch 3 cell (battery loaded)	24	For Break Down staff & site officials
4	Spare torch batteries	72	To be kept as spare.(1.5 V, leak proof, nickel cardmium Batteries.)
5	Shovel	6	For digging earth
6	Phawara with handle	6	For clearing debris
7	Punch with Drift to punch a hole 16*55mm to facilitate insertion of spreader (Taparia, Jhalani or similar)	12	To punch holes in the coach body to accommodate spreader jaw
8	Sledge hammer (10 lbs/20 lbs capacity, Taparia, Jhalani , Everest or similar)	6	Drive Punch
9	Tool kit set (chisel, tommy bar, crowbar, pinch bar, pin punch) [Taparia, Jhalani ,Everest or similar]	12	For undertaking of petty jobs
10	Hammer Ball peen (Taparia, Jhalani ,Everest or similar)	6	For petty works
11	Portable Rail trolley for material (As per Izzatnagar design or VSKP design or similar.)	1	As per H.L.Committee's Recommendation No. 89. For moving heavy equipment from ARMV to required -point at site.
12	Foldable Ladder	4	As per H.L.Committee's Recommendation No. 82.(2 to 3 stage extension telescopic ladder with corrugated rungs with interlock facility. Extension by rope,pulley & gravity pawls fitted with non-skid rubber shoes & caps.)
13	Rope ladder of different length (Nylon PP Rope/Manila Rope(ISI Mark). With Wooden/Alluminium rungs.)	03 nos	For working of rescue staff where Aluminium ladder can not be placed.
14	Multi purpose Quick adjusting, self adjusting Spanners (Different sizes)	6	For quick opening fasteners and attending repairs (SOLSON or similar)
15	Multi purpose Quick adjusting, self adjusting, slip free Pipe wrench	6	For gripping (SOLSON or similar)

c.	Personal Safety and Protective Items		
1	Umbrella	24	For Break Down staff & on -site officials.
2	Rain Coat (Superior quality of reputed make with full pant & jacket made of good quality rubberised water proof cloth as like Duckback,.)	30	For Break Down staff & On-site officials.
3	Luminuous Jackets with two vertical & 2 horizontal luminescent strips. Name of Rly. is to be written in the back & depot name in left front. (Orange Colour)	30	For use by Rescue workers.
4	Arm band luminescent type (Luminescent band with depot name.)	100	For all Railway Staff in the accident site.
5	Helmet ISI mark (BIS:2925 & DGMS approved. 4 & 6 point adjustable head band & nape strap/cotton strap & chin strap in flexible PVC with rexin support.)	30	For all Railway Staff in the accident site.
6	Industrial Safety Shoe, confirming to IS 5677:1978	30	For Break Down staff & On-site officials.
7	Gum Boot, PVC supported with fabric lining moulded with anti-skid soles.	30	For Break Down staff & On-site officials.
8	Masks (for protecting foul smell). Cup type disposable or washable type,	100	For all Railway Staff in the accident site.
9	Duster/Khadi cloth	200	For using of staff at the time of rescue
10	Soap liquid (in ltrs)	5	For washing hands of staff & Officials.
11	Blanket	30	For use by ARME staff and officials
12	Pillow with Cover	30	For use by ARME staff and officials
13	Bedsheet-White	60	For use by ARME staff and officials
14	Leather hand Gloves,	25	For handling
15	Heat-proof jacket, helmet & flame retardant hand gloves.	4 sets	For handling hot and burning objects & to be used by staff who are involved in fire fighting.
16	Various type of safety belts/Harness	06 nos	For safely taking down to the injured passengers
17	Gas Vapour odour mask should have chemical resistant PVC face piece, with cartridge/half canister, protection against toxic & poisonous gases & vapours.	10 nos	For the rescue staffs for work in poisons/harmful gas area

18	Life Buoy & life jacket for saving life from water - 4 nos each	8 nos	For staff & effected persons. Life Buoy - Made from durable synthetic material , totally moisture proof and not inflammable. Life Jacket - Manufactured from strong nylon in high visible orange colour coated with PVC for durability and cleaning easy.
19	Safety Nylon Net. (Made of Nylon PP Rope(ISI Mark), outer border rope 10 mm/12 mm thick with inside mesh.)	02 nos	For quick removal of light injured passengers
20	Luminescent Barrier tapes	1200 m	For demarcation. (Luminescent safety barrier tapes ,yellow & red colour, size - 4" width in roll of 250 mtr.)
d. Safety Items			
1	Fire Extinguisher of all Class- A,B,C & D each 4 nos.	16	To Extinguish local fire
2	Buckets filled with sand	6	To be used by staff who are involved in fire fighting.
3	GR and Accident Manual	2 sets	For reference of ARME staffs.
4	Tail Lamp	4	To put behind the ARME
5	Red & Green Flag (in sets)	4	For hand signalling
6	Banner Flag	4	For putting on the track
7	Detonator (in boxes)	2	For putting on the track
8	Hand Lamp Tri-Colour	4	For hand signalling.
9	Portable Breath Analyser	2	For analysing breath for traces of alcohol
10	Auto Glow Petro max with three sets of stove fittings	6	Portable lighting & boiling facility
11	Water tank 500 ltrs	1	For storing of water.
e Furniture			
1	Stackable plastic chair	20	As per H.L.Committee's Recommendation No. 74.
2	Inflatable tents	1 per SPART	As per H.L.Committee's Recommendation No. 68. (As per RDSO guidelines.)
3	Foldable Synthetic Tents	4	For use at Site
4	Kanath, Size (10' x 30') with 50' wall	1 per ARME/S PART	For use in Accident site as a covered shed for relatives of the stranded/injured passengers.(As per GM/ECOR's instruction vide Insp.Note No.07/2005)
5	Table foldable	5	For Break Down staff & site officials

f	Miscellaneous		
1	Shrouding Cloth (white)	100	For covering dead bodies.
2	Stretcher	4	For carrying injured staff/ victims.
3	Wrist Bands	100	As per H.L.Committee's Recommendation No. 81. To be tied to the right wrist of the deceased persons with token number. Identification Band : 100 x 70 x 0.7, Black Colour. Oval number punched aluminium plate will be stitched with durable nylon thread on the band. The number will be flurocent painted.
g	COMPUTERS & CAMERA Related Items.		
1	Lap top computer with modem, " Rapid Recovery System" with 2 spare batteries along with charging facilites.	1 per zone	As per HLC's report at Item No. 66. For maintaining Database and information related to Relief / Restoration operation. Rly.Bd's Ltr.No. 97/C215/PCs/Rly.Bd,Dtd.29.01.04
2	Glossy photograph paper for use in inkjet colour printer (Kodak, Canon)	75	Papers for taking photographs of victim/evidence.
3	Scanner (HP,Samsung or similar)	1	For storing, printing & faxing Data/Photographs from accident site.
4	Inkjet Colour Printer (BM ,HP or similar)	1	
5	Catridge set for colour Printer (BM ,HP or similar)	5	
6	Digital video Camera with 10 floppy discs	1Set	As per H.L.Committee's Recommendation No. 65. For recording crucial evidences, restoration, relief and rescue works. (As per RDSO Specifications)
7	Still camera	1	As per H.L.Committee's Recommendation No. 65. For recording crucial evidences, restoration, relief and rescue works. (As per RDSO Specifications)

B. ELECTRICAL ITEMS FOR LIGHTING PURPOSES

Sl No	Items Description	Quantity
1	Diesel generator 6KVA 220/230 Volts fixed for train lighting and battery charging.	1
2	Portable generator Petrol / Diesel driven 1 to 1.5 KVA 220/230 Volt with integral switch board with at least four plug points.	7
3	Portable switch board with 4 water proof sockets (500 Watts load)	2

4	Weather proof flood light fittings, 250 watt with 15 mtr lead.	10
5	Weather proof light fittings, 500 watts with 15 mtrs lead	4
6	Main cable for fixed generator 15 Amp capacity three core armored rubber sheathed flexible 150 mtrs.	2
7	Drum on fixed stand for main cable	2
8	Stand for flood lights, 1800mm high with 10 mtrs lead with plug	2
9	Metal rectifier for charging 2 Train lighting batteries at a time	1
10	500 W gas filled bulb screw type	6
11	250 W gas filled bulb screw type	6
12	100 W gas filled bulb boyonet type	4
13	Telescopic mast for power van 6 mtrs high	4

C. S&T ITEMS FOR TELECOMMUNICATION PURPOSES

SI No	Items Description	Quantity
1	Portable field telephone in a wooden box	1 no
2	Telescopic pole equipment in a wooden box	1 no
3	Rly Control phone	03 nos
4	Battery Box for 3 dry cells	1 no
5	Dry cell large 1.5 Voltscell for PA system	1 no
6	PVC insulated PVC sheathed twin core plastic cable	500 mtrs
7	Wire ³ / ₄ inch 100 mtrs in bundle	2 no
8	Microphone dynamic with cable 15 mtrs with floor stand	1 no
9	Loud Speaker horn type 5 /10 Watt	1 no
10	Transistorised Amplifier 10/20 Watt powered out put battery operated	1 no
11	Meghaphone transistorized 2 watts to work in 9 volt dry battery	3 nos
12	Loud speaker with telescopic adjustable stand (5-10 feet light weight)	1 no
13	Mechanical tool kit with 12 volt soldering iron	1no
14	Field service telephone cable PVC insulated	5000 mtrs
15	Mobile VHF trans receiver	04 nos

16	Walki-talky sets	06 nos
17	Camera with flash and Cases	01 no
18	Digital Camera	01 no
19	Tape recorder	01 no
20	Sattelite phones	01 no

Annexure – 5

LIST OF STORE ITEMS

SI No	Description of materials	Desirable Quantity
1	Diesel Oil	20,000 liters
2	Kerosene Oil	20,000 liters
3	Torch	500 nos
4	Torch Cell	5000 nos
5	Lantern/ LED Lantern (Hurrican) – Everady, Nippo & Sanyo	1000 nos
6	Tarpaulin	500 nos
7	Gum Boot (Size 6, 7 & 8 nos)	1000 pairs
8	Umbrella	500 pairs
9	Rain Coats	500 nos
10	Hand Gloves	500 pairs
11	Plastic Jars (size 10 & 20 liters) for transporting Drinking water, diesel & kerosene	500 nos
12	Strechers	50 nos
13	Candles	10,000 nos
14	Plastic sheets	1,000 nos
15	Polythine Bags /container for food packing/handling	10,000 nos
16	Electric Wire of different size as per requirement for providing temporary power connection	2,000 –5,000 mtrs.
17	Electric Bulb with holders	5,000 nos
18	Chlorine Tablets, Bandage and First Aid items.	1, 00,000
19	Bandage	10,000
20	Fisrt Aid Kit	1000
21	Gamaxin and DDT	10 bags each
22	Match Boxes	5,000 nos.
23	Blankets	500 nos
24	Bed Sheets	1500 nos
25	Bleaching powder	2,000 kgs

26	Mask	500 nos.
27	Rope Manila	As per requirements
28	General Stationary items (Register, Pencil, Ball pen, staplers, salotape, gemsclips and eraser etc)	As per requirements
29	Baskets	1000 nos
30	Shovels	500 nos
31	Miscellaneous track maintenance tools	As per requirements
32	G I Wire	1000 kgs

Annexure – 6

LIST OF ENGINEERING ITEMS

SI No	Description of materials	Desirable Quantity
1	Cinders / Fine Steel Plants Slag (on wheel)	As per requirement (at least 5 wagons)
2	Boulders (on wheel)	As per requirement (at least 5 wagons)
3	Quarry dust (on wheel)	As per requirement (at least 5 wagons)
4	Empty Cement Bags filled with sand/earth (on wheel)	As per requirement (at least 5 wagons)
5	Relieving Span 6 ft long (on wheel)	As per requirement (at least 2 spans)
6	Relieving Span 19.5 ft long (on wheel)	As per requirement (at least 1 spans)
7	Relieving Span 40 ft long (on wheel)	As per requirement (at least 1 spans)
8	Empty Cement Bags	As per requirement (1000 empty bags)
9	1.22 mtrs Dia Spun Pipes	As per requirement
10	Rope Manila	As per requirement
11	Steel Wire Rope	As per requirement
12	Turfer (Capacity of 1.5 T, 3 T & 8 T)	As per requirement
13	Power Saw	As per requirement
14	Axes	As per requirement
15	Diesel Generator Sets	As per requirement
16	Shovels,	As per requirement
17	Baskets	As per requirement
18	Iron pans	As per requirement
19	JCB,	To be hired as per requirement
20	Back heo / Loader	To be hired as per requirement
21	Proclaim machines	To be hired as per requirement

LIST OF ELECTRICAL ITEMS
STORAGE LOCATION OF STORES AND EQUIPMENTS WITH QUANTITY

Sl no	Items	KUR									WAT			SBP		
		KU R	PUI	BH C	JK R	CTC	BAM	TLH R	PSA	PRD P	VSKP	VZM	NW P	SBP	TIG	RAI R
1	Generator Car	1									1			1		
2	Portable Generator Set 2 KW	4	2	2	2	2	2	2	2	2	4	2	2	4	2	2
3	500 W Halogen Fittings with Lamps	10	5	5	5	5	5	5	5	5	10	5	5	10	5	5
4	Pendant Holder	100	20	20	20	20	20	20	20	20	50	20	20	50	20	20
5	Lamp 100 W/150 W	120	50	40	40	40	40	40	40	40	100	50	30	70	40	40
6	Cable 2.5 Sq. mm (in Mtrs)	5000	2000	2000	2000	2000	2000	1000	1000	2000	5000	1000	1000	3000	2000	1000
7	Cable PVC 2.5 Sq. mm (in Mtrs)	5000	1000	1000	1000	1000	1000	1000	1000	1000	5000	1000	1000	3000	1000	1000
8	3 Core Cab Type Wire (in Mtrs)	1000	500	500	500	500	500	500	500	500	1000	500	500	1000	500	500
9	M Switch 16 Amps	10	5	5	5	5	5	5	5	5	10	5	5	10	5	5
10	Black Tape (in Nos)	20	5	5	5	5	5	5	5	5	20	10	5	10	5	5
11	Telescopic Light Posts	20	10	5	5	5	5	5	5	5	10	5	5	10	5	5
12	Aluminium Ladder 20 ft	5	2	2	2	2	2	2	2	2	5	2	2	5	2	2
13	HSD Oil (in Liters)	200	100	100	100	100	100	100	100	100	200	100	100	200	100	100
14	Walkie-Talkie sets	10	2	2	2	2	2	2	2	2	10	2	2	2	10	2
15	Lorry	1	-	-	-	-	-	-	-	-	1	-	-	1	-	-
16	Petromax (Gas / Kerosene)	40	10	5	5	5	5	5	5	5	20	10	5	20	5	5

ANNEXURE – 08**TELEPHONE NUMBERS OF RAILWAY BOARD & QUICK RESPONSE TEAM OF RAILWAY
AND OTHER ZONES**

CODE – 030 **NEW DELHI (MTNL) STD CODE – 011** **NEW DELHI RLY STD**

SN	Designation	Office		Residence		Mobile
		Railway	MTNL	Railway	MTNL	
1	Safety Cell	98100-17905				
2	Dir. Safety/II	43446	2338-9987	23151	2374-0092	09810017905
3	Dir. Safety/I	43667	2338-7009		2467-0561	09910487477
4	Dir. Safety/III	43239	2338-5836	22447	2336-3798	09910487542
5	Dy Dir/Safety	43998	2330-3803		3548-2113	09971691954
6	Dir/Chg – I	43578	2338-9764		2336-8702	09910487468
7	Jt. Dir./Chg.	43576	2338-5147			09910487469
8	Dir./TT(POL)	43659	2338-4641		2626-6129	09910487527
9	Dir/TT(G)	43521	2338-4744	22373	2374-5366	09910487526
10	ED/Chg.	43892	2338-3624	52402	2467-8085	09810197415
11	Adv./Safety	43302	2338-1344	52404	2611-1211	09818798390

QUICK RESPONSE TEAM (QRT) AT OTHER RAILWAY ZONES

Postal Address	Phones with STD code/e-mail
Additional General Manager, Eastern Railway, Kolkata.	033-24391114 (O) / 033-24392749 (R) / 033-24391114 (Fax) 9433062001 (Mob), E-mail : agm@ser.railnet.gov.in
Additional General Manager, S. E. Railway, Kolkata.	033-24391114 (O) / 033-24392749 (R) / 033-24391114 (Fax) 9433062001 (Mob), E-mail : agm@ser.railnet.gov.in
Additional General Manager, S. C. Railway, Secunderbad.	040-27824216 (O) / 040-27002285 (R) / 040-27824216 (Fax) 9849484455 (Mob), E-mail : agm@scr.railnet.gov.in

QUICK RESPONSE TEAM (QRT) AT THE MINISTRY OF RAILWAY

Name/Designation/Office Address/Residential Address	Phones with STD code/e-mail
Team Leader - Additional Member(Traffic) Room No.264, Railway Board, Rail Bhavan, New Delhi-01	011-23382427 (O) / 011-23367399 (R) / 011-23303990 (Fax) 9818798393 (Mob) / E-Mail : amt@rb.railnet.gov.in (e-mail)
Alternate Team Leader & Member – 1 Additional Member(Commercial), Room No.473, Railway Board, Rail Bhavan, New Delhi-01	011-23382112 (O) / 011-24675006 (R) / 011-23303973 (Fax) 9818798394 (Mob) / E-Mail : amc@rb.railnet.gov.in (e-mail)
Member – 2 - Additional Member(Mech Engg.), Room No.319, Railway Board, Rail Bhavan, New Delhi – 01.	011-23382975 (O) / 011-23362644 (R) / 011-23303977 (Fax) 9818798388 (Mob) / E-Mail : amm@rb.railnet.gov.in (e-mail)
Member – 3 - Additional Member(Civil Engg.), Room No.125, Railway Board, Rail Bhavan, New Delhi – 01.	011-23382607 (O) / 011-24678603 (R) / 011-23304875 (Fax) 9818798381 (Mob) / E-Mail : amce@rb.railnet.gov.in (e-mail)
Member – 4 - Additional Member(Electrical), Room No.115, Railway Board, Rail Bhavan, New Delhi – 01.	011-23381227 (O) / 011-23361425 (R) / 011-23304692 (Fax) 9818798383 (Mob) / E-Mail : aml@rb.railnet.gov.in (e-mail)

Member – 5 - Additional Member(Telecom), Room No.152, Railway Board, Rail Bhavan, New Delhi – 01.	011-23383815 (O) / 011-25559607 (R) / 011-23304686 (Fax) 9810048970 (Mob) / E-Mail : amtele@rb.railnet.gov.in (e-mail)
Member – 6 – Inspector General (RPF), Room No.437, Railway Board, Rail Bhavan, New Delhi – 01.	011-23385188 (O) / 011-23366637 (R) / 011-23385188 (Fax) 9810337619 (Mob) / E-Mail : ighq@rb.railnet.gov.in (e-mail)
Member – 7 - Advisor Safety , Room No.353, Railway Board, Rail Bhavan, New Delhi – 01.	011-23381344 (O) / 011-26111211 (R) / 011-23382638 (Fax) 9818798390 (Mob)
Member – 8 – Director, Public Relations, R.No.302, Railway Board, Rail Bhavan, New Delhi–01	011-23381332 (O) / 011-23342085 (R) / 011-23385215 (Fax) 9810046241 (Mob)

Annexure – 09

TELEPHONE NUMBERS :- CRS , ECoR ZONAL HQ & DIVISIONAL OFFICERS

TELEPHONE NUMBER OF COMMISSION OF RAILWAY SAFETY

	COMMISSIONER OF RAILWAY SAFETY					
Designation	Name	Rly Office	Resi	BSNL Office	BSNL Resi	Mobile no. CUG
CCRS	R K Kardan	032-31140	-	0522-2233108	0522-2237702	9794842049
CRS/NR	R K Kardan	030-54752 030-54753	26886589	-	22743345	9717630004
CRS/CR	Chetan Bakshi	010-54950	010-54951	22056058	22824367	9821081597
CRS/WR	Chetan Bakshi	090-22694	010-54951	22034351	22824367	9987640290
CRS/NE/ Circle	Prabhat Vajpayee	23291(NR) 31141 (NER)	-	2234515(NR)	2235232	9794842050
CRS/SE/Circ	S Nayak	080-27062,	-	22484858	24483530	9002080850

le		44604 FAX-08042221			22227062		08455885820
CRS/SC/Circ le	D K Singh	86980 86979	-		27820104 27786980	27003363	9849495073
CRS/ER	R P Yadav	020-27061	-		22483945	-	9002020991
CRS/SR	J S Naidu	060-53200	060-53201		22260650	22265926	9731666003
CRS/NFR	Balbair Singh	27060	-		22481493	-	9830111493

IMPORTANT TELEPHONE NOS OF E.Co.R ZONAL HQ OFFICERS AND DIVISIONS

Sn	Designation	Railway	BSNL (CODE – 0674)	Mobile	Fax	
					Rly	BSNL
1	General Manager	50000 (O) / 50001 (R)	2300773 (O) / 2302773(R)	8455880000	50700	2300196
2	Secy to GM	50002 (O) 50003	2300029 (O) / 2303587 (R)	8455885000	50700	2300196
3	Chief Safety Officer	50560 (O)	2300957 (O) / 2726240 (R)	8455885940	50766	2302758
4	Chief Mechanical Engineer	50050 (O) / 50051 (R)	2303370 (O) / 2301957 (R)	8455885400	50750	2303530
5	Chief Electrical Engineer	50040 (O) / 50041 (R)	2303515 (O) / 2301582 (R)	8455885300	50740	2302524
6	Chief Engineer	50020 (O) / 50021 (R)	2300571 (O) / 2303544 (R)	8455885200	50720	2301887
7	Chief Operations Manager	50060 (O) / 50061 (R)	2303122 (O) / 2303955 (R)	8455885900	50760	2300313
8	Chief Medical Director	50550 (O)	2302041 (O) / 2744390 (R)	8455885500	50756	2303052
9	Chief Signal & Telecom Engineer	50080 (O) 50081(R)	2301891 (O) / 2303681 (R)	8455885800	50780	2303508
10	Chief Security Commissioner	50590 (O) 50591	2303509 (O) / 2301109(R)	8455885700	50790	2302830
11	Chief Commercial Manager	50030 (O) / 50031 (R)	2300375 (O) / 2300993 (R)	8455885950	50731	2302272
12	HQ Control	51662, 51660, 51664	2303564	-	-	-
13	Dy CHC (Disaster)	51064	-	8455885939	-	-
14	Commercial Control	-	=	8455885999	-	-
15	Security Control	-	=	8455885777	-	-

IMPORTANT TELEPHONE NOS OF DIVISIONAL OFFICIALS RELATED TO DISASTER

Sn	Designation	Railway	BSNL	Mobile	FAX
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KHURDA ROAD (BSNL STD CODE-0674)					RLY	BSNL
1	Divisional Railway Manager	72200 (O) / 72201 (R)	2490567 (O) / 2490568 (R)	8455887000	72100	2492568
2	Addl. Divisional Railway Manager	72202 (O) / 72203 (R)	2490264 (O) / 2490364 (R)	8455887001	72902	2490264
3	Sr. Divisional Safety Officer	72266 (O) / 72267 (R)	2491404 (O) / 2491403 (R)	8455887940	-	-
4	Chief Controller	72360 (O) / 72361 (R)	2490391(O)	8455887928	72347	2372347
5	Dy CHC (Disaster)	-	-	8455887939	-	-
6	Commercial Control	-	-	8455887999	-	-
7	Security Control	-	-	8455887777	-	-

WALTAIR (BSNL STD CODE-0891)						
1	Divisional Railway Manager	82200 (O) / 82201 (R)	2746200 (O) / 2762000 (R)	08978080000	82404	2728832
2	Addl. Divisional Railway Manager	82202 (O) / 82203 (R)	2746202(O) / 2746203 (R)	08978080001	82404	2728832
3	Sr. Divisional Safety Officer	82260 (O) / 82261 (R)	2746260(O) / 2746261 (R)	08978080940	82562	2796708
4	Chief Controller	82466 (O) / 82467 (R)	2746255(O)	-	82562	2842562
5	Conference Hall	82088, 82089, 83096, 82265	2746255, 2746266	-	-	-
6	Dy CHC (Disaster)	-	-	8978080939	-	-
7	Commercial Control	-	-	8978080999	-	-
8	Security Control	-	-	8978080777	-	-

SAMBALPUR (BSNL STD CODE-0663)						
1	Divisional Railway Manager	62200 (O) / 62201 (R)	2401331(O) / 2400498 (R)	8455886000	62343	2401331
2	Addl. Divisional Railway Manager	62202 (O) / 62203 (R)	2405312 (O) / 2404872 (R)	8555886001	62402	2405312
3	Sr. Divisional Safety Officer	62262 (O) / 62263 (R)	2533097 (O) / 2533096 (R)	8455885940	625146 2538	2533097
4	Chief Controller	62330 (O) / 62675(R) 62639	2409193	8455886925	62522	2533169
5	Dy CHC (Disaster)	-	-	8455886939	-	-
6	Commercial Control	-	-	8455886999	-	-
7	Security Control	-	-	8455886777	-	-

Annexure - 10**SATELITE TELEPHONE NUMBERS**

Location	Voice No.	FAX No.	Data No.
	ISD Code – 00870		
Control Test Room/ KUR	763096096 763096090	763096091	763096092
	763982052	763982053	763982054
SBP/ ART	763096078	763096079	763096080
KBJ /ART	763982064	763982065	763982066
WAT /ART	763096143	763096144	763096145
KRPU /ART	763096290	763096291	763096292
HQ/BBS	763982056	763982057	763982058
HQ/BBS	763982060	763982061	763982062

TELEPHONE NUMBERS OF HELP LINE BOOTHS AT IMPORTANT STATIONS
OF ECoR

D i v	Station	STD Code	Tele. No.	CUG of station		D i v	Station	STD Code	Tele. No.	CUG of station
K U R	BHC	06784	230827	8455889900		S B P	JSGR	06645	214300	8455892811
	JJKR	06726	221301	8455889906			SBP	0663	252122	8455892816
	CTC	0671	2527865	8455889917			RAIR	06644	253169	8455892845
	BBS	-	-	8455889922			BLGR	06652	232620	8455892825
	KUR	-	-	8455889925			TIG	-	-	8455892831
	BALU	06756	220412	8455889934			KSNG	06670	222241	8455892832
	BAM	-	-	8455889942			AMB	06863	244800	8455892837
	PSA	-	-	08978881006			THV	06677	230008	8455892872
	PUI	06752	225922	8455891891			KBJ	06657	220484	8455892830
	DNKL	06762	228529	8455889952			TRKR	-	9437095914	8455892869
	TLHR	-	-	8455889958			KRAR	06678	221236	8455892865
	ANGL	-	-	8455889960			MSMD	07723	222068	9752416045
	PRDP	06722	229434	8455891866			ANMD	07720	214260	9752416048

Div	Station	STD Code	Tele. No.	CUG of station
W A T	NWP	08945	249728	8978081947
	CHE	08942	287222	8978081951
	NML	08922	204131	8978081957
	KTV	08966	273131	8978081962
	VSKP	0891	2746268	8978280920
	DVD	0891	2001419	8978081968
	PVP	08963	221038	8978081976
	RGDA	06856	222023	8455893900
	LKMR	06855	268665	08455893907

Div	Station	STD Code	Tele. No.	CUG of station
	KRPU	-	-	8455893911
	ARK	08963	249632	8978081984
	JDB	07782	222408	9752413950
	BHNS	07857	261202	9752413963
	BCHL	07857	230013	-

Annexure - 12

TELEPHONE NOS OF MEDICAL / DOCTORS & DETAILS OF FACILITIES AVAILABLE (STATION-WISE)

(Details of local Resources)

DIVISION : KHURDA ROAD

Name of station & CUG of station	Name of near by Hospital/Nursing home	Distance from station	Name of Doctors	Telephone/mobile no. of hospitals/nursing home/doctos	Facility available in hospital/nursing home & beds	Ambulance contact numbers	Telephone of nearest blood bank with capacity	Near est Police Station & Contact nos. of Incharge	Contact nos. of Paramilitary forces	Nearest Fire station contact nos.	Name & Contact nos. of NG O/V volunteer Organization, including Red Cross.	Size of NG O & related to Disaster	Near est Bus depots, Contact nos. of Manager	Contact nos. of Major Transport Agencies	Contact nos. of Agency of Earth Moving Equipment suppliers	Name & Contact nos. of Tahasil & Tahasildar	Name & Contact nos. of District & District Collector	Mobil e no. of any one related to DM
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

MRDL 845588 9955	Govt.H ospt.M RDL Dr.Nee lamani clinic	0.5	Dr.D.R.B ehera 9437277 591 Dr.Neel amani Dhal 0673225 8039	--	Govt.H ospital Out door& Indoor 10 beds Dhal Clinic Prmar y Treat ment	-	-	Motan ga Police Station 067322 58047 OIC J.Saho o 943710 6667	-	Odapada Fire Station 067322560 22 Incharge 943814145 8	0	-	-	-	-	-	-	-
CTC 845588 9917	RLY HOSPI TAL,SC B MEDIC AL	04K M	GOVT HOSPIT AL	6712414499	ALL TYPES OF MEDIC AL TREAT MENT AVAIL ABLE	108		MALGODAN POLICE STATION		CHAULIAGANJA067329 43381					BADAMBADI 06712312995		671250 8100	9861437 381
KNPR 845588 9916	RAILW AY HOSPI TAL CTC	SAD GUR U NAR SIN G HO ME	05 KM 02 KM	Dr SASMITA MOHANTY 622491626, 720509611	ALL TYPES OF MEDIC AL TREAT MENT AVAIL ABLE	108	0671- 29022 58	jagatp ur p/s	NIL	CHAULIAG ANJA0673 2943381	NIL	NIL	NIL	NIL	NIL	N.K DAS 0671- 2491 742	0671- 250810 0	9861437 181
KIS 845588 9904	TANGI PSC	1/2 KM	NIL	NIL	ALL TYPES OF MEDIC AL TREAT MENT AVAIL ABLE	108	0671- 29022 58	jagatp ur p/s	NIL	CHAULIAG ANJA0673 2943381	NIL	NIL	NIL	NIL	NIL	N.K DAS 0671- 2491 742	0671- 250810 0	9861437 181
BYY 845588 9913	BADAC HANA PSC	10 K.M	DR.N NAIK	9439998027	ALL TYPES OF MEDIC AL TREAT MENT AVAIL ABLE	108	0671- 29022 58	BADAC HNA P/S	NILL	CHANDIKH OLE FIRE STATION 101	NIL	NILL	NILL	NILL	NILL	A.K BISW AL	06725- 220222	S.K. MALIK 06728- 222001
BRTG 845588 9912	BADAC HANA PSC	10 K.M	DR.N NAIK	9.44E+09	ALL TYPES OF MEDIC AL TREAT MENT AVAIL ABLE	108	0671- 29022 58	BADAC HNA P/S	NILL	CHANDIKH OLE FIRE STATION 101	NIL	NILL	NILL	NILL	NILL	A.K BISW AL	06725- 220222	S.K. MALIK 06728- 222001

DNM 845588 9911	BADAC HANA PSC	10 K.M	DR.N NAIK	9439998027	ALL TYPES OF MEDICAL TREAT MENT AVAIL ABLE	108	0671- 29022 58	BADAC HNA P/S	NILL	CHANDIKH OLE FIRE STATION 101	NIL	NILL	NILL	NILL	NILL	A.K BISW AL	06725- 220222	S.K. MALIK 06728- 222001
HDS 845588 89910	BDH ARM A SALA CHC ARO A	5 K. M, 10 K. M	DR. C.M MISHR A	06725- 283379 94371- 63046	ALL TYPE S OF MEDI CAL TREA TME NT AVAI LABL E	108	0671- 29022 58	BADAC HNA P/S	NILL	CHANDIKH OLE FIRE STATION 101	NIL	NILL	NILL	NILL	NILL	A.K BISW AL	06725- 220222	S.K. MALIK 06728- 222001
SQQ 845588 89946	TANG I PSC BHA GATP UR PSC ESI HOSP ITAL CHO UDW AR	8K. M, 3K. M, 18 K. M	NILL	NILL	ALL TYPE S OF MEDI CAL TREA TME NT AVAI LABL E	108	0671 - 2302 258/ 2305 643	TANG I POLIC E STATI ON	NILL	CHOUD WAR FIRE STATIO N 101	NILL	NILL	NILL	NILL	NILL	NAR END RA KU MA R DAS 067 1- 249 174 2	0671- 2508 100	98614 37181
CBT 845588 89947	ESI HOSP ITAL, CHO UDW AR	4K. M	NILL	NILL	ALL TYPE S OF MEDI CAL TREA TME NT AVAI LABL E	108	0671 - 2302 258/ 2305 643	CHO UDW AR POLIC E STAI ON	NILL	CHOUD WAR FIRE STATIO N 101	NILL	NILL	NILL	NILL	NIL	NAR END RA KU MA R DAS 067 1- 249 174 2	0671- 2508 100	98614 37181

GJTA 84558 89948	ES! HOSP ITAL, CHO UDW AR	12 K. M	NILL	NILL	ALL TYPE S OF MEDI CAL TREA TME NT AVAI LABL E	108	0671 - 2302 258/ 2305 643	BALI POLIC E STATI ON	NILL	CHOUD WAR FIRE STATIO N 101	NILL	NILL	NILL	NILL	NILL	NILL	0671- 2508 100	98614 37181
BHC 84558 89900	RAIL WAY HOSPI TAL ,Dst Govt	400 km & 4k m	Dr.R.C Mohan ty,G.Pa ttnaik	067842502 20,CDMO, 94999430	Patho iloy, OPD4 00 ,Beed s	1087 8940 8045 5	BHC,0 6784, 25181 7	BHC, M.RO UT,94 37018 644	OC,GRP, K.BARIK 9438079 803	BHC,101, 06784231 444	ASIA NA,9 4370 0048 9	BHC, 15 VOL UNT EERS	BHC	R.K.A GENC Y,943 99009 88	RANJ AN DAS,9 43863 4977	BHC, 0678 4240 545, SAR AT KU DAS	L.N. MISH RA,94 3706 1000	P.A to Collect or
RLJC 84558 91892	RAIL WAY HOSPI TAL ,Dst Govt	5k m, 9k m	Dr.R.C Mohan ty,G.Pa ttnaik	067842502 20,CDMO, 94999430	Patho iloy, OPD4 00 ,Beed s	1087 8940 8045 5	BHC,0 6784, 25181 7	BHC, M.RO UT,94 37018 644	OC,GRP, K.BARIK 9438079 803	BHC,101, 06784231 444	ASIA NA,9 4370 0048 9	BHC, 15 VOL UNT EERS	BHC	R.K.A GENC Y,943 99009 88	RANJ AN DAS,9 43863 4977	BHC, 0678 4240 545, SAR AT KU DAS	L.N. MISH RA,94 3706 1000	P.A to Collect or
BUDR 84558 89901	RAIL WAY HOSPI TAL ,Dst Govt	10 KM ,6 KM	Dr.R.C Mohan ty,G.Pa ttnaik	067842502 20,CDMO, 94999430	Patho iloy, OPD4 00 ,Beed s	1087 8940 8045 5	BHC,0 6784, 25181 7	BHC, M.RO UT,94 37018 644	OC,GRP, K.BARIK 9438079 803	BHC,101, 06784231 444	ASIA NA,9 4370 0048 9	BHC, 15 VOL UNT EERS	BHC	R.K.A GENC Y,943 99009 88	RANJ AN DAS,9 43863 4977	BHC, 0678 4240 545, SAR AT KU DAS	L.N. MISH RA,94 3706 1000	P.A to Collect or
KED 84558 89902	NEW GOVT . PHC, KDRP	1	Dr.S.PA TTNAIK , 876377 4720	02	OPD	108	DO	KEND UAPA DA P.S.94 39551 572	DO	DO	DO	DO	DO	DO	DO	B.M. CHO WD HAR Y, 9861 2051 18	DO	DO
MZZ, 84558 89903	NEW GOVT . PHC, MZZ	1	Dr.D.P ATI, 977789 0989	02	OPD	108	DO	MZZ, P.S. 06784 23113 4	DO	67862303 43	DO	DO	-	-	-	BHA NDA RI POK HARI ,067 8623 2932	DO	DO

BTV, 84558 89904	BARU NDEI NEW GOVT .PHC	1.5	Dr.H.K UMAR, 889577 6730	067262411 68	OPD 02BEDS	108	JKKR	KORAI , 06726 26503 5	DO	67262 41101	-	-	JKKR	-	-	JKKR, 9438 1275 5	A.MA LLIK,9 43703 1784	P.A to Collect or, 943729 7722
KRIH, 84558 89905	KRIH, CHC	1	Dr.S.K. PRUST Y,9439 992435	067262650 77	OPD 06BEDS	108	JKKR	KORAI , 06726 26503 5	DO	DO	-	-	JKKR	-	-	JKKR, 9438 1275 5	DO	DO
JKKR, 84558 89906	CHC,JK KR	1.4	Dr.A.K AR, DR.B.K. DAS,	947212924 , 993853646 9	30 BEDS, PATH OLOGY, MIN OR OT, X-RAY, BLOOD BANK	108, 0672 6220 202	100 UN ITS	JKKR, S.K.MI SHRA, 94372 59461	OC/RPF 8455887 707, OC/GRP ,912446 8714	JKKR, 06726220 444, 101	NATI ONA L INST ITUTE FOR SOCI AL WEL FARE ,933 8466 222	10 VOL UNT EERS AT ANY TIME	JKKR, 06726 22001 0, 94380 42415	98611 07283 , K.MO HANT Y TRAN SPOR T AGEN CY	S.NAY AK, 94372 27826	JKKR, 9438 1275 5	A.MA LLIK,9 43703 31784	P.A to Collect or, 943729 7722
RJGR 84558 89950	KHUN TINI CSPT ,PHC, PVT NURS HING HOM E, KHUN TUNI	PH C,2 KM ,NU RSH ING HO ME 3 KM	Dr. A. SAHOO ,Dr. S.K.BH OLO	754099585 9,9437122 030,99373 78059	4.BED S,10 BEDS	108,1 02	S.C.B, CTC	KHUN TIN,I P.S,94 37094 510	N.A	ATHAGA RGH,14 KM,0672 3220233	NGO ,NIL, RED CRO SS, ATH AGA RH, GOV T, HOS PITA L	NA	J&J ASSO CIATE, 99377 08725 ,9438 28752 5	#####	ATH AGA RGH, U.K. RAJ, 9692 4807 53	N.C. MISH RA,94 37900 002	OFFICE. 067125 08100, RES- 067123 01001, MOB,9 437445 146	
RQP,8 45589 1869	KHUN TUNI GOVT, HOSPIT AL	3K. M	Dr.A.Sa hoo,	754099585 9	NIL	108	—	KHUN TUNI ,PS,M OB,94 37094 510	—	ATHAGA RH,06723 220233	—	—	—	—	—	UMA KAN T RAJ, 0672 3220 237	N.C. MISH RA,OF FICE NO06 71230 1001	—

DNKL,8455889952	DIST, MEDICAL, DNKL	2.5	Dr.S.K. DAS	,9439981081,P&T,06762226423	ALLSH ORTS OF MEDICAL FACILITY AVAIL ABLE	108,102	DNKL, HOSPITAL, BLOOD BANK ,06762221388,2.5 KMCA PACITY,5.00 UNIT	DNKL P.S,IIC TOWN P.S,P. K. PRADHAN,9437153033, P&T NO.06762-226593	12 ODISHA, BN,NCC, MANHIS APAT,D,NKL,COI,H.R.SINDE,0676222333(O)	DNKL,101 P&T,06762226501	NGO ,KALING EYE HOSPITAL K.M, 05,S. KAR, 9040030636	N.PA RIDA, 9437360189	DNKL BUS STAN D,5 KM9937130100,S. SHARMA	ARNN APURNA FREIGHT CARRIER, AKARSHNA SIHAA ,DNKL,9437547812	AS PER ITEM NO 15.A	S,KAR, 9437590473	DM,K. SAHO O,9439773964	ADM, MR. A. PATTN AIK,9439263655
HND 8455889954	COM MUNITY HEALTH CENTRE (ODAPODA)	1& HALF K.M	A.ROUL	9439981086	10 BEDS	102	NIL	Motanga Police Station ,HNDL,06732256077,J.K. SAHO O,943710667	NIL	HNDL,S.S. SING,943814158	NIL	NIL	NIL	NIL	NIL	LOP AMU DRA MO HAN TY,O DAP ODA,9437108176	RUPA ROSA N SAHO ODNK L,9439773964	RUPA ROSAN SAHO O DNKL,9439773964
NQR, 8455891867	SCB HOSPITAL CTC.	15KM	NIL	06712614499	-	-	-	PS-BARANGPRANDI, GODIS AHI 0671230547	MUNDALI	CTC 06712505101	-	-	-	-	-	-	-	-
KUR 8455890905	KUR RLY.HOSPITAL	0.04	RLY.DOCOS	Dr.S.M.AG RAWAL 06742495601 Dr.Md.ZAHIR BAIG 06742495576	-	108 RLY.-72777	-	100	-	JATNI 101	-	-	-	-	-	-	06755228802 9438485724	-
KURT 8455889918	GOVT .HOSPITAL,KHORDA 06755220187	-	Dr.S.MI SHRA 9439994500	-	-	9090959601	-	6755220062	-	-	-	-	-	-	-	-	06755220001 9438482911	-

TAP 84558 89927	MALI PADA	-	-	-	-	-	-	JANKI A 06755 24002 6	-	KHURDA TOWN 06755220 733	-	-	-	-	-	-	-	-
BYZA 84558 89923	GOVT .HOSP ITAL BEGU NIA	4			OUTD OOR 4 BEDS	108		BEGU NIA 06755 23012 8	BEGUNI A 0675523 0108	-	-	-	-	-		6755230200		
RSKA	GOVT .MEDI CAL, RSKA	1.5	Md.KH AN & S.K.JIB RAL	067557340 67	OT ROOM & 6BED	108	-	RANP UR 06755 73607 8	-	RANPUR 101	-	-	-	-	-	R.P.P ATEL	-	-
KPXR, 84558 89926	KUR TOW N	9 KM	NIL		NIL	NIL	NIL	NIL	NI	KHURDA TOWN 06755220 733	KUR TOW N	NIL	KURD A TOW N	KURD A TOW N	NIL	NIL	KUR,D M,220 002	KUR,D M,2200 02
GTA, 08455 88994 3	GOVT, HOSPI TAL,B CM,N KCG	13 KM	NIL	NIL	NIL	102	NIL	GULA NTHA PS,06 80211 1166	NIL	BAM,068 02223333	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
BAM ,08455 88994 2	GOVT HOSPI TAL,B AM	NIL	NIL	GOVT HOSPITAL, BAM	NIL	102	NIL	NIL	NIL	BAM,068 02223333	NIL	NIL	BAM	NIL	NIL	NIL	NIL	NIL
PSA 08978 88100 0	GOVT, HOSPI TAL,D r.M.R AO	2K M	Dr.M.R AO	089452410 63,089452 42126	NIL	108	NIL	KASIB UGGA ,PS,08 94524 10333	NIL	KASIBUG GA,08945 263600	NIL	NIL	BAM	NIL	NIL	NIL	NIL	NIL
SUDV 08978 88100 5	GOVT, HOSPI TAL,D r.M.R AO	10K M	Dr.M.R AO	089452410 63,089452 42126	NIL	108	NIL	KASIB UGGA ,PS,08 94524 10333	NIL	KASIBUG GA,08945 263600	NIL	NIL	BAM	NIL	NIL	NIL	NIL	NIL
MMS 08978 88100 4	GOVT, HOSPI TAL,M ANIP URA M	NIL	NIL	GOVT,HOS PITAL,MD- 994913612 5	NIL	108	NIL	MANI PURA M	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL

BAV 08978 88100 3	GOVT, HOSPITAL, BAV	NIL	NIL	GOVT,HOSPITAL,BAV 089472351 31	NIL	108	NIL	BAV,P S,089 47235 133	NIL	SOMPET A,089472 34101	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
SPT 08978 88100 2	GOVT, HOSPITAL, SPT	4 KM	NIL	GOVT,HOSPITAL,SPT, 089472343 50	NIL	108	NIL	KANC HILI,P S.944 07958 40	NIL	SPT,0894 7234101	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
SLRD 08455 88994 4	GOVT, HOSPITAL GIRIS OLA,S LRD	1K M	NIL	068022442 77,093716 0779	NIL	108,1 02	NIL	IPM,0 89472 31033	NIL	CIPM,089 47231101	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
CAP 08455 88940	GOVT, HOSPITAL ,CAP	1K M	NIL	068112626 00	NIL	102	NIL	CAP,1 00	NIL	CAP,101	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
JNP 08455 88994 1	GOVT, HOSPITAL ,JNP	423 71	NIL	GOVT HOSPITAL, 876368224 0	NIL	102	NIL	JNP,P S,068 11257 523	NIL	BAM,068 02223333	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
JPI 08978 88100 1	GOVT, HOSPITAL, R BELA GAUN	NIL	NIL	GOVT,HOSPITAL ,R BELAGAUN ,08947247 498	NIL	108	NIL	KANTI ,0894 72361 33	NIL	SPT,0894 7247498	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
NKP ,84558 89928	PHC,N KP	01 KM	NANIT A CHAUD HURY	966867661 0	NO BED	108	NIL	NKP,0 67562 12567	NIL	TANGI,06 75622422 2	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
BSDP 84558 89929	KANT ALBAI ,GOVT HOSPITAL, 7 38103 1283	1K M	Dr.M.K UMAR, 738103 1283	NIL	NIL	NIL	NIL	TANGI /PS	NIL	TANGI/,1 4KM	NIL	NIL	TANGI	NIL	NIL	TAN GI	KUR,T OWN	NIL
KAPG 84558 89990	TANGI	6K M	S.N.KH UNTIA	06756- 254034	8	108	NIL	TANGI /0675 6,224 021	NIL	TANGI/0 6756,224 021	NIL	NIL	TANGI	NIL	NIL	NIL	NIL	NIL

KUU 84558 89931	PRIM ARY HEALT H CENT RE,TA NGI	12	Dr.S.MI SHRA 06756- 254219	Dr.M.SENA PATI	PRIM ARY TREAT MENT ,10 BEDS	108	NIL	TANGI ,0675 6- 25422 1	NIL	GANGA DHARPU R ,0656255 101	NIL	NIL	NIL	NIL	NIL	CHIL KA,P .MA NDA L	KHOR DA,N. SAHO O	NIL
GNGD 84558 89932	TANGI ,	20K M	NIL	NIL	NIL	108	NIL	NACH UNI,9 43729 1865	NIL	91675625 5101	NIL	NIL	NIL	NIL	NIL	9692 2323 20	94370 90296	943848 2911
BALU 84558 89934	CHC2, BALU, AWA HOSPI TAL INS,C HILIK A	7K M, Dr M.T RIP AT HI	Dr.S.PA NDA	943719942 1	32 BEDS	108,9 9387 7997 0	BANA PURA ,KHU RDA	BALU, 06756 25043 6	NIL	BALUGA ON,0675 6250444	LION OS CLU B	NIL	BALU BUS STAN D	GATE INDIA TRAN SPOR T	B.PAI KRAY, 94371 315	MAN DAL, 9692 2323 20	N.SAH OO,94 37275 0	NIL
CHILK A,845 58899 35	AVA HOSPI TAL	1K M	A.MOH ARANA	06756- 250442	DEFE NCE STAFF 20, BEDS	108	BANA PUR BLOO D,KH ORDA TOW N	BALU GAON 06756 - 25043 6	NIL	BALUGA ON,0675 6250444	LION S CLU B,BA NAP UR.	CHIT RAN GDA VILL AGE, 280 BED S	BALU GAON BUS STAN D	GATE INDIA TRAN SPOR T	94371 3457	BAN APU R,TA HSIL	N.SAH OO,94 37275 0	NIL
KIT 84558 89936	GOVT, HOSPI TAL, KHALI KOT	5 K. M.	S.SAHO O	068102569 01	30 BEDS	0681 0256 901	NIL	KHALI KOT PS,06 81025 6320	NIL	06810256 320	NIL	NIL	NIL	NIL	NIL	KHA LIKO T	GANJ AM,D M- 06811 - 26370 0	NIL
RBA 84558 89937	GOVT, HOSPI TAL, RAMB HA	2K M	P.K. SETHY, 876357 2873	943999861 5	10 BEDS	BAM	RAM BHA	RAMB HA ,PS,94 39400 01	NIL	RAMBHA ,9437452 382	NIL	NIL	NIL	NIL	BAM	KHA LIKO T	GANJ AM,D M- PREM CHAN D CHOU DURY	NIL
HMA 84558 89938	PHC,H UMM A	1K M	Dr.S.D AS	943998313 8	4 BEDS	108	BAM	RAMB HA,06 81027 8330	NIL	CHATRAP UR	0681 1262 600	PRA TIK,9 6585 1191 9	HUM MA	NIL	GANJ AM	GAN JAM	CHAT RAPU R	NIL
GAM 84558 89939	P.H.C, GANJ AM	1/2 KM	943999 8613	NIL	108	BAM	06811 25417 7	NIL	CAP,100	BAM,068 02223333	BAM	CHA TRA PUR	BAM	BAM	GANJ AM,T AHSIL, 06811 25404 5	BAM	BAM	NIL

TLHR 84558 89957	N.S.C HOSPITAL	7 KM	P.C. PATRA	067602691 83	CASU ALITY & EMER GENC Y FACILI TY	108	RED CROS S B/BA NK,94 39123 301	COLLI ARY P.S 94375 76969	NIL	TLHR	SEV A,TA LCHE R,06 7642 8623	NIL	NIL	TLHR	NIL	P.C. DAL AI,97 7619 4521	A.K.S AMAL	NIL
BDPK 84558 89956	CORP ORAT E HOSPITAL	6K M	Dr.T.SA HOO	06764- 229629	20 BED	108,9 1786 8826 0	06764 - 23088 0	BANA RPAL, PS ,S,MA LLICK, 0674- 22926 0	NIL	BDPK,BA NARPAL, 101	RUR AL INST ITUT E OF CHIL D WEF ARE & HU MA N DEV ELOP MEN T	SMA LL	BANA RPAL	ANGU L	BANA RPAL, S.MO HANT Y	A.K.S AMA L,06 764, 2305 67	S.C.SE THY,9 43724 7757	NIL
TLHD 84558 89959	BANA RPAL	6K M	Dr.T.SA HOO	06764- 229629	20 BED	108,9 1786 8826 0	ANGU L,067 64,23 0880	BANA RAPAL ,S,MA LLICK, 0674- 22926 0	NIL	0670- 240222	RUR AL INST ITUT E OF CHIL D WEF ARE & HU MA N DEV ELOP MEN T	SMA LL	BANA RPAL	TLHR	BANA RPAL	S.K. MO HAN TY,0 6764 - 2293 23	A.K.S AMAL	S.C.SET HY,943 724775 7
TLSB 84558 89920	NEHR U SHAT ABDI HOSPITAL	2 KM	A.N.BE HEHA	269185	TYPES OF FACILI TY AVAIL ABLE	NIL	RED CROS S, ANGL, 94374 14388	COLLI ARY P.S 24027 58	NIL	6KM,240 222	NIL	MAR WA DDD DDI YUV AMA NCH	TLHR	NIL	NIL	TLHR	NIL	NIL

ANGL 84558 89960	GOVT, HOSPITAL, ANGNGL	3K M	Dr.B.SA HOO,9 439981 331	ALL FACILITY	NIL	108	ANGL, 0674 23088 0	ANGL, TOWN THAN A,067 64- 23044 4	NIL	06764- 230222	SEV ASH ARM A ANG L	NIL	NIL	NIL	NIL	9438 1714 06	NIL	A. SAMAL ,94370 31784
PUI 84558 91891	DHH/ PUI	2K M	NIL	067522237 42	NIL	102/ 108	NIL	SADA R P.S,	NIL	PURI 06752,22 2101	NIL	NIL	PURI	NIL	NIL	PURI	A.AGA RWAL ,9437 57256 7	NIL
MLT 84558 91890	DHH/ PUI	7K M	NIL	067522237 42	NIL	102/ 108	NIL	CHAN DANP UR,06 752,2 74435	NIL	PURI 06752,22 2101	NIL	NIL	PURI	NIL	NIL	PURI	A.AGA RWAL ,9437 57256 7	NIL
SIL 84558 91889	SIL, GOVT, HOSPITAL	1.5 KM	NIL	067522278 99	NIL	102/ 108	NIL	SATYA BADI P.S	NIL	SIL,06752 1,273250	NIL	NUL	PURI	NIL	NIL	SIL	DO	NIL
BRST 84558 91888	SIL, GOVT, HOSPITAL	8K M	NIL	067522278 99	NIL	102/ 108	NIL	SATYA BADI P.S	NIL	SIL,06752 1,273250	NIL	NIL	PUI	NIL	NIL	PIPLI	DO	NIL
DEG 84558 91887	DELA NG	1K M	NIL	06758/242 255	NIL	102.1 08	NIL	DELA NG P.S,06 7581 24222 2	NIL	DELANGO 67581,24 2301	NIL	NIL	PURI	NIL	NIL	DELA NG	DO	NIL
MWQ 84558 91886	DELA NG	5K M	NIL	06758/242 255	NIL	102.1 08	NIL	DELA NG P.S,06 7581 24222 2	NIL	DELANGO 67581,24 2301	NIL	NIL	PURI	NIL	NIL	DELA NG	DO	NIL
KDRP 84558 91861	GOVT HOSP T,KDR P	13K M	943999 5009,S CB MEDIC AL, 067124 14499	943999500 9	10BE DS	108	CTC,0 671,2 36225 8	0671, 28022 35	NIL	CHAULIA GANJ,067 1- 2343331	CTC	CTC, BAD AMB ADI	CTC,B ADA MBA DI	90406 86804	NIL	NIL	NIL	NIL
RCTC 84558 91862	DO	RCT C,1 /2 KM ,06 724 267 906	NIL	NIL	10,BE DA	108	CTC,0 671,2 36225 8	S.MO HANT Y	2677659 9381907 26	RCTC,067 24267240 ,	DO	DO	DO	NIL	PWI/C TC	JAG ATSI NGP UR	B.K. UPAD HAYA, IAS,06 72422 0379	NIL

GRKN 84558 91863	JAIPU R,PHC ,3 KM	JAI PU R,P HC, 067 222 455 98	NIL	NIL	10BE DS	108	DO	TIRTO L,0672 22504 43	NIL	TIRTOL	0672 2250 445	DO	DO	DO	PWI/ GRKN	JAG ATSI NGP UR	B.K. UPAD HAYA, IAS,06 72422 0379	NIL
RHMA 84558 91864	RHM A,MA NIGJA NGA ,2KM	MA NIG AN GH A,0 672 225 060 4,4 KM	NIL	4KM	10BE DS	108	DO	RHMA ,2KM, 06722 25043 3	NIL	TIRTOL	0672 2250 445, 10 KM	NIL	DO	DO	NIL	PWI/ RHM A	DO	DO
BDBA 84558 91865	PPT,2 5 KM	P.K. PA RID A,9 439 992 229	Dr.P.K. PANDA .94399 92229	NIL	NIL	108,K UJAN GA	DO	,10KM	NIL	KUNJAN GA,06722 212900	NIL	DO	BADP ADIA	NIL	NIL	P.W AY/P RDP	DO	NIL
PRDP 84558 91866	PPT HOSPI TAL,0 67222 22041	6 KM	NIL	BM HOSPITAL, 943999222 9	50BE DS AT PPT	108	DO	PRDP	NIL	PPT,0672 2222385	NIL	NIL	BADP ADIA, 10 KM	OCL AGEN T,943 70720 16 AT PPT	DO	KUN JAN GA	DO	NIL

DIVISION : VSKP (Details of Local resources)

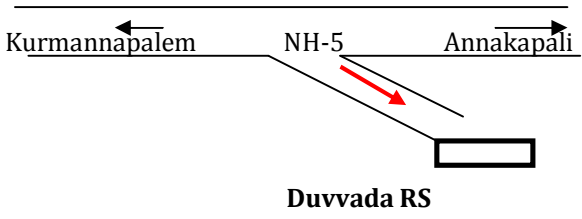
1.	Name of the station & CUG No
2.	Name of nearby hospital/nursing home, distance from station, no of beds, telephone numbers, ambulance contact No.
3	Telephone No. of nearest blood bank with capacity.
4	Name and address of Police station with officer in charge available nearer to the Railway station with Phone Number.
5	Contact Nos. of Paramilitary forces.

6	Road approach map.
7	Nearest Fire station & contact Nos.
8	Name and contact Nos. of NGO/Volunteer organization, including Red Cross.
9	Nearest Bus depots, contact Nos. of Manager.
10	Contact Nos. of Agency of earth moving equipment suppliers.
11	Name and contact No of Tahasildar and District Collector.

1.	VISAKHAPATNAM-8978081966
2.	a) Railway Hospital, Visakhapatnam ,Ph.No. 0891- 2746233, Rly. No. 151 154 bedded, X-ray, Ambulance, and Lab. b) Seven Hills Hospitals, 250 bedded, Distance: 4 Kms. Ph. No. 0891 2708090 (Fax), Emergency: 2524757 c) Apollo Hospitals, 160 bedded, Ambulance, Distance: 4 Kms. Ph. No. 0891 2727272/2529618-22 , Fax: 2560858 d) King George Hospital , 1037 bedded, Ambulance, Blood Bank, Distance: 4 Kms.,Ph. No. 0891 2564891-895, 2564991-995 e) Naval Hospitals, 160 bedded, Ambulance, Distance: 18 Kms. ,Ph. No. 0891 2577885, 2577240.
3	
4	a) I-Town Police station Ph. No. 0891 2563632, 2563550. b) II-Town Police station, Ph. No. 0891 2746866(O), 2566088 (R) ,Cell No. 9440796010 c) III-Town Police station, Ph. No.0891 2755517. d) IV-Town Police station ,Ph. No.0891 2746444, 2521748 (R), Cell No. 9440796053 e) GRP/VSKP, Ph. No. 0891 2746210, Rly. No. 82910, Cell No. 9440193999. f) RPF Post/OP. Visakhapatnam, Ph. No. 0891- 2842818 Rly. Ph.No.82818 [O], 82913 (O) 82819 (R), Cell No. 9440326483 Control room: Ph.No.0891 2501184, Rly. Ph. No. 82810, 82817
5	a) ARMY/VSKP, Ph. No. 0891 2754480, 2569816 b) MES/VSKP, Ph. No. 0891 2704823. c) Maritime Operating Centre/VSKP , Ph. No. 0891 2577885, 2577240. 2577147 (F) d) Command plan officer: , Ph. No. 0891 2578000 Extn. 2694 e) NOIOC (AP), Ph.No.0891 2577269, 2760438.
6	
7	a) Visakhapatnam Regional Fire officer: Ph. No: 0891-2706585 b) Divl. Fire Officer/Visakhapatnam: Ph. No. 0891-2568905 c) Suryabagh Fire station, Ph. No. 0891-2787818 (O) 2563582 (R), Cell No. 9440120252

	Control room: Ph. 0891- 2711065, & 101. d) Kancharapalem Area, Visakhapatnam, Ph. No. 0891 101, 2756585, 2558470 e) BHPV Area, Visakhapatnam, Ph No. 0891 2517621 f) Marripalem Area, Visakhapatnam, Ph. No. 0891 2558470
8	a) Rotary Club, ,Ph. No. 0891 2552476 (O). b) Lions Club, Ph. No. 0891-2553160 (R), Cell No. 98481-59195. c) Sri Satya Sai Seva Samiti, Ph. No. 0891 2502582. d) Visakha Steel plant, Ph. No. 0891 2518301. e) Comm. Visakha steel plant, Ph. No. 0891 2518257, 2518223. f) VPT, Ph. No. 0891 2562758, 2562514, Cell No. 98481-38770. g) Comm. CISF/VPT, Cell No. 98491-21168. h) BHPV, Ph. No. 0891 2517171, i) HPCL, Ph. No. 0891 2578324, j) IOC, Ph. No. 0891 2577116. k) HZL, Ph. No. 0891 2517260. l) MMTC Ph. No. 0891 2562905.
9	a) RTC/VSKP, Depot Manager, Ph. No. 0891 2545962, 2530862 Mee Seva Counter/Dwaraka Bus stand Complex: Ph.No: 0891 2746400. ,PRO: Ph.No: 0891 2746401 Enquiry: Ph.No: 0891 2545400, Visakha Depot: Ph.No: 0891 2551424 Gajuwaka Depot: Ph.No: 0891 2517437 Simhachalam Depot: Ph.No: 0891 2520346 b) Noble transport, Ph. No. 0891 2663311. c) Navata transport, Ph. No. 0891 2561625, 2541258 . d) AVR Company, Ph. No. 0891 2755612. e) East Coast Road ways, Ph. No. 0891 2746495. f) Southern Road Lines, Ph. No. 0891 2747480. g) Kranti transport, Ph. No. 0891 2540579. h) Model travels , Ph. No. 0891 2793297. i) Kesavani Transport, Ph. No. 0891 2534128
10	I) JCB-2 Nos.and Crane-1 No. are available at a) NVS Raju/VSKP. Cell No. 94401-43342. b) K.S.Babu/VSKP, Cell No. 98660-16776. c) N.K.Raju/VSKP, Cell No. 98486-57053. d) B.R.G.Raju/VSKP, Cell No. 98481-92923. II) Ch. Mangapathi, Sri Surya Enterprises, FCI colony, Maddipalem JCM = 2 Nos., Proclain-60 = 1 No. ,Ph. No. 0891 2559365(O), 2558812(R) III) Sri S.Rambabu, M/s. Kranti Enterprises, D.No. 26-26-32/2, Harbor approach road, Visakhapatnam. JCB = 2 Nos. ,Ph. No. 0891 2529343
11	a) District Collector, Ph. No. 2563257 (O), 2526999 (R) ,0891 2754106(F),Cell No. 9848169510. b) Asst. Collector, (RDO) ,Ph. No. 0891 2565252 (O) 2562565 (R),Cell No. 98490-53330. c) MRO/VSKP, Ph.: 0891 2552630 (o) 2566120 (R), Fax: 2552630, Cell No. 9849903824.

	<u>DUVVADA-8978081968</u>
2.	a) Railway Hospital, Visakhapatnam, Ph.No. 0891- 2746233, Rly. No. 151 154 bedded, X-ray, Ambulance, Lab. b) King George Hospital ,1037 bedded, Ambulance, Blood Bank, Distance: 4 Kms.Ph. No. 0891 2564891-895, 2564991-995. c) Naval Hospitals, 160 bedded, Ambulance, Distance: 8 Kms.Ph. No. 0891 2577885, 2577240. d) Community Health Centre, Aganmpudi, Distance: 4 Kms. e) Visakha Steel Plant Hospital, 150 bedded, Ambulance., Distance: 10 Kms. Ph. 0891 2886282, 2888439
3	

4	a) Steel City Police station, Karumanda Palem, Ph. No. 0891 2746444 b) Police station, Gajuwaka, Ph. No.0891 2517071, 2517780. , Cell No. 9440796014 c) GRP/VSKP, Ph. No. 0891 2746211, Cell No. 9440627547, Rly. Ph. No. 82910
5	a) ARMY/VSKP, Ph. No. 0891 2754480, 2569816 b) MES/VSKP, Ph. No. 0891 2704823. c) Maritime Operating Centre/VSKP , Ph. No. 0891 2577885, 2577240, 2577147 (F) d) Command plan officer, Ph. No. 0891 2578000 Extn. 2694 e) NOIOC (AP), Ph. No. 0891 2577269, 2760438, 2578000.
6	<p style="text-align: center;">Gajuwaka – Annakapali Road</p>  <p style="text-align: center;">Duvvada RS</p>
7	a) Visakhapatnam Regional Fire officer: Ph.No: 0891-2706585. b) Divisional FireOfficer/Visakhapatnam, Ph.No: 0891-2568905. c) Gantyada Fire station, Ph. No. 0891 2587632, 2517780. , Control room: 101 d) BHPV Area, Visakhapatnam, Ph No. 0891 2517621 e) Marripalem Area, Visakhapatnam, Ph. No. 0891 2558470 f) Pedagantyada Area, Ph. No. 0891 2515733
8	a) Visakha Steel plant,. Ph. No. 0891 2518301. ,Comm. Visakha steel plant,Ph. No. 0891 2518257, 2518223 b) VSEZ Commissioner, Ph. No. 0891 2587555.
9	a) RTC/VSKP- Depot Manager, Ph. No. 0891 2545962, 2530862 Mee Seva Counter/Dwaraka Bus stand Complex: Ph.No: 0891 2746400. ,PRO: Ph.No: 0891 2746401 Enquiry: Ph.No: 0891 2545400. ,Visakha Depot: Ph.No: 0891 2551424 Gajuwaka Depot: Ph.No: 0891 2517437
10	a) JCB-2 Nos.and Crane-1 No. are available at a) NVS Raju/VSKP. ,Cell No. 94401-43342 b) K.S.Babu/VSKP. ,Cell No. 98660-16776 c) N.K.Raju/VSKP. ,Cell No. 98486-57053 d) B.R.G.Raju/VSKP, Cell No. 98481-92923 e) Ch. Mangapathi, Sri Surya Enterprises, FCI colony, Maddipalem, JCM = 2 Nos., Proclain-60 = 1 No. Ph. No. 0891 2559365(O), 2558812(R). f) Sri S.Rambabu, M/s. Kranti Enterprises, D.No. 26-26-32/2, Harbor approach road, Visakhapatnam JCB = 2 Nos. Ph. No. 0891 2529343
11	a) District Collector. ,Ph. No. 0891 2754106(F),2563257 (O), 2526999 (R) ,Cell No. 9848169510 b) Asst. Collector, (RDO) ,Ph. No. 2565252 (O), 2562565 (R),Cell No. 98490-53330 c) MRO/Gajuwaka, Ph. N0. 0891 2517462 (O) d) ZP In-charge,Ph. No. 0891 2566516(O)

1.	<u>JAGGAYAPALEM-</u>
2.	a) Railway Hospital, Visakhapatnam,Ph.No. 0891- 2746233, Rly. No. 151 154 bedded, X-ray, Ambulance, Lab. b) King George Hospital, VSKP .1037 bedded, Ambulance, Blood Bank, Distance: 4 Kms., Ph. No. 0891 2564891-895, 2564991-995 c) Naval Hospitals, 160 bedded, Ambulance, Distance: 8 Kms. Ph. No. 0891 2577885, 2577240.

	d) Community Health Centre, Aganmpudi, Distance: 4 Kms. e) Visakha Steel Plant Hospital, 150 bedded, Ambulance. Distance:10 Kms. Ph. No. 0891 2886282, 2888439
3	
4	a) Steel City Police station, Karumanda Palem, Ph. No. 0891 2746444 b) Police station, Gajuwaka, Ph. No.0891 2517071, 2517780. Cell No. 9440796014 c) GRP/VSKP, Ph. No. 0891 2746211. Cell No. 9440627547. ,Rly. Ph. No. 82910
5	a) ARMY/VSKP, Ph. No. 0891 2754480, 2569816 b) MES/VSKP, Ph. No. 0891 2704823. c) Maritime Operating Centre/VSKP .Ph. No. 0891 2577885, 2577240. 2577147 (F) d) Command plan officer: Ph. No. 0891 2578000 Extn. 2694 e) NOIOC (AP), Ph. No. 0891 2577269, 2760438, 2578000.
6	
7	a) Visakhapatnam Regional Fire officer: Ph.No: 0891 2706585. b) Divisional Fire Officer/Visakhapatnam:Ph.No: 0891-2568905. c) Gantyada Fire station, Ph. No. 0891 2587632, 2517780. Control room: 101. d) BHPV Area, Visakhapatnam, Ph No. 0891 2517621. e) Marripalem Area, Visakhapatnam. Ph. No. 0891 2558470. f) Pedagantyada Area. Ph. No. 0891 2515733
8	a) Visakha Steel plant. Ph. No. 0891 2518301. Comm. Visakha steel plant. ,Ph. No. 0891 2518257, 2518223. b) VSEZ Commissioner. Ph. No. 0891 2587555,
9	a) RTC/VSKP, Depot Manager. ,Ph. No. 0891 2545962, 2530862 Mee Seva Counter/Dwaraka Bus stand complex: Ph.No: 0891 2746400 PRO: Ph.No: 0891 2746401, Enquiry: Ph.No: 0891 2545400 Visakha Depot: Ph.No: 0891 2551424, Gajuwaka Depot:Ph.No: 0891 2517437
10	I) JCB-2 Nos.and Crane-1 No. are available at a) NVS Raju/VSKP Cell No. 94401-43342. b) K.S.Babu/VSKP, Cell No. 98660-16776 c) N.K.Raju/VSKP, Cell No. 98486-57053

	[d] B.R.G.Raju/VSKP,Cell No. 98481-92923 e) Ch. Mangapathi, Sri Surya Enterprises, FCI colony, Maddipalem JCM = 2 Nos., Proclain-60 = 1 No. Ph. No. 0891 2559365(O), 2558812(R) f) Sri S.Rambabu, M/s. Kranti Enterprises, D.No. 26-26-32/2, Harbor approach road, JCB = 2 Nos. Ph. No. 0891 2529343
11	a) District Collector, Ph. No. 0891 2754106(F) 2563257 (O), 2526999 (R) Cell No. 9848169510. b) Asst. Collector, (RDO) , Ph. No. 2565252 (O), 2562565 (R),Cell No. 98490-53330. c) MRO/Gajuwaka, Ph. NO. 0891 2517462 (O). d) ZP In-charge, Ph. No. 0891 2566516(O)

1.	<u>GOPALPATNAM-8978280919</u>
2.	a) Rly. Hospital, Marripalem,Distance: 4 Kms. b) Visakha Steel Plant Hospital,150 bedded, Ambulance,Distance: 10 Kms. Ph. No. 0891 2886282, 2888439 c) SRL Hospital,,Butchiraju palem, Ph. No. 0891 2571666
3	
4	a) Police station, Gopalpatnam, Ph. No. 0891 250933. b) GRP/VSKP,Ph. No. 0891 2746210.Cell No. 9440193999.Rly. Ph. No. 82910
5	a) ARMY/VSKP,Ph. No. 0891 2754480, 2569816 b) MES/VSKP,Ph. No. 0891 2704823. c) Maritime Operating Centre/VSKP,Ph. No. 0891 2577147 (F) 2577885, 2577240. d) Command plan officer:,Ph. No. 0891 2578000 Extn. 2694 e) NOIOC (AP), Ph. No. 0891 2577269, 2760438, 2578000.
6	
7	a) Visakhapatnam Regional Fire officer: Ph.No: 0891-2706585 b) Divisional Fire Officer/Visakhapatnam: Ph.No: 0891-2568905 c) Kancharapalem Area,Visakhapatnam,Ph. No. 0891 101, 2756585, 2558470 d) BHPV Area, Visakhapatnam,Ph No. 0891 2517621 e) Marripalem Area , Visakhapatnam, Ph. No. 0891 2558470 f) Pedagantyada Area,Ph. No. 0891 2515733
8	a) Visakha Steel plant,Ph. No. 0891 2518301. Comm. Visakha steel plant Ph. No. 0891 2518257, 2518223 b) VSEZ Commissioner, Ph. No. 0891 2587555.
9	a) RTC/VSKP, Depot Manager, Ph. No. 0891 2545962, 2530862 Mee Seva Counter/Dwaraka Bus stand complex: Ph.No: 2746400

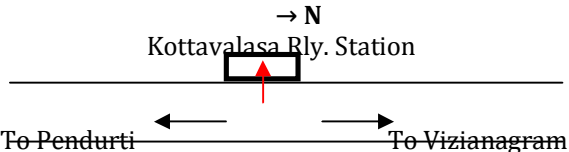
	PRO: Ph.No: 2746401, Enquiry: Ph.No: 2545400 Visakha Depot: Ph.No: 2551424. ,Simhachalam Depot: Ph.No: 2520346
10	I) JCB-2 Nos.and Crane-1 No. are available at a) NVS Raju/VSKP Cell No. 94401-43342, b) K.S.Babu/VSKP,Cell No. 98660-16776 c) N.K.Raju/VSKP, Cell No. 98486-57053 d) B.R.G.Raju/VSKP, Cell No. 98481-92923 II) Ch. Mangapathi, Sri Surya Enterprises, FCI colony, Maddipalem JCM = 2 Nos., Proclain-60 = 1 No. Ph. No. 0891 2559365(O), 2558812(R) III) Sri S.Rambabu, M/s. Kranti Enterprises, D.No. 26-26-32/2, Harbor approach road, JCB = 2 Nos. Ph. No. 0891 2529343
11	a) District Collector, Ph. No. 0891 2563257 (O), 2526999(R), Cell No. 9848169510, 2754106(F) b) Asst. Collector, (RDO) , Ph. No. 2565252 (O) 2562565 (R), Cell No. 98490-53330. c) MRO/Ph. NO. 0891 2552630. d) ZP In-charge, Ph. No. 0891 2566516(O)

1.	<u>SIMHACHALAM NORTH Jn.8978280918</u>
2.	a) Rly. Hospital, Marripalem, Distance: 4 Kms. b) Visakha Steel Plant Hospital, 150 bedded, Ambulance Distance: 10 Kms. Ph. No. 0891 2886282, 2888439 c) SRL Hospital, Butchiraju palem, Ph. No. 0891 2571666
3	
4	a) Police station, Gopalpatnam, Ph. No. 0891 250933. b) GRP/VSKP, Ph. No. 0891 2746210. Cell No. 9440193999. Rly. Ph. No. 82910
5	a) ARMY/VSKP,Ph. No. 0891 2754480, 2569816 b) MES/VSKP, Ph. No. 0891 2704823. c) Command plan officer: Ph. No. 0891 2578000 Extn. 2694 d) NOIOC (AP), Ph. No. 0891 2577269, 2760438, 2578000.
6	
7	a) Visakhapatnam Regional Fire officer: Ph.No: 0891-2706585 b) Divisional Fire Officer/Visakhapatnam:Ph.No: 0891-568905 c) Kancharapalem area, Visakhapatnam,Ph. No. 0891 101, 2756585, 2558470 d) BHPV Area, Visakhapatnam, Ph No. 0891 2517621

	e) Marripalem Area, Visakhapatnam, Ph. No. 0891 2558470 f) Pedagantyada Area, Ph. No. 0891 2515733
8	a) Andhra Cement, Ph. No. 0891 2520348, 2520404-406
9	a) RTC/VSKP, Depot Manager, Ph. No. 0891 2545962, 2530862 Mee Seva Counter/Dwaraka Bus stand complex: 2746400 PRO: 2746401, Enquiry: 2545400 Visakha Depot: 2551424, Simhachalam Depot: 2520346
10	I) JCB-2 Nos. and Crane-1 No. are available at a) NVS Raju/VSKP Cell No. 94401-43342. b) K.S.Babu/VSKP, Cell No. 98660-16776 c) N.K.Raju/VSKP, Cell No. 98486-57053 d) B.R.G.Raju/VSKP, Cell No. 98481-92923 II) Ch. Mangapathi, Sri Surya Enterprises, FCI colony, Maddipalem JCM = 2 Nos., Proclain-60 = 1 No. Ph. No. 0891 2559365(o), 2558812(R) III) Sri S.Rambabu, M/s. Kranti Enterprises, D.No. 26-26-32/2, Harbor approach road, JCB = 2 Nos. Ph. No. 0891 2529343
11	a) District Collector, Ph. No. 0891 2563257 (O), 2526999 (R), 2754106(F), Cell No. 9848169510 b) Asst. Collector, (RDO), Ph. No. 2565252 (O) 2562565 (R), Cell No. 98490-53330 c) MRO/Ph. NO. 0891 2552630, d) ZP In-charge, Ph. No. 0891 2566516(O)

1.	<u>PENDURTI-8978280917</u>
2.	a) Rly. Hospital, Marripalem Distance: 4 Kms. b) Privet Health Center, PDT.10 beded, Distant – 2 Kms. Ph.No 0891 274489 c) Divya Hospital, 40 beded, Ambulance, Distance 4 Kms, Ph.No 0891 2739155 Cell no. 9849023447
3	
4	a) Police Station/PDT, Ph.No 0891 2764233. Cell No. 9440796039 b) GRP/VZM, Ph. No. 08922 223743. Cell No. 9440627566
5	a) ARMY/VSKP. Ph. No. 0891 2754480, 2569816 b) MES/VSKP, Ph. No. 0891 2704823. c) Command plan officer: , Ph. No. 0891 2578000 Extn. 2694 d) NOIOC (AP), Ph. No. 0891 2577269, 2760438, 2578000.
6	<p>Pendurti RS</p>

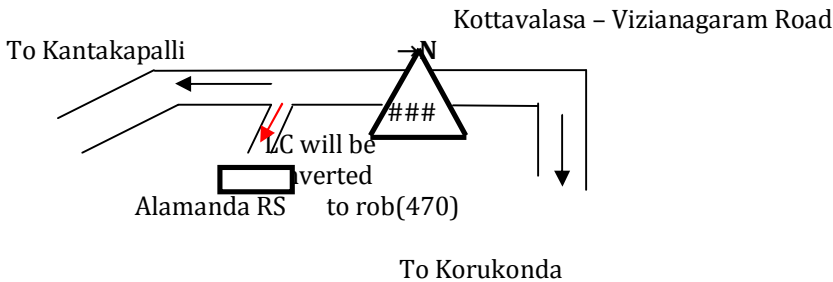
	Visakhapatnam – Kottavalasa Road
7	a) Visakhapatnam Regional Fire officer:Ph.No: 0891-2706585 b) Divisional Fire Officer/Visakhapatnam: 0891-568905 c) Kancharapalem Area,Visakhapatnam, Ph. No. 0891 101, 2756585, 2558470.
	d) BHPV Area,Visakhapatnam,Ph No. 0891 2517621 e) Marripalem Area,Visakhapatnam,Ph. No. 0891 2558470 f) KTV Fire Station, Ph. No. 0891- 2558470. 08966-273101 ; Control room: 101
8	a) Sleeper Factory/PDT,Ph. No. 0891-2764287.
9	a) RTC/VSKP, Depot Manager, Ph. No. 0891 2545962, 2530862 Mee Seva Counter/Dwaraka Bus stand complex: 2746400 PRO: 2746401, Enquiry: 2545400, Visakha Depot: 2551424 Simhachalam Depot: 2520346
10	I) JCB-2 Nos.and Crane-1 No. are available at a) NVS Raju/VSKP Cell No. 94401-43342 b) K.S.Babu/VSKP,Cell No. 98660-16776 c) N.K.Raju/VSKP,Cell No. 98486-57053. d) B.R.G.Raju/VSKP,Cell No. 98481-92923. II) Ch. Mangapathi, Sri Surya Enterprises, FCI colony, Maddipalem JCM = 2 Nos., Proclaim-60 = 1 No. Ph. No. 0891 2559365(O), 2558812(R) III) Sri S.Rambabu, M/s. Kranti Enterprises, D.No. 26-26-32/2, Harbor approach road, JCB = 2 Nos., Ph. No. 0891 2529343
11	a) District Collector, ,Ph. No. 0891 2754106(F), 2563257 (O), 2526999 (R), Cell No. 9848169510 b) Asst. Collector, (RDO),Ph. No. 2565252 (O) 2562565 (R), Cell No. 98490-53330 c) MRO/PDT,Ph. NO. 0891 2764244 d) ZP In-charge,Ph. No. 0891 2566516(O)

1.	<u>KOTTAVALASA Jn.-8978081962</u>
2.	a) Public Health Center/KTV,6 bedded, Ph. No. 08966-274827 Distance: 0.5 Kms. b) Rama Nursing Home/KTV, 12 bedded, Ambulance Distant – 0.5 Kms, Ph.No 08966-273328 c) Neeharika Hospital/KTV, 18 bedded, X- ray & Lab,, Ph.No:08966-273272 Distant-0.7 Kms d) Krishna Hospital , Ph.No: 08966-274789 e) Dr.Tennadi Subba Rao, Ph.No. 08966-273350
3	
4	a) Police Station/KTV, Ph.No 08966-273333 (O), 275248 (R), Cell No. 09440795933 b) GRP/VZM,Ph. No. 08922 223743. Cell No. 9440627566
5	a) ARMY/VSKP, Ph. No. 0891 2754480, 2569816 b) MES/VSKP, Ph. No. 0891 2704823. c) Command plan officer: Ph. No. 0891 2578000 Extn. 2694 d) NOIOC (AP), Ph. No. 0891 2577269, 2760438, 2578000.
6	

	Visakhapatnam – Araku Road
7	Kottavalasa Fire Station, Ph. No. 0891 2558470, 08966 273106, 273101 Control room: 101
8	Sathya sai Voluntary service, Sai nagar
9	a) Taxi Service/KTV, Ph.No 08966-273787(O), Cell.no: 9885045998 b) Lorry Service.Cell no: 9949603633
10	I) JCB-2 Nos.and Crane-1 No. are available at a) NVS Raju/VSKP Cell No. 94401-43342, b) K.S.Babu/VSKP, Cell No. 98660-16776 c) N.K.Raju/VSKP, Cell No. 98486-57053 d) B.R.G.Raju/VSKP, Cell No. 98481-92923 II) Ch. Mangapathi, Sri Surya Enterprises, FCI colony, Maddipalem JCM = 2 Nos., Proclain-60 = 1 No. Ph. No. 0891 2559365(O), 2558812(R) III) Sri S.Rambabu, M/s. Kranti Enterprises, D.No. 26-26-32/2, Harbor approach road, JCB = 2 Nos. Ph. No. 0891 2529343
11	a) District Collector, Ph. No. 08922-226720,226777 (R) Cell No. 09440794941, Control room: 08922 226720. b) Asst. Collector, (RDO),Ph. No. 08922-226888. c) MRO/KTV, Ph. NO. 08966-273278. d) ZP In-charge, Ph. No. 9440355344. e) MDO/KTV, Phone no.08966-273258.

1.	<u>KANTAKAPALLI-08978081961</u>
2.	a) Public Health Center/KTV,6 bedded, Ph. No. 08966-274827 Distance: 0.5 Kms. b) Rama Nursing Home/KTV ,12 bedded, Ambulance,Distant – 0.5 Kms, Ph.No 08966-273328. c) Neeharika Hospital/KTV, 18 bedded, X- ray & Lab, Ph.No:08966-273272. Distant-0.7 Kms d) Krishna Hospital , Ph.No: 08966-274789. e) Dr.Tennadi Subba Rao, Ph.No. 08966-273350.
3	NIL
4	a) Police Station/KTV,Ph.No 08966-273333 (O), 275248 (R), Cell No. 09440795933. b) GRP/VZM ,Ph. No. 08922 223743, Cell No. 9440627566.
5	NIL
6	

	Kottavalasa – Vizianagaram Road
7	Kottavalasa Fire Station, Ph. No. 0891 2558470, 08966 273106, 273101, Control room: 101
8	NIL
9	NIL
10	NIL
11	a) District Collector, Ph. No. 08922-226720, 226777 (R), Cell No. 09440794941 Control room: 08922 226720. b) Asst. Collector, (RDO), Ph. No. 08922-226888. c) MRO/KTV, Ph. No. 08966-273278. d) ZP In-charge Ph. No. 9440355344. e) MDO/KTV, Phone no. 08966-273258.

1.	<u>ALAMANDA-8978081960</u>
2.	a) Public Health Center/ALM, 10 bedded, Lab, Ph. No. 08966-271809., Distance: 5 Kms.
3	
4	a) Police Station/Jami, Ph.no 08922-278933., Control room: 08922 276163 b) GRP/VZM, Ph. No. 08922 223743, Cell No. 9440627566
5	
6	 <p>Kottavalasa – Vizianagaram Road</p> <p>To Kantakapalli</p> <p>LC will be diverted to rob(470)</p> <p>Alamanda RS</p> <p>To Korukonda</p>
7	Kottavalasa Fire Station, Ph. No. 0891 2558470, 08966 273106, 273101, Control room: 101
8	
9	RTC depot Manager/VZM, Ph. No. 08922-226708
10	
11	a) District Collector, Ph. No. 08922-226720, 226777 (R), Cell No. 09440794941 Control room: 08922 226720. b) Asst. Collector, (RDO), Ph. No. 08922-226888. c) MRO/Jami, Ph.No:08922-278936 (O), Cell No. 09440122515

1.	<u>KORUKONDA-8978081959</u>
2.	a) Sinik school/Jami., .Phone no: 08922-246128. b) Railway Health Center/VZM., Ph.no: 84278(Rly)
3	
4	a) Police Station/Jami, Ph.no 08922-278933., Control room: 08922 276163 b) GRP/VZM, Ph. No. 08922 223743, Cell No. 9440627566
5	

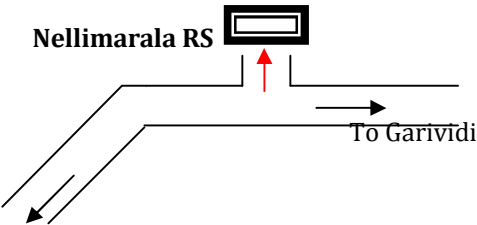
6	<p style="text-align: center;">Kottavalasa – Vizianagaram Road</p>
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7	a) Kottavalasa Fire Station, Ph. No. 0891 2558470, 08966 273106, 273101. ,Conrtor room: 101, b) VZM/Fire Station. ,Ph. No. 08922-226101.
8	a) Lions Club/VZM. ,Ph.no:08922-252238,252232. b) Mother Teresa Ashram/VZM, Ph.no: 08922-266027 c) Sugar Factory/KUK, Ph.no:08922-246142. d) Vijaya Ram Raju Sugar Factory, Ph.no:08922-246142
9	a) RTC. /VZM, Ph.no: 08922-226708 b) RTC Depot. Manager/VZM, Ph.no:08922-233089,230403
10	
11	a) District Collector,Ph. No. 08922-226720,226777 (R), Cell No. 09440794941 Control room: 08922 226720 b) Asst. Collector, (RDO), Ph. No. 08922-226888 c) MRO/Jami, Ph.No:08922-278936 (O), Cell-09440122515

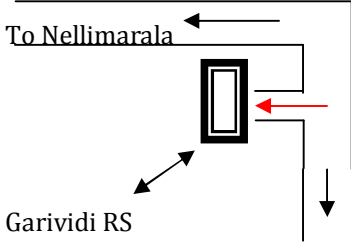
1.	<u>VIZIANAGARAM Jn.-8978081958</u>
2.	a) Govt. Hospital/ Vizianagaram , Ph.no: 08922-276416,272124, 272401 b) Railway Hospital/VZM, Ph.no: 84278(Rly)
3	
4	a) Police Station/VZM (1-Town), Ph.no 08922-226444. Cell No. 09440795521 Contarol room: Ph. No. 08922 276163. b) GRP/ Vizianagaram , Ph. No. 08922 223743. Cell No. 9440627566
5	a) Vth Battalian, Chintalavalsa. ,Ph.no: 08922-226380. b) Police Training School/VZM, Ph.no: 08922-274226.
6	<p>From VZM Ring Road to Natavalasa Jn.(NH-5) – 15 Kms.</p>

7	Vizianagaram Fire Station, Ph. No. 08922-226101.
8	a) Lions Club/ Vizianagaram (VZM), Ph.no:08922-252238,252232. b) Mother Teresa Ashram/VZM, Ph.no: 08922-266027. c) Rotary Club, Ph. no: 08922-266027.

	d) IMA/VZM, Ph.no:08922-225513. e) East Cost Jute Mills, Ph.no:08922-226726.
9	a) RTC Depot./ Vizianagram, Ph.no: 08922-226708 b) RTC Depot. Manager/VZM, Ph.no:08922-233089,230403 c) RTC Enquiry/VZM, Ph.no:08922-225333. , d) Ganesh Transport, Ph.no: 08922-225084.
10	Sri. M Srinivasa Rao/VZM, JCB- 1 No. Cell no. 98481-45007.
11	a) District Collector/ Vizianagram , Ph. No. 08922-226720,226777 (R) Cell No. 09440794941. ,Control room: 08922 226720 b) Asst. Collector, (RDO), Ph. No. 08922-226888. c) MRO/ Vizianagram, Ph.No:08922-226883 (O), 223783 (R)

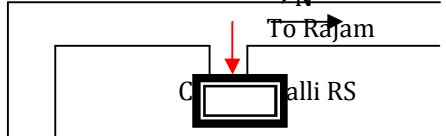
1.	<u>NELLIMARALA-8978081957</u>
2.	a) Govt. Hospital/NML Town, Ph.no: 08922-2443000,244260 b) Railway Hospital/VZM, Ph.no: 84278(Rly) c) Srinivasa Nursing Home, Ph.no: 08922-244213
3	
4	a) Police Station/Gurla , Ph.no 08922-247729. , b) GRP/CHE, Ph. No. 08942 286228
5	a) Vth Battalian, Chintalavalsa, Ph.no: 08922-226380. b) Police Training School/VZM, Ph.no: 08922-274226 c) RPF/ Vizianagram, Ph.no: 08922-223743.
6	<p style="text-align: center;">→ N</p> <p>Vizianagram – Rajam Road</p> <p style="text-align: center;">Nellimarala RS </p> <p style="text-align: center;">To Vizianagram</p>
7	Vizianagram /Fire Station,Ph. No. 08922-226101.
8	a) Lions Club/ Vizianagram,Ph.no:08922-252238,252232, b) Mother Teresa Ashram/VZM,Ph.no: 08922-266027. c) Rotary Club/ Vizianagram,Ph. no: 08922-266027. d) IMA/ Vizianagram,Ph.no:08922-225513. e) Nellimarla jute Mills,Ph.no:08922-244246.
9	a) RTC Depot. / Vizianagram, Ph.no: 08922-226708. b) RTC Depot. Manager/ Vizianagram Ph.no:08922-233089,230403. c) RTC Enquiry/ Vizianagram,Ph.no:08922-225333. d) Ganesh Transport/ Vizianagram. ,Ph.no: 08922-225084
10	Sri. M Srinivasa Rao/ Vizianagram JCB- 1 No.,Cell no. 98481-45007.
11	a) District Collector, Ph. No. 08922-226720,226777 (R) Cell No. 09440794941,Control room: 08922 226720. b) Asst. Collector, (RDO),Ph. No. 08922-226888. c) MRO/Gurla, Ph.No:08922-247724

1.	<u>GARIVIDI-8978081956</u>
2.	a) Govt. Hospital/NML Town, Ph.no: 08922-2443000,244260 b) Railway Hospital/VZM, Ph.no: 84278(Rly) , c) Srinivasa Nursing Home, Ph.no: 08922-244213
3	

4	a) Police Station/GVI, Ph. No. 08952-280233, Control room: 08922-276163 b) GRP/CHE, Ph. No. 08942- 286228, Cell No. 09440627567
5	a) Vth Battalion, Chintalavalsa, Ph.no: 08922-226380 b) Police Training School/VZM, Ph.no: 08922-274226. ,c) RPF/VZM - Ph.no: 08922-223743.
6	Vizianagram – Rajam Road → N  To Garividi Town

7	Chipurupalli /Fire Station, Ph. No. 08952-283017
8	a) Voluntary /Social Service/GVI. Ph.no: 08952-282023 b) Service Organization/ GVI., Ph.no: 08952- 282115
9	a) RTC Depot. / Vizianagaram,Ph.no: 08922-226708 b) RTC Depot. Manager/VZM,, Ph.no:08922-233089,230403 c) RTC Enquiry/VZM -Ph.no:08922-225333. ,d) Ganesh Transport-Ph.no: 08922-225084
10	Sri. M Srinivasa Rao/ Vizianagaram, JCB- 1 No., Cell no. 98481-45007
11	a) District Collector, Ph. No. 08922-226720(Control Room),226777 (R) Cell No. 09440794941, Control room: 08922-226720 b) Asst. Collector, (RDO),Ph. No. 08922-226888. c) MRO/GVI, Ph.no: 08952-282118, 281348 (O), 234986 (R)

1.	CHIPURUPALLI-8978081955
2.	a) Govt. Hospital/CPP ,30 beded, X- ray, Lab,Ph.no: 08952-283037 b) Vijaya lakshmi Nursing Home ,10 beded, Lab,Ph.no: 08952- 283256,283659. c) Tulsi Nursing Home,6 beded, Lab,Ph.no:08952-280301. d) Railway Hospital/ Vizianagaram Ph.no: 84278(Rly)
3	
4	a) Police Station/CPP,Ph.no 08952-283233, Control room: 08922-276163 b) GRP/CHE,Ph. No. 08942 286228
5	a) Vth Battalion, Chintalavalsa, Ph.no: 08922-226380 b) Police Training School/ VZM,Ph.no: 08922-274226 c) RPF/ Vizianagaram , Ph.no: 08922-223743.

6	Vizianagram – Rajam Road → N To Rajam  Chipurupalli RS
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	To Garividi Town
7	CPP/Fire Station, Ph. No. 08952-283017
8	
9	a) RTC Depot. / Vizianagaram ,Ph.no: 08922-226708 b) RTC Depot. Manager/VZM, Ph.no:08922-233089,230403 c) RTC Enquiry/ Vizianagaram, Ph.no:08922-225333. ,d) RTC/CPP, Ph. No. 08952-283132
10	Sri. M Srinivasa Rao/VZM, JCB- 1 No. ,Cell no. 98481-45007.
11	a) District Collector, Ph.No. 08922-226720(Conto room) ,226777 (R) Cell No. 09440794941, Asst. Collector, (RDO)- Ph. No. 08922-226888 c) MRO/CPP - Ph.No:08952-283052.

1.	<u>SIGADAM-8978081954</u>
2.	a) Govt. Community Health Centre, Rajam, 60 beded, X-ray, Lab. Ph.no: 08941 251255. b) Radha krishna Nursing Home, 15 beded, Ph.no: 08941-1485,251302. c) Railway Hospital/ Vizianagaram, Ph.no: 84278(Rly)
3	
4	a) Police Station/ G-Sigadam , Ph.no 08941 257133, 255133. Control room:Ph.No: 08942-222440 . b) GRP/Srikakulam, Ph. No. 08942 286228, Cell No. 09440627567
5	Nil
6	<p>Vizianagaram – Rajam road → N</p>

7	b) Chipurupalli/Fire Station, Ph. No. 08952-283017
8	
9	a) RTC-Depot. /Srikakulam, Ph.no: 08942-223206,223252 b) RTC/Sigadam - Ph. No. 08941-223252
10	a) Sri. Sarveswara Rao, Patha Patnam Ph.no: 08494- 256153(R) Cell no: 9440631099, Proclain-200: - 4 nos, Trailor- 1no., Road Roller- 1 no. b) Seetharama Welding Shop, Tekkali. Sri. K. Bhujanga Rao Tekkali, Cell.no: 9440106426 Lodder –1 no, Prclainer –2 no, c) Sri. G. Srinivasa Reddy, Amadalavalasa, Cell no: 9440195454. JCB- 1no., Tractor-4 nos. d) Sri. Murali, Reddipetta/ CHE. Cell no: 9848112125, JCB: 2 nos
11	a) District Collector/Srikakulam, Ph. No. 08942-222555 (O), 222698 (R). Control room: Ph.No: 08922-222555, 222698. b) Asst. Collector/CHE, (RDO), Ph. No. 08942-222479. c) MRO/G-Sigadam, Cell No. 09440828324, Ph.No:08941-255129, 226127 (O).

1.	<u>PONDURU-8978081953</u>
2.	a) Govt. Hospital/PDU, Ph.no: 08941-242526 b) Govt. Community Health Centre, Rajam, 60 beded, X-ray, Lab. Ph.no: 08941 251255.

	c) Railway Hospital/VZM, Ph.no: 84278(Rly)
3	
4	a) Police Station/PDU, Ph.no 08941 252433, 242433, Control room: Ph.No: 08942-222440 b) GRP/CHE , Ph. No. 08942 286228, Cell No. 09440627567
5	

6	<p>Srikakulam – Rajam Road</p> <p>To Rajam</p> <p>→ N</p> <p>Ponduru RS</p> <p>Chilakapalem Jn</p> <p>To Visakhapatnam</p> <p>NH-5</p> <p>To Srikakulam</p>
7	Amadalavalasa/Fire Station, Ph. No. 08942-286401
8	Manasa Industries, Ph. No. 08941-242447, 242521
9	RTC-Depot. /Srikakulam, Ph.no: 08942-223206,223252
10	<p>a) Sri. Sarveswara Rao, Patha Patnam Ph.no: 08494- 256153(R), Cell no: 9440631099</p> <p>Proclain-200: - 4 nos, Trailor- 1no., Road Roller- 1 no</p> <p>b) Seetharama Welding Shop, Tekkali., Sri. K. Bhujanga Rao Tekkali, Cell.no: 9440106426</p> <p>Lodder –1 no, Prclainer –2 no, c) Sri. G. Srinivasa Reddy, Amadalavalasa, Cell no: 9440195454</p> <p>JCB- 1, Tractor-4</p> <p>d) Sri. Murali, Reddipetta/ CHE, Cell no: 9848112125, JCB: 2 nos</p>
11	<p>a) District Collector/Srikakulam ,Ph. No. 08942-222555 (O), 222698 (R) ,Control room: Ph.No: 08922-222555, 222698, b) Asst. Collector/CHE, (RDO), Ph. No. 08942-222479</p> <p>c) MRO/Ponduru, Ph.no:08941-242449</p>

1.	<u>DUSI-8978081952</u>
2.	<p>a) Distric Hospital, Amadhalavalsa, . 250 beded, Ambulance, X-ray, Lab ,Ph.no: 08942-279161</p> <p>b) Sathyanarayana Nursing Home., 20 beded, Ambulance, X-ray, Lab, Ph.no:08942 286436</p> <p>Cell no: 9848074148</p>
3	
4	<p>a) Police Station/Amadalavalasa, Ph.no: 08942 222097, 286228</p> <p>Control room: Ph.no: 08942-222440. ,b) GRP/CHE, Ph. 08942 286228, 09440627567</p>

5	
6	<p>Srikakulam – Palakonda Road</p> <p>→ N</p> <p>To Palakonda</p> <p>Dusi RS</p> <p>Ragolu Jn</p>

	To Ranastalam NH-5 To Harichandrapur Gate Srikakulam Town
7	a) Amadalavalasa/Fire Station, Ph. No. 08942-286401 ,Control room: Ph.no: 08942-222440
8	
9	RTC-Depot./Srikakulam, Ph.no: 08942-223206,223252
10	a) Sri Sarveswara Rao, Patha Patnam ,Ph.no: 08494- 256153(R), Cell no: 9440631099 Proclain-200:- 4 nos, Trailor- 1no., Road Roller- 1 no. b) Seetharama Welding Shop, Tekkali.,Sri. K. Bhujanga Rao Tekkali, Cell.no: 9440106426 Lodder –1 no, Prclainer –2 no, c) Sri. G. Srinivasa Reddy, Amadalavalasa, Cell no: 9440195454. JCB- 1no., Tractor-4nos. d) Sri. Murali, Reddipetta/ Srikakulam, Cell no: 9848112125, JCB 2 nos
11	a) District Collector/Srikakulam, Ph. No. 08942-222555 (O), 222698 (R) Control room: Ph.no: 08922-222555, 222698 b) Asst. Collector/Srikakulam, (RDO), Ph. No. 08942-222479 c) MRO/Amadalavalasa, Cell No. 09440357230, Ph.no:08942-222518, 286318, 227149 (O),

1.	<u>SRIKAKULAM ROAD-8978081951</u>
2.	a) Govt. Hospital/Srikakulam, Ph.no: 08942 279093, 222158, 286222 b) Privet Nursing Home's Ph.no: 08942- 286307,286436, 286262, 286555
3	
4	a) Police Station/ Amadalavalasa, Ph.no: 08942 222097, 286228. Control room:Ph.no: 08942-222440. b) GRP/CHE,Ph. No. 08942 286228. Cell No. 09440627567.
5	NIL
6	<p>Srikakulam – Palakonda Road</p> <p>To Palakonda →N</p> <p>To Ranastalam NH-5 To Harichandrapuram Gate</p> <p>Srikakulam road RS</p> <p>Srikakulam Town</p>
7	Amadalavalasa/Fire Station, Ph. No. 08942 286401. Control room: 08942 222440
8	a) Rotary Club - Ph.No: 08942 225605 b) Lions Club - Ph. No: 08942 222354,223036. ,Cell no; 9848111825 c) Red cross Socity - Ph.No: 08942 223234 d) Scouts & Guids - Ph.No:08942 222028 e) GMR Sugar factory/Takli – 08941-237535
9	a) RTC-Depot/CHE - 08942-223252, 223206. b) Privet Transport - Ph.no: 08942 222489,222339, 223240
10	a) Sri Sarveswara Rao, Patha Patnam Ph.no: 08494- 256153(R), Cell no: 9440631099 Proclain-200: 4 nos, Road Roller & Trailor-1 no. b) Seetharama Welding Shop, Tekkali.Sri. K. Bhujanga Rao Tekkali, Cell.no: 9440106426, Lodder –1 no, Prclainer –2 nos. c) Sri. G. Srinivasa Reddy, Amadalavalasa, Cell no: 9440195454. JCB- 1no, Tractor-4nos.

	d) Sri. Murali, Reddipetta/ Srikakulam, JCB: 2 nos, Cell no: 9848112125.
11	a) District Collector/Srikakulam, Ph. No. 08942-222555 (O), 222698 (R)(Control) b) Asst. Collector/Srikakulam, (RDO), Ph. No. 08942-222479 c) MRO/Amadalavalasa, Cell No. 09440357230. Ph.no:08942-222518, 286318, 227149 (O),

1.	<u>URLAM-8978081950</u>
2.	a) District Hospital/Srikakulam,250 bedded, Ambulance, X-ray, and Lab. Ph. No. 08942 279161 b) Primary Health Central, ULM,Distance: 3 Kms.
3	
4	a) Police Station/Narasannapeta, Ph.no: 08942 277033, 276777. Control room: Ph.no: 08942-222440 b) GRP/CHE,Ph. No. 08942 286228
5	
6	<p>Srikakulam – Narasannapeta Road</p> <p>Urlam RS → N</p> <p>Komarti Junction</p> <p>To Srikakulam Town NH-5 To Narasannapeta</p> <p>Komarti Junction to Urlam Rly. Station 7.7 Kms.</p>
7	Narasannapeta Fire Station, Ph. No. 08942 276777.
8	
9	a) RTC-Depot. /ULM, Depot Manager, Ph.No: 08942 222834. b) Privet Transport SRMT, Ph. No: 08942 222489
10	a) Sri Sarveswara Rao, Patha Patnam Ph.no: 08494 256153(R). Cell no: 9440631099 Proclain-200: - 4 nos, Trailor- 1 no., Road Roller- 1 no. b) Seetharama Welding Shop, Tekkali. ,Sri. K. Bhujanga Rao Tekkali Cell.no: 9440106426. Lodder –1 no, Prclainer – 2 no, c) Sri. G. Srinivasa Reddy, Amadalavalasa, Cell no: 9440195454., JCB- 1 No, Tractor- 4 Nos d) Sri. Murali, Reddipetta/ Srikakulam, Cell no: 9848112125, JCB- 2 nos
11	a) District Collector , Ph. No. 08942-222555 (O), 222698 (R) Control room: 08922-222555, 222698 b) Asst. Collector/CHE, (RDO), Ph. No. 08942-222479 b) MRO/Narasannapeta, Ph. No. 08942 277042

1.	<u>TILARU-8978081949</u>
2.	a) Public Health Centre, TIU, Distance: 0.5 Kms. b) Govt. Hospital, Narasannapeta, 50 bedded, X-ray, Lab. Ph. No. 08942 277030 Distance: 7 Kms. c) Bharat Hospital, Narasannapeta ,20 bedded, Ambulance, X-ray, Blood Bank Ph. No. 08942 277455, 276055, 277661. Distance: 7 Kms.
3	
4	a) Police Station/Jalumuru , Ph.no: 08942 275233. ,Control room:Ph.No: 08942-222440

	b) GRP/CHE, Ph. No. 08942 286228
5	
6	<p>Narasannapeta – Kottapeta Jn. road</p> <p style="text-align: center;">N ↑</p> <p>To Kottapeta Jn. NH - 5 To Narasannapeta</p> <p>Tilaru cabin gate</p> <p>###</p> <p>Tilaru RS</p> <p>Jammu Junction to Tilaru Rly. Station 6.2 Kms.</p>
7	Narsannapeta Fire Station, Ph. No. 08942 276777
8	<p>a) Red Cross, Ph. No. 08942-223234.</p> <p>b) Scouts & Guide, Ph. No. 08942-222028.</p>
9	<p>a) RTC-Depot. /TIU. Depot Manager, Ph.No: 08942-2322834.</p> <p>b) Privet Transport, SRMT,Ph. No: 08942 2322489</p>
10	<p>a) Sri Sarveswara Rao, Patha Patnam Ph.no: 08494- 256153(R). Cell no: 9440631099</p> <p>Proclain-200: - 4 nos, Trailor- 1no., Road Roller- 1 no.</p> <p>b) Seetharama Welding Shop, Tekkali.Sri. K. Bhujanga Rao Tekkali, Cell.no: 9440106426</p> <p>Lodder –1 no, Proclainer –2 no,</p> <p>c) Sri. G. Srinivasa Reddy, Amadalavalasa, Cell no: 9440195454. JCB- 1, Tractor-4</p> <p>d) Sri. Murali, Reddipetta/ Srikakulam, Cell no: 9848112125, JCB: 2 nos.</p>
11	<p>a) District Collector ,Ph. No. 08942-222555 (O), 222698 (R), Control room: Ph.no: 08922-222555, 222698</p> <p>b) Asst. Collector/CHE, (RDO), Ph. No. 08942-222479.</p> <p>c) MRO/Jalumuriu. ,Ph. No. 08942 275229</p>

1.	<u>KOTABOMMALI-8978081948</u>
2.	<p>a) Govt. Hospital/KBM, Ph. No. 08942 244262</p> <p>b) Sathy Sai Nurshing Home, Tikali, 15 bedded, Lab, X-ray, Ph. No. 08942 244444.</p>
3	
4	<p>a) Police Station/Santabommali ,Ph.no: 08942 238833,Control room:Ph.no 08942-222440</p> <p>b) GRP/PSA,Ph. No. 08945 241013,Cell No. 09440627567</p>
5	
6	<p>Harichandrapuram - Tekkali Jn. Road</p> <p style="text-align: center;">→ N</p> <p>To Harichandrapuram NH-5 To Tekkali Junction</p> <p>Kottapeta Junction</p>



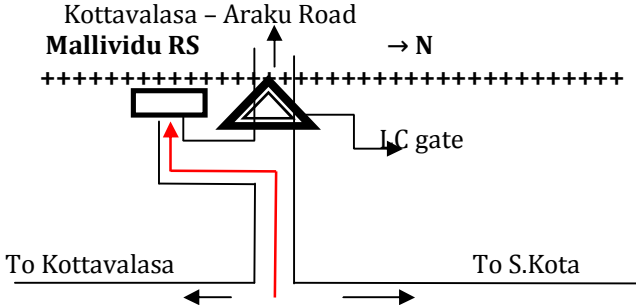
	Kotabommali RS Kottapeta junction to Kotabommali RS 10.5 Kms.
7	Kotabommali Fire Station, Ph. No. 08942 238659.
8	Youth Action Rural development/Palaki
9	a) RTC-Depot. /Tikal, Depot Manager, Ph.No: 08942-244221. b) Privet Transport, Navatha, Ph.no: 08942 244078
10	a) Sri Sarveswara Rao, Patha Patnam Ph.no: 08494- 256153(R), Cell no: 9440631099 Proclain (200): - 4 nos, Trailor- 1no., Road Roller- 1 no. b) Seetharama Welding Shop, Tekkali. Sri. K. Bhujanga Rao Tekkali, Cell.no: 9440106426 Lodder -1 no, Prclainer -2 no, c) Sri. G. Srinivasa Reddy, Amadalavalasa, Cell no: 9440195454. JCB- 1, Tractor-4 d) Sri. Murali, Reddipetta/ Srikakulam, Cell no: 9848112125, JCB 2 nos
11	a) District Collector , Ph. No. 08942-222555 (O), 222698 (R) Control room: Ph.no 08922-222555, 222698 b) Asst. Collector/CHE, (RDO), Ph. No. 08942-222479 c) MRO/Santabommalli, Ph. No. 08942 238641

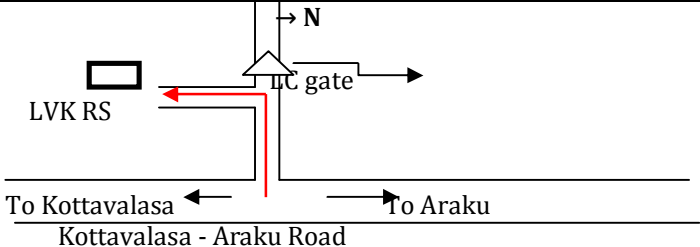
1.	<u>NAUPADA Jn.-8978081947</u>
2.	a) Area Hospital, Tikali, 100 bedded, Ambulance, X-ray, Blood Bank, Distance: 7 Kms. Ph. No. 08945 244262. b) Sathy Sai Nursing Home, Tikali, 15 bedded, Lab, X-ray, Distance: 7Kms. Ph. No. 08942 244444.
3	
4	a) Police Station/Galli Naupada, Ph.no: 08945 244233 Control room: Ph.no: 08942-222440 b) GRP/PSA, Ph. No. 08945 241013, Cell No. 09440627567
5	
6	<p>Kottapeta Jn. – Palasa Road → N</p> <p>Tekkali Jn. - Naupada RS 9 Kms.</p>
7	Tekkali Fire Station, Ph. No. 08945-244277 (O), 238403 (R),
8	
9	a) RTC-Depot./NWP, Depot Manager,Ph.No: 08945-244262.

	b) Private Transport, Navatha, Ph.no: 08942 244078
10	a) Sri Sarveswara Rao, Patha Patnam Ph.no: 08494- 256153(R), Cell no: 9440631099 Proclain-200:- 4 nos, Trailor- 1no., Road Roller- 1 no. b) Seetharama Welding Shop, Tekkali. Sri. K. Bhujanga Rao Tekkali Cell.no: 9440106426, Lodder –1 no, Prclainer –2 no, c) Sri. G. Srinivasa Reddy, Amadalavalasa, Cell no: 9440195454, JCB- 1, Tractor-4 d) Sri. Murali, Reddipetta/ Srikakulam, Cell no: 9848112125.JCB 2 nos
11	a) District Collector, Ph. No. 08942-222555 (O), 222698 (R) Control room: Ph.no: 08922-222555, 222698 b) Asst. Collector/CHE, (RDO), Ph. No. 08942-222479 c) MRO/Tekkali, Ph. No. 08945 244235

1.	<u>PUNDI-8978081946</u>
2.	a) Govt. Hospital/ Govindapuram, Ph. No. 08945 247666 b) Venkateswara Nursing Home, 30 bedded, Ambulance, X-ray, and Lab. Distance: 1Kms. Ph. No. 08945 247666. c) Kodanda Rao Hospital, Ph. No. 08945 247655
3	
4	a) Police Station/ Vajrapukotturu, Ph.no: 08945 237733. Control room: Ph.No: 08942 222440, b) GRP/PSA, Ph. No. 08945 241013. Cell No. 09440627567
5	
6	<p>Tekkali Jn. – Palasa Road → N</p> <p>Bendi Jn. - Pundi RS 6 Kms. Tekkali Jn. – Pundi RS 28 Kms.</p>
7	Kasibuggi Fire Station, Ph. No. 08945-241101
8	
9	RTC-Depot. /Takali, Depot Manager, Cell No. 9849903794
10	a) Sri Sarveswara Rao, Patha Patnam Ph.no: 08494- 256153(R), Cell no: 9440631099 Proclain-200: - 4 nos, Trailor- 1no., Road Roller- 1 no b) Seetharama Welding Shop, Tekkali. Sri. K. Bhujanga Rao Tekkali, Cell.no: 9440106426 Lodder –1 no, Prclainer –2 no, c) Sri. G. Srinivasa Reddy, Amadalavalasa, Cell no: 9440195454. JCB- 1, Tractor-4 d) Sri. Murali, Reddipetta/ Srikakulam, Cell no: 9848112125, JCB 2 nos
11	a) District Collector, Ph. No. 08942-222555 (O), 222698 (R). Control room: Ph.No: 08922-222555, 222698. b) Asst. Collector/CHE, (RDO), Ph. No. 08942-222479. b) MRO/Vajrapukottur, Ph. No. 08945-237744.

1.	<u>MALLIVIDU-8978081979</u>
2.	a) Public Health Cente/KTV, 6 bedded, Distance: 12 Kms. Ph. No. 08966 274827

	b) Niharika Hospital/KTV, 18 bedded. Ph. No. 08966 273272. , c) Rama Nursing Home/KTV, 12 bedded. ,Ph. No. 08966 273328. d) Community Health Centre, S.Kota, 50 bedded, Ph. No. 08922 275352
3	
4	a) Police Station/ L.Kota, Ph.no: 08966- 279633 (O), 277134 (R). b) GRP/VZM, Ph. No. 08922- 223743,08922-24-3218.Cell No. 09440627566.
5	
6	 <p>Kottavalasa - Araku Road Mallividu RS → N +++++ I.C gate To Kottavalasa To S.Kota</p>
7	Kottavalasa Fire Station;-Ph. No. 08966 273333
8	GSAL (India) Ltd. Mallividu ,Ph. No. 08966 277377.
9	RTC-Depot. /S.Kota, Depot Manager,Ph. No. 08966- 275315, 275262.
10	
11	a) District Collector, Ph. No. 08922-226720,226777 (R),Cell No. 09440794941 Control room: 08922 226720 b) Asst. Collector, (RDO),Ph. No. 08922-226888. c) MRO/L.Kota, Ph. No. 08966-279635

1.	<u>LAKHAVARAPUKOTA-8978081980</u>
2.	a) Govt. Hospital, SUP, 50 bedded, Ambulance, X-ray, Lab.Distance: 4 Kms. Ph. No. 08966 275352 b) Dr. Satya Sekhar,Ph. No. 08966 276822. c) Dr. Varalakshmi, Ph. No. 08966- 275157
3	
4	a) Police Station/ S.Kota. Ph.no: 08966 275333(O), 275248 (R), Cell No. 9440795933 b) GRP/VZM, Ph. No. 08922 -223743, 08922-24-83218. Cell No. 09440627566
5	
6	 <p>→ N I.C gate LVK RS To Kottavalasa To Araku Kottavalasa - Araku Road</p>
7	S.Kota Fire Station, Ph. No. 08966 275319
8	
9	RTC-Depot. /S.Kota, Depot Manager, Ph. No. 08966 275315, 275262
10	
11	a) District Collector, Ph. No. 08922-226720,226777 (R) ,Cell No. 09440794941 Control room: 08922 226720

	b) Asst. Collector, (RDO), Ph. No. 08922-226888, c) MRO/S.Kota, Ph. No. 08966-275243
1.	<u>SRUNGAVARAPUKOTA-8978081981</u>
2.	a) Govt. Hospital, SUP, 50 bedded, Ambulance, X-ray, Lab. Distance: 4 Kms. Ph. No. 08966 275352. b) Dr. Satya Sekhar, Ph. No. 08966 276822. c) Dr. Varalakshmi, Ph. No. 08966- 275157
3	
4	a) Police Station/ S.Kota.Ph.no: 08966 275333(O), 275248 (R), Cell No. 9440795933 b) GRP/VZM, Ph. No. 08922 -223743, 08922-24-83218. Cell No. 09440627566
5	
6	<p>→ N</p> <p>SUP Town</p> <p>SUP RS</p> <p>To Kottavalasa ← → To Araku</p> <p>Kottavalasa - Araku Road</p>
7	S.Kota Fire Station, Ph. No. 08966 275319
8	
9	RTC-Depot. /S.Kota, Depot Manager, Ph. No. 08966 275315, 275262
10	
11	a) District Collector, Ph. No. 08922-226720, 226777 (R), Cell No. 09440794941 Control room: 08922 226720. b) Asst. Collector, (RDO), Ph. No. 08922-226888. c) MRO/S.Kota, Ph. No. 08966-275243

1.	<u>BODDAVARA-8978081982</u>
2.	a) Govt. Hospital, SUP, 50 bedded, Ambulance, X-ray, Lab. Distance: 4 Kms. Ph. No. 08966 275352. b) Dr. Satya Sekhar, Ph. No. 08966 276822. c) Dr. Varalakshmi, Ph. No. 08966- 275157
3	
4	a) Police Station/ S.Kota.Ph.no: 08966 275333(O), 275248 (R), Cell No. 9440795933. b) GRP/VZM, Ph. No. 08922 -223743, 08922-24-83218 Cell No. 09440627566
5	
6	<p>Kottavalasa - Araku Road</p> <p>→ N</p> <p>Boddavara RS</p> <p>To S.Kota ← → To Araku</p>
7	S.Kota Fire Station, Ph. No. 08966 275319
8	

9	RTC-Depot. /S.Kota, Depot Manager, Ph. No. 08966 275315, 275262
10	
11	a) District Collector, Ph. No. 08922-226720,226777 (R) Cell No. 09440794941. Control room: 08922 226720 b) Asst. Collector, (RDO), Ph. No. 08922-226888. c) MRO/S.Kota, Ph. No. 08966-275243

1.	<u>SHIVLINGAPURAM- No Network</u>
2.	a) Govt. Hospital, SUP, 50 bedded, Ambulance, X-ray, Lab. Distance: 4 Kms.Ph. No. 08966 275352. b) Dr. Satya Sekhar,Ph. No. 08966 276822. c) Dr. Varalakshmi, Ph. No. 08966- 275157.
3	
4	a) Police Station/ S.Kota. Ph.no: 08966 275333(O), 275248 (R) , Cell No. 9440795933. b) GRP/VZM,, Ph. No. 08922 -223743, 08922-24-83218. Cell No. 09440627566
5	
6	<p>Kottavalasa –Araku Road</p> <p>→ N</p> <p>Shivlingapuram RS</p> <p>Footpath way 3 Kms. SLPM bus stop</p> <p>To Kottavalasa ← To Araku</p>
7	S.Kota Fire Station, Ph. No. 08966 275319
8	
9	RTC-Depot. /S.Kota, Depot Manager, Ph. No. 08966 275315, 275262
10	
11	a) District Collector, Ph. No. 08922-226720,226777 (R) Cell No. 09440794941. Control room: 08922 226720 b) Asst. Collector, (RDO), Ph. No. 08922-226888. c) MRO/S.Kota, Ph. No. 08966-275243

1.	<u>TYADA- No Network</u>
2.	a) Govt. Hospital, SUP,50 bedded, Ambulance, X-ray, Lab.Distance: 4 Kms. Ph. No. 08966 275352 b) Dr. Satya Sekhar,Ph. No. 08966 276822, c) Dr. Varalakshmi, Ph. No. 08966- 275157
3	
4	a) Police Station/ S.Kota.Ph.no: 08966 275333(O), 275248 (R)Cell No. 9440795933 b) GRP/VZM,Ph. No. 08922 -223743, 08922-24-83218. Cell No. 09440627566
5	
6	<p>Kottavalasa – Araku Road</p> <p>→ N</p> <p>To Araku</p>

	<p>Tunne No.13 Tyda RS + ++++++</p> <p>Rail Track Footpath way 500 Mtrs. Towards ARK</p> <p>To S.Kota</p> <p>(Tar road connected at Tunnel No. 13) From Tunnel to Station Building 500 mtrs. on foot</p>
7	S.Kota Fire Station, Ph. No. 08966 275319
8	
9	RTC-Depot. /S.Kota, Depot Manager, Ph. No. 08966 275315, 275262
10	
11	a) District Collector, Ph. No. 08922-226720,226777 (R) Cell No. 09440794941. Control room: 08922 226720 b) Asst. Collector, (RDO), Ph. No. 08922-226888. c) MRO/S.Kota - Ph. No. 08966-275243

1.	<u>CHIMIDIPALLI- No Network</u>
2.	a) Govt. Hospital, SUP, 50 bedded, Ambulance, X-ray, Lab.Distance: 4 Kms. Ph. No. 08966 275352. b) Dr. Satya Sekhar,Ph. No. 08966 276822. c) Dr. Varalakshmi, Ph. No. 08966- 275157.
3	
4	a) Police Station/ S.Kota. Ph.no: 08966 275333(O), 275248 (R), Cell No. 9440795933 b) GRP/VZM, Ph. No. 08922 -223743, 08922-24-83218. Cell No. 09440627566
5	
6	No Road approach
7	S.Kota Fire Station, Ph. No. 08966 275319
8	
9	RTC-Depot. /S.Kota, Depot Manager, Ph. No. 08966 275315, 275262
10	
11	a) District Collector, Ph. No. 08922-226720,226777 (R) Cell No. 09440794941 ,Control room: 08922 226720. b) Asst. Collector, (RDO), Ph. No. 08922-226888. c) MRO/S.Kota, Ph. No. 08966-275243

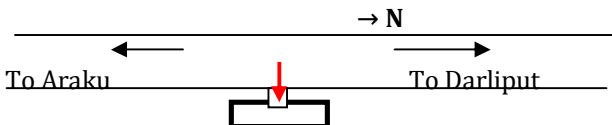
1.	<u>BORRAGUHALU- No Network</u>
2.	a) Community Health Centre, Araku, 50 bedded, Ambulance, X-ray, and Lab. Ph. No. 08936 249627. b) Govt. Hospital, Anannathagiri ,Distance: 8 Kms
3	
4	a) Police Station/ Anannathgiri, Ph.no: 08936 231933 b) GRP/VZM, Ph. No. 08922 223743, 089422-24-83218. Cell No. 09440627566
5	
6	Kottavalasa – Araku Road

	<p>To Araku Muliyaguda To S.Kota Level crossing No.20 Borraguhalu RS Borra caves</p>
7	S.Kota Fire Station, Ph. No. 08966 275319
8	
9	RTC-Depot. /S.Kota, Depot Manager, Ph. No. 08966 275315, 275262
10	
11	<p>a) District Collector, , Ph. No. 2563257 (O), 2526999 (R) Cell No. 9848169510., 0891- 2754106(F) b) Asst. Collector, (RDO), Ph. No. 0891 2565252 (O), 2562565 (R), Cell No. 98490-53330 c) MRO/Ananthigiri, Ph. NO. 08936 231930</p>
1.	<u>KARAKAVALASA- No Network</u>
2.	a) Community Health Centre, Araku, 50 bedded, Ambulance, X-ray, and Lab. Ph. No. 08936 249627. b) Govt. Hospital, Anannathagiri.
3	
4	<p>a) Police Station/ Araku vally. ,Ph.no: 08936 249633(O), 249657 (R) b) GRP/VZM, Ph. No. 08922 223743, 089422-24-83218. Cell No. 09440627566</p>
5	
6	<p>Kottavalsa – Araku Road → N To Sunkarmetta ← To Araku To SMLG Karakavalasa RS</p>
7	<p>a) Paduru Fire Station, Ph. No. 08936 250199, 250299 b) S.Kota Fire station, Ph.No. 08966 275319</p>
8	
9	RTC-Depot./S.Kota, Depot Manager, Ph. No. 08966 275315, 275262.
10	
11	<p>a) District Collector, Ph. No. 2563257 (O), 2526999 (R) Cell No. 9848169510. , 0891- 2754106(F) b) Asst. Collector, (RDO), Ph. No. 0891 2565252 (O), 2562565 (R), Cell No. 98490-53330 c) MRO/Araku Vally, Ph. NO. 08936 249630.</p>

1.	<u>SIMILIGUDA- No Network</u>
2.	a) Community Health Centre, Araku, 50 bedded, Ambulance, X-ray, and Lab. Ph. No. 08936 249627. b) Govt. Hospital, Anannathagiri
3	
4	a) Police Station/ Araku vally, Ph.no: 08936 249633(O), 249657 (R) b) GRP/VZM, Ph. No. 08922 223743, 089422-24-83218. Cell No. 09440627566
5	
6	<p>Kottavaalsa – Araku Road → N</p> <p>Similiguda RS</p>
7	a) Paduru Fire Station, Ph. No. 08936 250199, 250299. b) S.Kota Fire station. ,Ph.No. 08966 275319
8	
9	RTC-Depot. /S.Kota, Depot Manager, Ph. No. 08966 275315, 275262
10	
11	a) District Collector, Ph. No. 2563257 (O), 2526999 (R) Cell No. 9848169510.0891- 754106(F). b) Asst. Collector, (RDO), Ph. No. 0891 2565252 (O), 2562565 (R) Cell No. 98490-53330. c) MRO/Araku Vally, Ph. NO. 08936 249630

1.	<u>ARAKU-8978081984</u>
2.	a) Community Health Centre, Araku, 50 bedded, Ambulance, X-ray, and Lab. Ph. No. 08936 249627. b) Govt. Hospital, Anannathagiri
3	
4	a) Police Station/ Araku vally, Ph.no: 08936 249633(O), 249657 (R). b) GRP/VZM ,Ph. No. 08922 223743, 089422-24-83218. Cell No. 09440627566
5	
6	<p>Kottavalasa - Gorapur road → N</p> <p>Araku RS</p>

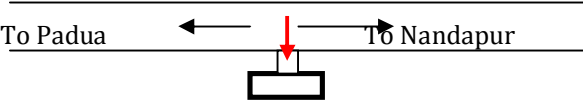
	Road passing through infront of the RS
7	a) Paduru Fire Station, Ph. No. 08936 250199, 250299 b) S.Kota Fire station, Ph.No. 08966 275319
8	
9	RTC-Depot. /S.Kota Depot Manager, Ph. No. 08966 275315, 275262
10	
11	a) District Collector, Ph. No. 2563257 (O), 2526999 (R) , Cell No. 9848169510. 0891- 2754106(F) b) Asst. Collector, (RDO), Ph. No. 0891 2565252 (O), 2562565 (R), Cell No. 98490-53330. c) MRO/Araku Vally, Ph. NO. 08936 249630

1.	<u>GORAPUR- No Network</u>
2.	a) Community Health Centre, Araku, 50 bedded, Ambulance, X-ray, and Lab. Ph. No. 08936 249627, b) Govt. Hospital, Anannathagiri .
3	
4	a) Police Station/ Araku vally, Ph.no: 08936 249633(O), 249657 (R) b) GRP/VZM , Ph. No. 08922 223743, 089422-24-83218. ,Cell No. 09440627566.
5	
6	<p style="text-align: center;">Araku – Similiguda Road</p>  <p style="text-align: center;">Gorapur RS Road passing by the side of the RS</p>
7	a) Paduru Fire Station Ph. No. 08936 250199, 250299 b) S.Kota Fire station Ph.No. 08966 275319
8	
9	RTC-Depot. /S.Kota Depot Manager,Ph. No. 08966 275315, 275262
10	a) Sri P.Nageswara Rao, Near Petrol Bunk, Paderu. , Ph. No. 08935 240371 (O), 240372 (R) b) Sravani shipping service, Dabagardens/VSKP, Ph. No. 0891 2560014 c) Sambasiva Constructions, VSKP, Ph. No. 0891 2556246 d) Trilochan Panda, H.No. 275/Hal town ship, Sunabeda, Orissa, Ph. No. 06853 220737
11	a) District Collector, , Ph. No. 2563257 (O), 2526999 (R) , Cell No. 9848169510. 0891- 2754106(F) b) Asst. Collector, (RDO), Ph. No. 0891 2565252 (O), 2562565 (R), Cell No. 98490-53330 c) MRO/Araku Vally,,Ph. NO. 08936 249630

1.	<u>DARLIPUT- No Network</u>
2.	a) Community Health Centre, Araku, 50 bedded, Ambulance, X-ray, and Lab. Ph. No. 08936 249627, b) Govt. Hospital, Anannathagiri
3	Koraput Blood bank. ,Ph. No. 06852 252101. ,60-70 units of blood available.

4	a) Chatuva/Padua Police station, Ph. No. 06868 275445 b) GRP/Koraput, Ph. No. (Rly) 6394
5	a) CRPF Control room, Kolab Nagar/ Koraput, Ph. No. 06852 259106. b) Orissa Specail Armed Police, (3 rd Battalion)/Koraput. ,Ph.No. 06852 251355.
6	<p style="text-align: center;">Araku – Similiguda road</p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p> <p style="text-align: center;"> </p>

7	Sunabeda Fire Station, Ph. No. 06852-20666, Control room: 222
8	
9	a) RTC-Depot./Jeypore, Depot Manager, Ph. No. 06854 246839 b) RTO/Koraput, Ph. No. 086852 250289 (O), 251576 (R)
10	a) Sri P.Nageswara Rao, Near Petrol Bunk, Paderu. Ph. No. 08935 240371 (O), 240372 (R). b) Trilochan Panda, H.No. 275/Hal town ship, Sunabeda, Orissa, Ph. No. 06853 220737
11	a) District Collector, Koraput, Ph. No. 06852 252266 (O), 252211 (R) b) Asst. Collector, (RDO), Ph. No. 06852-251232 (O), 251202 (R). c) MRO/Nandapur, Ph. No. 06868 273503

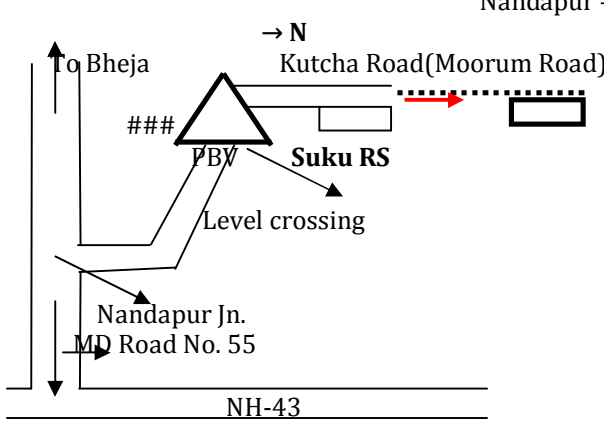
1.	<u>BHEJA- No Network</u>
2.	a) Nandapur Govt. Hospital, Padua (Orissa), 10 bedded, Ambulance, Lab.Distance: 2Kms. Ph. No. 06868 275501 b) Asha Kiran Hospital/Lantaput, Distance: 30 Kms.,Ph. No. 06868 272213, 272217 .
3	Koraput Blood bank.Ph. No. 06852 252101. 60-70 units of blood available.
4	a) Chatuva/Padua Police station, Ph. No. 06868 275445 b) GRP/Koraput, Ph. No. (Rly) 6394
5	a) CRPF Control room, Kolab Nagar/ Koraput, Ph. No. 06852 259106. b) Orissa Specail Armed Police (3 rd Battalion)/Koraput, Ph.No. 06852 251355.
6	<p>Araku – Similiguda road</p> <p style="text-align: right;">→ N</p>  <p style="text-align: center;">Bheja RS</p> <p style="text-align: center;">(Road passing by the side of the RS)</p>
7	Sunabeda Fire Station, Ph. No. 06852-20666. Control room: 222
8	
9	a) RTC-Depot. /Jeypore. Depot Manager, Ph. No. 06854 246839 b) RTO/Koraput, Ph. No. 086852 250289 (O), 251576 (R)
10	a) Sri P.Nageswara Rao, Near Petrol Bunk, Paderu.Ph. No. 08935 240371 (O), 240372 (R) b) Trilochan Panda, H.No. 275/Hal town ship, Sunabeda, Orissa, Ph. No. 06853 220737
11	a) District Collector, Koraput, Ph. No. 06852 252266 (O), 252211 (R) b) Asst. Collector, (RDO), Ph. No. 06852-251232 (O), 251202 (R) c) MRO/Nandapur, Ph. No. 06868 273503

1.	<u>MACHHAKUND ROAD- No Network</u>
2.	a) Nandapur Govt. Hospital, Padua (Orissa), 10 bedded, Ambulance, Lab. Distance: 2Kms., Ph. No. 06868 275501,b) Asha Kiran Hospital/Lantaput,Distance: 30 Kms. Ph. No. 06868 272213, 272217 ,
3	Koraput Blood bank.Ph. No. 06852 252101. ,60-70 units of blood available.
4	a) Chatuva/Padua Police station. Ph. No. 06868 275445 b) GRP/Koraput. Ph. No. (Rly) 6394

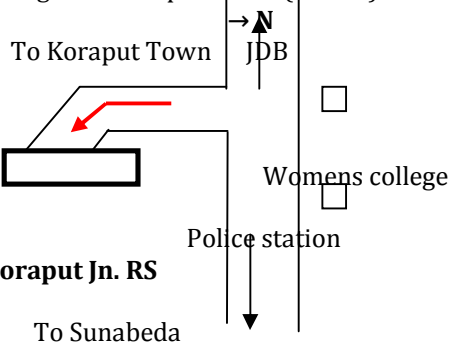
5	a) CRPF Control room, Kolab Nagar/ Koraput, Ph. No. 06852 259106. b) Orissa Specail Armed Police (3 rd Battalion)/Koraput. Ph.No. 06852 251355
6	<p>Bheja – Nandapur Road → N Machhakund Town To Bheja Machhakund Road Hikimput Jn. To Nandapur (Hikimput Junction 03 Kms.)</p>
7	Sunabeda Fire Station, Ph. No. 06852-20666. Control room: 222
8	
9	a) RTC-Depot. /Jeypore, Depot Manager,Ph. No. 06854 246839. b) RTO/Koraput, Ph. No. 086852 250289 (O), 251576 (R)
10	a) Sri P.Nageswara Rao, Near Petrol Bunk, Paderu.Ph. No. 08935 240371 (O), 240372 (R). b) Trilochan Panda, H.No. 275/Hal town ship, Sunabeda, Orissa, Ph. No. 06853 220737
11	a) District Collector, Koraput,Ph. No. 06852 252266 (O), 252211 (R). b) Asst. Collector, (RDO),Ph. No. 06852-251232 (O), 251202 (R). c) MRO/Nandapur, Ph. No. 06868 273503.

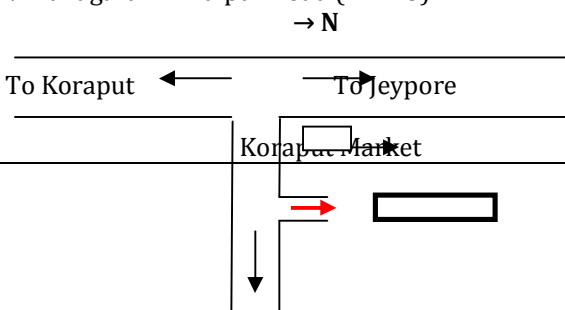
1.	<u>PALIBA- No Network</u>
2.	a) Nandapur Govt. Hospital, Padua (Orissa),10 bedded, Ambulance, Lab.,Distance: 2Kms. Ph. No. 06868 275501. b) Asha Kiran Hospital/Lantapur.Distance: 30 Kms., Ph. No. 06868 272213, 272217
3	Koraput Blood bank, Ph. No. 06852 252101. 60-70 units of blood available.
4	a) Nandapur - 06868 273533 (O), 273766 (R) b) GRP/Koraput - Ph. No. (Rly) 6394
5	a) CRPF Control room, Kolab Nagar/ Koraput, Ph. No. 06852 259106. b)Orissa Specail Armed Police , - 100, (3 rd Battalion)/Koraput - 06852 251355,
6	<p>Nandapur – Paliba Road To Bheja ### Paliba RS Level crossing Nandapur Jn. MD Road No. 55 NH-43 To Similiguda (VZM – KRPV NH-43 Road)</p>
7	a) Koraput Fire station, Ph. No. 06852 - 250301,230320, Control room: 101 b) Sunabeda Fire Station, Ph. No. 06852-20666
8	

9	a) RTC-Depot./Jeypore, Depot Manager, Ph. No. 06854 246839 b) RTO/Koraput, Ph. No. 086852 250289 (O), 251576 (R)
10	a) Trilochan Panda, H.No. 275/Hal town ship, Sunabeda, Orissa, Ph. No. 06853 220737.
11	a) District Collector, Ph. No. 06852 252266 (O), 252211 (R) b) Asst. Collector, (RDO), Ph. No. 06852-251232 (O) 251202 (R) MRO/Koraput, Ph. No. 06852 252481

1.	<u>SUKU- 08455893922</u>
2.	a) Koraput Dist. Govt. Hospital, 105 bedded, ambulance, X-ray, Lab, Blood bank. Distance: 25 kms., Ph. No. 06852 240242
3	Koraput Blood bank, Ph. No. 06852 252101, 60-70 units of blood available.
4	a) Koraput (Sadar) Police station, Ph. No. 06852 251241 b) GRP/Koraput, Ph. No. (Rly) 6394
5	a) CRPF Control room, Kolab Nagar/ Koraput, Ph. No. 06852 259106. b) Orissa Specail Armed Police (3 rd Battalion)/Koraput, Ph.No. 06852 251355.
6	<p style="text-align: center;">Nandapur – Suku Road</p>  <p>To Similiguda (VZM – KRPU NH-43 Road)</p>
7	a) Koraput Fire station, Ph. No. 06852 250301, 230320. Control room: 101 b) Sunabeda Fire Station, Ph. No. 06852-20666
8	
9	a) RTC-Depot./Jeypore, Depot Manager, Ph. No. 06854 246839 b) RTO/Koraput, Ph. No. 086852 250289 (O), 251576 (R)
10	Trilochan Panda, H.No. 275/Hal town ship, Sunabeda, Orissa, Ph. No. 06853 220737.
11	a) District Collector, Ph. No. 06852 252266 (O), 252211 (R) b) Asst. Collector, (RDO), Ph. No. 06852-251232 (O), 251202 (R) c) MRO/Koraput, Ph. No. 06852 252481

1.	<u>KORAPUT Jn.-08455893911</u>
2.	a) Koraput Dist. Govt. Hospital, 105 bedded, ambulance, X-ray, Lab,

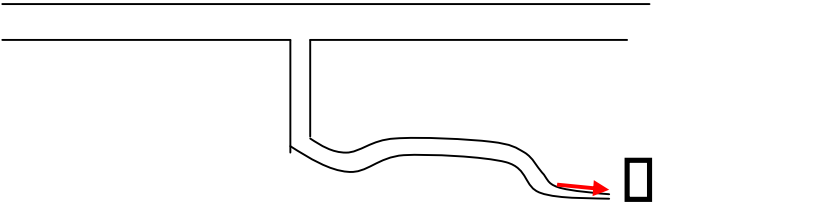
	b) Rly. Health unit, Koraput Rly. Colony, Ph.no: 06852 251440, 250675
3	Koraput Blood bank. Ph. No. 06852 252101. ,60-70 units of blood available.
4	a) Koraput Town, Ph. No. 06852 250254 , b) GRP/Koraput - Ph. No. (Rly) 6394
5	a) CRPF Control room, Kolab Nagar/ Koraput, Ph. No. 06852 259106. b) Orissa Specail Armed Police (3 rd Battalion), Koraput , Ph.No. 06852 251355
6	Vizianagaram - Raipur Road (NH-43) 
7	a) Koraput Fire station, Ph. No. 06852 250301,230320, Control room: 101 b) Sunabeda Fire Station, Ph. No. 06852-20666.
8	a) LIONS club, Koraput, Ph. No. 06852 251950 (O), 250402 (R). b) Aatma Social Org., Koraput - 06852 252575. c) HAL/Sonabada - 06852 220200, 220316.
9	a) RTC-Depot. /Jeypore, Depot Manager, Ph. No. 06854 246839 b) RTO/Koraput, Ph. No. 06852 250289 (O), 251576 (R)
10	a) Trilochan Panda, H.No. 275,, Hal town ship, Sunabeda, Orissa, Ph. No. 06853 220737.
11	a) District Collector, Ph. No. 06852 252266 (O), 252211 (R) b) Asst. Collector, (RDO), Ph. No. 06852-251232 (O), 251202 (R) c) MRO/Koraput, Ph. No. 06852 252481

1.	<u>MANABAR-08455893914</u>
2.	a) Koraput Dist. Govt. Hospital, 105 bedded, ambulance, X-ray, Lab, Blood bank. Distance: 25 kms. ,Ph. No. 06852 240242 b) Rly. Health unit, Koraput Rly. Colony, Blood Bank, Ph.no: 06852 251440, 250675
3	Koraput Blood bank., Ph. No. 06852 252101, 60-70 units of blood available.
4	a) Koraput (Sadar) Police station, Ph. No. 06852 251241, 251333. b) GRP/Koraput, Rly. Ph. No. 6394
5	a) CRPF Control room, Kolab Nagar/ Koraput, Ph. No. 06852 259106. b) Orissa Specail Armed Police , (3 rd Battalion)/Koraput, Ph.No. 06852 251355.
6	Vizianagaram - Raipur Road (NH-43) 

	Manabar RS
	To Borriguma
7	a) Koraput Fire station, Ph. No. 06852 250301,230320. ,Control room: 101 b) Sunabeda Fire Station. ,Ph. No. 06852-20666
8	
9	a) RTC-Depot./Jeypore, Depot Manager, Ph. No. 06854 246839 b) RTO/Koraput, Ph. No. 086852 250289 (O). ,251576 (R)
10	Trilochan Panda, H.No. 275, Ph.-06853 220737, Hal town ship, Sunabeda, Orissa.
11	a) District Collector, Ph. No. 06852 -252266 (O), 252211 (R). b) Asst. Collector, (RDO),Ph. No. 06852-251232 (O), 251202 (R). MRO/Koraput, Ph. No. 06852 252481

1.	<u>JARATI- No Network</u>
2.	a) Koraput Dist. Govt. Hospital, 105 bedded, ambulance, X-ray, Lab, Blood bank. Distance: 25 kms. Ph. No. 06852 240242 b) Rly. Health unit, Koraput Rly. Colony, c) Blood Bank, Ph.no: 06852 251440, 250675
3	Koraput Blood bank - Ph. No. 06852 252101, 60-70 units of blood available.
4	a) Koraput (Sadar) Police station, Ph. No. 06852 251241, 251333 b) GRP/Koraput - Rly. Ph. No. 6394
5	a) CRPF Control room Kolab Nagar/ Koraput, Ph. No. 06852 259106. b) Orissa Specail Armed Police (3 rd Battalion) Koraput - Ph.No. 06852 251355.
6	<p style="text-align: center;">VZM - JYP Road</p>
7	a) Koraput Fire station, Control room: 101, Ph. No. 06852 250301, 230320 b) Sunabeda Fire Station, Ph. No. 06852-20666
8	
9	a) RTC-Depot. /Jeypore, Depot Manager, Ph. No. 06854 246839

	b) RTO/Koraput, Ph. No. 086852 250289 (O), 251576 (R)
10	a) Trilochan Panda, H.No. 275/Hal town ship, Sunabeda, Orissa, Ph. No. 06853 220737
11	a) District Collector, Ph. No. 06852 252266(O), 250477 (R) b) Asst. Collector, (RDO), Ph. No. 06852 251232 (O), 251202 (R) c) MRO/Koraput, Ph. No. 06852 240304 d) ZP in-charge, Ph. No. 06852 251613 (O), 250378 (R)

1.	<u>MALIGURA- No Network</u>
2.	a) State Govt. Hospital/Jeypore - 50 bedded, ambulance, X-ray, Lab. (Distance: 35 kms). Ph. No. 06854 233003, 232926 b) Rly. Health unit, Koraput Rly. Colony,, Blood Bank - Ph.no: 06852 251440, 250675
3	Govt.Hospital Jeypore-06854233600,500 units.
4	a) Borigumma Police station, Ph. No. 06852 280045 (O), 280147 (R) b) GRP/Koraput - Rly. Ph. No. 6394
5	a) CRPF Control room, Kolab Nagar/ Koraput, Ph. No. 06852 259106. b) Orissa Specail Armed Police, (3 rd Battalion) Koraput - Ph.No. 06852 251355
6	<p>JYP – Borriguma-JDB Road → N</p>  <p style="text-align: right;">Malliguda RS</p>
7	a) Koraput Fire station, Control room: 101. ,Ph. No. 06852 250301,230320 b) Jeypore Fire station. Ph. No. 06854 230320
8	
9	a) RTC-Depot. /Jeypore. , Depot Manager, - Ph. No. 06854 246839 b) RTO/Koraput. ,Ph. No. 086852 250289 (O), 251576 (R)
10	a) Trilochan Panda, H.No. 275/Hal town ship, Sunabeda, Orissa, Ph. No. 06853 220737
11	a) District Collector, Ph. No. 06852 252266 (O), 252211 (R) b) Asst. Collector/Jeypore (RDO), Ph. No. 06854-251324 c) MRO/Jeypore ., Ph. No. 06854 222365

1.	<u>CHATTARIPUT-08455893915</u>
2.	a) State Govt. Hospital/Jeyppore, 50 bedded, ambulance, X-ray, Lab. Distance: 35 kms. Ph. No. 06854 233003, 232926 b) Rly. Health unit, Koraput Rly. Colony, Blood Bank - Ph.no: 06852 251440, 250675 c) Balaji Nursing Home/Jeyppore, 15 bedded, Ambulance, X-ray, and Lab. Ph. No. 06854 222746, (Distance: 22 Kms).
3	Govt.Hospital Jeyppore-06854233600,500 units.
4	a) Jeyppore Police station,Ph. No. 06854 230944 b) GRP/Koraput,Rly.Ph. No. 6394
5	a) CRPF Control room, Kolab Nagar/ Koraput, Ph. No. 06852 259106. b) Orissa Specail Armed Police ,(3 rd Battalion)/Koraput,Ph.No. 06852 251355
6	<p>Jeyppore – Borrigum Jn. (NH-43) Road</p>
7	a) Koraput Fire station, Control room: 101,Ph. No. 06852 250301,230320 b) Jeyppore Fire station,Ph. No. 06854 230320
8	
9	a) RTC-Depot. /Jeyppore, Depot Manager, Ph. No. 06854 246839 b) RTO/Koraput,Ph. No. 086852 250289 (O), 251576 (R)
10	Trilochan Panda, H.No. 275,Hal town ship, Sunabeda, Orissa,Ph. No. 06853 220737
11	a) District Collector,/Koraput ,Ph. No. 06852 252266(O), 250477 (R). b) Asst. Collector/Jeyppore (RDO),Ph. No. 06854-251324 . c) MRO/Jeyppore, Ph. No. 06854 222365.

1.	<u>JEYPORE-08455893916</u>
2.	a) State Govt. Hospital/Jeyppore, 50 bedded, ambulance, X-ray, Lab. Distance: 35 kms. Ph. No. 06854 233003, 232926. b) Rly. Health unit, Koraput Rly. Colony,Blood Bank - Ph.no: 06852 251440, 250675 c) Balaji Nursing Home/Jeyppore, 15 bedded, Ambulance, X-ray, and Lab., Ph. 06854 222746
3	Govt.Hospital Jeyppore-06854233600. ,500 units.
4	a) Jeyppore Police station, Ph. No. 06854 232344

	b) Sadar police Station, Ph.No: 06854 232011,230944 c) Mahila Police Station/JYP.Ph.No: 06854 232022 d) GRP/Koraput -Ph. No. Rly. 6394
5	a) CRPF Control room, Kolab Nagar/ Koraput, Ph. No. 06852 259106. b) Orissa Specail Armed Police, (3 rd Battalion) Koraput, - Ph.No. 06852 251355.
6	<p>Koraput - JDB (NH-43) Road</p>
7	Jeypore Fire station, Ph. No. 06854 230320
8	a) LIONS club, Jeypore, Ph- 06854 243060, b) Rotary Club, Jeypore, Ph. No. 06854 233595, 231263
9	a) RTC-Depot./Jeypore, Depot Manager,Ph. No. 06854 246839 b) RTO/Koraput,Ph. No. 086852 250289 (O), 251576 (R)
10	Trilochan Panda, H.No. 275/Hal town ship, Sunabeda, Orissa, Ph. No. 06853 220737.
11	a) District Collector,/Koraput ,Ph. No. 06852 252266 (O), 250477 (R). b) Sub. Collector/ Jeypore (RDO), Ph. No. 06854-251324. c) Tahsildar/JYP ,Ph. No. 06854 232265. d) BDO/JYP: Ph.No: 06854 233045

1.	<u>DHANAPUR-08455893917</u>
2.	a) State Govt. Hospital/Jeypore, 50 bedded, ambulance, X-ray, Lab. Distance: 35 kms. Ph. No. 06854 233003, 232926 b) Balaji Nursing Home/Jeypore, 15 bedded, Ambulance, X-ray, and Lab. Ph. No. 06854 222746 Distance: 22 Kms. c) Dr.KN.Choudhary, Ph. No. 06854 232288
3	Govt.Hospital Jeypore-06854233600. ,500 units.
4	a) Jeypore Police station, Ph. No. 06854 232344. b) Sadar police Station, Ph.No: 06854 232011,230944 c) Mahila Police Station/JYP.Ph.No: 06854 232022 d) GRP/Koraput -Ph. No. Rly. 6394
5	a) CRPF Control room, Kolab Nagar, Koraput. ,Ph. No. 06852 259106. b) Orissa Specail Armed Police (3 rd Battalion), Koraput - Ph.No. 06852 251355.

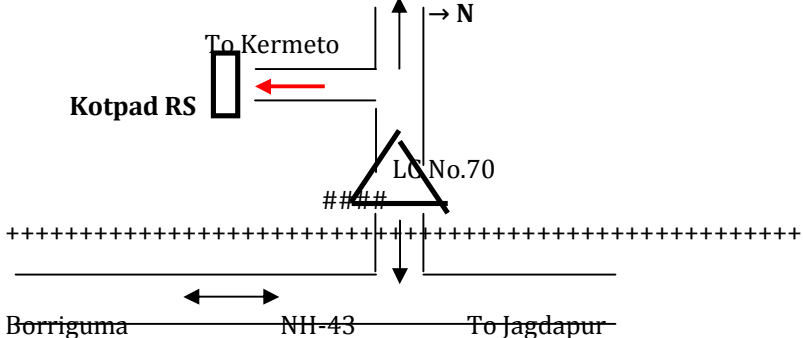
6	<p>Koraput – JDB (NH-43) Road</p> <p>JYP town → N</p> <p>Katchha road DIR Stn.</p>
7	Jeypore Fire station. Ph. No. 06854 230320
8	<p>a) LIONS club, Jeypore , Ph. No. 06854 243060</p> <p>b) Rotary Club, Jeypore. , Ph. No. 06854 233595, 231263</p>
9	<p>a) RTC-Depot./Jeypore, Depot Manager, Ph. No. 06854 246839</p> <p>b) OSRTC Depot, Ph. No. 06854 233181, 231740</p> <p>c) RTO/Koraput, Ph. No. 086852 250289 (O), 251576 (R)</p>
10	Trilochan Panda, H.No. 275/Hal town ship, Sunabeda, Orissa, Ph. No. 06853 220737.
11	<p>a) District Collector,/Koraput ., Ph. No. 06852-252266 (O), 250477 (R)</p> <p>b) Sub. Collector/Jeypore (RDO). , Ph. No. 06854-251324</p> <p>c) Tahsildar/Kotapd, Ph. No. 06860 224325</p> <p>d) BDO/JYP: Ph.No: 06854 233045</p>

1.	<u>KHADAPA-08455893918</u>
2.	<p>a) State Govt. Hospital/Jeypore. 50 bedded, ambulance, X-ray, Lab. Ph. No. 06854 233003, 232926</p> <p>b) Balaji Nursing Home/Jeypore. ,15 bedded, Ambulance, X-ray, and Lab. Ph. No. 06854 222746</p> <p>c) Dr.KN.Choudhary, Ph. No. 06854 232288</p>
3	Govt.Hospital Jeypore-06854233600. 500 units.
4	<p>a) Jeypore Police station, Ph. No. 06854 232344</p> <p>b) Sadar police Station. , Ph.No: 06854 232011,230944</p> <p>c) Mahila Police Station/JYP. Ph.No: 06854 232022</p> <p>d) GRP/Koraput, Ph. No. Rly. 6394</p>
5	<p>a) CRPF Control room, Kolab Nagar/ Koraput, Ph. No. 06852 259106.</p> <p>b) Orissa Specail Armed Police (3rd Battalion, Koraput -Ph.No. 06852 251355.</p>
6	<p>Borriguma – Kotpad (NH-43) Road To Bhusangguda</p>
7	Jeypore Fire station, Ph. No. 06854 230320

8	
9	a) RTC-Depot./Jeypore, Depot Manager, Ph. No. 06854 246839 b) OSRTC Depot, Ph. 06854 233181, 231740 c) RTO/Koraput, Ph. No. 086852 250289 (O), 251576 (R)
10	Trilochan Panda, H.No. 275/Hal town ship, Sunabeda, Orissa, Ph. No. 06853 220737
11	a) District Collector /Koraput , Ph. No. 06852-252266 (O), 250477 (R) b) Sub. Collector/Jepore (RDO)-, Ph.06854-251324 c) Tahsildar/Kotapd, Ph. No. 06860 224325 d) BDO/JYP: Ph.No: 06854 233045

1.	<u>CHARAMULA KUSUMI-08455893919</u>
2.	a) Govt. Hospital (PHC) Kusumi, Ph. No. 06860 288103, b) State Govt. Hospital/Jepore, 50 bedded, ambulance, X-ray, Lab. (Distance: 35 kms. Ph. No. 06854 233003, 232926 c) Balaji Nursing Home/Jepore, 15 bedded, Ambulance, X-ray, and Lab. Ph. No. 06854 222746 Distance: 22 Kms.
3	Govt.Hospital Jepore-06854233600. ,500 units.
4	a) Kotpad Police station - Ph. No. 06860 283031 b) GRP/Koraput - Ph.No. Rly. 6394
5	a) CRPF Control room, Kolab Nagar/ Koraput, Ph. No. 06852 259106. b) Orissa Specail Armed Police, (3 rd Battalion), Koraput -Ph.No. 06852 251355.
6	<p style="text-align: center;">Borriguma – Kotpad (NH-43) Road</p> <p style="text-align: center;">To Borriguma (NH-43) ←→ To Kotpad</p>
7	a) Kotpad Fire station(101), Ph. 06860 283095 b) Jepore Fire station, Ph. No. 06854 230320
8	
9	a) RTC-Depot./Jeypore, Depot Manager, Ph. No. 06854 246839 b) OSRTC Depot, Ph. No. 06854 233181, 231740 c) RTO/Koraput ,Ph. No. 086852 250289 (O), 251576 (R).
10	Trilochan Panda, H.No. 275/Hal town ship, Sunabeda, Orissa, Ph. No. 06853 220737.
11	a) District Collector,/Koraput, Ph. No. 06852 252266(O),250477 (R). b) Sub. Collector/Jepore (RDO). ,Ph. No. 06854-251324 c) Tahsildar/Kotpad - Ph. No. 06860 224325. ,d) BDO/Kotpad Ph.No: 06860 283025

1.	<u>KOTPAR ROAD-08455893920</u>
2.	a) Govt. Hospital Kotpad Town b) State Govt. Hospital/Jepore, 50 bedded, ambulance, X-ray, Lab. (Distance: 35 kms).

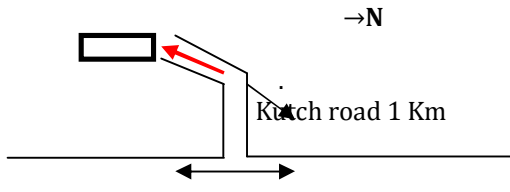
	Ph. No. 06854 233003, 232926 c) Balaji Nursing Home/Jeyppore, 15 bedded, Ambulance, X-ray, Lab. Ph. No. 06854 222746
3	Govt.Hospital Jeypore- Ph -06854233600, 500 units.
4	a) Kotpad Police station(100), Ph.06860 283031 b) GRP/Koraput - Ph.No. Rly. 6394
5	a) CRPF Control room, Kolab Nagar/ Koraput, Ph. No. 06852 259106. b) Orissa Specail Armed Police, (3 rd Battalion), Koraput, Ph.No. 06852 251355.
6	Borriguma – Jagdalpur (NH-43) Road 
7	a) Kotpad Fire station,Ph. No. 06860 283095 b) Jeypore Fire station, Ph. No. 06854 230320
8	
9	a) RTC-Depot./Jeypore, Depot Manager,Ph. No. 06854 246839 b) OSRTC Depot , Ph. No. 06854 233181, 231740 c) RTO/Koraput, Ph. No. 086852 250289 (O), 251576 (R)
10	Trilochan Panda, H.No. 275/Hal town ship, Sunabeda, Orissa, Ph. No. 06853 220737
11	a) District Collector,/Koraput , Ph. No. 06852 252266(O), 250477 (R) b) Sub. Collector/Jeyppore (RDO), Ph. No. 06854-251324 c) Tahsildar/Kotpad, Ph. No. 06860 224325.,d) BDO/Kotpad - Ph.No: 06860 283025

1.	<u>AMBAGAON- 09752413947</u>
2.	a) Govt. Hospital Kotpad Town, b) State Govt. Hospital/Jeyppore 50 bedded, ambulance, X-ray, Lab. Ph. No. 06854 233003, 232926 c) Balaji Nursing Home/Jeyppore, 15 bedded Ambulance, X-ray, and Lab. Ph. No. 06854 222746
3	Govt.Hospital Jeypore-06854233600. 500 units.
4	a) Kotpad Police station, Ph. No. 06860 283031 b) GRP/Koraput - Ph.No. Rly. 6394
5	a) CRPF Control room, Kolab Nagar/ Koraput. ,Ph. No. 06852 259106. b) Orissa Specail Armed Police, (3 rd Battalion), Koraput, Ph.No. 06852 251355

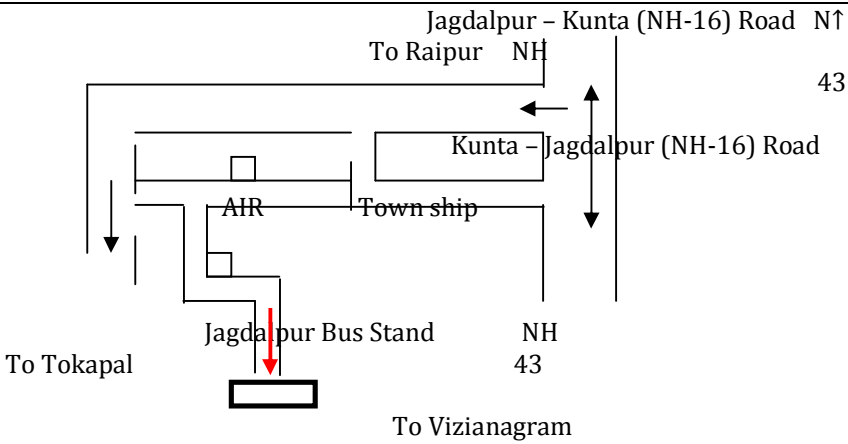
6	<p>Borriguma – Jagdalplur (NH-43) Road</p> <p>The diagram shows a road layout with a horizontal line representing the road. Above the line, a box labeled 'Ambogaon RS' has a red arrow pointing right towards a vertical line labeled 'LC Gate'. To the right of the LC Gate is a point labeled 'Chandli'. A dashed line with '+' signs runs horizontally across the middle. Below the road line, a double-headed arrow indicates the distance between the RS and the LC Gate. At the bottom, two arrows point left ('To Borriguma') and right ('To Jagdalpur (NH-43)'). A north arrow '→N' is in the top right.</p>
7	<p>a) Kotpad Fire station. ,Ph. No. 06860 283095. b) Jeypore Fire station, Ph. No. 06854 230320</p>
8	
9	<p>a) RTC-Depot./Jeypore, Depot Manager, Ph. No. 06854 246839 b) OSRTC Depot, Ph. - 06854233181, 231740 c) RTO/Koraput, Ph. No. 086852 250289 (O), 251576 (R)</p>
10	Trilochan Panda, H.No. 275/Hal town ship, Sunabeda, Orissa, Ph. No. 06853 220737
11	<p>a) District Collector,/Koraput , Ph. No. 06852 252266(O), 250477 (R). b) Sub. Collector/Jeypore (RDO), Ph. No. 06854-251324 c) Tahsildar/Kotpad, Ph. No. 06860 224325. ,d) BDO/Kotpad Ph.No: 06860 283025</p>

1.	<u>AMAGURA-09752413948</u>
2.	a) Govt. Hospital Jagdalpur, 150 bedded, Ambulance, X-ray, and Lab., Ph. No. 07782 222367.
3	Govt. Hospital Jagadalpur-0778222595. 500 units.
4	Nagarnar Police station,Ph. No. 07782 265232.
5	
6	<p>Borriguma – Jagdalpur (NH-43) Road</p> <p>The diagram shows a road layout with a horizontal line representing the road. Above the line, a box labeled 'Ambaguda RS' has a red arrow pointing right towards a vertical line labeled 'LC Gate'. A dashed line with '+' signs runs horizontally across the middle. Below the road line, a double-headed arrow indicates the distance between the RS and the LC Gate. At the bottom, two arrows point left ('To Borriguma') and right ('To Jagdalpur'). A north arrow '→N' is in the top right.</p>
7	a) Jagdalpur Fire station, Ph. No. 07782- 222454, Control room: 101
8	
9	a) RTC-Depot./Jagdalpur, Depot Manager,Ph. No. 07782 222718

10	a) Sri Gujar Sing, Gidam Road, C/o Appola Typres shop/JDB, Ph. No. 07782 225222. b) M/s. Easwar das Construction, Siva mandir ward/Jagdarpur, Ph. No. 07782 221682
11	a) District Collector, / Jagdarpur, Ph. No. 07782 222304(O), 222693 (R) Cell No. 9425247193 b) Sub. Collector/ Jagdarpur Ph. No. 07782 222515. c) MRO/JDB, Ph.No.07782 222368

1.	NAKTI SEMRA-09752413949
2.	a) Govt. Hospital Jagdarpur, 150 bedded, Ambulance, X-ray, and Lab., Ph. No. 07782 222367.
3	Govt. Hospital Jagdarpur-0778222595. 500 units.
4	a) Nagarnar Police station Ph. No. 07782 265232 b) Bodha Ghat Police station, Jagdarpur, Ph. No. 07782-222448
5	
6	<p>Borriguma – Jagdarpur (NH-43) Road</p> <p>Naktisemra RS</p>  <p>To Borriguma To Jagdarpur</p>
7	a) Jagdarpur Fire station, Ph. No. 07782- 222454. ,Control room: 101
8	
9	a) RTC-Depot. /Jagdarpur, Depot Manager, Ph. No. 07782 222718
10	a) Sri Gujar Sing, Gidam Road, C/o Appola Typres shop/JDB. ,Ph. No. 07782 225222. b) M/s. Easwar das Construction, Siva mandir ward/Jagdarpur Ph. No. 07782 221682
11	a) District Collector, / Jagdarpur. ,Ph. No. 07782 222304(O), 222693 (R).Cell No. 9425247193 b) Sub. Collector/ Jagdarpur Ph. No. 07782 222515 a) MRO/JDB, Ph.No.07782 222368

1.	JAGADALPUR-09752413950
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2.	a) Govt. Hospital (Maharani) Jagdalpur, 150 bedded, Ambulance, X-ray, and Lab. Ph. No. 07782 222367, 222609. b) Rly. Hospital, Railway Colony, Jagadalpur. c) Vivekanand Hospital-Ph. No. 07782 223209
3	Govt. Hospital Jagadalpur-0778222595, 500 units.
4	a) Bodha Ghat Police station, Jagdalpur, Ph. No. 07782-222448
5	NIL
6	 <p style="text-align: center;">Jagdalpur RS</p> <p>*****</p>
7	a) Jagdalpur Fire station, Ph. No. 07782- 222454. Control room: 101
8	a) Bastar Chamber of Commerce, Cell No. 9425590118 b) DRDO/JDB, Ph. No. 07782 227269 c) LIONS club, Jagadalpur, Ph. No. 077782 235784 d) Rotary Club/JDB, Ph. No. 07782 237341 e) Red cross society, Jagadalpur, Ph. No. 07782 222656
9	a) RTC-Depot. /Jagdalpur, Depot Manager, Ph. No. 07782 222718, Cell No. 9425256878
10	a) Sri Gujar Sing, Gidam Road, C/o Appola Typres shop/JDB, Ph. No. 07782 225222 b) M/s. Easwar das Construction, Siva mandir ward/Jagdalpur, Ph. No. 07782 221682
11	a) District Collector, / Jagdalpur, Ph. No. 07782 222304(O), 222693 (R) Cell No. 9425247193 b) Sub. Collector, Jagdalpur, Ph. 07782 222515., c) MRO/JDB, Ph. No. 07782 222368

1.	<u>KUMAR MARANGA-09752413951</u>
2.	a) Govt. Hospital (Maharani) Jagdalpur, 150 bedded, Ambulance, X-ray, and Lab. Ph. No. 07782 222367, 222609. b) Rly. Hospital, Railway Colony, Jagadalpur. c) Vivekanand Hospital, Ph. No. 07782 223209
3	Govt. Hospital Jagadalpur-0778222595, 500 units.
4	a) Parapa Police station, Ph. No. 07782 228899 (O), 222237 (R)
5	

6	<p style="text-align: center;">Tokapal – Jagdalpur (NH-16) Road</p> <p style="text-align: center;">N ↑</p> <p>Maranga Junction</p> <p>Kumhar Maranga RS</p> <p>+++++</p>
7	a) Jagdalpur Fire station, Ph. No. 07782- 222454. ,Control room: 101
8	a) Bastar Chamber of Commerce, Cell No. 9425590118. b) DRDO/JDB, Ph. No. 07782 227269. c) LIONS club, Jagadalpur, Ph. No. 077782 235784. d) Rotary Club/JDB, Ph. No. 07782 237341. e) Red cross society, Jagadalpur,Ph. No. 07782 222656
9	a) RTC-Depot. /Jagdalpur, Depot Manager,Ph. No. 07782 222718, Cell No. 9425256878
10	a) Sri Gujar Sing, Gidam Road, C/o Appola Typres shop/JDB. Ph. No. 07782 225222. b) M/s. Easwar das Construction, Siva mandir ward/Jagdalpur, Ph. No. 07782 221682
11	a) District Collector,/ Jagdalpur,Ph. No. 07782 222304(O), 222693 (R),Cell No. 9425247193 b) Sub. Collector/ Jagdalpur, Ph. No. 07782 222515. c) MRO/JDB, Ph.No.07782 222368

1.	<u>TOKOPAL-09752413952</u>
2.	a) Govt. Hospital (Maharani) Jagdalpur, 150 bedded, Ambulance, X-ray, and Lab. Ph. No. 07782 222367, 222609 b) Rly. Hospital, Railway Colony, Jagadalpur. c) Govt. Health Centre/TPQ, Ph. No. 07782 226101
3	Govt. Hospital Jagadalpur-0778222595, 500 units.
4	Parapa Police station, Ph.No. 07782 228899 (O), 222237 (R)
5	NIL
6	<p style="text-align: center;">Dilmili – Jagdalpur (NH-16) Road</p> <p style="text-align: center;">To Dilmili To Jagdalpur N ↑</p> <p>Tokapal RS</p> <p>+++++</p>
7	a) Jagdalpur Fire station, Ph. No. 07782- 222454.Control room: 101
8	a) Bastar Chamber of Commerce. ,Cell No. 9425590118 b) DRDO/JDB, Ph. No. 07782 227269. c) LIONS club, Jagadalpur, Ph. No. 077782 235784 d) Rotary Club/JDB, Ph. No. 07782 237341 e) Red cross society, Jagadalpur,Ph. No. 07782 222656
9	a) RTC-Depot./Jagdalpur, Depot Manager,Ph. No. 07782 222718, Cell No. 9425256878

10	a) Sri Gujar Sing, Gidam Road, C/o Appola Typres shop/JDB, Ph. No. 07782 225222. b) M/s. Easwar das Construction, Siva mandir ward/Jagdarpur, Ph. No. 07782 221682
11	a) District Collector, / Jagdarpur, Ph. No. 07782 222304(O), 222693 (R), Cell No. 9425247193. b) Sub. Collector/ Jagdarpur Ph. No. 07782 222515. c) MRO/JDB, Ph.No.07782 222368

1.	<u>BODEARAPUR-09752413953</u>
2.	a) Govt. Hospital (Maharani) Jagdarpur, 150 bedded, Ambulance, X-ray, and Lab. Ph. No. 07782 222367, 222609. b) Rly. Hospital, Railway Colony, Jagdarpur. c) Govt. Health Centre/TPQ. Ph. No. 07782 226101
3	Govt. Hospital Jagdarpur-0778222595. 500 units.
4	Kodanar Police station, Ph.No. 07862 280211
5	
6	<p style="text-align: center;">Dilmili – Jagdarpur (NH-16) Road</p> <p style="text-align: center;">N ↑</p> <p style="text-align: center;">+++++</p>
7	a) Jagdarpur Fire station, Ph. No. 07782- 222454. Control room: 101
8	LIONS club, BDX, Ph. No. 077782 225790
9	a) RTC-Depot./Jagdarpur. Depot Manager, Ph. No. 07782 222718. Cell No. 9425256878
10	a) Sri Gujar Sing, Gidam Road, C/o Appola Typres shop/JDB. Ph. No. 07782 225222 b) M/s. Easwar das Construction, Siva mandir ward/Jagdarpur, Ph. No. 07782 221682
11	a) District Collector, / Jagdarpur , Ph. No. 07782 222304(O), 222693 (R), Cell No. 9425247193 b) Sub. Collector/ Jagdarpur , Ph. No. 07782 222515, c) MRO/JDB, Ph.No.07782 222368

1.	<u>DILMILI-09752413954</u>
2.	a) Govt. Hospital (Maharani) Jagdarpur, 150 bedded, Ambulance, X-ray, and Lab. Ph. No. 07782 222367, 222609. b) Rly. Hospital, Railway Colony, Jagdarpur c) Govt. Health Centre/TPQ, Ph. No. 07782 226101
3	Govt. Hospital Jagdarpur-0778222595 ,500 units.
4	Kodanar Police station, Ph.No. 07862 280211
5	
6	<p style="text-align: center;">Kodanar – Jagdarpur (NH-16) Road</p> <p style="text-align: center;">N ↑</p>

	Dilmili RS +++++
7	a) Jagdalpur Fire station, Ph. No. 07782- 222454, Control room: 101
8	LIONS club, BDX, Ph. No. 077782 225790.
9	a) RTC-Depot./Jagdalpur, Depot Manager, Ph. No. 07782 222718. Cell No. 9425256878
10	a) Sri Gujar Sing, Gidam Road, C/o Appola Typres shop/JDB. Ph. No. 07782 225222 b) M/s. Easwar das Construction, Siva mandir ward/Jagdalpur. Ph. No. 07782 221682
11	a) District Collector,/ Jagdalpur ,Ph. No. 07782 222304(O), 222693 (R),Cell No. 9425247193. b) Sub. Collector/ Jagdalpur, Ph. No. 07782 222515. c) MRO/JDB, Ph.No.07782 222368

1.	<u>SILAK JHORI-09752413955</u>
2.	a) Govt. Hospital (Maharani) Jagdalpur, 150 bedded, Ambulance, X-ray, and Lab. Ph. No. 07782 222367, 222609 b) Govt. Hospital, Dantewara, 25 bedded, Ambulance, X-ray, and Lab. Ph. No. 07856 252223 c) Govt. Health Centre/Kilepal, Ph. No. 07862 28022.
3	Govt. Hospital Jagdalpur-0778222595.500 units.
4	Kodanar Police station, Ph.No. 07862 280211
5	
6	<p style="text-align: center;">Gidam – Jagdalpur (NH-16) Road</p> <p style="text-align: center;">N ↑</p> <p style="text-align: center;">+++++</p> <p style="text-align: center;">Sillakjhori RS</p>
7	a) Jagdalpur Fire station, Ph. No. 07782- 222454, Control room: 101
8	
9	a) RTC-Depot./Jagdalpur, Depot Manager, Ph. No. 07782 222718, Cell No. 9425256878
10	a) Sri Gujar Sing, Gidam Road, C/o Appola Typres shop/JDB, Ph. No. 07782 225222 b) M/s. Easwar das Construction, Siva mandir ward/Jagdalpur, Ph. No. 07782 221682
11	a) District Collector,/ Jagdalpur, Ph. No. 07782 222304(O), 222693 (R), Cell No. 9425247193 b) Sub. Collector/ Jagdalpur, Ph. No. 07782 222515 c) MRO/JDB, Ph.No.07782 222368

1.	<u>KUMHAR SODRA-KMSD - 09752413956</u>
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2.	a) Govt. Hospital (Maharani) Jagdalpur, 150 bedded, Ambulance, X-ray, and Lab. Ph. No. 07782 222367, 222609. b) Govt. Hospital, Dantewara, 25 bedded, Ambulance, X-ray, and Lab. Ph. No. 07856 252223 c) Govt. Health Centre/Kilepal, Ph. No. 07862 28022
3	Nil
4	Kodanar Police station, Ph.No. 07862 280211
5	
6	<p style="text-align: center;">Gidam – Jagdalpur (NH-16) Road</p> <p style="text-align: center;">N ↑</p> <p style="text-align: center;">Kumhar sodra RS</p> <p style="text-align: center;">+++++</p>
7	a) Jagdalpur Fire station, Ph. No. 07782- 222454, Control room: 101
8	
9	a) RTC-Depot./Jagdalpur, Depot Manager, Ph. No. 07782 222718, Cell No. 9425256878
10	a) Sri Gujar Sing, Gidam Road, C/o Appola Typres shop/JDB, Ph. No. 07782 225222 b) M/s. Easwar das Construction, Siva mandir ward/Jagdalpur, Ph. No. 07782 221682
11	a) District Collector,/ Jagdalpur, Ph. No. 07782 222304(O), 222693 (R), Cell No. 9425247193 b) Sub. Collector/ Jagdalpur, Ph. No. 07782 222515 c) MRO/JDB, Ph.No.07782 222368

1.	<u>KAKLUR - 09752413957</u>
2.	a) Govt. Hospital (Maharani) Jagdalpur, 150 bedded, Ambulance, X-ray, and Lab. Ph. No. 07782 222367, 222609. b) Govt. Hospital, Dantewara, 25 bedded, Ambulance, X-ray, and Lab. Ph. No. 07856 252223 c) Govt. Health Centre/Kilepal, Ph. No. 07862 28022
3	Nil
4	Kodanar Police station, Ph.No. 07862 280211
5	
6	<p style="text-align: center;">Gidam – Jagdalpur (NH-16) Road N</p> <p style="text-align: center;">Kutch road – 12 Kms</p> <p style="text-align: center;">Rail Track</p>

	<p>+++++</p> <p>KRD^L end Kakular RS KTV end</p> <p>Foot way</p>
7	a) Jagdalpur Fire station, Ph. No. 07782- 222454, Control room: 101
8	
9	a) RTC-Depot./Jagdalpur, Depot Manager, Ph. No. 07782 222718, Cell No. 9425256878
10	a) Sri Gujar Sing, Gidam Road, C/o Appola Typres shop/JDB, Ph. No. 07782 225222 b) M/s. Easwar das Construction, Siva mandir ward/Jagdalpur , Ph. No. 07782 221682
11	a) District Collector,/ Jagdalpur, Ph. No. 07782 222304(O), 222693 (R),Cell No. 9425247193 b) Sub. Collector/ Jagdalpur, Ph. No. 07782 222515 c) MRO/JDB, Ph.No.07782 222368

1.	<u>KAWARGAON-09752413958</u>
2.	a) Govt. Hospital, Dantewara, 25 bedded, Ambulance, X-ray, and Lab. Ph. No. 07856 252223 b) Govt. Health Centre/Kilepal, Ph. No. 07862 28022.
3	Nil
4	Katak Kalyan Police station. Ph. No. 07858 272237.
5	NIL
6	<p style="text-align: center;">Gidam – Jagdalpur (NH-16) Road</p> <p style="text-align: center;">N ↑</p> <p style="text-align: center;">+++++</p> <p style="text-align: center;">Kawargaon RS</p>
7	a) Jagdalpur Fire station, Ph. No. 07782- 222454, Control room: 101
8	NIL
9	a) RTC-Depot./Jagdalpur , Depot Manager, Ph. No. 07782 222718, Cell No. 9425256878
10	a) Sri Gujar Sing, Gidam Road, C/o Appola Typres shop/JDB, Ph. No. 07782 225222 b) M/s. Easwar das Construction, Siva mandir ward/Jagdalpur, Ph. No. 07782 221682
11	a) District Collector,/ Dantewara, Ph. No. 07856 252455, 252401. b) MRO/DWZ, Ph. No. 07856 252233 (O), 252386 (R)

1.	<u>DABPAL-09752413959</u>
2.	a) Govt. Public Health Centre, Gidam ,20 bedded, ambulance, X-ray, Lab, Ph. No. 07856 244453 b) Govt. Hospital, Dantewara, 25 bedded, Ambulance, X-ray, and Lab.Ph. No. 07856 252223
3	Nil
4	Dantewara Police station.Ph. No. 07858 272237.
5	NIL
6	<p style="text-align: center;">Gidam – Jagdalpur (NH-16) Road</p> <p style="text-align: center;">N ↑</p> <p style="text-align: center;">Dabpal RS</p> <p style="text-align: center;">+++++</p>
7	JDB
8	NIL
9	JDB
10	a) Sri K.A.Pappachan Constructions, Kirandul.JCB. , Ph.No. 07857 25249. b) M/s. Sarada Projects Pvt. Ltd., Bacheli, JCO,Ph. No. 07857 230456
11	a) District Collector,/ Dantewara,Ph. No. 07856 252455, 252401. b) MRO/DWZ,Ph. No. 07856 252233 (O), 252386 (R)

1.	<u>GIDAM-09752413960</u>
2.	a) Govt. Public Health Centre, Gidam ,20 bedded, ambulance, X-ray, Lab,Ph. No. 07856 244453 b) Govt. Hospital,Dantewara,25 bedded, Ambulance, X-ray, and Lab.,Ph. No. 07856 252223
3	Nil
4	Gidam Police station.,Ph. No. 07862 24482.
5	NIL
6	<p style="text-align: center;">N ↑</p>

	<p>Kutch Road- 5Kms.</p> <p>Gidam RS</p> <p>+++++</p>
7	Jagdalpur Fire station, Ph. No. 07782- 222454, Control room: 101
8	NIL
9	RTC-Depot./Bacheli, Depot Manager, Ph. No. 07857 230305, b) RTC -Depot/Kirandul , Phone No. 07857 255355
10	a) Sri K.A.Pappachan Constructions, Kirandul. JCB. Ph.No. 07857 255249. b) M/s. Sarada Projects Pvt. Ltd., Bacheli, JCO, Ph. No. 07857 230456
11	a) District Collector,/ Dantewara, Ph. No. 07856 252455, 252401 b) MRO/DWZ, Ph. No. 07856 252233 (O), 252386 (R)

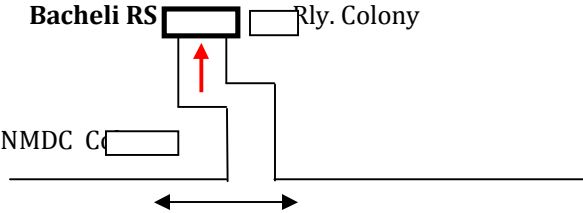
1.	<u>DANTEWARA-09752413961</u>
2.	a) Govt. Hospital, Dantewara, 25 bedded, Ambulance, X-ray, and Lab. Ph. No. 07856 252223
3	Nil
4	Dantewara Police station. Ph. No. 07856 252204.
5	Para Military force, (CISF), Ph. No. 07857 230349.
6	<p>Gidam - Jagdalpur (NH-16) Road</p> <p>N ↑</p> <p>Gidam Town</p> <p>NH-16 ← To Jagdalpur</p> <p>LC No. 103</p> <p>###</p> <p>NH 16 ↓</p> <p>Dantewara</p> <p>Rly. Colony</p> <p>To Dantewara Town</p>
7	Bacheli Fire station, Ph. No. 07857 230349.
8	
9	RTC-Depot./Bacheli, Depot Manager, Ph. No. 07857 230305. b) RTC -Depot/Kirandul , Phone No. 07857 255355

10	a) Sri K.A.Pappachan Constructions, Kirandul., JCB. Ph.No. 07857 255249. b) M/s. Sarada Projects Pvt. Ltd., Bacheli, JCB , Ph. No. 07857 230456
11	a) District Collector,/ Dantewara, Ph. No. 07856 252455, 252401. b) MRO/DWZ, Ph. No. 07856 252233 (O), 252386 (R)

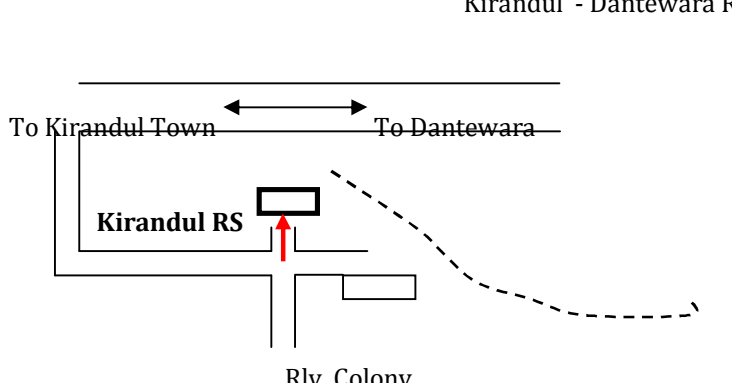
1.	<u>KAMALUR-09752413962</u>
2.	a) Govt. Hospital, Dantewara, 25 bedded, Ambulance, X-ray, and Lab., Ph. No. 07856 252223 b) NMDC Apollo Hospital, Bacheli, 150 bedded, Ambulance, X-ray, Lab, Blood bank, Ph. No. 07857 230050
3	Nil
4	a) Bhansi Police station. Ph. No. 07856 261218.
5	Para Military force, (CISF), Ph. No. 07857 230349,
6	<p style="text-align: center;">Kirandul - Dantewara Road</p> <p style="text-align: right;">N ↑</p> <p>*****</p> <p>Parsapal Junction Kutch road 10 Kms.</p> <p>To Kirandul To Dantewara</p>
7	Bacheli Fire station, Ph. No. 07857 230349
8	NIL
9	a) RTC-Depot./Bacheli, Depot Manager, Ph. No. 07857 230305, b) RTC -Depot/Kirandul , Phone No. 07857 255355
10	a) Sri K.A.Pappachan Constructions, Kirandul. JCB. Ph.No. 07857 255249, b) M/s. Sarada Projects Pvt. Ltd., Bacheli, JCO, Ph. No. 07857 230456
11	a) District Collector,/ Dantewara, Ph. No. 07856 252455, 252401 b) MRO/DWZ, Ph. No. 07856 252233 (O), 252386 (R)

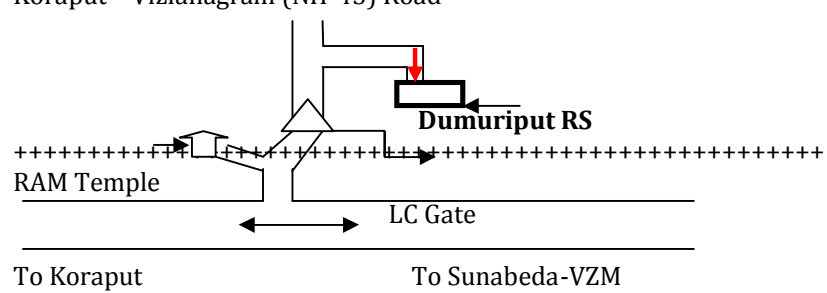
1.	<u>BHANSI-09752413963</u>
2.	a) Govt. Hospital, Dantewara, 25 bedded, Ambulance, X-ray, and Lab., Ph. No. 07856 252223 b) NMDC Apollo Hospital, Bacheli, 150 bedded, Ambulance, X-ray, Lab, Blood bank Ph. No. 07857 230050
3	Nil
4	a) Bhansi Police station. Ph. No. 07856 261218
5	Para Military force, (CISF), Ph. No. 07857 230349
6	<p style="text-align: center;">Kirandul - Dantewara Road</p> <p style="text-align: right;">N ↑</p> <p>*****</p> <p>Bhansi Bengali Bhansi RS</p>

	camp Junction To Kirandul	Kutch road 0.5 Kms. To Dantewara
7	Bacheli Fire station, Ph. No. 07857 230349	
8	NIL	
9	RTC-Depot. /Bacheli, Depot Manager, Ph. No. 07857 230305. b) RTC -Depot/Kirandul, Phone No. 07857 255355	
10	a) Sri K.A.Pappachan Constructions, Kirandul. JCB. Ph.No. 07857 255249 b) M/s. Sarada Projects Pvt. Ltd., Bacheli, JCO, Ph. No. 07857 230456	
11	a) District Collector, / Dantewara, Ph. No. 07856 252455, 252401 b) MRO/DWZ, Ph. No. 07856 252233 (O), 252386 (R)	

1.	<u>BACHELI-09752413964</u>	
2.	a) Govt. Hospital, Dantewara, 25 bedded, Ambulance, X-ray, and Lab., Ph. No. 07856 252223 b) NMDC Apollo Hospital, Bacheli, 150 bedded, Ambulance, X-ray, Lab, Blood bank, Ph. No. 07857 230050	
3	Nil	
4	Bacheli Police station. Ph. No. 07857 225720.	
5	Para Military force, (CISF), Ph. No. 07857 230349	
6	<p style="text-align: right;">Kirandul - Dantewara Road N ↑</p> <p>*****</p> <p>Bacheli RS </p> <p>To Kirandul To Dantewara</p>	
7	Bacheli Fire station, Ph. No. 07857 230349	
8	a) NMDC/Bacheli, Ph. No. 07867 230222, 230237, b) Bailadila Iron Ore Project (Deposit-5), Ph. No. 07857 230323, 230327	
9	RTC-Depot./Bacheli, Depot Manager,, Ph. No. 07857 230305 b) RTC -Depot/Kirandul, Phone No. 07857 255355	
10	a) Sri K.A.Pappachan Constructions, Kirandul. JCB. Ph.No. 07857 255249 b) M/s. Sarada Projects Pvt. Ltd., Bacheli, JCO, Ph. No. 07857 230456	
11	a) District Collector, / Dantewara, Ph. No. 07856 252455, 252401 b) MRO/DWZ, Ph. No. 07856 252233 (O), 252386 (R)	

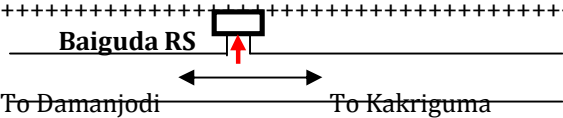
1.	<u>KIRANDUL-09752413965</u>	
2.	a) NMDC Apollo Hospital, Bacheli, 150 bedded, Ambulance, X-ray, Lab, Blood bank Ph. No. 07857 230050, b) NMDC Hospital, Kirandul, 75 bedded, Ambulance, X-ray, Lab,	

	Ph. No. 07857 255500, 255229(O),255422 (R)
3	Nil
4	Kirandul Police station.,Ph. No. 07857 255430,
5	Para Military force, (CISF),Ph. No. 07857 230349
6	<p style="text-align: center;">Kirandul - Dantewara Road</p>  <p style="text-align: center;">Rly. Colony</p>
7	Bacheli Fire station,Ph. No.07857 230349
8	a) NMDC/Bacheli,Ph. No. 07867 230222, 230237, b) Bailadila Iron Ore Project (Deposit-5),Ph.No. 07857 230323, 230327
9	a) RTC -Depot/Kirandul ,Phone No. 07857 255355 b) RTC-Depot./Bacheli,Depot Manager,,Ph. No. 07857 230305
10	a) Sri K.A.Pappachan Constructions, Kirandul. JCB. Ph.No. 07857 255249 b) M/s. Sarada Projects Pvt. Ltd., Bacheli, JCO,Ph. No. 07857 230456
11	a) District Collector,/ Dantewara,Ph. No. 07856 252455, 252401 b) MRO/DWZ,Ph. No. 07856 252233 (O), 252386 (R)

1.	<u>DUMMURIPUT- 08455893910</u>
2.	a) District Govt. Hospital/Koraput,105 bedded, X-ray, Lab, Blood bank, Ph. No. 06852 250242 (o), 250436(R) b) NALCO Hospital, Ph.No: 06853 254383, c) HAL Hospital, Sunabeda
3	Koraput Blood bank, Ph. No. 06852 252101,60-70 units of blood available.
4	a) Adarsh Police station, NALCO Nagar,Ph. No. 06853 254388(O), 254312 (R) Cell No. 09437077330,b) ASI/Dummuriput, Cell No. 09337850250
5	a) CRPF Control room, Kolab Nagar/ Koraput,Ph. No. 06852 259106. b) Orissa Specail Armed Police, (3 rd Battalion), Koraput, Ph.No. 06852 251355
6	<p style="text-align: center;">Koraput - Vizianagram (NH-43) Road</p>  <p style="text-align: center;">To Koraput To Sunabeda-VZM</p>

7	a) Koraput Fire station (101), Ph. No. 06852 250301, 230320 b) Sunabeda Fire Station, Ph. No. 06852-20666
8	a) HAL /Sunabeda, Ph.06863 220300, 220262. b) NELCO/Damanjodi, Ph. No. 06866 222515, 222505, 222366
9	a) RTC./Sunabeda, b) RTC - /Koraput, Ph. No. 06852 223013 c) RTO/Koraput, Ph. No. 06852 251461. d) Reliance Taxi Operators/Koraput, Ph. No. 06852 250317
10	a) Trilochan Panda, H.No. 275/Hal town ship, Sunabeda, Orissa. Ph. No. 06853 220737 b) M/s Guptaeswar Constructions, Santinagar, Sunabeda. Ph.no: 06853 220587
11	a) District Collector/ Koraput, Ph. No. 06852 252266 (O), 252211 (R) b) Dy. Collector/ Koraput, Ph. No: 06852 250700, 250445. c) Tahsildar/ Koraput, Ph. No: 06852 250304


1.	<u>DAMANJODI- 08455893909</u>
2.	a) District Govt. Hospital/Koraput, 105 bedded, X-ray, Lab, Blood bank, Phone No. 06852 250242 (O), 250436(R) b) NELCO Hospital, 65 bedded, Ambulance, X-ray, and Lab. (Distance: 4 Kms). Ph.No: 06853 232454, c) Govt. Hospital, Medalpot, (Distance: 10 Km). Ph.No. 06853 250686 d) HAL Hospital, Sunabeda
3	Koraput Blood bank. Ph. No. 06852 252101, 60-70 units of blood available.
4	a) Dummuriput /ASI/ I-C Police station. Ph. No. 07857 255430. b) Police station/ Damanjodi Ph. No. 06852-254388 (O), 254312 (R), Cell No9. 09437077330
5	a) CRPF Control room, Kolab Nagar/ Koraput, Ph. No. 06852 259106. b) Orissa Specail Armed Police (3 rd Battalion), Koraput , Ph.No. 06852 251355.
6	<p style="text-align: center;">To Damanodi</p> <p>From Bus stand DMN S = 6Kms. →</p> <p>KORAPUT To Sunabeda Vizianagaram (NH - 43) To Nandapur-ARK road</p>
7	a) NALCO/Damanjodi, Ph No. 06856 224444 b) Koraput Fire station(101), Ph. No. 06852 250301, 230320 c) Sunabeda Fire Station, Ph. No. 06852-20666
8	a) HAL /Sunabeda, Ph.06863 220300, 220262 b) NELCO/Damanjodi, Ph. No. 06866 222515, 222505, 222366
9	a) RTC-. /Sunabeda, b) RTC - /Koraput, Ph. No. 06852 223013 c) RTO/Koraput, Ph. No. 06852 251461, d) Reliance Taxi Operators/Koraput Ph. No. 06852 250317
10	a) Trilochan Panda, H.No. 275/Hal town ship, Sunabeda, Orissa. Ph. No. 06853 220737 b) M/s Guptaeswar Constructions, Santinagar, Sunabeda. Ph.no: 06853 220587
11	a) District Collector/ Koraput, Ph. No. 06852 252266 (O), 252211 (R) b) Dy. Collector/ Koraput, Ph. No: 06852 250700, 250445.

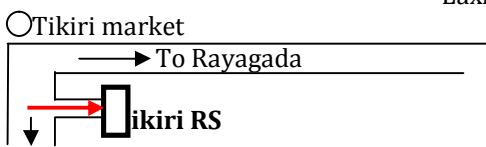
	c) Tahsildar/ Koraput, Ph. No: 06852 250304
1.	<u>BAIGUDA- No Network</u>
2.	a) District Govt. Hospital/Koraput,105 bedded, X-ray, Lab, Blood bank, Ph. No. 06852 250242 (O), 250436(R) b) NELCO Hospital, 65 bedded, Ambulance, X-ray, and Lab. (Distance: 4 Kms). Ph.No: 06853 232454 c) Govt. Hospital, Medalpota, (Distance: 10 Km). Ph.No. 06853 250686,d) HAL Hospital, Sunabeda
3	Koraput Blood bank. Ph. No. 06852 252101,60-70 units of blood available.
4	Kakrigumma Police station.,Ph. No. 07857 255430.
5	a) CRPF Control room, Kolab Nagar/ Koraput,Ph. No. 06852 259106. b) Orissa Specail Armed Police, (3 rd Battalion), Koraput, Ph.No. 06852 251355.
6	<p>+++++ </p> <p>Damanjodi – Kakriguma Sub Road</p>
7	a) NALCO/Damanjodi, Ph No. 06856 224444. b) Koraput Fire station, Control room: 101,Ph. No. 06852 250301,230320 c) Sunabeda Fire Station,Ph. No. 06852-20666
8	a) HAL /Sunabeda ,Ph.No. 06863 220300, 220262, b) NELCO/Damanjodi,Ph. No.06866 222515,222505, 222366
9	a) RTC-. /Sunabeda,b) RTC - /Koraput, Ph. No. 06852 223013 c) RTO/Koraput, Ph. No. 06852 251461,d) Reliance Taxi Operators/Koraput, Ph. No. 06852 250317
10	a) Trilochan Panda, H.No. 275/Hal town ship, Sunabeda, Orissa, Ph. No. 06853 220737 b) M/s Guptaeswar Constructions, Santinagar, Sunabeda. Ph.no: 06853 220587
11	a) District Collector/ Koraput,Ph. No. 06852 252266 (O), 252211 (R) b) Dy. Collector/ Koraput,Ph. No: 06852 250700, 250445.c) Tahsildar/ Koraput Ph. No: 06852 250304
1.	<u>KAKRIGUMMA-08455893908</u>
2.	a) Govt. Hospital/ Kakrigumma,Ph. No. 06855 276542 b) CHC, State Govt. Hospital/ Lakshmipur.,10 bedded, X-ray, Lab. (Distance: 14 Kms). Ph.No. 06856 228533. c) NELCO Hospital, 65 bedded, Ambulance, X-ray, and Lab. (Distance: 4 Kms). Ph.No: 06853 232454,d) Govt. Hospital, Medalpota, (Distance: 10 Km). Ph.No. 06853 250686,,
3	Koraput Blood bank. Ph. No. 06852 252101,,60-70 units of blood available.
4	Kakrigumma Police station.,Ph. No. 07857 255430,
5	a) CRPF Control room, Kolab Nagar/ Koraput,Ph. No. 06852 259106. b) Orissa Specail Armed Police, (3 rd Battalion), Koraput, Ph.No. 06852 251355

6	<p style="text-align: center;">Damanjodi – Laxmipur Road</p>
7	a) NALCO/Damanjodi, Ph No. 06856 224444 b) Koraput Fire station , Control room: 101,Ph. No. 06852 250301,230320 c) Sunabeda Fire Station, Ph. No. 06852-20666
8	a,) HAL /Sunabeda , Ph.06863 220300, 220262 b) NELCO/Damanjodi,Ph. No. 06866 222515, 222505, 222366
9	a) RTC /Sunabeda,b) RTC /Koraput, Ph. No. 06852 223013 c) RTO/Koraput, Ph. No. 06852 251461, d) Reliance Taxi Operators/Koraput,Ph. No. 06852 250317
10	a) Trilochan Panda, H.No. 275/Hal town ship, Sunabeda, Orissa, Ph. No. 06853 220737 b) M/s Gupteswar Constructions, Santinagar, Sunabeda. Ph.no: 06853 220587
11	a) District Collector/ Koraput,Ph. No. 06852 252266 (O), 252211 (R) ,b) Dy. Collector/ Koraput,Ph. No: 06852 250700, 250445. c) BDO/LKMR Ph. No: 06855 268518

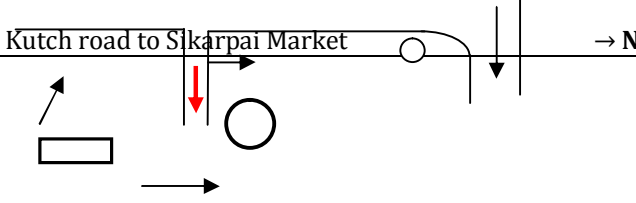
1.	<u>LAKSHMIPUR ROAD-08455893907</u>
2.	a) Govt. Hospital/ Kakrigumma,Ph. No. 06855 276542 b) CHC, State Govt. Hospital/ Lakshmipur.10 bedded, X-ray, Lab. Ph.No. 06856 228533. c) NELCO Hospital, 65 bedded, Ambulance, X-ray, and Lab., Ph.No: 06853 232454 d) Govt. Hospital, Medaltot, Ph. 06853 250686
3	Koraput Blood bank. Ph. No. 06852 252101, 60-70 units of blood available.
4	Lakshmipur Police station,Ph. No. 06855 268526.
5	a) CRPF Control room, Kolab Nagar/ Koraput,Ph. No. 06852 259106. b) Orissa Specail Armed Police, (3 rd Battalion), Koraput, Ph.No. 06852 251355
6	<p style="text-align: center;">Koraput – Rayagada Road</p>
7	a) Koraput Fire station, Ph. No.06852 250301,,b) NALCO/Damanjodi, Ph No. 06856 224444


	c) Rayagada Fire station, Ph.No. 06856 222222,,
8	a) HAL /Sunabeda, Ph. 06863 220300, 220262 b) NELCO/Damanjodi, ,Ph. No. 06866 222515, 222505, 222366
9	a) RTC - /Koraput, Ph. No. 06852 223013,,b) RTO/Koraput, Ph. No. 06852 251461 c) RTO/RGDA, Ph. No. 06856 222777,,d) Orissa State Road Transportation,Ph. No. 06856 235755 e) Private Bus Association/RGDA,,Ph.No. 06856 235756
10	a) Trilochan Panda, H.No. 275/Hal town ship, Sunabeda, Orissa, Ph. No. 06853 220737 b) M/s Guptaeswar Constructions, Santinagar, Sunabeda. Ph.no: 06853 220587
11	a) District Collector/ Koraput,Ph. No. 06852 252266 (O), 252211 (R) b) Dy. Collector/ Koraput,Ph. No: 06852 250700, 250445. c) BDO/LKMR Ph. No: 06855 268518

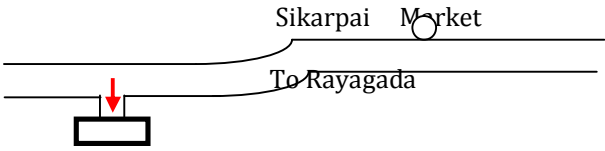
1.	<u>SINGARAM- No Network</u>
2.	a) Tikiri Govt. Hospital,b) Public Health Centre, Tikiri c) Govt. Hospital/RGDA, 70 bedded, Ambulance, X-ray, Lab.,Ph. No. 06856 235059 d) Rly. Health Unit, Rayagada, Rly. Ph. 85678 e) Lakshmipur Govt. Hospital, 10 bedded, X-ray, Lab. Ph.No. 06856 228533. f) Govt. Hospital/ Kakrigumma, Ph. No. 06855 276542
3	
4	Tikiri Police station,Ph. No. 06865 286014.
5	a) CRPF Control room, Kolab Nagar/ Koraput,Ph. No. 06852 259106. b) Orissa Specail Armed Police, (3 rd Battalion), Koraput, Ph.No. 06852 251355
6	Laxmipur – Tikiri Sub-Road Singaram RS +++++  To Laxmipur To Tikiri
7	a) Rayagada Fire station, Ph.No. 06856 222222. b) Koraput Fire station, Ph. No.06852 250301 c) NALCO/Damanjodi, Ph No. 06856 224444
8	a) LIONS Club, Rayagada,Ph.No. 06856 223300, 223201, 223300 b) Jaganath Social Movement/RGDA,Ph. No. 06856 222691 c) Seva Samathi, Rayagada, Ph.06856 222960
9	a) RTO/RGDA, Ph. No. 06856 222777,b) Orissa State Road Transportation Ph. No. 06856 235755,,c) Private Bus Association/RGDA. ,Ph.No. 06856 235756
10	a) Sri V.Srinivasa Rao, Rayagada,JCB-1, Proclain –1 b) Trilochan Panda, H.No. 275/Hal town ship, Sunabeda, Orissa, Ph. No. 06853 220737

	c) M/s Gupteswar Constructions, Santinagar, Sunabeda. Ph.no: 06853 220587
11	a) District Collector/ Rayagada ,Ph. No. 06856 222345 (O), 222354 (R) b) Dy. Collector/ Rayagada,Ph. No: 06856 222036 (O), 222037(R). c) Tahsildar/ Kasipur , Ph. No: 06865 285010.
1.	<u>TIKIRI-08455893906</u>
2.	a) Tikiri Govt. Hospital,b) Public Health Centre, Tikiri c) Govt. Hospital/RGDA, 70 bedded, Ambulance, X-ray, Lab., Ph. No. 06856 235059 d) Rly. Health Unit, Rayagada, Rly. Ph. 85678 e) Lakshmipur Govt. Hospital, 10 bedded, X-ray, Lab. Ph.No. 06856 228533. f) Govt. Hospital/ Kakrigumma, Ph. No. 06855 276542
3	
4	Tikiri Police station, Ph. No. 06865 286014
5	a) CRPF Control room, Kolab Nagar/ Koraput,Ph. No. 06852 259106. b) Orissa Specail Armed Police, (3 rd Battalion), Koraput, Ph.No. 06852 251355.
6	Laxmipur – Rayagada sub-Road  <p>+++++ To Laxmipur , From Rayagada to Tikiri RS = 66 Km.</p>
7	a) Rayagada Fire station, Ph.No. 06856 222222.b) Koraput Fire station(101), Ph. 06852 250301 c) NALCO/Damanjodi, Ph No. 06856 224444
8	a) LIONS Club, Rayagada,Ph.No. 06856 223300, 223201, 223300 b) Jaganath Social Movement/RGDA,Ph. No. 06856 222691 c) Seva Samathi, Rayagada, Ph.06856 222960
9	a) RTO/RGDA, Ph. No. 06856 222777.b) Orissa State Road Transportation Ph. No. 06856 235755,c) Private Bus Association/RGDA,,Ph.No. 06856 235756
10	a) Sri V.Srinivasa Rao, Rayagada JCB-1, Proclain –1 b) Trilochan Panda, H.No. 275/Hal town ship, Sunabeda, Orissa, Ph. No. 06853 220737 c) M/s Gupteswar Constructions, Santinagar, Sunabeda., Ph.no: 06853 220587
11	a) District Collector/ Rayagada ,Ph. No. 06856 222345 (O), 222354 (R) b) Dy. Collector/ Rayagada,Ph. No: 06856 222036 (O), 222037(R).

	c) Tahsildar/ Kasipur, Ph. No: 06865 285010
1.	RAULI - (Only Railway route)
2.	a) Tikiri Govt. Hospital, b) Public Health Centre, Tikiri c) Govt. Hospital/RGDA, 70 bedded, Ambulance, X-ray, Lab., Ph. No. 06856 235059 d) Rly. Health Unit, Rayagada, Rly. Ph. 85678,e) Lakshmipur Govt. Hospital, 10 bedded, X-ray, Lab. Ph.No. 06856 228533. f) Govt. Hospital/ Kakrigumma,Ph. No. 06855 276542
3	Rayagada
4	Tikiri Police station,Ph. No. 06865 286014
5	a) CRPF Control room, Kolab Nagar/ Koraput,Ph. No. 06852 259106. b) Orissa Specail Armed Police, (3 rd Battalion), Koraput. Ph.No. 06852 251355.
6	No Road point
7	a) Rayagada Fire station, Ph.No. 06856 222222,b) Koraput Fire station, Ph. No.06852 250301 c) NALCO/Damanjodi, Ph No. 06856 224444
8	a) LIONS Club, Rayagada,Ph.No. 06856 223300, 223201, 223300 b) Jaganath Social Movement/RGDA,Ph. No. 06856 222691 c) Seva Samathi, Rayagada,Ph.No. 06856 222960
9	a) RTO/RGDA, Ph. No. 06856 222777. b) Orissa State Road Transportation,Ph. No. 06856 235755 c) Private Bus Association/RGDA,Ph.No. 06856 235756
10	a) Sri V.Srinivasa Rao, Rayagada,JCB-1, Proclain -1, b) Trilochan Panda, H.No. 275/Hal town ship, Sunabeda, Orissa, Ph. No. 06853 220737, c) M/s Gupteswar Constructions, Santinagar, Sunabeda. Ph.no: 06853 220587.
11	a) District Collector/ Rayagada,Ph. No. 06856 222345 (O), 222354 (R). b) Dy. Collector/ Rayagada,Ph. No: 06856 222036 (O), 222037(R). c) Tahsildar/ Kasipur, Ph. No: 06865 285010

1.	LELIGUMMA- No Network
2.	a) Govt. Hospital, Kasipur, Distance: 15 Kms. b) ESI Hospital/ Keutuguda, JK Pur. 32 bedded, ambulance, X-ray, Lab. Ph. No. 06856 233765,c) Tikiri Govt. Hospital,d) Public Health Centre, Tikiri e) Govt. Hospital/RGDA, 70 bedded, Ambulance, X-ray, Lab. Ph. No. 06856 235059 f) Rly. Health Unit, Rayagada, Rly. Ph. 85678
3	
4	Tikiri Police station,Ph. No. 06865 286014
5	a) CRPF Control room, Kolab Nagar/ Koraput,Ph. No. 06852 259106. b) Orissa Specail Armed Police, (3 rd Battalion), Koraput, Ph.No. 06852 251355
6	

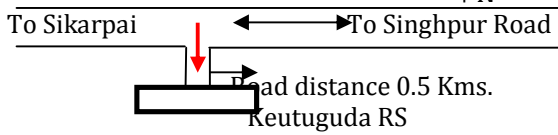
	<p>Sikarpai Market</p> <p>Rail Track Road 0.5 Km.  To Rayagada</p> <p>+++++ To BLMK</p> <p>Leligumma Foot way to Tunnel No.23 (Km: 112/16) RS</p>
7	a) Rayagada Fire station, Ph.No. 06856 222222,b) Koraput Fire station, Ph. No.06852 250301 c) NALCO/Damanjodi, Ph No. 06856 224444
8	a) LIONS Club, Rayagada,Ph.No. 06856 223300, 223201, 223300 b) Jaganath Social Movement/RGDA,Ph. No. 06856 222691 c) Seva Samathi, Rayagada, Ph. 06856 222960
9	a) RTO/RGDA, Ph. No. 06856 222777,b) Orissa State Road Transportation, Ph. No. 06856 235755. ,c) Private Bus Association/RGDA,Ph.No. 06856 235756
10	a) Sri V.Srinivasa Rao, Rayagada,JCB-1, Proclain –1 b) Trilochan Panda, H.No. 275/Hal town ship, Sunabeda, Orissa, Ph. No. 06853 220737 c) M/s Guptaeswar Constructions, Santinagar, Sunabeda. Ph.no: 06853 220587
11	a) District Collector/ Rayagada ,Ph. No. 06856 222345 (O), 222354 (R) b) Dy. Collector/ Rayagada,Ph. No: 06856 222036 (O), 222037(R). c) Tahsildar/ Kasipur, Ph. No: 06865 285010

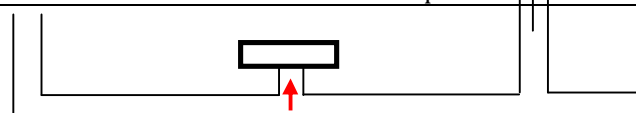
1.	<u>BHALUMASKA-0685-6212300</u>
2.	a) Govt. Hospital, Kasipur, (Distance: 15 Kms). b) ESI Hospital/ Keutuguda, JK Pur, X-ray, Lab ,32 bedded, ambulance, Ph. No. 06856 233765 c) Tikiri Govt. Hospital,d) Public Health Centre, Tikiri, e) Govt. Hospital/RGDA, 70 bedded, Ambulance, X-ray, Lab. Ph. No. 06856 235059 f) Rly. Health Unit, Rayagada, Rly. Ph. 85678
3	
4	K-Singapur Police station,Ph. No. 06856 275045
5	a) CRPF Control room, Kolab Nagar/ Koraput,Ph. No. 06852 259106. b) Orissa Specail Armed Police, (3 rd Battalion), Koraput, Ph.No. 06852 251355.
6	<p>Bhalumaska – Rayagada Road</p> <p>Sikarpai Market</p>  <p>Bhalumaska RS</p> <p>+++++</p>
7	a) Rayagada Fire station, Ph.No. 06856 222222.b) Koraput Fire station, Ph. No.06852 250301 c) NALCO/Damanjodi, Ph No. 06856 224444
8	a) LIONS Club, Rayagada,Ph.No. 06856 223300, 223201, 223300 b) Jaganath Social Movement/RGDA,Ph. No. 06856 222691

	c) Seva Samathi, Rayagada, Ph.No. 06856 222960
9	a) RTO/RGDA, Ph. No. 06856 222777, b) Orissa State Road Transportation, Ph. No. 06856 235755 c) Private Bus Association/RGDA, Ph.No. 06856 235756
10	a) Sri V.Srinivasa Rao, Rayagada, JCB-1, Proclain -1 b) Trilochan Panda, H.No. 275/Hal town ship, Sunabeda, Orissa, Ph. No. 06853 220737 c) M/s Gupteswar Constructions, Santinagar, Sunabeda. Ph.no: 06853 220587
11	a) District Collector/ Rayagada ,Ph. No. 06856 222345 (O), 222354 (R) b) Dy. Collector/ Rayagada, Ph. No: 06856 222036 (O), 222037(R). c) Tahsildar/ Kasipur, Ph. No: 06865 285010

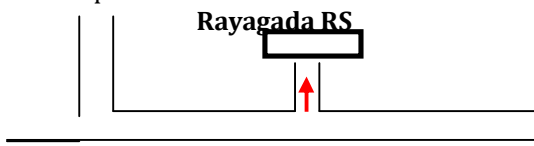
1.	<u>SIKARPAI-0685-6212200, 08455893905</u>
2.	a) Govt. Hospital, Kasipur ,Distance: 15 Kms. b) ESI Hospital/ Keutuguda, JK Pur. 32 bedded, ambulance, X-ray, Lab. Ph. No. 06856 233765 c) Tikiri Govt. Hospital & Public Health Centre, e) Govt. Hospital/RGDA 70 bedded, Ambulance, X-ray, and Lab., Ph. No. 06856 235059. f) Rly. Health Unit, Rayagada, Rly. Ph. 85678
3	
4	K-Singapur Police station, Ph. No. 06856 275045.
5	a) CRPF Control room, Kolab Nagar/ Koraput, Ph. No. 06852 259106. b) Orissa Specail Armed Police, (3 rd Battalion), Koraput, Ph.No. 06852 251355
6	<p>*****</p>
7	a) Rayagada Fire station, Ph.No. 06856 222222, b) Koraput Fire station, Ph. No.06852 250301 c) NALCO/Damanjodi, Ph No. 06856 224444
8	a) LIONS Club, Rayagada, Ph.No. 06856 223300, 223201, 223300 b) Jaganath Social Movement/RGDA, Ph. No. 06856 222691 c) Seva Samathi, Rayagada, Ph.No. 06856 222960
9	a) RTO/RGDA, Ph. No. 06856 222777, b) Orissa State Road Transportation, Ph. No. 06856 235755 c) Private Bus Association/RGDA, Ph.No. 06856 235756
10	a) Sri V.Srinivasa Rao, Rayagada, JCB-1, Proclain -1 b) Trilochan Panda, H.No. 275/Hal town ship, Sunabeda, Orissa, Ph. No. 06853 220737 c) M/s Gupteswar Constructions, Santinagar, Sunabeda. Ph.no: 06853 220587
11	a) District Collector/ Rayagada ,Ph. No. 06856 222345 (O), 222354 (R) b) Dy. Collector/ Rayagada, Ph. No: 06856 222036 (O), 222037(R). c) Tahsildar/ Kasipur, Ph. No: 06865 285010

1.	<u>KEUTIGUDA-08455893904</u>
2.	a) Govt. Hospital, Kasipur, Distance: 15 Kms.

	b) ESI Hospital/Keutuguda, JK Pur, X-ray, Lab, 32 bedded, ambulance, Ph. No. 06856 233765. c) Tikiri Govt. Hospital,d) Public Health Centre, Tikiri e) Govt. Hospital/RGDA, 70 bedded, X-ray, Lab, Ambulance, Ph. No. 06856 235059. f) Rly. Health Unit, Rayagada, Rly. Ph. 85678
3	Rayagada
4	Police station/Chandili,Ph. No. 06856 233666
5	a) CRPF Control room, Kolab Nagar/ Koraput,Ph. No. 06852 259106. b) Orissa Specail Armed Police, (3 rd Battalion), Koraput, Ph.No. 06852 251355.
6	J.K.PUR – SIKARPAI - K.SINGHPUR (STATE ROAD) ↑ N To Sikarpai ← → To Singhpur Road  Road distance 0.5 Kms. Keutuguda RS *****
7	a) Rayagada Fire station, Ph.No. 06856 222222.,b) Koraput Fire station, Ph. No.06852 250301 c) NALCO/Damanjodi, Ph No. 06856 224444
8	a) LIONS Club, Rayagada, Ph.No. 06856 223300, 223201, 223300 b) Jaganath Social Movement/RGDA,Ph. No. 06856 222691 c) Seva Samathi, Rayagada, Ph. 06856 222960
9	a) RTO/RGDA, Ph. No. 06856 222777,b) Orissa State Road Transportation,Ph. No. 06856 235755 c) Private Bus Association/RGDA,Ph.No. 06856 235756
10	a) Sri V.Srinivasa Rao, Rayagada,]CB-1, Proclain –1 b) Trilochan Panda, H.No. 275/Hal town ship, Sunabeda, Orissa, Ph. No. 06853 220737. c) M/s Gupteswar Constructions, Santinagar, Sunabeda. Ph.no: 06853 220587
11	a) District Collector/ Rayagada ,Ph. No. 06856 222345 (O), 222354 (R) b) Dy. Collector/ Rayagada,Ph. No: 06856 222036 (O), 222037(R). c) Tahsildar/ Kasipur, Ph. No: 06865 285010

1.	<u>SINGAPUR ROAD In- 08455893901</u>
2.	a) Govt. Hospital/RGDA, 70 bedded, X-ray, Ambulance, Lab. Distance: 1 Kms. Ph. No. 06856 235059.b) Rly. Health Unit, Rayagada, Rly. Ph. 85678, c) ESI Hospital/JK pur, KTGA, Ambulance, X-ray, 32 bedded, Lab. Distance: 5 Kms. Ph. No. 06856 233765.
3	Rayagada
4	a) Rayagada Town Police station,Ph. No. 06856-222041 (O), 225377 (R). b) GRPS/RGDA, Ph. No. 06856 222005(O, 222522 (R)
5	Nil.
6	Parvathipuram – Rayagada Road To Koraput ↑ N 

	<p style="text-align: center;">Rayagada RS</p> <p style="text-align: center;">+++++</p> <p style="text-align: center;">To Parvathipuram To J.K.Pur Road</p>
7	Rayagada Fire station, Ph.No. 06856 222222.
8	a) LIONS Club, Rayagada, Ph.No. 06856 223300, 223201, 223300. b) Jaganath Social Movement/RGDA, Ph. No. 06856 222691. c) Seva Samathi, Rayagada, Ph.No. 06856 222960
9	a) RTO/RGDA, Ph. No. 06856 222777, b) Orissa State Road Transportation Ph. No. 06856 235755, c) Private Bus Association/RGDA, Ph.No. 06856 235756. d) South Indian Road ways/RGDA, Ph. No. 06856 223342
10	Sri V.Srinivasa Rao, Rayagada, JCB-1, Proclaim -1.
11	a) District Collector/ Rayagada ,Ph. No. 06856 222345 (O), 222354 (R). b) Dy. Collector/ Rayagada, Ph. No: 06856 222036 (O), 222037(R). c) Tahsildar/ Rayagada, Ph. No: 06856 222001 (O), 223100 (R)

1.	<u>RAYAGADA - 08455893900</u>
2.	a) Govt. Hospital/RGDA, 70 bedded, Ambulance, X-ray, and Lab. Distance: 1 Kms. Ph. No. 06856 235059, b) Rly. Health Unit, Rayagada, Rly. Phone. 85678
3	
4	a) Rayagada Town Police station, Ph. No. 06856-222041 (O), 225377 (R) b) GRPS/RGDA, Ph. No. 06856 222005(O, 222522 (R)
5	Nil
6	<p style="text-align: center;">Parvathipuram – Rayagada Road → N</p>  <p style="text-align: center;">To Parvathipuram To J.K.Pur Road</p>
7	Rayagada Fire station, Ph.No. 06856 222222
8	a) LIONS Club, Rayagada, Ph.No. 06856 223300, 223201, 223300 b) Jaganath Social Movement/RGDA, Ph. No. 06856 222691, c) Seva Samathi, Rayagada, Ph.No. 06856 222960
9	a) RTO/RGDA, Ph. No. 06856 222777, b) Orissa State Road Transportation Ph. No. 06856 235755, c) Private Bus Association/RGDA, Ph.No. 06856 235756 d) South Indian Road ways/RGDA, Ph. No. 06856 223342
10	Sri V.Srinivasa Rao, Rayagada, JCB-1, Proclaim -1.
11	a) District Collector/ Rayagada ,Ph. No. 06856 222345 (O), 222354 (R) b) Dy. Collector/ Rayagada, Ph. No: 06856 222036 (O), 222037(R). c) Tahsildar/ Rayagada, Ph. No: 06856 222001 (O), 223100 (R)

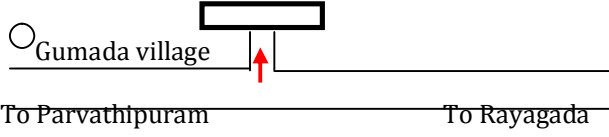
1.	<u>LADDA-08455893924</u>
2.	a) Public Health Centra, JMPT, 6 bedded, Ambulance (Jeep), Ph. No. 06856 271693, 271626

	b) Govt. Hospital/RGDA,70 bedded, Ambulance, X-ray, and Lab., Ph. No. 06856 235059 c) Rly. Health Unit, Rayagada,Rly. Phone. 85678
3	
4	a) Rayagada Town Police station,Ph. No. 06856-222041 (O), 225377 (R) b) GRPS/RGDA,Ph. No. 06856 222005(O, 222522 (R)
5	Nil.
6	<p style="text-align: right;">Parvathipuram – Rayagada Road → N</p> <p>To Parvathipuram To Rayagada</p>
7	Rayagada Fire station, Ph.No. 06856 222222
8	a) LIONS Club, Rayagada,,Ph.No. 06856 223300,223201, 223300, b) Jaganath Social Movement/RGDA,Ph. No. 06856 222691 c) Seva Samathi, Rayagada,,Ph.No. 06856 222960
9	a) RTO/RGDA, Ph. No. 06856 222777,b) Orissa State Road Transportation Ph. No. 06856 235755,c) Private Bus Association/RGDA Ph.No. 06856 235756,d) South Indian Road ways/RGDA,Ph. No. 06856 223342
10	Sri V.Srinivasa Rao, Rayagada,JCB-1, Proclain -1.
11	a) District Collector/ Rayagada ,Ph. No. 06856 222345 (O), 222354 (R), b) Dy. Collector/ Rayagada,Ph. No: 06856 222036 (O), 222037(R). c) Tahsildar/ Rayagada,Ph. No: 06856 222001 (O), 223100 (R)

1.	<u>JIMIDIPETA-08455893923</u>
2.	a) Public Health Centra, JMPT, 06 bedded, Ambulance (Jeep) Ph. No. 06856 271693, 271626 b) Govt. Hospital/RGDA, 70 bedded, X-ray, Ambulance, and Lab., Ph. No. 06856 235059 c) Rly. Health Unit, Rayagada, Rly. Ph. 85678
3	Govt. Hospital/RGDA, Ph. No. 06856 235059
4	a) Rayagada Town Police station,Ph. No. 06856-222041 (O), 225377 (R) b) GRPS/RGDA,Ph. No. 06856 222005(O, 222522 (R)
5	Nil.
6	<p style="text-align: right;">Parvathipuram – Rayagada Road +++++</p> <p style="text-align: center;">Jimidipeta RS → N</p> <p>To Parvathipuram To Rayagada</p> <p>PHC Health Center</p>
7	Rayagada Fire station, Ph.No. 06856 222222,Parvatipuram Fire station(101),

	Ph. No. 08963 221101
8	a) LIONS Club,Rayagada,Ph.No. 06856 223300, 223201, 223300. b) Jaganath Social Movement/RGDA,Ph. No. 06856 222691, c) Seva Samathi, Rayagada, Ph.No. 06856 222960
9	a) RTO/RGDA, Ph. No. 06856 222777.b) Orissa State Road Transportation Ph. No. 06856 235755,c) Private Bus Association/RGDA,Ph.No. 06856 235756 d) South Indian Road ways/RGDA,Ph. No. 06856 223342,
10	Sri V.Srinivasa Rao,Rayagada,JCB-1, Proclain -1.
11	a) District Collector/ Rayagada ,Ph. No. 06856 222345 (O), 222354 (R) b) Dy. Collector/ Rayagada,Ph. No: 06856 222036 (O), 222037(R). c) Tahsildar/ Rayagada,Ph. No: 06856 222001 (O), 223100 (R)

1.	<u>KUNERU-08978081978</u>
2.	a) Area Govt. Hospital, Parvatipuram (PVP),100 Bedded, Ambulance, Lab, X-ray. Ph. No. 08963 221088 b) Jayasree Hospital, PVP, 30 bedded, Lab, X-ray, Ph. No. 08963 221281 221681 c) Community Health Centre, Bobili,30 bedded, Ambulance, X-ray, and Lab. Ph. No. 08944 255682, 255387,d) Govt. Hospital, Komarada
3	
4	a) Komarada Police station,Ph. No. 08963 224533(O), Control room: Ph. No. 08922 226163 b) GRPS/PVP, Ph. No. 08963-221028
5	a) Vth Battalian, Chintalavalsa, Ph.no: 08922-226380 b) Police Training School/ Vizianagram,Ph.no: 08922-274226
6	<p style="text-align: center;">Parvathipuram – Rayagada Road</p> <p style="text-align: center;">+++++</p> <div style="text-align: center;"> <p>Kuneru RS → N</p> </div> <p>Main road to Kuneru RS distance is Approx. 250 meters</p>
7	Parvatipuram Fire station ,Ph. No. 08963 221101.
8	
9	a) RTC depot/ Parvatipuram (PVP).Ph. No. 08963 221233, 221296. b) BMPS Transporation/PVP,Ph. No. 08963 221265
10	Sri. M Srinivasa Rao/VZM,JCB- 1 No.,Cell no. 98481-45007
11	a) District Collector/ Vizianagaram,Ph. 08922 276720 (O), 276117 (R),Cell No. 09440794941 Control room: 08922-226720,,b) Sub-Collector/ Parvatipuram,Ph. No: 0863 221006 (O), Cell No. 0894425583,c) MRO/Komarada,Ph. No. 08963 221076

1.	GUMADA-08978081977
2.	a) Area Govt. Hospital, Parvatipuram (PVP),100 Bedded, Ambulance, Lab, X-ray. Ph. No. 08963 221088,b) Jayasree Hospital, PVP,30 bedded, Lab,X-ray, Distance: 1 kms. Ph. No. 08963 221281 221681,c) Community Health Centre, Bobili 30 bedded, Ambulance, X-ray, and Lab.,Ph. No. 08944 255682, 255387 d) Govt. Hospital, Komarada, Distance: 3 Kms.
3	
4	a) Komarada Police station,Ph. No. 08963 224533(O), ,Control room: Ph. No. 08922 226163 b) GRPS/PVP, Ph. No. 08963-221028
5	a) Vth Battalian, Chintalavalsa,Ph.no: 08922-226380, b) Police Training School/ Vizianagram,Ph.no: 08922-274226.
6	<p style="text-align: center;">Parvathipuram – Raiguda Road.</p> <p style="text-align: center;">Gumada RS →N</p> <p>+++++</p>  <p>○ Gumada village</p> <p>To Parvathipuram To Rayagada</p>
7	Parvatipuram Fire station, Ph. 08963 221101
8	a) LIONS Club, PVP,Ph.No. 08963 261418, 261636, b) JKS/PVP, Ph. No. 08963 220541,c) NCS Sugar Ltd. Ph.No. 08944 254390, 255216, 254259
9	a) RTC depot/ Parvatipuram (PVP),Ph. No. 08963 221233, 221296 b) BMPS Transporation/PVP,Ph. No. 08963 221265
10	Sri. M Srinivasa Rao/VZM,JCB- 1 No. Cell no. 98481-45007,
11	a) District Collector/ Vizianagaram,Ph. 08922 276720 (O), 276117 (R) Cell No. 09440794941,Control room: 08922-226720, b) Sub-Collector/ Parvatipuram,Ph. No: 0863 221006 (O), ,Cell No. 0894425583, c) MRO/Komarada,Ph. No. 08963 221076

1.	PARVATIPURAM-08978081976
2.	a) Area Govt. Hospital/Paravatipuram (PVP),100 Bedded, Ambulance, Lab, X-ray.Ph. No. 08963 221088, b) Jayasree Hospital, PVP, 30 bedded, Lab, X-ray, Distance: 1 kms. Ph. No. 08963 221281 221681 c) Community Health Centre, Bobili,30 bedded, Ambulance, X-ray, and Lab. Ph. No. 08944 255682, 255387
3	
4	a) Parvathipuram Town Police station,Ph. No. 08963-221033 (O), 221034 (R) Control room:Ph. No. 08922 226163,b) GRPS/VZM, Ph. No.08922-223743
5	a) Vth Battalian, Chintalavalsa,Ph.no: 08922-226380 b) Police Training School/ Vizianagram,Ph.no: 08922-274226,

6	<p style="text-align: right;">Bobbili – Rayagada road</p> <p>Parvathipuram (Belgam) Town</p> <p>+++++ Parvathipuram RS To Srikulam</p> <p>Main road to Parvathipuram RS distance is Approx. 500 M</p>
7	Parvatipuram Fire station, Ph. 08963 22110
8	a) LIONS Club, PVP, Ph.No. 08963 261418, 261636 b) JKS/PVP, Ph. No. 08963 220541, c) NCS Sugar Ltd. Ph.No. 08944 254390, 255216, 254259
9	a) RTC depot/ Parvatipuram (PVP), Ph. No. 08963 221233, 221296 b) BMPS Transporation/PVP, Ph. No. 08963 221265
10	Sri. M Srinivasa Rao/VZM, JCB- 1 No., Cell no. 98481-45007.
11	a) District Collector/ Vizianagaram, Ph. No. 08922 276720 (O), 276117 (R) Cell No. 09440794941, Control room: 08922-226720 b) Dy. Collector/ RDO Parvatipuram, Ph. No: 0863 2210061(O), Cell No. 0894425583 c) MRO/ Parvatipuram Town (PVPVT), Ph. No. 08963 221073

1.	<u>SITANAGARAM-08978081975</u>
2.	a) Primary Health Centre, Badangi, Ph. No. 08944 247333, b) BSR Health Institute,,30 bedded, Ambulance, X-ray,,Distance: 7 kms. Ph. No. 08965 85239, 85339. c) Community Health Centre, Bobbili,30 bedded, Ambulance, X-ray, and Lab. Ph. No. 08944 255682, 255387
3	
4	a) Sitanagaram Police station, Ph. No. 08944 250533 b) GRPS/VZM,, Ph. No.08922-223743
5	a) Vth Battalion, Chintalavalsa, Ph.no: 08922-226380. b) Police Training School/ Vizianagaram, Ph.no: 08922-274226,
6	<p style="text-align: right;">Bobbili – Rayagada road</p> <p>+++++ Seetanagaram RS Level crossing → N To Bobbili</p> <p>Main road to Rly. Station distance is Approx. 100 meters.</p>
7	Parvatipuram Fire station , Ph. No. 08963 221101
8	a) Hubli Jute Mills, Ph. No. 08944 255352, b) NCS Sugar Ltd., Ph.No. 08944 254390, 255216, 254259
9	a) RTC depot/VBL, Ph. No. 08944 254224, b) Sai Krishna Transport/VBL, Ph. No. 08944 254373
10	Sri. M Srinivasa Rao/VZM, JCB- 1 No. Cell no. 98481-45007

11	a) District Collector/ Vizianagaram, Ph. No. 08922 276720 (O), 276117 (R) Cell No. 09440794941, Control room: 08922-226720 b) Dy. Collector/ RDO Parvatipuram, Ph. No: 0863 2210061(O), 0894425583(M) c) MRO/PVPVT, Ph. No. 08963 221073.
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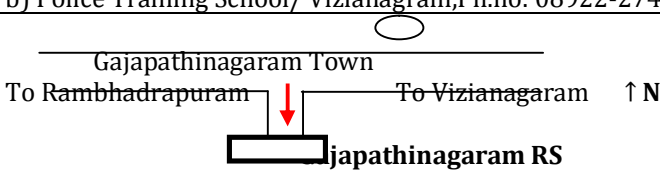
1.	BOBBILI Jn.- 08978081974
2.	a) Primary Health Centre, Badangi, Ph. No. 08944 247333 b) BSR Health Institute,,30 bedded, Ambulance, X-ray, Distance: 7 kms. Ph. No. 08965 85239, 85339. c) Community Health Centre, Bobili. 30 bedded, Ambulance, X-ray, and Lab., Ph. No. 08944 255682, 255387.
3	
4	a) Bobbili Police station, Ph. No. 08944 255833, Control room: Ph. No. 08922 226163 b) GRPS/Bobbilil, Ph. No. 08944 254877, Cell No. 9440627566
5	a) Vth Battalion, Chintalavalsa, Ph.no: 08922-226380. b) Police Training School/ Vizianagaram, Ph.no: 08922-274226.
6	<p>Parvathipuram – Rambhadrapuram Road</p> <p>The diagram shows a junction with a central 'Rail Track' represented by a triangle. Above the track is a 'Bobbili Bus stand' on a horizontal line. To the left of the track, a road goes 'To Parvathipuram' and another goes 'To Rambhadrapuram'. Below the track, a road goes 'To Salur'. A 'Booking Office' and 'PVP end' are marked on the left side of the track, while 'VZM end' and 'LC' are on the right. A red arrow points from the left towards the junction. A dashed line with '+' and '#' symbols runs horizontally across the middle of the diagram. A north arrow points upwards, labeled 'N'.</p>
7	Bobbili Fire station, Ph. No. 08944-255299
8	a) Hubli Jute Mills, Ph. No. 08944 255352, b) NCS Sugar Ltd., Ph.No. 08944 254390, 255216, 254259
9	a) RTC depot/VBL, Ph. No. 08944 254224, b) Sai Krishna Transport/VBL. , Ph. No. 08944 254373
10	Sri. M Srinivasa Rao/VZM, JCB- 1 No. Cell no. 98481-45007
11	a) District Collector/ Vizianagaram, Ph. 08922 276720 (O), 276117 (R) Cell No. 09440794941, Control room: 08922-226720, 276117 (R). b) Dy. Collector/ RDO Vizianagaram, Ph. No: 0892 226888(O). ,c) Tahsildar/ Bobbili, Ph. No: 08944 253744 (O).

1.	DONKINAVALASA-08978081973
2.	a) Primary Health Centre, Badangi. Ph. No. 08944 247333 b) BSR Health Institute, 30 bedded, Ambulance, X-ray, Distance: 7 kms. Ph. No. 08965 85239, 85339, c) Community Health Centre, Bobili ,,30 bedded, Ambulance, X-ray, and Lab. Ph. No. 08944 255682, 255387
3	
4	a) Baadangi Police station, Ph. No. 08944 247733, Control room: Ph. No. 08922 226163 b) GRPS/Bobbilil, Ph. No. 08944 254877, Cell No. 9440627566
5	a) Vth Battalion, Chintalavalsa, Ph.no: 08922-226380. , b) Police Training School/ Vizianagaram, Ph.no: 08922-274226.
6	<p>Parvathipuram – Rambhadrapuram Road</p> <p>The diagram shows a junction with a central 'Rail Track' represented by a triangle. Above the track is a 'Bobbili Bus stand' on a horizontal line. To the left of the track, a road goes 'To Chilakapalem'. Below the track, a road goes 'To Salur'. A 'Booking Office' and 'PVP end' are marked on the left side of the track, while 'VZM end' and 'LC' are on the right. A red arrow points from the left towards the junction. A dashed line with '+' and '#' symbols runs horizontally across the middle of the diagram. A north arrow points upwards, labeled 'N'.</p>

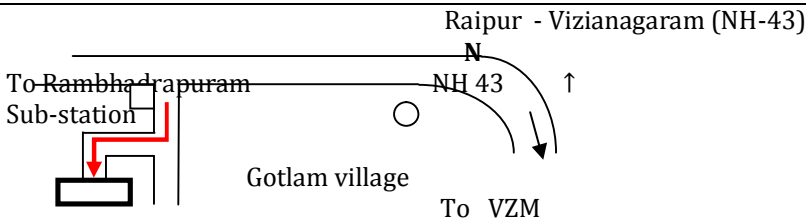
	<p style="text-align: center;">Donkinavalasa RS</p> <p style="text-align: center;">Govt. Hospital Rambhadrapuram</p> <p>To Parvathipuram (State Road) To VZM (NH-43)</p> <p style="text-align: center;">To Salur (NH-43)</p> <p>From Pavathipuram road to DNV RS distance is 10.5 Kms.</p>
7	Bobbili Fire station, Ph. No. 08944-255299
8	
9	a) RTC depot/VBL, Ph. No. 08944 254224,. b) Sai Krishna Transport/VBL,Ph. No. 08944 254373
10	Sri. M Srinivasa Rao/VZM, JCB- 1 No.,Cell no. 98481-45007.
11	a) District Collector/ Vizianagaram Ph. No. 08922 276720 (O), 276117 (R) Cell No. 09440794941,Control room: 08922-226720, b) Dy. Collector/ RDO Vizianagaram,Ph. No: 0892 226888(O). c) Tahsildar/ Badangi, Ph. No: 08944 247729 (O)

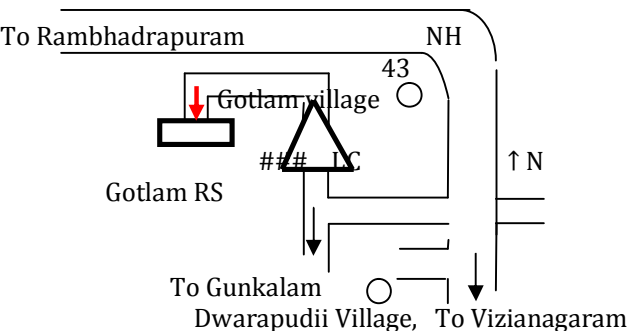
1.	<u>KOMATIPALLI-08978081972</u>
2.	a) Community Health Centre, Gazapathinagaram, Distance: 2 Kms. 30 bedded, ambulance, X-ray, Lab.Ph. NO. 08965 285260, 285267, b) BSR Health Institute, (Distance: 7 kms).30 bedded, Ambulance, X-ray, Ph. No. 08965 85239, 85339 c) Maharaj Institute of Medical Centre/ Vizianagaram, 350 bedded, Ambulance, X-ray, and Lab.Distance: 10 Kms,Ph. No.08922 244390,244333, 244397 d) Gosha Hospital (Blood Bank)/ Vizianagaram,Ph. No. 08922 223206
3	
4	a) Pedda Manapuram Police station,Ph. No. 08965 286633. ,Control room: Ph. No. 08922 226163 b) GRPS/Bobbilil - Ph. No. 08944 254877,Cell No. 9440627566
5	a) Vth Battalion, Chintalavalsa,Ph.no: 08922-226380 b) Police Training School/ Vizianagaram,Ph.no: 08922-274226
6	<p style="text-align: right;">Raipur – Vizianagaram (NH-43) Road</p> <p>To Garbham</p> <p>Boorjavalasa To Rambhadrapuram To Vizianagaram From NH-43 to KMX RS distance is 1.2 Km.</p>
7	Gazapatinagaram,Ph. No. 08965 285277
8	

9	RTC Depot. Manager/Vizianagram,Ph.no:08922-233089,230403
10	Sri. M Srinivasa Rao/VZM, JCB- 1 No.,Cell no. 98481-45007.
11	a) District Collector/ Vizianagram,Ph. No. 08922 276720 (O), 276117 (R) Cell No. 09440794941,Control room: 08922-226720 b) Dy. Collector/ RDO Vizianagram,Ph. No: 0892 226888(O), c) Tahsildar/ Dattisajesu,Ph. No: 08965-287540 (O),08922-222689(R),

1.	<u>GAJAPATINAGARAM-08978081971</u>
2.	a) Community Health Centre, Gazapathinagaram, (Distance: 2 Kms). 30 bedded, ambulance, X-ray, Lab.Ph. NO. 08965 285260, 285267, b) BSR Health Institute,30 bedded, Ambulance, X-ray, Distance: 7 kms.,Ph. No. 08965 85239, 85339 c) Maharaj Institute of Medical Centre/ Vizianagram, (Distance: 10 Kms), 350 bedded, Ambulance, X-ray, and Lab.Ph.No.08922 244390, 244333, 244397. d) Gosha Hospital (Blood Bank)/ Vizianagram,Ph. No. 08922 223206
3	
4	a) Gazapatinagaram Police station,Ph. No. 08965 285233,Control room: ,Ph. No. 08922 226163 b) GRPS/Bobbilil,Ph. No. 08944 254877,Cell No. 9440627566
5	a) Vth Battalion, Chintalavalsa,Ph.no: 08922-226380, b) Police Training School/ Vizianagram,Ph.no: 08922-274226.
6	 <p>From NH-43 to GPI RS distance is 0.4 Kms.</p>
7	Gajapatinagaram,Ph. No. 08965 285277
8	
9	RTC Depot. Manager/Vizianagram,Ph.no:08922-233089,230403
10	Sri. M Srinivasa Rao/VZM, JCB- 1 No.,Cell no. 98481-45007.
11	a) District Collector/ Vizianagram,Ph. No. 08922-276720 (O), 276117 (R) Cell No. 09440794941,Control room: 08922-226720. b) Dy. Collector/ RDO Vizianagram,Ph. No: 0892 226888(O). c) Tahsildar/ GPI, Ph. No: 08965 285232,Cell No. 09849903815

1.	<u>GARUDABILI-08978081970</u>
2.	a) State Govt. Hospital/Vizianagram,(12 Kms), 200 bedded, Ambulance, X-ray, and Lab.Ph. No. 08922 274200, 272124 b) Maharaj Institute of Medical Centre/ Vizianagram, 350 bedded, Ambulance, X-ray, and Lab. Distance: 10 Kms. Ph. No. 08922 244390, 244333, 244397 c) Gosha Hospital (Blood Bank),Ph. No. 08922 223206 d) Community Health Centre, Gazapathinagaram, Distance: 12 Kms. 30 bedded, ambulance, X-ray, Lab. ,Ph. NO. 08965 285260, 285267,
3	
4	a) Bondapalli Police station,Ph. No. 08965 285333. Control room: Ph. No. 08922 226163. b) GRPS/Bobbilil , Ph. No. 08944 254877.Cell No. 9440627566
5	a) Vth Battalion, Chintalavalsa,Ph.no: 08922-226380 b) Police Training School/ Vizianagram Ph.no: 08922-274226.

6	 <p>GRBL RS (From NH-43 to Garudabilli RS is = 2.0 Kms).</p>
7	Gazapatnagaram, Ph. No. 08965 285277
8	a) Lions Club/ Vizianagaram (VZM), Ph.no:08922-252238,252232 b) Mother Teresa Ashram/Vizianagaram, Ph.no: 08922-266027 c) Rotary Club/VZM, Ph. no: 08922-266027, d) IMA/VZM, Ph.no:08922-225513
9	RTC Depot. Manager/ Vizianagaram, Ph.no:08922-233089,230403
10	Sri. M Srinivasa Rao/VZM, JCB- 1 No., Cell no. 98481-45007.

11	a) District Collector/ Vizianagaram, Ph. No. 08922 276720 (O), 276117 (R) Cell No. 09440794941, Control room: 08922-226720 b) Dy. Collector/ RDO Vizianagaram, Ph. No: 0892 226888(O), c) Tahsildar/ Bondapalli, Ph.: 08965 285276, d) ZP In-charge ; Ph.No. 08922 226970 (O), 2258687 (R)
1.	GOTLAM-08978081969
2.	a) State Govt. Hospital/Vizianagaram, 200 bedded, Ambulance, X-ray, and Lab., Ph. No. 08922 274200, 272124, (Distn - 12 Kms). b) Maharaj Institute of Medical Centre/ Vizianagaram, 350 bedded, Ambulance, X-ray, and Lab. Distance: 10 Kms. , Ph. No.08922 244390, 244333,244397. ,c) Gosha Hospital (Blood Bank), Ph. No. 08922 223206
3	
4	a) Bondapalli Police station, Ph. No. 08965 285333, Control room: Ph. No. 08922 226163 b) GRPS/Bobbilil, Ph. No. 08944 254877, Cell No. 9440627566
5	a) Vth Battalion, Chintalavalsa, Ph.no: 08922-226380. b) Police Training School/ Vizianagaram, Ph.no: 08922-274226.
6	<p>Vizianagaram – Raipur (NH-43) to GTLM 4.5 Kms</p>  <p>Gotlam RS</p> <p>To Gunkalam</p> <p>Dwarapudii Village, To Vizianagaram</p>
7	Gazapatnagaram, Ph. No. 08965 285277
8	a) Lions Club/ Vizianagaram (VZM), Ph.no:08922-252238,252232 b) Mother Teresa Ashram/VZM, Ph.no: 08922-266027 c) Rotary Club, Ph. no: 08922-266027, d) IMA/VZM, Ph.no:08922-225513
9	RTC Depot. Manager/ Vizianagaram Ph.no:08922-233089,230403
10	Sri. M Srinivasa Rao/VZM, JCB- 1 No., Cell no. 98481-45007
11	a) District Collector/ Vizianagaram, Ph. No. 08922 276720 (O), 276117 (R)

	Cell No. 09440794941,Control room: 08922-226720. , b) Dy. Collector/ RDO Vizianagaram,Ph. No: 0892 226888(O), c) Tahsildar/ Bondapalli, Ph. No: 08965 285276. ,d) ZP In-charge, Ph.No. 08922 226970 (O), 2258687 (R)
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(Local resources as per HLC Report) updated 29.9.2016

DIVISION : SAMBALPUR

**UPDATING OF LOCAL RESOURCES, ADDRESS & TELEPHONE NUMBERS OF
STAKE HOLDERS IN ZONAL DMP-2016.**

SL No .	1	2	3	4	5	6	7	8	9	10
	Name of station & CUG of station	Name of nearby hospital/ nursing home	Dis tan ce fro m sta tion	Name of Docto rs	Telephone/ Mobile No of hospitals Nursing home/Doct ors	Facili ty Avail able in hospi tal Nursi ng Home & beds	Ambu lance conta ct numb ers	Telephon e of nearest blood Bank with capacity	Neare st police station & contac t Nos of In-charge	Con tac t Nos of par amil itar y
1.	RNBT 8455892871	06655-222999	300 Mts	Moha n.Lal. Jain	Jeevan Jyoti Nursing Home -06655-222999	Surger y, AC/No n-AC room.	NA	NA	943767 0202, (TIG) 943891 6521	NA
2.	MRBL 8455892870	PHC/MR BL- 06655272 113, CHC/KB J-06657-221901	PH C - 1K m CHC -24 Km	B. N Mishr a Mo- 94398 71042	CHC/KBJ 06657-221901	4 bed	MRB L- 99381 15209	TIG	MRBL- 943828 4946, KBJ- 066572 20240	NA
3.	KBJ 8455892830	CHC KBJ 06657-	50 0 M	Dr. P.K. Patra	9437367558	Gynic Oper ation	108 99379 64100	Durga Tandi, 80937930	Kataba nji, 977791	NA

		221901	ete r			30 beds		69 Prasant Sahu, 84568162 33	2652	
4.	HSK 8455892868	Lathore Hospital	01 - K m	R. R Patra(Pharm asist)	06652- 286175	NA	108	KBJ- 06657- 67240	Lathor- 06652- 286012	CR PF, 98531 37831
5.	TRKR 8455892869	06657- 286032	10 K m	Dr. M Babu	. 9439987488	12 beds	97773 73979 108	KBJ- 06657- 67240	06657- 286009	NA
6.	BLSN 9752416047	MSMD 07723- 222650,22 4843	9 K m	Dr. S.B Mangr ulkar	Ph- (MSMD)077 23-222232, Mo- 9993441942	NA	108	NA	MSMD, PH No- 07723- 222060, 223155	NA
7.	ANMD 0975241604 8	ANMD PH- 07720- 258730	02 K m	CMO- Sri Rai	07720- 258730, 0942421036 1	NA	108	NA	Arang , 07720- 258235	NA
8.	MSMD 9752416045	Aditya Hospital Govt. Hospital0 7723- 222232	Adi tya Hos pita l- 500 Mts . Go vt. Hos pita l-3 Km .	Dr.J Kalik otty GY, Dr.M Y Mem , Dr.H. B Kalik otty MD, Dr.H. S Guru dutta , MD. Dr.A. K Sukla,	Aditya Hospital- 07723- 229823 Govt. Hospital- 07723- 222103 Dr. M.V Mem- 9425204320 Dr. Jyoti Kalikotty- 9826128444	Adity a Hospi tal- 50bed s, Akalp urakh -30 beds	108, 07723 - 22221 03, 77232 04855	City Blood Bank, Raipur- PH-0771- 6460810, Mo- 98271223 74	City Kotwali , Mahasa mund- 07723- 222060	NA

Contd...P/02

	Name of station & CUG of station	Name of nearby hospital/ nursing home	Distance from station	Name of Doctors	Telephone/ Mobile No of hospitals Nursing home/Doctors	Facility Available in hospital Nursing Home & beds	Ambulance contact numbers	Telephone of nearest blood Bank with capacity	Nearest police station & contact Nos of In-charge	Contact Nos of paramilitary
9.	ARN 9752416044	1. Akalpurak 2. Aditya Hospital Govt. Hospital-07723-222203	1. Akal pura kh-10 Km. 2. Aditya Hospital a 10.5 km. Govt Hospital.-13 Km.	Dr.J Kalikott y GY, Dr.M Y Mem, Dr.H.B Kalikott y MD, Dr.H.S Gurudutta, MD. Dr.A.K Sukla,	Aditya Hospital-07723-229823 Govt. Hospital-07723-222103 Dr. M.V Mem-94252043 20 Dr. Jyoti Kalikotty - 98261284 44	Aditya Hospital-50beds, Akalpurakh-30 beds Govt. Hospital-200 beds	Sanjivani-108, 07723-222103, 204855	City Blood Bank, Raipur- PH-0771-64608 10, 98271 22374	City Kotwali, MSMD -07723-222060	NA
10.	BMKJ 9752416043 0770724-2223	Govt. Hospital Khallari	1.2 Km	Dr. K. Negi Mo-9993807 12 Dr. B.L Mishra Mo-9424289 989	Dr. B.C Sahu 99261589 19	10 beds	108 942422 0945	NA	BMKJ - 947919 2315	NA
11.	BGBR 09752416042	Govt. Hospital, BGBR	100 Mtrs	Dr. Kuruwansi	07702422 23	20 beds	108, 094242 20945	NA	Sri B. Singh 094791 92310	NA
12.	KMK 9752416041	KMK Govt. Hospital	01 Km	G.R. Chandra kar	09425207 096	16 beds	943760 0425-KRAR	Nil	KMK, 094791 92316	NA
13.	NPD	NPD-06678-	03 Km	Dr. L.N. Bisi,	Susila devi-	Govt. Hospital	9777 4055	Govt.	NPD-	CR

	8455892866	225346, 223456 ADMO - 943729 2867		ADMO, NPD 9437292 867	9437056 350,R.C Pathak- 9437248 040 P Sah- 94373625 90	al 100 beds. Sushila Devi - 30 beds.	33- NP D 993781 6586- B.C. Jena, NPD	Hospit al capaci ty 2000 units.	100,06 678- 225423 943866 2871	PF Co m. - 94370 94454
14.	LKNA 8455892867	NP D, Gov t. Hos pital	13 Km	Mrs. Sushila Devi	06678- 225005	100 Bed	108 & 102	Govt. NPD Hospit al	LKNA Mr. Sahu- 943801 2210	NA
15.	SFK 8455892829	TIG 06655- 220726 943998 7089	10 Km	Dr G. Jain Mo- 9437036 602, Dr.SS. Jana Mo- 9853048 565	Govt Medical TIG- Ph. No 06655- 220726, SDMO- 9439987 089	Operati on Theater , Dressin g Room,	108,1 02, 9437 2108 890, 0665 5- 2207 26	TIG Mo- 99382 23122	TIG Ph No- 06655- 22044, Mo- 943724 3844	ND RF, Mu ndly - 0671 - 2878 9710 , 94371 84170
16.	BUDM 8455892828	SDH TIG Ph No. 066552 50455, Ordene st Factor y Ph No- 066552 503, 06655- 2503	2 Km	Dr. S.K.S Barapatr a- CMO- 9437190 131, Dr. J. Horo PMO,M O- 9437475 262	Dr. P.K. Das 9438055 927 Dr. B. Mishra - 8280096 818, Dr. S Prikyha 9692498 455.	BUD M Hospit al, 20- beds,	0665 5- 2532 52, 2503 01.	Sub Divisi onal. Hospit al TIG- 99382 23122	Saintal a P.S, Ph No- 06655- 220441 , Badma l out Post- 06655- 253123 ,	NA

Contd...P/03

	Name of station & CUG of station	Name of nearby hospital/ nursing home	Distance from station	Name of Doctors	Telephone/Mobile No of hospitals Nursing home/Doctors	Facility Available in hospital Nursing Home & beds	Ambulance contact numbers	Telephone of nearest blood Bank with capacity	Nearest police station & contact Nos of In-charge	Contact Nos of paramilitary
17.	SFC 8455892827	Govt. Hospital, SFC Ph No-06655-256202	02 Km	Dr. sudha Barla Mo-9439987440, Dr. B.N. Mohanty Mo-9861130029	Dr. P.K. Das Mo-9438055927 Dr. B. Mishra M0-8280096818, Dr. Sujata Prikhya Mo-9692498455.	BUDM Hospital, 20-beds	06655-253252, 250301..	Sub Divisional. Hospital TIG	Saintal a P.S, Ph No-06655-256040, Badma l out Post-06655-253123	NA
18.	DFR 8455892826	C.H.C, DFR 06652-284011	01 Km	Dr. B. K Nayak Ph-9437218844	06652-284011	10 beds, Pathology	06652-286108	BLGR, Dist. Govt. Hospital	Tusra 06652-256038	Gokulnath Sah 943757
19.	BLGR 8455892825	Dist.HQ Hospital, BLGR	03 Km	Dr. Santosh Ku Mishra, 9438082192, Dr. Tarun Ku Palit - 9437151283	06652-232622	Blood Bank, 250 beds	108, Hospital 8908477970,06652-232790, Municipality-9777207260, Lion Clube-	06652-232622	GRPS/ BLGR No-06652-234789	NA

							943703943 8, Driver No- 828009674 591782386 86			
20.	SBPY 8455892864	GOVT. Hospital, Budhara ja, SBP. JMJ Hospital & Nursing home N.H-06	03 K m	Dr. R.Sahu- 9437255 660, Dr. K. Purohit - 9437051 262	Govt Hospital, 0663- 2401843 Sanjivani- 0663- 2404022	All facility availab le, 50 beds. Govt. Hospit al-40 beds	108,102, 889592141 594384883 35	943838 6566, Red cross- 99338301 060	Dhanu pali- 0663- 241110 0, Mo- 943718 0107	0664 27009 43731 179
21.	MANE 8455892841	District HQ SBP	13 K m	Dr. T. Panda, Dr. R.K. Mishra, Dr. P.K. Purohit, Dr. B. K. Behera	0663- 2522222	143 beds	Lions Clube/s BP8895921 41, Biswa/S BP- 7894433 319,108, 102	Blood Bank C.D.H Hospit al/SBP, Capaci ty-300 Unit, Ph No- 0663- 240018 0	Sindur panka Police Station -06681- 276363 , 100.	OSAP/S Com A. Singh S) Pl 0663- 24123 24110
22.	HATB 8455892842	PHC/HA TB	01 K m	Dr. B. Shaw, BHMs (Homo Path). J. Nayak.	Dr. B Shaw- 943720552 7, 787397358 3	02 beds	108, 102	NA	JUJA, Mr. B.P. Panda 943715 0576	NA

Contd...P/04

	Name of station & CUG of station	Name of nearby hospital/ nursing home	Distance from station	Name of Doctors	Telephone/Mobile No of hospitals Nursing home/Doctors	Facility Available in hospital Nursing Home & beds	Ambulance contact numbers	Telephone of nearest blood Bank with capacity	Nearest police station & contact Nos of In-charge	Contact Nos of paramilitary
23.	JUJA 8455892843	Govt. Hospital, JUJA	01 Km	Dr. P.K Hota	Ph -06681-257799 Mo-9439986193	16 beds	108	NA	JUJA Mo-9437150576	NA
24.	CHAR 8455892844	CHAR	03 Km	Dr. S Sharma, Dr. S sekhar Bhoi, Dr. Anita Oram.	9439986098 9861787044 8763151692	CHAR	108	RAIR	CHAR 06644-252172	NA
25.	RAIR 8455892845	Govt. Hospital RAIR, Nursing home-Maheshwari RAIR	Govt-03 Km, Nursing home-04 Km	Dr. K.C. Mahanta, Mo-9439985689, Dr. C.K. Modi Mo-8895328028, Dr. S.S Panda Mo-9437117449	Govt. Hospital Ph No- 06644-253031, Maheswari Nursing Ph-9178589370, Dr. C Mahanta Mo-9437656180	Govt.-50 beds Nursing -14 beds	108,102	Ph No-06644-253085, Capacity 500 Unit.	RAIR Police Station No-100, Mo-9437986866, DSP/RAIR No-9437287416	NA
26.	BAMR 8455892846	CHC, Kishor nagar	07 Km	Dr. Laxman Ku Behera Dr. Chitranjan Sahu	Dr. L.K. Behera - 9437480870, Dr. C.R. Sahu - 9438001842	16 beds	108, 102	RAIR Blood Bank, Capacity-500 units, Ph-	Kishore Nagar P.S Ph-06763257028. In-charge D.Kerk	NA

								06644-253085	eta-9437336621	
27.	SRGP 8455892847	PHC/H NPA	14.2 Km	Dr. Subrat Kumar Sahoo	Dr. S. Sahoo Mo- 965466707, 94399137	06 beds	108, 102, 9777 5539 3	RAIR, Capac ity 500 Units 0664425 3085	HNPA- 9439911 550	NA
28.	HNPA 8455892848	PHC/H NPA	140 0 met er	Subrat Ku Sahu	Hospital HNPA Mo- 9658466707 Dr. S. Ku. Sahu Mo- 9439981837	06 beds	108, 102	Blood Bank ANG UL Mo- 97777 55393,	HNPA, Mo- 9439911 550	NA
29.	BONA 8455892849	BONA, PHC 06763- 255499	01 Km	Dr. Pradhan 9438178 646	Ph-06763- 255499, Mo- 9438178646	06 beds	108, 102	ANG L 06764- 23088 0	HNPA No- 9439911 550	NA
30.	JRPD 8455892861	Govt. Hospital ANGL(06 764- 232507), C. Nursing Home- 06764- 231431, S. Nursing Home- 06764236 244, 06764230 771	30 Km	Dr. P. Pradhan , Mo- 9437497 065 Dr. T Ku Sahu Mo- 9437347 967	Perfect Poly Clinic Mo- 9861144405	24 beds with Surgery, Ortho, Medicin e	108, 986123 486999 374570 48	ANG L Ph- 06764- 23088 0, Capac ity- 400 Units	JRPD Police Station (06764- 289155)	NA

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	Name of station &	Name of nearby	Distan ce	Name of Doctors	Telephone /Mobile	Facility Available	Ambulance contact	Telephon e of	Nearest police	Conta t Nos
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	CUG of station	hospital/ nursing home	from station		No of hospitals Nursing home/Doctors	in hospital Nursing Home & beds	numbers	nearest blood Bank with capacity	station & contact Nos of In-charge	of paramilitary
31.	KPJG 8455892862	Govt. Hospital, ANGL(06764-232507)	15 Km	Dr. P. Pradhan, Mo-9437497065 Dr. T Ku Sahu Mo-9437347967	Perfect Poly Clinic Mo-9861144405	24 beds with Surgery, Ortho, Medicine	108, 9861234869 9937457048	ANGL Ph-06764-230880, Capacity-400 Units	Nisha Outpost, 9937241436	NA
32.	TIG 8455892831, 8455892925	RLY Hospital 06655-221519, Govy Hospital-TIG-06655-222999, Jeven Jyoti Nursing Home Ph-06655-220455	500 mtrs	RLY Admo Dr. R. N Panda, State SDMO Dr. Daitari Sahoo	RLY-455886507, SDMO-9439987089.	RLY 02 beds Jivan jyoti nursing Home - 10 beds	108, 102	TIG Mo-9938223122	TIG P.S No-0665820441, Mo-9437670202	NA
33.	KSNG 8455892832	C.H.C KSNG	01 Km	A.S Khan 9853621133	U. M. A Nursing Home Ph-06670-222031, 06670-222008, Mo-9938412626	30 beds	108, 9437327242	Bhawan i patna nearst Blood Bqank Ph-06670-230998	KSNG PH-06670-222004	NA
34.	KDLR 8455892833	Govt. Hospital KSNG,	09 Km	Dr. B. Agrawal	NA	RPRD 04 beds	108, 102, KSNG Ph-	NA	KSNG-100, 06670-	NA

		Dr. B. Agrawal Ph-06670-222031, Mo-9556795498					06670-222004		223611	
35.	RPRD 8455892834	RPRD	300 mtrs	Dr. K. Tirupati Rao Patra	Mo-8599814195	Rajesh Dutta nursing home 04 Beds Mo-9938313831	108 & 102	BWIP Ph-06670230998	NRLR No-7077147382	NA
36.	NRLR 8455892835	Govt. Hospital NRLR	03 Km	Dr. Laxman Panda	Mo-8763488393, 9439980087	08 beds	108, 102	BWIP Blood Bank Capacity 900Unit Ph-06670-234952	NARL A No-7077147382	NA

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	Name of station & CUG of station	Name of nearby hospital/ nursing home	Distance from station	Name of Doctors	Telephone/ Mobile No of hospitals Nursing home/Doctors	Facility Available in hospital Nursing Home & beds	Ambulance contact numbers	Telephone of nearest blood Bank with capacity	Nearest police station & contact Nos of In-charge	Contact Nos of paramilitary
37.	AMB 8455892837 , 8455892928	C.H.C/AMB 8895887881,	01 Km,	Dr. Rajesh Sahu	C.H.C/AMB No-8895887881, Dr.R. sahu/LJR	06 beds	108, 102	108, Sai Ram seva Santhan No-9124109	AMB police Station Ph-06863-244755,	NA

					Ph- 06677- 245024			784	9437881 110	
38.	LJR 8455892836	LJR Ph- 06677- 245024	30 0 me ter	Pramod Ku. Nayak	No- 9937157 497	N A	108, 102	BWIP Blood Bank Ph- 06670- 234952	NRLR Police Station 9438043 232	768283 310570 771473 82
39.	DKLU 8455892838	PHC AMB	11. 7 Km	Dr. Ashish Nath	9938387 368 (AMB)	02 be ds	108	NA	AMB, 06856- 222374	NA
40.	MNGD 8455892839	CHC, MNGD	01 Km	Dr. Manoj Routrai, Mo- 943832886 6	NA	20 be ds	108	NA	MNGD Police Station	NA
41.	BMCK 8455892840	CHC- BMCK, Christian Hospital- BMCK	08 Km	Dr. Pritish Kumar Sethi(BM CK), Hemaprab ha Mohanty(Christion Hos.)	CHC/BM CK- 06863- 247032, Christian Hospital Ph- 06863- 247333, 06863- 247505, P. Kumar- 9439983 512, H. Mohanty - 9439758 855	C HC /B M CK - 16 be ds, Ch rist ian Ho spi tal - 200 be ds	CHC/B MCK, 108, 102 CH. Hospit al No- 06863- 247333	RGDA	BMCK, In- charge Satya Kumar Nanda Mo- 9438260 596, 406863- 245131, 9178668 668.	Sanja y Ku. Tirky Asst. Com mand ant Mo- 943757 6995
42.	THV 8455892872	RGDA Hospital 06856230111 Christian Hospital 06863247 505, BMCK Hos-	RG DA -22 Km , BM CK-	BMCK CHC Dr. Hema Sahoo	RGDA Hospital- 0685623 0111, BMCK Hospital- 0686324	R GD A Go vt. Ho spi tal	108, BMCK Ambulan ce No- 94391275 81	RGDA Blood Bank	Chandili Police Station No-100, 8895048 232	NA

		06863-247032	26 Km		7032, 0686324 7505	Bed available				
43.	BWIP 8455881078	Life Worth Hospital, Govt. Hospital	04.05 Km, 05.05 Km.	Dr. P.P. Nayak Dr. J.L. Agrawal Dr. P. Mund	- 9438611 242 - 9439980 001 - 9439980 002	Govt. Hospital - 230 beds available	108 & 102, Ph- 06670-231460 , 94376242 12	Ph- 06670-234952, Capacity- 1000 Unit	Sadar Thana Ph- 06670-230463, Mo- 7682833 103	RPF Deputy Commandant Mo- 943705 8025
44.	JNRD 8455892047	Junagarh Govt. Hospital	03 KM	Dr. Bhagaban panda Ph- 943752913 3	Nursing Home No- 06670-230201, Local Dr. No- 9439980 260	50 Beds	108, 102	NA	Junagarh P- 06672-2432226, Dr. Ashay Behra - 9439511 36, 0768283 3115.	NA
45.	SBP 8455892816	Sanjivani Hospital	01 Km	Dr. Purusottam Agrawal, Dr. Kabir Purohit.	Ph-0663-2404027, 9437966 900	Ambulance Capacity- 45 Beds	94398919 15943989 1925	Bharat Vikash Parisad No- 9438386 566	SBP-100, Ph-0663-2403224	Ph- 0674-243205 1

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	Name of station & CUG of station	Name of nearby hospital/ nursing home	Distance from station	Name of Doctors	Telephone/Mobile No of hospitals Nursing home/Doctors	Facility Available in hospital Nursing Home &	Ambulance contact numbers	Telephone of nearest blood Bank	Nearest police station & contact Nos of In-	Contact Nos of paramilitary
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						beds		with capaci ty	charge	
46.	JSGR 8455892811	RLY Hospital/JS G No-080- 74100,7410 1, 62525,6252 6. Govt Hospital No-06645- 273104. Sanjivani Hospital No- 7381012341 . City Hospital 9437860480 .	RLY- 01 Km, Govt- 1.5 Km, Sanjiv ani- 1.5 Km, -1.5 Km	Dr. Mahali DMO/RL Y Dr. Ziaul Huq Dr. Lath Dr. A. Sinha Dr. GN. Patel Dr. S.K Kedia Dr. R.K. Singh Dr. Sovana Sahu	- 97775826 64 - 94371638 54 94387174 33 -06645- 270283 - 94371217 17 99377661 18 - 96681062 68 - 94372014 34	Suffi cient	Govt. AMB No- 94384193 20876365 3231 H.Q AMB No- 06645- 273104 , 94371373 46	Dist. Hosp ital/J SG Ph- 0664 5- 2731 04	JSG PH- 06645- 272736	SA P Bat tali on Ph- 066 45- 270 096
47.	BXQ 8455892812	Govt. Hospital/JS G Ph- 06645- 273104,	-07 Km	Dr. D. SahuMo- 9439986890 , Dr. O.P. Patel Mo- 9938617996	Dr. A.K. Das Ph- 06645- 273104, Dr. A. Naik Mo- 943725431 3	100 beds	108, 102, 94384193 20	Ph- 0664 5- 2731 04	BUDM- 06645- 279279 JSG- 876365400 4	OS AP Ph- 066 45- 270 096
48.	LPG 8455892813	Govt. Hospital/R GL Jain Nursing Home	11 Km	Dr. Aswani Sa No- 9938110026 , Dr. A. Naik No- 9437254313	Dr. P.K. JainNo- 943725420 0	A/C Roo m, Bed.	97775797 63 & 108, 102	Capa city 300 Unit	RGL Ph- 0663- 2560519	NA
49.	RGL 8455892814	PHC/RGL Mo- 9938110026 . Jivan Jyoti Nursing Home- 0663256058	PHC/RG L500mete r. Nursing home- 1200	Dr. Aswani Sa Dr. Ashok Naik	- 993811002 6 -	PHC/ RGL -10 beds,	RGL Truck Asso. Mo-	SBP	RGL Police Station No-	NA

		5	meter	Dr. Arjun Naik	9437254313 - 9437201612	Nursing home -02 beds	108, 102, 977757 976		0663-2560519	
50.	SSN 8455892815	Govt. Hospital(Debipali), Amrita Nursing Home(Majhipali)	03 Km	Dr. Rajaram Das, Dr. B.B. Nayak	Govt. No-0663-2456818	02 beds 10 beds	108, 943756 886	Ph-0663-240018 0-SBP	SSN Police Station-Ph-0663-2456608	NA
51.	SLRA 8455892863	Dist. HQ Hospital/SBP, Sparsh Nursing home/SBP	6.5 Km	Dr. purusottem Agrawal, Smt. Manasi sahu	Dist. HQ Hospital, SBP Ph-0663-2522222, S. Nursing home Mo-9437966900, Sparsh Nursing home-9776846969	I.C.U Facility	108 & 102	Ph-0663-2400180	(Aithapali)Police Station Ph-0663-2540092	NA

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Name of station & CUG of station	Name of nearby hospital/ nursing home	Distance from station	Name of Doctors	Telephone/Mobile No of hospitals Nursing home/Doctors	Facility Available in hospital Nursing Home & beds	Ambulance contact numbers	Telephone of nearest blood Bank with capacity	Nearest police station & contact Nos of In-charge	Contact Nos of paramilitary
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52.	HKG 8455892817	Govt. Vimsar Medical College, Burla	05 Km	Sunanai Bag Director Burla College Ph-0663-2430511	Burla College Ph-0663-2430511	500 beds	MCL No-0663-2542762, 108, VSS-Ph-0663-430511	Burla Medical Blood Bank Ph-0663-2431420, Mo-9437257 983	Burla Police Station Ph-0663-2430444	GRP Ph-0663-25219 61, 62324, RPF Ph-0663-24009 03, 62222
53.	GBQ 8455892818	Burla Govt. Hospital Ph-0663-2430511	13 Km	NA	Dr. A. Hota Mo-9438385481	NA	108, 102	Burla Ph-0663-2430420	Burla police Station Ph-0663-243044	NA
54.	ATS 8455892819	Shree Om specialty/ ATS 94376471 00, Arogyam Hospital - 94371930 76	-02 Km -2.5 Km	Dr. Pradeep Ku. Majumdar/ATS Mo-9439982680	Aarogyam Hospital, Dr. Ajit Ku. Barik Mo-9437193076	08 beds	108	Red Cross Blood Bank, BRGA Ph-06646-2343140	ATS/P.S, Sri Subrat Ku. Behera Mo - 9437264670	NA
55.	BRPL 8455892821	CHC/BR PL	1.5 Meter	Dr. Saroj Seth	Ph-06646-256265	35 beds	108, 102	NA	BRPL P.S Ph-06646-25670 9, Mo-94370 29170	NA
56.	DJX 8455892822	DJX Govt. Hospital	03 Km	Dr.P.C. Biswal Dr. K.R. Raw Dr. S. Pradhan Dr. I. Ratu	-9439987199 -9437145942 -9437273409 -9439878503	NA	108, Ph-06653-270372	NA	DJX Police Station Mo-94378 58065	NA
57.	KHPL	Govt.	02	-	06653-	06	108,	NA	06653-	NA

	8455892823	Medical 97777710 13	Km		270352, 06652-232790	bed	102, 89084779 70		27403 4 06653- 27030	
58.	LSX 8455892824	Govt. Medical 97777710 13	03 Km	-	06653- 270352, 06652-232790	06 bed	06652- 232790 89084779 70	NA	06653- 27403 0	NA
59.	BRGA 8455892820 , PH-62544	Mission hospital Tora,BR GA, Purohit Naurshin g BRGA.	1.5 Km. 03 Km. 02 Km.	Dr. G Agrawal, Dr. R.B Rana, Dr. JS Sharma. Dr.S Sahu, ADMO.	06646232402, 8895047310 06646-2344 9937317866 06646- 232804, 233922.	120 Bed. 50 bed. 40 bed. 50 bed.	108, 102 768395682 1, 955678695 9, 977757054 2	06646- 62341 04, 800 Unit.	BRG A. 06646- 23302 0 100, 94385 08555, IRB Battal ion- 06646 21462	CRP F- 0664 - 4621

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Annexure - 13

TELEPHONE NOS & DETAILS NDMA/NDRF BATTALIONS NDRF Head Quarter,
(Sector-1 R K Puram,New Delhi)

Name	Designation	Address	Telephone No.	Fax No.	Mobile No.	E-Mail
Shri O.P.Singh (IPS)	Director General	Directorate General , NDRF , Sector-1 R K Puram,New Delhi -66	011- 26712851 011- 26161442	011- 26715303	-	dg.ndrf@nic.in

Name	Designation	Address	Telephone No.	Fax No.	Mobile No.	E-Mail
Shri Sandeep Rai Rathore (IPS)	Inspector General	-- Do --	011-26160252 011-24106667	011-26105912	09540610101	ig.ndrf@nic.in
Shri Venugopal V.	FA NDRF & CD	-- Do --	011-26160366 011-24677533	011-26105912	09868880247	vgv11@rediffmail.com
Shri.J.K.S.Rawat	Deputy Inspector General (ADM)	-- Do --	011-26105910 011-26260369	011-26105912	09968262466	dig.ndrf@nic.in
Shri. S.S Guleria	Deputy Inspector General (Ops & Trg), Deputy Inspector General (East /North East Sector)	--Do--	-	-	7042167700	dig.es.ndrf@nic.in
Shri Randeep Kumar Rana	Deputy Inspector General (Proc & Comm), Deputy Inspector General (Central Sector)	--Do--	011-26166559	-	09999513134	dig.ns.ndrf@nic.in randeep1576@gmail.com
Shri. S.P. Selvan	Deputy Inspector General (South Sector)	--Do--	-	-	09444192963	dig.ss.ndrf@nic.in
Shri Keshav Kumar	Second in Command (Operation&Training)	-- Do --	011-26181519	011-26105912	09015243611	keshavkumar128@rediffmail.com
Shri Sudhir Thapa	Inspector Control Room	-- Do --	011-26107953	011-26105912	09711448595	-

NDRF BNS

01	Sh. A.K.Singh	Commandant	1st BN NDRF,Patgaon PO- Azara,Guwahati	0361-2840027	0361-2849080	09401048790	ndrf01@yahoo.ocm.in, ndrf01@hotmail.com
02	Sh. Sukhdev	Commandant	2nd BN	033-	033-	08017166651	comdt106@bsf.nic.in,

	Raj		NDRF,Haringhata, Mohanpur,Nadia, (West Bengal) Pin-741246	25875032	25875032		bnndrf106@rediffmail.co 2ndndrf@gmail.com
03	Sh. M.K.Yadav	Commandant	3rd BN NDRF, PO-Mundali, Cuttack-Odisha Pin-754006	0671- 2879710	0671- 2879711	09439103170 09437964571	bn-4th@cisf.gov.in, ori03-ndrf@nic.in
04	Sh. M.K Verma	Commandant	4th Bn NDRF, PO-Suraksha Campus, Arrakonam, Distt. Vellore,Tamilnadu	04177- 246269	04177- 246594	09442105169(M)	rb_6th@cisf.gov.in tn04_ndrf@nic.in mkverma97@gmail.com
05	Sh.Alok Avasthy	Commandant	5th Bn NDRF,Sudumbare Taluka,Distt- Maval Pune(Maharashtra) Pin-410507	02114- 247010(O)	02114- 247008	09423506765	145crpf@gmail.com
06	Sh.R.S Joon	Commandant	6th Bn NDRF, Chilora Road, Gandhinagar, Pin- 382042	079- 23202540	079- 23201551	09428826445	comdt6ndrf@gmail.com
07	Sh.Jaideep Singh	Commandant	7th Bn NDRF, Bibiwala Road, Bhatinda (Punjab) Pin 151001	0164- 2246193	0164- 2246570	09417802032	comdt.27thbn@itbp.gov. 7thbnndrfbathinda@gmail.
08	Sh. P.K.Srivastava	Commandant	8th Bn NDRF, Kamla Nehru Nagar, Ghaziabad (UP) Pin -201002	0120- 2766013	0120- 2766618	09968610014	eighthndrf@yahoo.com ndrf.108@gmail.com
09	Shri Vijay Sinha	Commandant	9th Bn NDRF, Bihata Patna, Bihar Pin - 801103	06115- 253942	06115- 253939	07762884444	ndrfpatna@gmail.com, ndrfpatna@yahoo.com
10	Sh.Parshant Dhar	Commandant	10th Bn NDRF, Manglagiri, Vijaywara(AP) Pin-522510	0863- 2293178	0863- 2293050	09419217790	Commandant10thndrf @gmail.com

03BN NDRF
MUNDALI,CUTTACK(ODISHA)

S.NO.	RANK	NAME	PHONE /MOBILE NO.	
01	COMMANDANT	SHRI M .K. YADAV	0671-2879710 (O) 09439103170 09437964571	<u>bn- 4th@cisf.gov.in, ori03- ndrf@nic.in</u>
02	Asstt.Commandant/Ops & training	Shri A. K. Pattnayak	9437964570	-
03	Asstt.Commandant	Shri B K Das	9437964574	--
04	<u>NDRF Control</u> Room,Mundali,Cuttack	--	06712879711 9937187222	--

Annexure - 14

STATE GOVT. EMERGENCY & OSDMA TELEPHONE NUMBERS

Telephone No. of the officers & Staff of OSDMA
PABX-0674-2395398/2396901, FAX- 0674-2391871
E-mail: osdma@osdma.org, Website: www.osdma.org

Sl. No	Name of officers / staff	Designation	Res. No	Mobile No	OSDMA Ext. No/ PBX No	E-mail ID
1.	Pradipta Kumar	Managing Director	Nil	8763939511	301/3004	md@osdma.org

	Mohapatra					
2.	Sri Padmalochan Behera	Consultant, ODRP		9438851763		ed@osdma.org
3.	Sri Gobinda Chandra Mangual	Executive Director (Projects)		9437021600	218	edp@osdma.org
4.	Sri Arabinda Mishra	Chief General Manager (F&A)		9438306345	206/3006	cgmfa@osdma.org
5.	Sri Prasanta Kumar Prusty	General Manager (Mechanical)		9861038374	203	gmmecc@osdma.org
6.	Sri Sibasish Padhi	General Manager (Projects)-IV		9437232998	219	gmp4@osdma.org
7.	Sri Manmohan Mohanta	General Manager (Projects)-V		9437136555	215	gmp5@osdma.org
8.	Sri Goutam Chandra Das	Deputy General Manager (Projects)-I		9438619605	204	dgmp1@osdma.org
9.	Sri Tapan Kumar Mohanty	Deputy General Manager (Projects)-II		9437350547	241	dgmp2@osdma.org
10.	Sri Sribhusan Sukla	Chief General Manager-I		9238365495	207/3007	cgm1@osdma.org
11.	Dr. Kamal Lochan Mishra	Chief General Manager -II		8763354637	239/3011	kamalmishra66@gmail.com
12.	Sri Subhendra Kumar Nayak	General Manager		9437281061		gm@osdma.org
13.	Sri Prasanta Kumar Nayak	Deputy General Manager (T&C)		9437170179	200	prasantanayak26@yahoo.in
14.	Sri Ashok Chandra Rout	Accounts officer		9438304082	231	

15.	Sri Someswar Brahma	Jr. Accountant		8763294214		
16.	Sri Jnanendra Kumar Mohanty	Jr. A/C. Assistant		7377355168	209	
17.	Sri Ananta Kishore Sahoo	Accountant		9437377716	229	
18.	Sri Haraprasad Mishra	Jr. Assistant		9438185232	210	
19.	Sri Prakash Chandra Jena	Sr. PS to Managing Director		9437411774	208/3004/0674-2395531	
20.	Sri Bholanath Mishra	GIS Expert & Environment Specialist		9437106251	237	bnmishra.osdma@gmail.com
21.	Sri Arabinda Ray	System Expert & MIS Specialist		9437106252	217 /233	aray@osdma.org
22.	Sri Krushna Chandra Bisoi	Shelter Coordinator & Social Management Specialist		9437179693	207	krushna.bisoi@gmail.com
23.	Er. Manoj Kumar Nayak	Engineering Consultant (Water Resources)		9437283139	236	
24.	Er. Sanat Kumar Chatterjee	Engineering Consultant (Roads & Buildings)		9937384096	234	
25.	Er. Bishnu Ch. Majhi	Procurement Specialist	2721949	9437151949	234	
26.	Sri Simanchal Pattnaik	State Project Officer, UNDP		9437089446		
27.	Sri Meghanad Behera	City Project Coordinator, UNDP		9438281225	238/3009	

Annexure - 15

TELEPHONE NUMBERS OF SENIOR STATE GOVT OFFICERS OF ODISHA

Sn	DESIGNATION	OFFICE	RESIDENCE	FAX
1	Chief Secretary	2534300 / 2322196 / 2536700	2534400	253660
2	Secretary to CM (CM's Secretariate)	2536682 / 2322164	2436096	2535100
3	Spl. Secretary to CM	2401103		
4	Principal Secretary (Home)	2531515 / 2322461	2531721	2402115
5	Director General (Police), Cuttack.	2301151 / 2306501	2304662 / 2306607	2304033
6	Inspector General Police, (Rly), Cuttack	2610254	2307500	
7	Commissioner-cum-Secy. (Inf. and Public Relation)	2536736	2556588	
8	Commissioner-cum-Secy. (FP. Medical/Health)	2536632 / 2405235	2530152	2400674
9	Commissioner-cum-Secy. (Revenue)	2400450 / 2322658		2402540
10	Special Relief Commissioner	2536721 / 2607346	2535232 / 9437005121	2415292
11	Managing Director (OSDMA)	2395379/2395398-Extn: 208	2556000 / 9937099099	2391871 / 2396681
STD CODE : BHUBANESWAR – 0674, CUTTACK – 0671				

Annexure - 16

TELEPHONE NUMBERS OF SENIOR STATE GOVT OFFICERS OF ANDHRA PRADESH

STD CODE : 040				
Sn	DESIGNATION	OFFICE	RESIDENCE	FAX
1	Chief Secretary	23455340	23415388	23453700

2	Principal Secretary to CM (CM Secretariat)	23454664	23400920	23454828
3	Special Secretary to CM	23453856	23412387	23452421
4	Principal Secretary (Home)	23452143	23544471	23450175
5	Director General(Police)	23235170	23412951	23244211
6	Addl. Director General Police (Railway)	23235408	23545780	
7	Commissioner (INF and PR)	23399247	23350258	23314482
8	Commissioner (Family Welfare Medical/Health)	24650365	55776441	24652267
9	Special Chief Secretary (Revenue)	23455030	23548004	23452835
10	Commissioner Disaster Management	23456005	23352451	23452044
11	Managing Director APSRTC	27615983	23542334	27617135

Annexure - 17

TELEPHONE NUMBERS OF SENIOR STATE GOVT OFFICERS OF CHATTISGARH

STD CODE : 0771			
Sn	DESIGNATION	OFFICE	RESIDENCE
1	Chief Secretary	2221207 / 2221208	2331068 / 2331015
2	Joint Secretary (CM & GA)	2221204	2242514 / 2244427
3	Dy. Chief Secretary to CM	2331004	2331018
4	Secretary (Home)	2221327 / 2221331	23221255
5	Director General	2331201	2272616 / 2274517
6	Dy. Insp. General (Railway)	2331221	2331250
7	Secretary (Information)	5080276 / 5066205	9827146202
8	Joint Secretary (Health)	2221625	9826178832
9	Secretary to Governor	2331102	2331077

Annexure - 18

TELEPHONE NO OF CIVIL ADMINISTRATION OF STATE GOVT (DISTRICT WISE) OF ECoR

Sn	Name of District	Std code	Collector & District Magistrate	Mobile Number	Emergency officer	Control room	FAX
1	Khurda Road	06755	220002	09438485724	220002	220002	06755221567

2	Puri	06752	222034	09437082440	223237	223237	0675222 3939
3	Cuttack	0671	260810	09437672601	2507842	260784 2	0671230 1103
4	Jagat Singhpur	06724	220379	09437217138	220368	220368	0672422 0299
5	Kendra pada	06727	232602	09437364475	220004	232803	0672722 1603
6	Jaipur	06728	222001	09437077133	222648	222648	0672822 2087
7	Bhadrak	06784	250436	09438728900	251881	251881	0678425 0880
8	Dhenkanal	06762	225601	09861442411	226507	226507	0676222 5717
9	Angul	06764	230567	09439853561	230980	230980	0676423 0685
10	Ganjam	06811	263700	09437136925	263978	263978	0681126 3344

Sn	Name of District	Std code	Collector & District Magistrate	Mobile Number	Emergency officer	Control room	FAX
1	Srikakulam	08942	222555	0949061282 7		222209	
2	Gajapati	06815	222397	0943707810 0	222943	222397	
3	Vizianagaram	08922	276720	0949019466 6		236947	
4	Visakhapatnam	0891	2509865	0984816951 0		2563121	
5	Koraput	06852	250700	0943987552 7	251381	251381	06852250466
6	Rayagada	06856	222354	0876324367 8	224062	224062	06856222770
7	Bastar	07782	228581				
8	Dantewada	07856	252455		252206	252233	

Sn	Name of District	Std code	Collector & District Magistrate	Mobile Number	Emergency officer	Control room	FAX
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1	Sambalpur	0663	2400222	09437092 278	2412407	241240 7	06632404006
2	Angul	06764	230567	09439853 561	230980	230980	06764230685
3	Bargarh	06646	232340	08895955 935	232112	230041	06646232840
4	Sonepur	06654	220201	09437761 571	220362	220363	06654220345 06654220362
5	Bolangir	06652	232223	09437313 919	232452	232452	06652233082
6	Nawapara	06678	223463	08018362 773	223357	225357	06678225465
7	Rayagada	06856	222354	08763243 678	224062	224062	06856222770
8	Kalahandi	06670	230201	08658493 497	230455	230455	06670230303
9	Maha Samund	07723	222540		230455	223155	
10	Raipur	0771	2426024		2421812	424034 3	

Annexure - 19

TELEPHONE NOS OF FLOOD CONTROL CENTRES OF ODISHA

Designation	Office	Res/Mobile	FAX
Flood Control Room	06742301048	-	2395953
EIC water Resources	06742390180	2565378	2392486
CE & BML, Mahanadi Basin	06742390185	2420402	2395953
CE & BMU, Mahanadi Basin	06632430866	2430899	2430877
Flood Control Room MUNDALI	0671-2381966	06632430292	-
CE & BM Rushikulya	06802204244	2202366	2207933
CE & BM Bramhani Rt Basin	06762223264	223283	223263
CE & BM Bramhani Lt Basin	06760266333	266345	266336
CE & BM Baitarani	06792252206	253487	253310
CE Upper Indravati	06658224276	224286	224238
CE OHPC Upper Indravati	06658224211	242294	242321
SE Hirakud Dam Circle	06632430001	2430002	2430877
CIE Civil	06632394804	2547178	2395982
Director(O) OHPC	06742541315	2300259	2542102
Director NIC	06742544132	2544243	2544132
Director Monitoring	06742544132	2544243	2544132

Annexure - 20**IMPORTANT TELEPHONE NUMBERS OF HOME GUARDS AND FIRE SERVICE ESTABLISHMENT:-****ODISHA**

Sn	Officers	Code	Fax	Office	Residence	Mobiles
1	D. G. P. F. S. (O)	0671	2300317	2304317	2304311	9437031695
2	Addl. C. G. HGS & FS / IGPFS	0671		2300584	2556855	9437463322
3	D. I. G. F. S. (O)	0671	2300584	2300360	06742556855	
4	J. S. O. HGs	0671	2303387	2303387	2360776	
5	ESTT. Officer	0671	2303172	2303172		9937671905
6	F. O. (O) CTC	0671		2306409	2304995	9437394201
7	F. O. (Pr) / BBS	0674		2560785	2561305	9439503165
8	D. F. O. NR / SBP	0663		2521626	06632405477	9439214570
9	D. F. O. SR / BPR	0680		2220028	06802220766	
10	D. F. O. HQ / CTC	0671		2307969		9437276545
11	D. F. O. CH / CTC	0671		2307969		
12	D. F. O. FPW / BBSR	0674		2312020	2434797	9437780921

Annexure – 21**TELEPHONE NUMBERS OF FIRE STATIONS IN A P & C G PORTION OF ECOR**

Andhra Pradesh (A P)		
Srikakulam Dist.		
Srikakulam	08942	222099
Narasennapeta	08942	276777
Ichhapuram	08947	231101
Palasa	08945	241101
Sompeta	08947	234107
Tekkali	08945	244277
Vizag Dist.		
Kotavalasa	0891	258470
Vishakhapatnam	0891	270585

Chattishgarh (C G)		
Mahasamund Dist.		
Mahasamund	07723	222090
Bagbahar	09826662967	
Bastar Dist.		
Jagdalpur	07782	222454
Dantewara Dist.		
Dantewara		
Banheli	07857	230349
Raipur Dist.		
Raipur	0771	241201

Annexure – 22

Details of Indian Metrological Department (Cyclone Detection & Warning center) are as under:

Sl No	Name of Officers/Designation and Location of Deployment	STD Code	Telephone no (O)	Mobile No.	Fax Nos.
1.	Sri V. L. Prasad Rao, Director, Vishakhapatnam	0891	2543038 2717118 (R)	0984846281	2543037
2.	Sri S. Venkateswarlu Director, Vishakhapatnam	0891	2543033 2543041 (R)		2543036
3.	Director, IMD, Bhubaneswar	0674	2534627, 1534737	9437485328	2530203
4.	Director, Cyclone Detection Center, Bhubaneswar	06722	222147		
		0671	2376051	Paradeep	
5.	Cyclone Detection Center, Bhubaneswar		2534386, 2534985		

Annexure - 23**TELEPHONE NUMBERS OF ARMY, NAVY, AIR FORCE OFFICIALS**

Unit	Name & Address	Phone Number
Nodal Officer (Air Force, Navy & Army)	Director (Operational logistics), HQ Integrated Defence Staff, Ministry of Defence	011-23017897 (O) / 011-25686071 (R) 9810856633 (Mob)
Navy	Naval HQ (War Room, Director of Naval Operation)	011-23017616
Navy	Duty Officer (Maritime Operations Centre), HQ WNC, Mumbai	022-22630550 / 22630344
Navy	Duty Officer (Maritime Operations Centre), HQ ENC, Visakhapatnam	0891-2577240
Navy	Duty Officer (Maritime Operations Centre), HQ	0484-2662793

	SNC, Kochi	
Coast Guard	Operations Officer/Indian Coast Guard / HLZ	03224-263217
Coast Guard	Communication Centre/Indian Coast Guard/ HLZ	03224-263407
Army	Station HQ / Jamshedpur	0657-2431633
Army	Station HQ / Kolkata	033-22430326
Army	Commandant / Chandipur / Balasore	06782-262031 (R)
Air Force	Eastern Command	0364-2223900 / 2561461
Air Force	Chief Operations Officer	03222-232176
Air Force	Air Force Station / Kolaikunda	(Ext. 207 (O), 227 (R)
	Chief Administrative Officer	232176 Ext. 203 (O) 223 (R)
	Sr. Medical Officer	232176 Ext. 261 (O)
Air Force	Chief Operations Officer / Barrackpur	033-25921251
Air Force	Radar Station / Salua / Paschim Midnapur	03222-277240

TELEPHONE NUMBERS OF PARA MILITARY ESTABLISHMENTS

Unit	Name & Address	Phone Number
CISF Unit	Libiyan Tee Ware House (LTW)	033-2439138 / 2439735
CISF Unit	CISF Unit, CPT, Kolkata, New Traffic Building, 40 CGR Road, Kolkata-43, NEZ / Kasba Control Room	033-2443068
BSF	DIG Office, South 2B Lord Sinha Road, Kolkata-71	033-2577887
BSF Unit	BSF Control Room	25778872
CISF Unit	Haldia CPT	03224-252228 / 252457 / 252328
CISF Haldia	Commandant, CISF / Haldia	03224-252229 (O) / 263335 (R)
EFR	Commandant, EFR Salua, Kharagpur	FAX -03222-277238

Annexure – 24**TELEPHONE NUMBERS OF & AIR STATIONS OVER ECOR****TELEPHONE****NUMBERS OF PRIVATE TV CHANNELS**

STATE	S N	NAME OF STATION	TELEVISION STATIONS	AIR STATIONS
O R I S S A	1	BHUBANESWAR	0674-2301048	2511350
	2	CUTTACK	0671-2315600	2301438
	3	SAMBALPUR	0663-2404868	2410507
	4	BHAWANIPATNA	06670-230911	230911
	5	BERHAMPU R	-	-
	6	JEYPORE	-	-
	7	KEONJHAR	-	-
	8	BARIPADA	-	-
	9	BOLANGIR	-	-
A P	1	VISHAKHAPATNAM	0891-2549109	2564260
C G	1	RAIPUR	0771-2283852	2423520
	2	JAGDALPUR	-	-

1	ZEE NEWS (D.N.Singh)	0674-2417078
2	AAJ TAK (Samser Singh)	0674-2536988
3	NDTV / TV	0674-2561176
4	OTV	0674-2303375
5	ETV (K.B.Rao)	0674-2506208
6	ETV/VSKP	0891-255221, 2535566

TELEPHONE NUMBER OF NEWS AGENCIES

1	UNI	2536776
2	PTI	2530535 / 2530602
3	PIB	2411360

Annexure - 25**NAME OF THE AIRSTRIPS MAINTAINED BY STATE GOVERNMENT**

SN	Name of the Airstrip	District	Coordinates	Elevation in feet	Runway Direction	Length & Breadth	Type of surface	Distance in N.M
1	2	3	4	5	6	7	8	09
1	Barbil	Keonjhar	2207 N / 8524 E	1000	18/36	3000 X 150	Kuchha	113

2	VSKP	VSKP						
3	Birasal	DNKL	2059 N / 8541 E	260	09/27	3000 X 150	Kuchha	42
4	Hirakud (Jamadarpalli)	SBP	2135 N / 8400 E	681	15/33	3600 X 150	Tarma- Cadam	130
5	Jaypore	Koraput	1852 N / 8233 E	1950	16/34	3000 X 50	-do-	201
6	Raisuan	Keonjha r	2140 N / 8535 E	1500	18/36	3000 X 150	-do-	87
7	Nawapada (Gotma)	Nawapa da	2052 N / 8230 E	1058	18/36	3286 X 600	Kuchha	191
8	Padmapur (Sativata)	Bargarh	2102 N / 8302 E	650	11/29	3500 X 180	-do-	165
9	Phulbani (Gudari)	Kandha mal	2027 N / 8416 E	1734	18/36	3500 X 150	Tarma- Cadam	90
10	Rairangpur (Dandbose)	Mayurb hanj	2218 N / 8607 E	950	18/36	4000 X 100	Kuchha	126
11	Rangeilunda (Gopalpur)	Ganjam	1918 N / 8452 E	100	18/36	3442 X 200	Tarma- Cadam	76
12	Tusra	Bolangir	2030 N / 8326 E	550	06/24	4000 X 150	-do-	135
13	Utkela	Kalahan di	2005 N / 8310 E	750	04/22	3000 X 150	-do-	152

NAME OF THE AIRSTRIPS MAINTAINED BY OTHER AGENCIES

1	Rourkela	Sundergarh	2216 N / 8449 E	655	09/27	4000 X 100	Tarma - Cadam	139
2	Therubali	Koraput	1920 N / 8325 E	785	03/21	4000 X 200	-do-	140
4	Sukinda	Jajpur	2101 N / 8545 E	400	06/24	2925 X 130	-do-	48

TELEPHONE NOS OF VOLUNTEER ORGANISATIONS & NGOS

Action aid India, Regional Office Orissa, Plot No. 331/A, Sahid Nagar Bhubaneswar-751007,
Orissa Tel/Fax: 0674-2544503/ 2544224/2502279 www.actionaidindia.org

DFID, 17 Forest Park, Bhubaneshwar - 751 009 Telephone : (+91) (674) 2533 359 / 2530 512
Fax : (+91) (674) 2530 228 www.dfidindia.org

State NGO Coordinator, Deptt. Of Health & FW Government of Orissa Bhubaneswar (Orissa)
Telephone: (0674) 2322411, Email : manu2orissa @ yahoo .com

Pragati Samaj
AT/PO-Dalakasoti , Via-Balipatana Pin-752102 , email:pragatisamaj@gmail.com

Centre for Health And Social Development" (CHSD)
At/Po: Rajiv Nagar, Plot No Mig-95, Aiginia, Khandagiri, Bhubaneswar,
E-mail-chsdorissa@gmail.com

Nilakantha Yubaka Sangha, AT/PO-Dalakasoti Via-Balipatana, Khurda, Pin-752102
email:nilakantha.ys@gmail.com, Phone: 09937936565

Centre for Environmental Studies (CES), N2/150, Nayapalli Government of Orissa. Bhubaneswar
- 751 015,Tel : 0674-2551853 Fax : 0674-2400681 Website : <http://www.cesorissa>

Centre of Youth and Social Development,
E-1, Institutional Area, Bhubaneswar Orissa, India - 751 013, Tel # + 91-674-2301725 / 2300774,
E-mail : cysdbbsr@sanchamnet.in , www.cysd.org

UNDP , Orissa 256 Forest Park, Bhubaneswar-9, Orissa Ph: 2534755,534850,534851,
Fax: 534754 , www.undp.org

Ruchika Social Service Organization, G-6, Ganganagar, Unit-VI, Bhubaneswar, Pin :751001,
Orissa, India Office: 91 . 674 . 2532611 Home: 91 . 674-2432956 Fax: 0674-2535214, Emails:
rssobbs@hotmail.com info@ruchika.org www.ruchika.org

RESO:- Rural Educated Student Organisation , Sananuagan, Retang Rly Staion, Dist- Khurda.
Secy-919438186412. (Social works)

Orissa Khadi And Village Industries Association, Plot No.805 &823(P), At Jaidev Vihar P.O. RRL,
Bhubneshwar-751013,

Shanta Memorial Rehabilitation Centre, 108 - D, Master Canteen Bldg Station

Unit-III, Bhubaneswar - 751 001 Orissa, Phone: 0674 - 2506234

HELPAGE INDIA, Plot No. 1488/2536 N-4 Area IRC Village, Nayapalli-1374 AT P.O. Bhubaneswar (Orissa) – 751015, Tel.No.: 0674-2559644, www.helpageindia.org

People's Rural Education Movement, Marella Gardens Berhampur - 760 005 Ganjam, Orissa
Phone : 0680 - 204338, 200111, 242401

Nigamananda Education Centre, AT/PO Bhajannagar Defence Colony P.O. Baunsalundi Bhanjanagar Ganjam – 761126 Orissa, Phone : 06821 – 43040

Lower Income People's Involvement for Community Action, Ambapua At post.Engineering School Behrampur -10 Ganjam, Phone : 0680 - 202753, 270001, 270306 Fax : 0680 – 202753

United Artist Association, AT/ PO Ganjam, Ganjam - 761 026 Orissa,
Phone : 06811- 64314 Fax : 06811 - 64314, 64255

Gram Vikas, Mohuda Village Via. Berhampur - 760 002 Dist. Ganjam Orissa Phone : 0680 - 220 9755 / 220 9757 / 222 2756 / 222 2758 / 222 2759 / 222 1760 / 222 2761 / 222 1763 Fax : 0680 - 220 9754.

SAHAYA, At. Matala Bur PO Kasabenty Brahmagiri - 752 011, PURI, Orissa,
Tel : 6752- 235881

Dahikhai Jubak Sangha, AT PO Lodhachua Nayagarh- 752 026, Puri, Orissa
Tel : 06755-28243 Fax : 06755-28243

Committee for Legal Aid to Poor (CLAP). Address: 367, Markat Nagar, Sector-6, Cuttack- 753014, Orissa, India. Phone: 0671-2363980, 2365680, Fax: 0671- 2363980

WWF-INDIA, BDA Market Complex, Tankapani Road, Bhubaneswar – 751018
Director Phone : 0674 – 2434750

YOJANA, Youth On Justice and National Actions 41, Ekamra Villa Jaydev Vihar Bhubaneswar - 751 015, Orissa , Phone : (0674) 555823, 557824

Gania Unnyan Committee, at/P.O. Belapadapatna, Dist. Nayagarh, Orissa, Pin - 752 085 Tel/Fax: 06757-226022, E-mail - gucorissa@yahoo.com.

Bal Jagruti Association, 462- Sabar sahi, Nayapalli, Near new AG colony, Bhubaneswar, Contact - Ranjan Kumar Biswal, Joint secretary
M 9337106883, 9337113458, Telefax-011-26045638, Ph-01155969453, (M) 9810153006

Committee for Legal Aid to Poor (CLAP), Address: 367, Markat Nagar, Sector-6, Cuttack, Phone: 0671-2363980, 2365680 , Fax: 0671- 2363980,

ADHAR, At/P.O. Loisingha Dist. Bolangir - 767 020 Orissa, Phone: 06653 274525/125, E-mail: info@adharvo.org ; adharbolangir@gmail.com <http://www.adharvo.org>

Nature and Wildlife Conservation Society of Orissa, Mayur Bhavan Janpath Saheed Nagar Bhubaneswar – 751007 , Phone : 0674-253840

Akhil Bharat Anusuchit Jati Parishad, Orissa State Branch D S 11 / 19, Unit 4, Bhubaneswar Phone : 06655 – 20567 .

Gobind Bhavan, Suryvihar, Link Road, Badambadi, Cuttack. sumanta.swain@gmail.com priyabratamajhi@yahoo.co.in O-9437110714

Home and Hope, A school for the mentally retarded, Sector-17, Rourkela- 769003 Ph-0661-2642140

Parents Association for the Welfare of the Mentally Retarded, Rourkela, C/O Home and Hope, Sector-17, Rourkela- 769003, Phone-0661-2475393,

SURAVI - Sustainable Rural Actions thru Voluntary Initiatives, Estd. : 1993, Address: HIG-138, Sailashree Vihar, Bhubaneswar-751021 (Orissa), India URL : www.suravi.org ; Phone: 91-94371-90444, 91-0674-2532646 e mail: suraviteam@yahoo.com

FXB India Society, At- Res No C-1, Lingaraj Vihar Market Complex Pokhariput, Bhubaneswar Orissa. Pin - 751020 Tel: (+91) 0674 238 2287 (www.fxb.org)

Smt.Nandini Satpathy Memorial Trust, 107,Surya Nagar, Bhubaneswar,Orissa,India Telephone : +91.674.253.6444, F: +91.674.253.6262, web site: www.snsmt.org

SUPRATIVA, Fakirpada, Biribati, Cuttack-754100, Orissa, India, Phone: 91 671 2445251, & Fax 2115699, Email: suprativa@sify.com, Website: www.suprativa.org

A E R W D – 25, Budheswari Colony, Bhubaneswar, Khurda, 09437325024.

Agency for Backward Community Development – Bhubanpur, Puri – 752011, Tele-06752213121.

Academy Of Bioresource Development – Acharya Vihar, BBSR, 0674-6538664, Bhubaneswar

Adarsh Charitable Trust – Khalikot, Ganjam-761030, 06810-256648,

Agricultural And Rural Development Consultancy Society – N6/322, Jaydev vihar, 751015, Bhubaneswar, 0674-553062, 552468.

Akss – Sevanchal, Kanas, Puri-752017, 0674 – 3268020.

Anchalika Sarvodaya Seva Pratisthan – Mandosil, Bargarh-768050, 0668-4232313

Anu Shanti – Hil Patna, Berhampur, Ganjam-760005, 06812-202036.

Arun Institute Of Rural Affairs – Karmala, Mahimagadi, Dhenkanal-759014, 0672-289809.

Asardi – Nayapalli, Bhubaneshwar-751012, 094379 22499.

Asets Pipili, At, PO-Pipili, Puri-754104, 09861127075.

Asha – Sirtol, Behind Kendu leaf Godown, Nuapada-766107, 06678-223118.

Asian Foundation – Aradhana Building, Giri Road, Berhampur-760005, 09861007344.

Association For Human Rights Education And Development – Khariar , Nuapada, 766107, 06671-232862.

Association For Neglected Group And Evangelical Leadership – By pass Road, GOVT. Hospital, Sambalpur, 094375 34752, 09937606561.

Association For Social Transformation In Human Action – Sikharapur, College Square, Cuttack-753003, 06711-2641284.

Astha – Bhubaneswar, 0674-2371073.

Asylum To Indigent Masses Of The Society – Jagannath Lane, Badambadi, Cuttack-753012, Tele no - 094379 85888.

Awareness – F-16, BJB Nagar, Bhubaneshwar, 0674-2433493.

Bassanta – Bairagipalli, Kabaripalli, Sambalpur, 0663-284076

Basundhara – Bidanashi, Cuttack-753014, 0671-2603178

Centre For World Education Services – Convent School Road, Rayagada-765001, Tele no - 09437095990.

Community Action For Rural Development – Sikhyakapada, Angul-759122, Tele no – 06764-230640.

Council For Awareness And Rural Development – At/PO- Susua, Via- Agnapal, Bhadrak-756116, Tele no – 06784-266616.

Dove – Bazarpada, Angul, Tele no – 06764-237306.

Ekta – 1st lane, Koraput- 764020, Tele No- 06852-250842.

Evangelical Hospital Khariar – At/PO: Khariar, Nuapara-766107, Telephone –06671-32282.

Fellowship – Women's College Road, Bhadrak-756100, Tele no- 06784-250189.

Friends Association For Rural Reconstruction – At/PO: Muniguda, Pin – 765020, Tele no- 06863-25235, 06670-230105.

Gajapati Vikas Manch – At: Erdola Street, Paralakhemundi-761200, Tele no- 06815-222921.

Good Samaritan Charitable Trust – 3rd lane, R. K. Nagar, Rayagada-765001, Tele no- 06856-236448.

Independent Initiatives – At: Jaraka. Dharmasala, Jajpur-755050, Tele no - 099373 83052.

Manab Seva Sadan – At: Saranga; Talcher-759146, Tele no- 06768-267035.

Marr Munning Ashram – Aurobind Nagar, Koraput-764001, Tele no- 06854-251556.

AERWD- Bhubaneswar- 09437325024, 09861575549, 09776351581.

ABCD (agency for Backward Community development) :- 916752213121.

Action for better living & envornment – Kendrapada Odisha- 9167278296.

Gunupur, Odisha:- Action for Social & Humans- 91685720276 (A.K.dash)

Khalikota , Odisha:- Adarsh Charitable trust- 916810256648 (Tapan Prasad Acharrya)

Loisingha, Balangir/Odisha:- ADHAR- 91665374125.

Cuttack, Nuasahi/Odisha:- a gopal Seva Samiti -09432099383.

Kanas, PURI / Odisaha- Sevanchal 916743268020.

Baragarh, Odisha (Mandosil) :- 916684232313- contact person Girish Kumar.

Berhampur, Ganjam/ Odisha(Hilpatana):- 916812202036.

Pipil, Puri/ odisha (asets):- 9109861127075. (Priyabrata Sahoo).

Dhenkanal , Mahimagadi/ odisha:- 91672289809. (S.K.Panda).

Cuttack, sikharpur , 9106712641284. (P.K.Ray).

Cuttack, Badambadi-9109438287144,9109437985888. (R.M.Chaudhury).

Bhubaneswar, BJB Nagar:- 916742433493. (B. Das).

Dhenkanal, Kamakhya nagar;- 916769270225 (P.K.Tripathy).

Cuttack, Banki- 916723240748(Kesab Behera).

Bhubaneswar , Baramunda for Womans issues;- 916742550867(Basanti Nanda).

Academy of Bioresearch development:- Bhubaneswar:- 916746538664.

DISASTER RELATED WEBSITES

www.eastcoastrailway.gov.in	East Coast Railway, Bhubaneswar (Disaster Management)
www.imd.ernet.in	Indian Metrological Department
www.imd.gov.in	Indian Metrological Department
www.ncmrwf.gov.in	National Centre for Medium Range Weather Forecast department.
http://www.metocph.nmci.navy.mil	United State Navy
www.sal.dundee.ac.uk	Dundee satellite Receiving Station
www.herricanealley.net	Information about tropical cyclone
www.usgs.gov	United States Geological Survey
www.w3.weather.com/safeside	Weather Safety Tips
www.disasternews.net	Disaster Related News Service
www.orissawater.com	Water resources Department.
www.osdma.org	Orissa Disaster Mitigation Authority
www.orissagov.nic.in	Web site of Government of Orissa
www.ndma.gov.in	Website of National Disaster Management Authority
www.nidm.net	Website of National Institute of Disaster Management.
www.idrn.gov.in	Website of Indian Disaster Resource Network.
www.usgs.georell.cos.com	Website of USGS Data Base
www.earthquakenews.com	Earthquake Related Information From World News Services.
www.eqnet.org	Earthquake Related Information
www.gisdevelopment.net	Application of GIS in Disaster Management.
www.fema.gov	Federal Emergency Management Agency.
www.redcross.org	Website of Red Cross
www.esri.com/hazards	Website of Disaster and GIS Related Information.
www.nemaweb.org	Website of National Emergency Management Association of US.
www.laem.com	Website of International Association of Emergency Management.
www.niusr.org	Website of National Institute for Urban Search and Rescue.
www.mipt.org	Website of National Memorial Institute for the Prevention of Terrosim
www.ifrc.org	Website of International Federation of Red Cross.
www. Emergency-management.net	Website of Information about Emergency Planning and Response

www.undp.org	Website of United Nations Development Programme.
www.nrta.gov.in	Website of National Remote Sensing Agency.

Annexure -28

LIST OF BLOOD BANKS OVER ECOR

STATE	SN	NAME OF STATION	ADDRESS	TELEPHONE
O R I S S A	1	BHUBANESWAR	1. Capital Hospital 2. Kalinga Hospital 3. Municipality Hospital 4. Red Cross	0674-2401983 0674-2301227 0674-2591237 0674-2417955
	2	CUTTACK	Orissa Red Cross	2305643
	3	SAMBALPUR	1. Dr.R.Nanda 2. VSS Medical college	9861071556 06632431420
	4	BARGARH	Campus Medical Store	06646-232825
	5	BERHAMPUR	MKCG Medical College	0680-2200658
	6	KORAPUT	District Hospital	08922-221234S
	7	JEYPORE	Sub-Divn Hospital	06854-233003
	8	RAYAGADA	District hospital	06856-222059
	9	BOLANGIR	1. R. S. Hota 2. Panda Medical Store 3. Rajlaxmi Med. Store	0665-2230646 / 233226 06652-232975 06652-230791
A P	1	VISHAKHAPATNA M	King-George Hospital	0891-2564891
	2	VIZIANAGRAM	1. District Hospital 2. Dr. J. V. S. Pattnaik	08922-221234 08922-275513
	3	NEELIMARLA	Maharaja Inst. of Med. Science	08922-275513
C G	1	BACHELI	NMDC-Apollohospital	07857-230050
	2	JAGDALPUR	Maharani Hospital	6854-233003

<u>AMBULANCE FACILITIES IN WALT AIR DIVISION</u>			
VISAKAHAPATNAM (STD : 0891)		VBL (STD : 08944)	
KGH	2564891	CHC BOBBILI	255682
SEVENHILLS	2563081	PVP (STD : 08944)	
APOLLO	2727272	CHC PARVATIPURAM	261088
CARE	2522666	RGDA (STD : 06856)	
KANAKA DURGA	2566932	DISTRICT HOSPITAL	222509
SAGAR DURGA	2561026	BISSAMCUTTACK (STD : 06863)	
PALLAVI	2567736	CHRISTIAN HOSPITAL	247505
LATA	2755303	LKMR (STD : 06855)	
QUEEN'S NRI HOSPITAL	2535063	SUB-DIVISIONAL HOSPITAL	228533
VZM (STD : 08922)		DMNJ (STD : 06853)	
DISTRICT HOSPITAL	224200	NALCO	232454
LIFE MEDICAL CENTRE	222620	SUP (STD : 08922)	
TIRUMALA NURSING HOME	223921	CHC SUP	275352
NML (STD : 08922)		ARAKU (STD : 08936)	
MIMS	244390	GOVT.HOSPITAL	249627
GVI (STD : 08952)		KRPU (STD : 068522)	
FACOR	282456	GOVT.HOSPITAL	240242
CHE (STD : 08942)		JYP (STD : 06854)	
DISTRICT HOSPITAL	279161	BALAJI NURSING HOME	222746
MITRA NURSING HOME	224577	JDB (STD : 07782)	
MP OFFICE	223791	MAHARANI HOSPITAL	22367
ICOMWELL	224142	KMSD (STD : 07856)	
SATYANARAYANA NURSING HOME	286307	PHC KILOPAL	252223
ULM, TIU, KBM (STD : 08942)		GIZ (STD : 07856)	

NARASANNAPET A, BHARAT HOSPITAL	277455		GOVT.HOSPITAL	244454
NWP (STD : 08945)			DWZ (STD : 07856)	
TEKKALI AREA HOSPITAL	244262		GOVT.HOSPITAL	252223
PUN (STD : 08945)			BCHL (STD : 07857)	
VENKATESWARA NURSING HOME	247666		NMDC	230050
GPI (08965)			KRDL (STD : 07857)	
CHC GAJAPATINAGAR AM	285260		NMDC	255229

AMBULANCE FACILITIES IN KHURDA DIVISION				
BHADRAKH (STD : 06784			BRAHMAPUR (STD : 0680)	
Dist Hqrs.Hosp	251263		MKCG Med Col	2203624
JJKR ROAD (STD : 06726)			Dist Hqrs.Hosp	2224409
Govt.Hosp.	24388		SALAGAON (STD : 0671)	
CUTTACK (STD : 0671)			SCBMed Coll	2632999
SCBMed Coll	2632999		CITY Hosp.	2334455
CITY Hosp.	2334455		DHENKANAL (STD : 06762)	
BHUBANESWAR (STD : 0674)			Dist.Hqrs.Hosp.	226423
Capital Hosp.	2401983		TALCHER (STD : 06760)	
Kalinga Hosp.	9861015069		NALCO Hosp	9437021123
Municipality Hospital	(O) 2591237		Mandal Hosp.	240226
	2410106		ANGUL (STD : 06764)	232507
Kar Clinic	2516666		Dist.Hqrs.Hosp.	232507
BALUGAON (STD : 06756)			RAGHUNATHPUR (STD : 06724)	
NIRVANI	227221		Dist.Hqrs.Hosp	220064
CHILIKA (STD : 06756)			PARADEEP	
NIRVANI	227221		PPT Hsopital	222101
CHATRAPUR (STD : 06811)			PURI (STD : 06752)	
Sub.Divl.Hosp.	263899		Dist.Hqrs.Hosp.	2221752

AMBULANCE / HOSPITAL FACILITIES IN SAMBALPUR DIVISION

MANESWAR (MANE) (STD : 0663)	
Dist. Hq. Hosp.	2522222
HATIBARI (HATB) (STD : 0663)	
Dist. Hq. Hosp.	81257799
JUJUMARA (JUJA) (STD : 06681)	
P.H.C.	257799
CHARMAL (CHAR) (STD : 06644)	
P.H.C.	252107
RAIRAKHOL (RAIR) (STD : 06644)	
Govt. Sub.	253031
BAMUR (BAMR) (STD : 06763)	
Divisional Hospital	257146
SARAGIPALI (SRGP) (STD : 06763)	
Divisional Hospital	9439981837
HANDAPA (HNPA) (STD : 06763)	
Divisional Hospital	9439981837
BOINDA (BONA) (STD : 06763)	

AMBADOLA (AMB) (STD : 06863)	
Sub.Divl.Hosp. Health center	244597 06677-245024 9438229890
DOIKALLU (DKLU) (STD : 06863)	
Hoina Leprosy Health center	245764 8270859544 06863247505 8093077315
MUNIGUDA (MNGD) (STD : 06863)	
Hoina Leprosy	245764 247505
BISSAMCUTTACK - 06863	
Govt hospital Christian Hosp.	247032 9439983512 247505
THERUVALI (THV) (STD : 06863)	
IMFA Hosp. RGDA Govt Dist.Hospital	247505 06856230111 06856230096
RAHENBATA (RNBT) (STD : 06655)	
Pvt.Hosp.	221015
MURIBAHAL (MRNI) (STD : 06655)	
C.H.C (Govt)	270113 9439085002
KANTABANJI (KBJ) (STD : 06657)	
C.H.C	221902 9437210612 9437588037
Dr.P.K.Sahoo	9437210400(Pvt)

Divl.Hosp.	255499	TUREKELA ROAD (STD : 06657)	
ANGUL (ANGL) (STD : 06764)		C.H.C	286032
		Lathur CHC(06658)	286175
Dist.Hq.Hosp.	232507	HARISANKAR ROAD (STD : 06652)	
JHARAPADA (JRPD) (STD : 06764)		C.H.C	232622
Dist.Hq.Hosp.	232507	LAKHANA (LKNA) (STD : 06657)	
RENGALI (RGL) PHC- Dr.Ashok Naik Dr.Arjun Naik	9938110026 9437254313 9437210612	C.H.C	9437232867 9437329668 9437126328
LAPANGA(LPG) PHC	9439986226	NAWAPARA ROAD (STD : 06678)	
SASON (SSN) (STD : 0663)	2456818	C.H.C	225346
Dist.Hq.Hosp.	522222	KHARIAR ROAD (STD : 06678)	
SAMBALPUR (SBP) (STD : 0663)		Govt.Hosp.	222725
Healing Touch	533244	C.H.C	222725
J.M.J.Hosp.	2545155 2545859	KOMAKHAN (KMK) (STD : 07707)	
MCL Hosp.	430760	Govt.Hosp.	242223
College Hosp.	430511	BAGBAHARA (BGBR) (STD : 07707)	
HIRAKUD (HKG) (STD : 0663)		Govt.Hosp.	242223
V. S. S. Medical	2430511	BHIMKHOJ (BMKJ) (STD : 07707)	
GGOBHAGA(GBQ) Dr.Ashkhaya Nayak Dr.Ananta Hota	9438558169 9438385481	Govt.Hosp.	242223
ATTABIRA (ATS) (Govt) Dr.Ram Kailash Agrawal Dr.A.K.Barik	9437258305 9437050262 9437193076		
BARGARH (BRGA) (STD : 06646)		ARAND (ARN) (STD : 07723)	
Dist HQ Hospital	232804	Govt.Hosp.	23297
BARAPALI(BRPL) 06646			
DONGARIPALI (DJX)	9556193447		
KHALIAPALI (KHPL) STD-06653	270372		
LOISINGHA (LSX) PHC	9777771013		
BOLANGIR (BLGR) (STD : 06652)		MAHASAMUD (MSMD) (STD : 07723)	
Dist.HQ Hospital (CDMO)	232622 9439987100	Govt.Hosp.	222232 9425215792 222103

			9425215852
SAINTALA(SFC) (06655)	256202		
BADMAL (BUDM) (STD : 06655)		BELSONDA (BLSN) (STD : 07723)	
Ordance Factory	250301	Nursing Home	222650 224823
TITILAGARH (TIG) (STD : 06655)		(ANMD) (STD : 07720)	
Sub.Divl.Hosp. Health Centre	220726 9455886507 221912	Govt.Hosp.	258720
KESINGA (KSNG) (STD : 06655)		LAKHOLI (LAE) (STD : 07723)	
Sub.Divl.Hosp. Dr.Babulal Agrawal		Govt.Hosp.	23297
KANDEL ROAD (STD : 06655)		Titlagarh (TIG) (STD :	
Sub.Divl.Hosp. Dr. M.C.Sahoo	9439392920 9437092531	Sub-Divisional Hospital	222122
RUPRA ROAD (STD : 06677)	240107 9437657260	S.C.D.Eye Hospital	220625
	9438169941	NUAPARA (STD : 06678)	
NORLA ROAD (STD : 06655)		Dist.Hospital	225346
Sub.Divl.Hosp. Health Centre	9437394456 9437839931	BHABANIPATANA (BWIP) 06670 Dr.J.Agrawal	231450 9437092533
LANJIGARH ROAD (STD : 06655)		JUNAGADA (06672) Dr. Sunil Kumar Bag	243132 9439980260
Sub.Divl.Hosp. Health centre	9437394456 9437839931		
SASAN(SSN) Govt Host. (STD-0663)			

HIRING OF HELICOPTER/AEROPLANE/ROAD VEHICLES FOR RESCUE OPERATION
GOVERNMENT OF INDIA (BHARAT SARKAR)
MINISTRY OF RAILWAYS (RAIL MANTRALAYA)
(RAILWAY BOARD)

NO. 2002/Safety-1/6/6
New Delhi, date : 13.06.2004

General Managers,
All Indian Railways.

Sub : Empowering Zonal Railways to requisition helicopter/aero plane at the time of severe accident.

Ref : Board's letter No. 86/Safety-1/24/47 Dt.13.03.87 & 19.07.89.

Zonal Railways have been delegated power to requisition helicopter/aero plane for expeditious action in the event of serious accident vide railway Board's letter reference. The subject matter has been reviewed by the Board and the following revised powers are delegated to the Zonal Railways.

1. GMs/DRMs have been delegated the powers to requisition helicopter/aero plane to reach the site of serious accident for rescue operation expeditiously. In addition, powers are also delegated to requisition air support to dispatch the rescue teams to the site of the accident.

It is difficult to stipulate exactly the circumstances under which they may exercise these powers. It has been decided to leave this to the discretion of GMs/DRMs. However, broadly these may cover the following type of cases:

- a. a. Where more than 10 casualties (death-cum-serious injuries) are feared and it is difficult for these officers to reach the site within reasonable time.
- b. b. Where heavy damage is caused to railway installations in sensitive and tension filled areas(e.g. wreckage of track, bridges, etc. through bomb blast, other means of sabotage, etc.).
- c. c. Where public reaction in case of late arrival of senior officers at site is likely to be highly adverse.

Normally, in case of an accident only one helicopter should be requisitioned by a Zonal railway, except when there is a serious passenger train accident involving several casualties when it is essential for both the general Manager and the Divisional Railway Manager to reach the site at once to satisfy the public and the press. However, for dispatching the rescue teams to the a site of the accident, separate helicopter/ aeroplane may be requisitioned, if so needed.

The GMs/DRMs may exercise the above powers personally and may not delegate these powers.

2. Zonal Railways are further empowered to requisition helicopter/ aeroplane to evacuate injured and dead in the event of serious accident. GMs may personally exercise these powers and may not delegate these further.

The above instructions on the subject supersede all the previous instructions issued vide above referred letters.

This issues with the concurrence of the Finance Directorate of the Ministry of Railways.

Sd/-

Amitabh)

Director, Safety III)

ailway Board

Annexure – 31

CLEARANCE BY STATE POLICE IN CASE OF RAILWAY ACCIDENTS DUE TO CASE OF SUSPECTED SABOTAGE

GOVERNMENT OF INDIA
MINISTRY OF RAILWAYS
(RAILWAY BOARD)

No.2002/Sec.(Cr.)/45/47

Rail Bhavan,
New Delhi-110001.

March, 27, 2003.

The General Managers

Sub : Clearance by State Police incase of railway accidents due to suspected sabotage.

Ref : Ministry of Home affairs' letter No. VI-24022/11/2002-PM-I dt.24-12-2002 addressed to Home Secretaries of all States (copy enclosed).

1. The issue of expeditious clearance by the State Policy in case of Railway accidents, where sabotage is suspected, has been engaging Ministry of Railways (Railway Board)'s attention for a long time. It is noticed that sometimes rescue operations are hampered due to delayed and reluctant clearance by the State Police.

2. It is pertinent to mention that there are two different tasks to be accomplished on war footing after a railway accident involving human lives is concerned i.e. (a) Quick Rescue Operation; and (b) Restoration of Rail Traffic. It is clarified that incase of railway accidents, permission of the State Government or clearance of the police is not required for launching rescue operations for the purpose of saving human lives which inter alia may also involve handing/shifting the rolling stock (locomotives, wagons and coaches) for extricating the trapped passengers. However, police clearance is required for restoration works at the site of accident, if sabotage is suspected.
3. To avoid any delay in launching the rescue operations for saving as many human lives as possible and for early restoration of rail traffic, the above issue has been taken up with the Ministry of Home Affairs. Consequently, Ministry of Home Affairs vide their letter ibid have directed the Home Secretaries of all States to issue suitable instructions to the concerned authorities for taking prompt action and to expedite clearance certificate in the event of a rail accident, when sabotage is suspected.
4. The contents of this letter may be widely published among the railway officers/staff and displayed in all ARTs/ARMEs so that a general awareness created amongst all those engaged in rescue activities.
5. This letter supersedes the Railway Board's letter of even number dt.7.2.2003.

Sd/-

(ATUL
PATHAK),
Director/Crime
Prevention,
Railway Board.

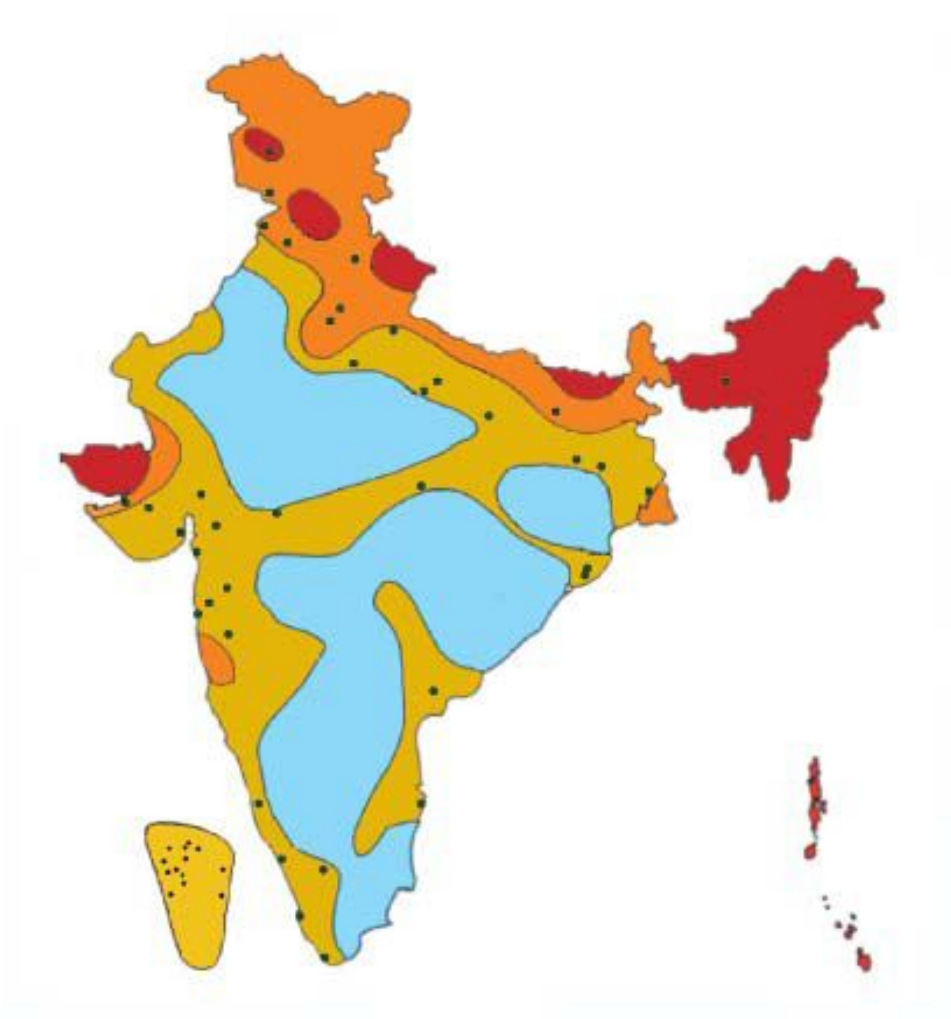
REGION FALLING IN VARIOUS ZONES OF THE COUNTRY

Zone	Damage risk and Intensity	Region
Zone V	Earthquake - Very high damage risk zone - areas may expect intensity maximum of MSK IX or more and Magnitude of 8 and greater (on Richter Scale)	The entire North-east, including all the seven sister states, the Kutch district, parts of Himachal and Jammu & Kashmir, and the Andaman and Nicobar islands. These areas may experience
Zone IV	Earthquake - High damage risk zone - areas may expect intensity maximum of MSK VIII and Magnitude of 7 - 7.9 (on Richter Scale)	Parts of the Northern belt starting from Jammu and Kashmir to Himachal Pradesh. Also including Delhi and parts of Haryana. The Koyna region of Maharashtra is also in this zone.
Zone III	Earthquake - Moderate damage risk zone - areas may expect intensity maximum of MSK VII and Magnitude of 5 - 6.9 (on Richter Scale)	A large part of the country stretching from the North including some parts of Rajasthan to the South through the Konkan coast, and also the Eastern parts of the

		country.
Zone II	Earthquake - Low damage risk zone - areas may experience intensity MSK VI and up to Magnitude 4.9 (on Richter Scale)	These two zones (Zone - I & II) are contiguous, covering parts of Karnataka, Andhra Pradesh, Orissa, Madhya Pradesh, and Rajasthan, known as low damage risk earthquake zones.

Annexure – 33

Figure 4: Recent Map indicating Earthquakes Zones in India (IS 1893 – 2002)



Crisis Management Group of Medical Team

Division	Sr No	Function Under	Place	Nos
Zonal	1.	Central Hospital	Mancheswar (MCS)	01
	2.	Railway Health Units	Rail Vihar, CSP	01
	3.	Ambulance	Mancheswar	01
WAT	1.	Divisional Rly Hospital	Vishakhapatnam (VSKP)	01
	2.	Railway Health Units	Vizianagaram, Srikakulam Rd, Nuapara, Marripalem, Vadlapudi, BN1TN, Diesel Loco shed (VSKP), Rayagada, Koraput, Laxmipur, Araku, Bachel, Kirandul, Jagadapur	14
	3.	ARME- I	Vishakhapatnam (VSKP) & Koraput	02
	4.	ARME- II	Vizianagaram, Nuapara, Rayagada, Araku, Jagadapur & Kirandul	06
	5.	Ambulance	Vishakhapatnam (VSKP) & Koraput	02
KUR	1.	Divisional Rly Hospital	Khurda Road.	01
	2.	Railway Health Units	Khurda Rd, Retang, Palasa, Brahamapur, Puri, Cuttack, Paradeep, Bhadrak, Talcher & Keonjhar	10
	3.	ARME- I	Khurda Rd, Palasa & Bhadrak	03
	4.	ARME- II	Brahamapur, Cuttack & Talcher	03
	5.	Ambulance	Khurda Rd	01
SBP	1.	Divisional Rly Hospital	Sambalpur	01
	2.	Railway Health Units	Bolangir, Kantabanji, Mahasamuda & Kantabanji	04
	3.	ARME- I	Sambalpur & Titlagarh	02
	4.	ARME- II	Titlagarh, Mahasamuda & Bolangir	03
	5.	Ambulance	Sambalpur	01

CLASSIFICATION OF FIRES AS PER ISI 2190/1979**1. Class 'A' Fires**

Fire involving combustible material such as wood, paper, cloth, rubber, plastic requiring the heat absorbing effects of water, water solutions.

2. Class 'B' Fires

This type of fire involves flammable or combustible liquids greases, petroleum products and similar materials for extinction, a blanketing effect is essential.

3. Class 'C' Fires

Which involves flammable gases, substance under pressure including liquified gasses. Here it is necessary to dilute the burning gasses at very fast rate with an inert gas, Dry chemical powder or CO₂.

4. Class 'D' Fires

Fire involving combustible metals such as Sodium, magnesium, zinc, potassium. These burning metal react with water and water containing agent. These fires require special media to extinguish such as carbon-di-oxide special dry chemical powder.

Utility of commonly used fire extinguishers is given below.

Sr No	Types of Fire Extinguishers	Class of Fire			
		A	B	C	D
1	Water (Gas Cartridge)	S	NS	NS	NS
2	Water (Stored Pressure)	S	NS	NS	NS
3	Mechanical Foam	U	S	NS	NS*
4	Dry Chemical Powder (Gas Cartridge)	U	S	S	NS
5	Dry Chemical Powder (Metal type)	S	S	S	NS
6	Carbon – Di - Oxide	U	S	S	NS
7	Halon	U	S	S	NS

[**S**: Suitable ; **NS**: Not suitable ; **U** : Can be used in case of emergency but not effective.
; * : Special dry powder can be used.]

Disclaimer

This information provided in this document is for the purpose of general guidance. Although, all efforts have been made to ensure authenticity and accuracy, in case of any conflict the provision in GR&SR / Accident manual and other relevant code would over ride.

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