

I. Introduction

Apropos Manthan recommendations no. 73, Government of Madhya Pradesh has decided to establish a separate arrangement for “Training of Police Personnel” on Disaster Management. Disaster Management Institute (DMI) has been assigned the task to organise training programmes for different level of police personnel in Disaster management.

In FY 2011-12 Disaster Management Institute (DMI) organised 34 training programmes for Police personnel of Madhya Pradesh as per list annexed at **Annexure-I**. This year the programmes were organised under following heads:-

- 30 programmes for trainee police constables on “**Basic skills for Search & Rescue Operations**” at Four Police Training Schools for nearly 2500 constables
- 1 Programme on “**Incident Response System**” for senior Police Officers at DMI
- 1 programme on “**Role of Police in disaster Management**” for trainee **DSPs** at JNPA, Sagar.
- 1 “ **Training of Trainers** ” Programme for trainers of Police Training Organisations at DMI
- 1 “ Sensitisation Programme on “**Role of State Disaster Management Authority**” for District & Divisional Commandants of State Home Guards & civil Defence

II. A. Training of Trainee Police Constables at PTS Indore, Tighra, Rewa & Umaria

DMI organised 30 programmes at four PTS of the State in FY 2011-12. The programme was conducted by DMI faculty as well as trainers of CISF & Uttaranchal Mountaineering Association. The services of three Students already trained at DMI were also taken at some places for training and conduct of mock-drills. The method of training was mostly participatory & more emphasis was given on practice& drills. The trainees were trained on following aspects of disaster response:-

SI No.	Topics	Method of Training
1	Types of Natural & man-made hazards that may cause disasters with particular reference to Madhya Pradesh & role of Police thereof during various disasters	Class room presentation
2	Types of building collapse during earthquake or any other natural/man-made hazards & techniques to search victims in voids & debris created by various types of collapse (Line & perimeter method)	Presentation & Field practice, Videos
3	Marking of buildings during search operations	Presentation & Practice
4	Improvised equipment that may be used for search operations during building collapse search & rescue operation	Presentation

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5	Search Techniques during Flood, River crossing methods (Chain method, bamboo method Belay method & Tyrolean Traverse method)	Field practice
6	Different types of Rope knots used during search & rescue operations	Field practice
6	Making of Improvised equipment for Flood search & Rescue	Presentation & Practice Videos
7	Types of Fire & initial response by Police	Presentation & Practice
8	Basic Understanding of Chemical Accidents: Fire, Explosion & Toxic release, Weapons of Mass destruction, Chemical & Biological Agents : Role & responsibilities of Police in protection of Community	Presentation & Demonstration of equipment
9	Initial Rescue of Victims during various natural & man-made disasters	Presentation & Practice
10	Method for warning dissemination among community during flood	Presentation & Practice
11	Transportation of victims to Ambulance/Hospitals (One rescuer method, Two Rescuer method, three rescuer method)15 methods	Field practice
12	Technique of Cardio-pulmonary resuscitation (CPR) techniques	Field practice, Videos
13	Essential Skills & techniques for managing rescue operations (Basics of Incident Response System-IRS)	Class room presentation

II.B. Conduct of Mock-drill

On the last day of training, a mock-drill was also organised involving selected cadets on three themes as mentioned below:-

Scenario 1: Rescue of victims from a village surrounded by flood water

Selected trainees took part in this mock-drill. A scenario of villagers along with animals were shown trapped in flood water. The rescue team was placed some distance away from the site. The exercise organiser informed the team leader regarding the incident.

The rescue team rescued the trapped victims by showing following skills :-

1. Assessment of resources (personnel & equipment) required for operation
2. Deployment of available resources

3. Rescue of victims trapped in the flooded river by using **Chain method, bamboo method & Belay method**
4. Crossing the river by using **Tyrolean Traverse method**
5. Transportation of Injured victims by using **Hammock carrying method / Firemen lift method**
6. Technique for revival of consciousness by using **Cardio-pulmonary Resuscitation (CPR) method.**

Scenario 2: Rescue of Victims trapped in building collapse due to earthquake

Selected trainees took part in this mock-drill. A scenario of victims trapped in a damage building due to earthquake followed by an incident of fire in one of the building was shown. The rescue team was placed some distance away from the site. The exercise organiser informed the team leader regarding the incident.

The rescue team rescued the trapped victims by showing following skills:-

1. Search of location of trapped victims by displaying the skill of **Perimeter search method** followed by **Line Search Method.**
2. Rescue of victims trapped in building caught in Fire by displaying the method.
3. Transportation of victims by using **Two hand, Three hand, reverse pick-a back, drag method, shoulder pull methods,.**
4. Rescue of victims trapped in high rise building by displaying **Rappelling Method.**
5. Rescue of victims trapped in confined space by using various **crawling and toe& drag method.**
6. Technique for revival of consciousness by using **Cardio-pulmonary Resuscitation (CPR) method**

Scenario 3: Initial Response by Police Force during Fire in a Locality

Selected trainees took part in this mock-drill. A scenario of fire in a locality was shown. The rescue team was placed some distance away from the site. The exercise organiser informed the team leader regarding the incident.

The rescue team rescued the trapped victims by showing following skills:-

1. Advice to community on loudspeaker for their protection & evacuation
2. Display of Fire entry techniques in buildings
3. Initial response for burn cases
4. Transportation of victims by using **Two hand, Three hand, pick-a back, drag method, shoulder pull methods,.**
5. Technique for revival of consciousness by using **Cardio-pulmonary Resuscitation (CPR) method**

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In PTS Umaria, the SP, PTS along with other officers, nearly 450 cadets & nearly 150 local community & media persons observed this mock-drill. The television channels & print media published the news prominently.



The mock-drill was followed by Certificate distribution to the cadets.

In PTS Indore, Director, DMI &SP, PTS along with other officers of the Training School and nearly 650 cadets observed this mock-drill. The mock-drill was followed by Certificate distribution to the cadets.

In PTS, Rewa, the National Disaster Response Force (NDRF) displayed various response equipments used during search & rescue operations in natural & man-made disasters. The cadets were trained in Flood search & Rescue in the campus pond. On the last day a Big meal was arranged which was followed by certificate distribution.

In PTS, Tighra the mock-drills were organised during the training itself. On the last day all the cadets gathered in the field & the SP PTS distributed the certificate of participation to the cadets.

II.C. Rescue from Height (Practice & Drill with Come along set & Harness & rope)



Practice with Harness & Rope at PTS, Indore



The trainees at PTS, Rewa learning skill of Rappelling using Come ALONG set by NDRF



Demonstration/ Drill at PTS, Umaria



Practice with Harness & rope at PTS, Tighra

II. d Flood Search & Rescue Technique



The trainees at PTS, Rewa learning skill of Flood Rescue by NDRF



Drill on Flood rescue using Tyrolean Traverse method at PTS, Umria

II.E Transportation of Victims



Dragging methods practiced at PTS, Indore



Dragging methods practiced at PTS, Tighra



Transportation of Victims Drill

II.F Learning CPR Skills



Class room Practice at PTS Indore



Learning CPR Skills



Learning CPR Skills at PTS Tighra

II. G Making of rope knots for search & rescue



Class room training



Field Training

II I Conduct of Mock-drill



Fire and Earthquake Response team ready for operation



Fire Rescue Team in Action

III. About Participants

The participants of the programme conducted at PTS, Rewa, Indore, Umariya & Tighra were newly recruited Police personnel. The Training team comprising of DMI faculty & Guest Faculty including CISF trainers & Uttaranchal Mountaineering Association trainers have found the trainees of all four PTS as one of the best group that they have ever trained. Some of the specific comments of the trainers are as follows:-

1. The level of Intelligence Quotient (I.Q) of the trainees was found extraordinary.
2. Their interest in learning certain skills like CPR, Rappelling, Rope knots, and transportation of victims was such that they were ready to stay in the training hall up to their dinner time. In some of the field exercise like Rappelling; the training team found it difficult to give chance to all the participants due to time constraint. Then, it was decided that those trainee, who have learned the technique; will train their fellow trainees.
3. They have the right kind of aptitude to work as a rescuer. While doing field exercise & drills, they promptly selected their leaders & distributed various assignments among the group. No conflict among the groups was ever seen at any of the PTS in group exercises or drills. They demonstrated the action with utmost perfection & professionalism.
4. Their level of participation & interaction with faculty was of high degree. Some questions asked by the trainees surprised the training team. These questions were particularly asked on weapons of mass destruction, Chemical & Biological Agents. As such, these topics were later included in the training topic.

IV. Output of Training

1. All the participants are able:-
 - to perform CPR & rescue the unconscious victims.
 - to transport the victims using correct procedure of transportation .
 - to disseminate warning during Flood conditions.
 - to advice community for correct action during release of toxic gases.
 - to take initial response for fire control , rescuing victims from fire engulfed room before arrival of Fire department.
 - to make improvised Flood rescue equipments with available items.
 - to make different knots of rope & use in search & rescue operations
 - to search victims in voids & debris created by various types of collapse using Line & perimeter method
 - Rescuing victims in flood water using Chain method, bamboo method Belay method & Tyrolean Traverse method

2. The participants will be able to perform following actions after regular practice:-
- Rappelling with the help of Rope, Harness or Come along set.
 - Crossing river using rope by Tyrolean Traverse method

In addition, the participants are aware about the aspects as detailed in the contents of the course.

V. About Course Material: Taking clue from the course on Disaster Management as specified in the course curriculum for the probationers constables and feedback taken by the officers & participants, a course material was developed in the FY 2011-12 & distributed among all the participants.

VI. Trainers Team

- a. The training was given by undersigned & a team of well qualified & experienced trainer as Guest faculty. They Include some Guest faculty from other States:-
1. Shri N.K Bhatnagar, Retd. Commandant CISF & NDRF, New Delhi
 2. Shri Bhuwan Choubey, Uttaranchal Mountaineering Association, Uttaranchal
 3. Shri Nepal Singh, Trainer, CISF, Agra
- b. In addition, one of the major out-come of the course was grooming of one young junior faculty of DMI & three students of disaster management as trainer during the course. They are:-
- Shri Amit Kumar Dadhich a MBA Graduate & trained at NCDC, Nagpur is Junior Faculty of DMI. He has specialised on the topic of transportation of victims & in organising mock-drills. He was with me at all PTS & done an extraordinary and excellent job as trainer.
 - Ms. Lakshita Mandloi, a MBA Student in Hospital Administration at IMS, Indore was groomed as trained in CPR. She trained the participants on CPR at PTS Umaria & PTS Indore.
 - Ms. Ekta Sonwane a MBA Student in Disaster Management at IMS, Indore. She has also done dissertation project at DMI on the topic of Urban Flood Management. She trained the participants on Urban Flood Management at PTS Indore.
 - Mr. Aditya a MBA Student in Disaster Management at IMS, Indore. He has also done dissertation project at DMI on the topic of Urban Search & Rescue. He trained the participants on Urban Search & Rescue at PTS Indore.

VII. Recommendations

1. Practice & Drill

The police personnel due to their nature of job; has to perform initial response to almost all types of disasters. The first action after any disaster is to search the victims & rescue them. As such more emphasis was given to train them on search & rescue skills. However, it is felt that without practice at regular interval of time & drill thereof; the personnel will not be able to do the job perfectly during any emergency. As such it is recommended that following skill practice be included in regular drill of police personnel:

- Rescue of Victims using CPR Techniques
- Rappelling using Harness & rope
- Transportation of Victims
- Rope knots

A list of equipment is attached at Annexure-II. These may be procured at each PTS.

2. Requirement of Trainers

The services of the trainers, who have already been trained at DMI or other places in search & rescue skills, should be available with the training organization at least for 3-4 years; so that their expertise may be utilized fully. An institutional arrangement may also be worked out so that in case DMI requires their services for training; they should be made available.

3. Reward/ prizes/appreciation to the best performing Cadet

The Madhya Pradesh Police may think to institute an arrangement for reward/prizes or appreciation to some of the cadets who have been found extraordinary in performing the skills.

Annexures

**LIST OF TRAINING PROGRAMME FOR POLICE OFFICIALS
UNDER MANTHAN RECOMMENDATION
2011-2012**

S. No.	Topics	Date	Duration	No. of Participants
1.	Training Programmes on Disaster Preparedness at PTS, Rewa (Course-I)	09-10 April 11	01 Day	100
2.	Training Programmes on Disaster Preparedness at PTS, Rewa (Course-II)	09-10 April 11	01 Day	99
3.	Training Programmes on Disaster Preparedness at PTS, Rewa (Course-III)	11-12 April 11	01 Day	100
4.	Training Programmes on Disaster Preparedness at PTS, Rewa (Course-IV)	11-12 April 11	01 Day	86
5.	Training of Trainers Programme for Police Force	01-04 June 11	4 Days	23
6.	Training Programme on Incident Command System (Basic/Intermediate Course) for Police Officials at DMI, Bpl	21-24 June 11	4 Days	15
7.	Sensitization Programme on Disaster Management for Civil Defence Officials and Heads of Police Training Institutions.	15-16 Sept, 11	02 Days	58
8.	Disaster Preparedness and Response Programme at JNPA, Sagar for Dy.S.P	21-22 Oct, 11	02 Days	28
9.	Training on Disaster Response Techniques Programme -I for Police Officials under Manthan at PTS, Tigra, Gwalior	21 Nov 11	01 Day	79
10.	Disaster Management Training Programme -II for Police Officials under Manthan at PTS, Tigra, Gwalior	22 Nov 11	01 Day	76
11.	Disaster Management Training Programme -III for Police Officials under Manthan at PTS, Tigra, Gwalior	23 Nov 11	01 Day	77

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12.	Disaster Management Training Programme -IV for Police Officials under Manthan at PTS, Tigra, Gwalior	24 Nov 11	01 Day	81
13..	Disaster Management Training Programme -V for Police Officials under Manthan at PTS, Tighra, Gwalior	25 Nov 11	01 Day	77
14.	Disaster Management Training Programme -VI for Police Officials under Manthan at PTS, Tighra, Gwalior	26 Nov 11	01 Day	77
15.	Disaster Management Training Programme -VII for Police Officials under Manthan at PTS, Tighra, Gwalior	27 Nov 11	01 Day	70
16.	Disaster Management Training Programme - VIII for Police Officials under Manthan at PTS, Tighra, Gwalior	28 Nov 11	01 Day	58
17.	Disaster Management Training Programme -I for Police Officials under Manthan at PTS, Indore	04 Jan.12	01 Day	84
18.	Disaster Management Training Programme -II for Police Officials under Manthan at PTS, Indore	05 Jan.12	01 Day	80
19.	Disaster Management Training Programme -III for Police Officials under Manthan at PTS, Indore	06 Jan.12	01 Day	82
20.	Disaster Management Training Programme -IV for Police Officials under Manthan at PTS, Indore	07 Jan.12	01 Day	103
21.	Disaster Management Training Programme -V for Police Officials under Manthan at PTS, Indore	08 Jan.12	01 Day	89
22.	Disaster Management Training Programme -VI for Police Officials under Manthan at PTS, Indore	09 Jan.12	01 Day	101
23.	Disaster Management Training Programme -VII	10 Jan.12	01 Day	81

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	for Police Officials under Manthan at PTS, Indore			
24.	Disaster Management Training Programme - VIII for Police Officials under Manthan at PTS, Indore	10 Jan.12	01 Day	68
25.	Mock-drill on Earthquake, Flood & fire search & rescue	11 Jan.12	01 Day	Selected Groups
26.	Disaster Management Training Programme -I for Police Officials under Manthan at PTS, Umaria	30 Jan.12	01 Day	69
27.	Disaster Management Training Programme -II for Police Officials under Manthan at PTS, Umaria	31 Jan.12	01 Day	61
28.	Disaster Management Training Programme -III for Police Officials under Manthan at PTS, Umaria	01 Feb. 12	01 Day	67
29.	Disaster Management Training Programme -IV for Police Officials under Manthan at PTS, Umaria	02 Feb. 12	01 Day	60
30.	Disaster Management Training Programme -V for Police Officials under Manthan at PTS, Umaria	03 Feb. 12	01 Day	61
31.	Disaster Management Training Programme -VI for Police Officials under Manthan at PTS, Umaria	04 Feb. 12	01 Day	60
32.	Disaster Management Training Programme -VII for Police Officials under Manthan at PTS, Umaria	05 Feb. 12	01 Day	61
33.	Disaster Management Training Programme -VII for Police Officials under Manthan at PTS, Umaria	05 Feb. 12	01 Day	45
34.	Mock-drill on Earthquake, Flood & fire search & rescue	6 Feb.12	01 Day	Selected Groups
TOTAL				2276

Details of Equipment (Ref. para Vi 1)

S. NO.	NAME OF EQUIPMENT	ESTIMATED COST PER ITEM
1.	Rope (50 M, 9 Mm Diameter)	RS 12,000
2.	Harness (camp company)	RS 1500
3.	Karabiner (camp or padzole company)	RS 500
4.	Descender (camp or padzole company)	RS 800
5.	Jumar (Ascender)	RS 200
6.	Pulley (camp or padzole company)	RS 1500
7.	Helmet with head lamp	RS 1500
8.	Belay equipment	RS 2000
9.	Life jacket	----
10.	Stretcher	---
11.	Mannequin (dummy body for CPR)	---
12.	Blanket	--

The above items can be procured from the **INDIAN MOUNTAINERING FOUNDATION**

In addition a dummy may be procured for practicing CPR method.

Contact IMF

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VII Compliments:

Conduct of 34 fruitful programmes for police personnel was made possible by administrative & technical support of our Executive Director Shri Manohar Dubey, IAS and our Director Dr. Rakesh Dubey & Senior officials of Madhya Pradesh Police.

Our Executive Director always emphasized on the final output of the programme. In line of his direction, the programme was successfully designed towards achieving objective set for the programme.

Our Director Dr. Dubey was always in touch with the training team taking feedback & provided technical & administrative support whenever required.

Shri Vineet Kapoor, IPS, DIG Training has always been a guiding factor for the programme. His support & guidance has made immense difference in quality & conduct of programme & without his support; conduct of these programmes could not be made possible.

Shri Rajendra Kumar, IPS, Additional DGP (Training) & Shri Shrivastava, IPS IG (Training) provided us necessary guidance, support & new ideas for conduct of these programmes.

Shri Rajendra Mishra, IPS IG, Cyber Cell & OSD Disaster Management has helped us in conceptualizing the conduct of programme & has always guided us.

Shri Jain SP PTS, Indore, Shri Parihar SP PTS, Umariya, Shri Chhari SP PTS Tighra & Mrs. Thakur SP PTS have provided us necessary logistics & administrative support for conduct of these programmes at the respective PTS.

The DMI training team including Mr. Amit , office administrative staff Mr. J. Tiwari, Dayanand Singh, Ghanshyam Mishra , Pradeep Chorgadhe, Mrs. Seema Mishra has always supported us in making logistic & administrative arrangement.

My colleague Mr. Dilip, Dr. Patro, Shri George & Shri Sudheer have always gave me valuable technical suggestion & support.

I am thankful to all the gentlemen & women for their kind support.

(Saurabh Kumar)
Nodal Officer for Conduct of Training Course for Police personnel
Disaster Management Institute, Bhopal

Some Moments



**With best compliments
Disaster Management Institute**