



STANDARD OPERATING PROCEDURE FOR

Capacity Building of State Disaster Response Force

National Disaster Response Force
Government of India

“The best training program in the world is absolutely worthless without the will to execute it properly, consistently, and with intensity.”

John Romaniello

Foreword

O P Singh, IPS
Director General, NDRF



Disaster Management is the State subject and a prompt, well-coordinated and effective disaster response for undertaking rescue, relief, and rehabilitation & reconstruction measures rests with the Govt. of the affected States/UTs. We in India have a three-tier disaster response mechanism within the country. NDRF is at the apex level to handle disasters of Level-III & above. SDRF to be the first responder to handle disasters at Level-II in the State and at the district level personnel of Civil Defense, Home Guards and Fire & Emergency Services to deal with the disasters at Level-I and to respond within “golden hours” before arrival of NDRF.

DM Act 2005 empowers State(s) to take necessary measures for preparedness and capacity building in accordance with the guidelines laid by National and State Authorities to provide prompt and effective response during disasters or a threatening disaster situation. As per the ‘National Policy’ on Disaster Management, every State/UT is advised to raise a contingent of SDRF keeping in view the disaster vulnerability profile of the State/UT. Consequently, few States have raised the SDRF and various States/UTs are in the process of raising the SDRF as per their requirement.

The capacity building of the SDRF is responsibility of the NDRF. In order to ensure proper capacity building of SDRF, there has been requirement of imparting training to the terms of the SDRF through the trainers of the NDRF in an institutionalized and structured manner. Consequently, this ‘Standard Operating Procedure’ (SOP) has been prepared to establish procedure for imparting smooth, proper and systematic training to the SAR (Search and Rescue) Team(s) of SDRF. The SOP prescribes guidance and assigns responsibility for adopting various executive actions to ensure institutionalized & structured training which applies to all stakeholders.

I am confident that this SOP would prove very useful for all the States/UTs who are contemplating to get their SAR Teams of SDRF trained. This SOP will give clear guidelines to the States/UTs as well as to the trainers of the NDRF for smooth conduct of the capacity building of the SDRF. All users are encouraged to suggest changes to HQ NDRF, New Delhi which would be incorporated in future periodic review of this SOP.

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Acronym

No.	ACRONYM	
1.	ADR	Aquatic Disaster Response
2.	BOO	Board of Officers
3.	Bn	Battalion
4.	CBRN	Chemical, Biological, Radiological and Nuclear
5.	CSSR	Collapsed Structure Search & Rescue
6.	DGP	Director General Police
7.	DM	Disaster Management
8.	MFR	Medical First Response
9.	MHA	Ministry of Home Affairs'
10.	NDRF	National Disaster Response Force
11.	NDMA	National Disaster Management Authority
12.	SDRF	State Disaster Response Force
13.	SOP	Standard Operating Procedure
14.	SAR	Search and Rescue
15.	UT	Union Territory

STANDARD OPERATING PROCEDURE FOR CAPACITY BUILDING OF STATE DISASTER RESPONSE FORCE

INTRODUCTION

1. One of the significant features of the Disaster Management Act 2005 is the provision of constitution of a National Disaster Response Force (NDRF) for “specialist response to a threatening disaster situation or disaster” (sec 44). Presently, with the 10 Bns of NDRF, India is amongst the leading countries, having ‘Single Largest Dedicated Disaster Response Force’ in the World which is trained and equipped as per international standards to respond to any Natural Disaster and CBRN (Chemical, Biological, Radiological & Nuclear) emergencies.
2. DM Act 2005 also empowers State(s) to take necessary measures for preparedness and capacity building in accordance with the guidelines laid by National and State Authorities to provide prompt and effective response during disasters or a threatening disaster situation. Therefore, subsequent to the success of NDRF in its avowed objective, Central Govt. has been advocating to all the States and UTs to constitute State Disaster Response Force (SDRF) as first responders to deal with level-II and level-I disasters. For the purpose, as per the ‘National Policy’ on Disaster Management, every State/UT is advised to raise a contingent of SDRF.



3. The concept of States constituting their own SDRF was first mooted by the NDMA in the Annual DGP Conference in 2006 and the same was endorsed by the MHA. Later, in a meeting held on March 12, 2012 under Chairmanship of Cabinet Secretary on ‘Crisis Management Plan’ the need for enhancing the capacity of State Police Forces in disaster response was high lightened.
4. Now, the Parliamentary Standing Committee of Home Affairs in its 178th Report on Disaster Management in the country, keeping in view the paramount role of SDRF in disaster management, has recommended that due consideration must be paid to evolve mechanism to strengthen SDRF. This report recommends that all States/UTs that have not yet setup SDRF may be insisted upon the need to set up the same at the earliest. The Committee has also suggested that sufficient SDRF battalions need to be created to reach in the disaster affected areas of the State quickly. The Committee has further

recommended that Union Government, in tandem with the State Government, must arrive at a decision with regards to providing more funds to State Disaster Response Fund for procurement of equipment for search and rescue work and also relief for victims.

5. Ideally, it is suggested that SDRF may be raised on the lines of NDRF in all States/UTs as dedicated Disaster Response Force since NDRF model has proved very successful over a short period. Keeping in view the vulnerability profile, difficult & sparse terrain, poor connectivity of State(s), sufficient numbers of SDRF Coys are recommended to be raised in every State/UT in view of its disaster vulnerability profile. The SDRF can be placed strategically at suitable locations well connected to airport, rail heads and roads for their immediate deployment at the disaster sites.

OBJECTIVE OF SDRF:

6. Of all the various components of disaster management cycle, it is response which is most visible. 10 Bns of NDRF are located at 10 different locations in the country based on vulnerability profile of the region capable of dealing with disasters of Level III (disasters beyond the coping capacity of Distt. & State Govts.). It is equally important to develop first responders within the State for Level-I (disaster within the coping capacity of district administration) & Level-II (disasters within the coping capacity of State Govts.) and also to respond within “golden hours” before arrival of NDRF. Therefore, NDMA has conceptualized a three-tier disaster response mechanism within the country. NDRF is at the apex level to handle disasters of Level-III & above, SDRF to be the first responder to handle Level-I & II disasters at the State level and at the district level, the personnel of Civil Defense, Home Guards and Fire & Emergency Services to be included in the three-tier disaster response mechanism in the country.



7. The most important advantage of SDRF is that it would be first to arrive at the disaster site (pro-active availability) to save precious human lives in ‘golden hours’ before arrival of the NDRF. Being local from the respective State/UT, personnel of SDRF would have familiarity with terrain & area, local language, cultural sensitivities and also about available resources that can be used at the time of crisis.
8. SDRF will also be used for Community Capacity Building and Awareness Generation programmes within the State. During these programmes, SDRF can familiarize

themselves with terrain, critical buildings and other existing infrastructure for prompt response at the time of disaster and side by side they can also prepare the community specially school children, village volunteers and other stakeholders about Do's & Don'ts during various disasters. Following roles can be assigned to SDRF:

- a. Respond to a disaster or threatening disaster situation
- b. Distribution of relief material to the disaster victims
- c. Ensuring full-proof security of the Nuclear Power Plants (NPPs) located within the State where applicable
- d. Community Capacity Building – Volunteers
- e. Liaison, Reconnaissance, Rehearsals and Mock Drills
- f. Awareness Generation
- g. Crowd Management
- h. Acquire and Continually Upgrade its Skills and Knowledge through Training & Re-training



Instructors demonstrating how to extricate a victim from vehicle.

PRESENT STATUS OF SDRF:

9. Significantly, many of the States have initiated steps towards constituting the SDRF and 21 States have in-principle approved constitution of SDRF, but most of them are yet to constitute dedicated SDRF on lines of NDRF. While some of the States like Bihar, Odisha, West Bengal, Tripura, Nagaland, Madhya Pradesh, Rajasthan, Uttrakhand, J&K etc. have earmarked dedicated Coys exclusively for SDRF, whereas many other States have preferred adhoc arrangements to get one or two Coys of their respective Armed Police Bn/IR Bns trained as SDRF.
10. This adhoc arrangement in many of the States serves no purpose because the specially trained personnel of SDRF get merged with their respective Bns and are regularly deployed on routine IS duties. This restricts them of regular training and re-training and they are not capable of performing the responsibilities mandated for SDRF. Most importantly, they are not available for any disaster response duties when the need arises. Therefore, the efforts and funds invested in raising, training and equipping proves to be very effective.

NEED OF SOP:

11. Disaster management is the State subject and a prompt, well-coordinated and effective disaster response for undertaking rescue, relief, and rehabilitation & reconstruction measures rests with the Govt. of the affected States/UTs. However, capacity building of the SDRF is responsibility of the NDRF being mandated to impart training to the SDRFs. It is therefore, required to formulate a SOP for imparting training to the teams of the SDRF by the trainers of the NDRF in an institutionalized and structured manner.

INSTITUTIONS:

12. Important stakeholders in this SOP are the States & UTs and Central Govt. Authorities (NDRF). These stakeholders are expected to develop and implement adequate measures to impart training to the SAR teams of the SDRF and to establish and make functional a vibrating training methodology as per guidelines of this SOP.

PURPOSE:

13. Purpose of this SOP is to establish the procedure for imparting the training to the SAR Team(s) of the SDRF in the State/UTs. The SOP prescribes guidance and assigns responsibility for adopting various executive actions to ensure institutionalized & structured training mechanism.

SCOPE:

14. a. To define a 'Standard Operating Procedure' for imparting smooth, proper and systematic training to the SDRF
b. The SOP applies to all stakeholders
c. This SOP is a guideline and shall be reviewed periodically

RESPONSIBILITIES:

15. a. **CENTRAL GOVT., STATE/UT GOVTS., NDRF & SDRF**

It shall be the responsibility of all the Competent Authorities (NDRF, State/UT, NDRF & SDRF) who are involved in the imitating planning and execution of the disaster response training to the disaster responders of the SDRF to ensure that all aspects of this SOP are adhered to.

- b. **TRAINERS & TRAINEES**

It shall be the responsibility of all the trainers & trainees to know, understand and follow the directions of the SOP in the letter and spirit.

METHODOLOGY:

16. The training of SDRF shall be organized by the NDRF free of cost with the help of 'Master Trainers' of NDRF. NDRF shall make sure to provide best training to the responders of the SDRF making them capable of launching disaster response operations on their own with full professional demeanor and passion.



PROCEDURE:

17. Following guidelines shall be followed by all the stakeholders who are directly or indirectly involved in the process of imparting training to the teams of the SDRF:

a. Basic First Disaster Response Course

i. Training of SDRF will be initiated / organised by NDRF only in those States/ UTs who have constituted 'dedicated' SDRF on the line of NDRF and only dedicated personnel of SDRF will be trained by NDRF.



ii. The training shall generally be conducted in one of the PTCs or Bn HQ of the State Police where basic infrastructure for Collapsed Structure Search and Rescue (CSSR) training is built up by the State Govt. on the basis of the recommendation of experts from NDRF. However, on the request of State/UT Govt., upon receipt of the direction from the NDRF, one team of Civil Engineers/Master Trainers of CSSR shall visit the venue of the training from the local Bn of NDRF for providing necessary guidance for the construction of the props area.

iii. The concerned officials of the SDRF of respective State /UT Govt. shall prepare "Annual Training Calendar of the SDRF" w.e.f. 1st April-31st March, every year and shall forward it to the NDRF by 31st December of each year. After getting the directions from the NDRF, training shall be imparted by the concerned Bn to the SAR teams of the SDRF of the respective AOR.



iv. The strength of one batch of SDRF for imparting "Basic Disaster Responder Course" shall be between 40-50 trainees (one team).

v. The ratio of Trainers and Trainees shall be 1:4 which shall be maintained by the NDRF.

vi. The authorities of the SDRF who shall be responsible for providing all requisites for smooth conduct of the training of the SDRF shall ensure following:-

aa) The training equipment and stores are available

- ab) Proper class room facilities such as required furniture, black board, chalks, duster, markers, white boards, multi-media, flip charts, training aids, sufficient stationary etc. have been catered for.
 - ac) The construction of the props/debris training area shall be completed before 30 days of commencement of the CSSR training.
 - ad) The required PPEs and spares accessories for CSSR as well as MFR part of the course have been catered for.
 - ae) Proper swimming pool should be made available for imparting training in Aquatic Disaster Response Training. In addition, suitable water body should also have been identified for the training purpose.
 - af) Different types of ropes and equipment which are required for high rise building rescue training should be catered for.
- vii. The duration of the training of the 'Basic Disaster Responder Course' shall be for 6 weeks in which MFR, CSSR, ADR, High Rise Building Rescue etc. shall be taught. The complete curriculum of the 'Basic First Disaster Responder Course' is attached at 'Appendix –A'.
- viii. Out of the strength of 40-50 trainees from each batch, few trainees shall be selected as a 'Trainer Material', subject to their training performance and aptitude by the training team of the NDRF. These trainers shall be provided higher level ToTs (Training of Trainers) training conducted in one of the 4 earmarked Training Institutions of NDRF. These Trainers shall be important constituent of SDRF as they will be responsible for ensuring day to day skill training of SDRF personnel in their respective teams.
- ix. Before the start of the training to the SDRF trainees, an expert team of trainers of the concerned Bn of the NDRF shall visit the training venue of the SDRF/Police to assess the preparation level. This visiting team shall point out the shortcomings if any and concerned officials will rectify all the shortcomings. The training of the SDRF shall be started by the NDRF only when all preparation have been completed by the concerned.
- x. Till the time, SDRF does not purchase equipment related to DM which are required for imparting training to the SAR teams, NDRF trainers shall carry their own equipment & stores, but the expendable accessories & spares have to be provided vis a vis procured by the SDRF.





- xi. The complete curriculum of the “Basic First Disaster Response Course” along with the block syllabus, detailed syllabus, time table and approximate cost of the training has been worked out which is attached at Appendix-B. The cost of the accessories of the equipment, PPEs etc has been worked out as guidelines which have to be met by the SDRF/Police.
- xii. Under exceptional circumstances, the training of the SDRF shall be organized in the Bn of NDRF if directions are given by the DG, NDRF as a special case.

b. ToTs and MoTs Courses:

- i. Personnel scoring 75% in the “Basic First Disaster Responder Course”, shall be recommended for detailment in ToTs Courses.
 - ii. The courses of ToTs & MoTs of SDRF shall be co-ordinated by the HQ, NDRF which shall be organized at the following CAPFs training Institutes:
 - aa) BIDR – Takenpur (BSF)
 - ab) NISA – HYD (CISF)
 - ac) CTC – II Coimbatore (CRPF)
 - ad) NITSRDR Bhanu (ITBP)
 - iii. The duration for each ToT course shall be three weeks and MoT course shall be one week. And the duration of MoTs course in “MFR & CSSR” shall be of one week.
 - iv. The strength of each ToTs course in MFR as well as in CSSR shall be kept between 24-30 only.
 - v. The cost of the training charges for ToTs and MoTs courses shall be paid to CAPFs Training Institute by the concerned SDRF authorities.
 - vi. SDRF authorities are also suggested to make use of following training institute/ source for getting their personnel trained:
 - aa) NCDC – Nagpur
 - ab) Saint John Ambulance
18. All SDRF authorities are requested to refer ‘Training Regime of NDRF’ for conducting day to day training as well as specialised training to their personnel.

Curriculum of the “Basic First Disaster Responder Course” of the SDRF Personnel and General Instructions

1. OBJECTIVES:

After undergoing “Basic First Disaster Response Course”, the participants should be able to:-

- a. Have an idea about the various types of disasters and to understand the basic principles of disaster response in different situations.
- b. Understand the concepts, methodology and techniques of search and rescue operation in different disaster situations, including collapsed structure search and rescue operations, urban search and rescue operations and rope rescue operations, as also to familiarize with the various equipment and tools used for the same.
- c. Understand the basics of emergency medical response and principles of patient assessment and management including:-
 - i. Pre-Hospital Treatment of different types of trauma and injuries.
 - ii. Principles of Triage and Basic Life Support Systems.
 - iii. Cardiological and other emergencies.
 - iv. Learn the various methods and techniques of evacuating victims.
 - v. Learn to handle various types of boats & eqpt. available for surface water and flood rescue ops.
 - vi. To understand the application and importance of various eqpt, tools and accessories used in disaster response ops.
 - vii. To become familiar with mechanics of the day to day maintenance, handling and safety procedures in operating the equipment.
 - viii. Locate faults in the eqpt. and take up trouble shooting to the extent possible.
 - ix. Become familiar with the essential of equipment maintenance and high rise rescue.
 - x. Acquire the requisite lifesaving skills needed for water and flood rescue operation.
 - xi. To gain familiarity with pre-hospital medical management of CBRN emergencies.
 - xii. Gain familiarity with the emergency medical services system, the various kinds of medical emergencies encountered in disaster situations, as also the principles of triage and basic life support systems.



2. COURSE DURATION: - 06 WEEKS

3. DAILY SCHEDULE:

0630-0730 Hrs	PT/Yoga
0900-0940 Hrs	I Period
0940-1020 Hrs	II Period
1020-1100 Hrs	III Period
1100-1130 Hrs	Tea Break
1130-1210 Hrs	IV Period
1210-1250 Hrs	V Period
1250-1330 Hrs	VI Period
1330-1500 Hrs	Lunch Break
1500-1540 Hrs	VII Period
1540-1620 Hrs	VIII Period
1620-1640 Hrs	Tea Break
1640-1720 Hrs	IX Period
1730-1830 Hrs	Games

Note: Training schedule given above is suggestive and it is liable to vary as per climatic situation.

4. BLOCK SYLLABUS:

Module	Subject	Lecture	Demo	Practical	Total
A	Medical First Responder	53	09	46	108
B	Collapsed Structure, Search & Rescue	35	13	60	108
C	Flood Rescue & Motorized Boat Handling	08	10	36	54
D	Equipment Maintenance & Rope Rescue	05	05	20	30
E	CBRN	19	01	07	27
	Total	120	38	169	327

Note: Demo will be carried out by instructors, trainees and through video CD etc.

5. DISASTER MANAGEMENT COURSES / TRAINING:

Keeping in view the likely role and task which would be assigned to SDRF in various states in future, under mentioned courses having total duration of 06 weeks may be conducted by the NDRF:-

Sr.No.	Name of Module	Duration (in Weeks)
1	MFR	02
2	CSSR	02
3	Flood Rescue and Motorized Boat Handling	01
4	Eqpts Maintenance & Rope Rescue	01
5	CBRN	(03 days Eqpt Maintenance & Rope Rescue and 03 days CBRN)
Total Duration		06

Module-'A'

Block Syllabus of Medical First Responder Course for SDRF

(DURATION 02 WEEKS)

Total Number of Working Days = 6 Days x 2 Weeks = 12 Days

Number of Period Per Days = 09 Periods

Total Period for the Course = 12 x 9 = 108 Periods

Sr. No.	Subject	Lecture	Demo	Practical	Total
i.	Opening Ceremony & Registration	02	-	-	02
ii.	Over View of Major Disaster & DM Act	02	-	-	02
iii.	Introduction of MFR Course	01	-	-	01
iv.	EMS & MFR	02	-	-	02
v.	Infectious Disease and Precautions	02	-	-	02
vi.	The Incident	02	-	-	02
vii.	Anatomical Reference	02	01	-	03
viii.	Patient Assessment and Taking Vital Sign	02	01	04	07
ix.	BLS, CPR, FBAO	03	01	04	08
x.	Oxygen Therapy	01	-	02	03

Sr. No.	Subject	Lecture	Demo	Practical	Total
xi.	Hemorrhages and Shock	01	01	02	04
xii.	Mid Term Test	01	-	-	01
xiii.	Soft Tissue Injuries	02	01	03	06
xiv.	Musculoskeletal Injuries	02	01	05	08
xv.	Skull, Spinal & Chest Injuries	03	01	04	08
xvi.	Burn & Environmental Injuries	03	-	-	03
xvii.	First Group Presentation	-	-	03	03
xviii.	Poisoning	02	-	-	02
xix.	Cardiovascular Emergencies and Abdominal Distress	03	-	-	03
xx.	Respiratory Emergencies	02	-	-	02
xxi.	Seizures, Diabetic Emergencies & CVA	03	-	-	03
xxii.	Child Birth	02	01	03	06
xxiii.	Lifting and Moving of Patient	02	01	02	05
xxiv.	Report Writing and Preparation for the Next Call	02	-	-	02
xxv.	MCI/Triage	01	-	02	03
xxvi.	Final Test	01	-	-	01
xxvii.	Group Presentation	-	-	03	03
xxviii.	Dead Body Management	02	-	-	02
xxix.	Extra Periods	02	-	-	02
xxx.	Final Evaluation Exercise - MFR	-	-	09	09
	Total	53	09	46	108

Module-'B'

Block Syllabus of Collapsed Structure Search & Rescue Course for SDRF

(DURATION 02 WEEKS)

Total Number of Working Days = 6 Days x 2 Weeks = 12 Days

Number of Period Per Days = 09 Periods

Total Period for the Course = 12 x 9 = 108 Periods



Sr. No.	Subject	Lecture	Demo	Practical	Total
i.	Introduction - Objective of the Course, Methodology etc.; Inauguration; A Brief Overview of Major Disasters	02	-	-	02
ii.	Organizing a CSSR Operation Definition of CSSR; Terminology; Overview of the Incident Command System; Area of Operation; Phases of a CSSR Team Mission; Stages During the Operation; Phases of a CSSR Operation; Steps for initial Assessment; Basic Organization of a CSSR Team.	02	-	-	02
iii.	Structures, Materials and Damage Types Construction Materials; Classification According to composition and use; Forces Affecting Building Materials; Construction Methods; Characteristics of Structures; Type of Damage and Failures; Collapse Patterns.	02	-	-	02
iv.	Structural Triage and the INSARAG Marking System Structural Triage; Triage Factors and Criteria; INSARAG (International Search and Rescue Advisory Group) Marking System and Guidelines.	02	-	03	05
v.	Operational Safety Factors Affecting Safety; Operational Guidelines; Unsafe Action and Conditions; Safety Rules; Safety Considerations for Each Phase of a CSSR Mission.	03	-	-	03
vi.	Search and Location Techniques, Confined Space Rescue Operations Definition of Void Space; Locating Void Spaces; Types of Structures; Collapse Patterns; Stages for Search and Location - Reconnaissance, Gain Access, Location; Conventional Search Techniques; Unconventional Search Techniques; Types of Confined Spaces; Hazards of Confined Spaces.	02	-	04	06

Sr. No.	Subject	Lecture	Demo	Practical	Total
vii.	Equipment, Tools and Accessories Introduction of Various Equipment, Tools and Accessories; Classification According to Use; Classification According to Operation; Steps to Follow Before, During and After Use; Use of Chipping Hammer; Use of Impact Drill; Use of Saws	02	03	07	12
viii.	Rescue Strategies and Techniques Vertical and Horizontal Approach - Advantages and Disadvantages; Rescue Techniques; Steps for Assessment of Access Areas; Techniques for Breaking an Breaching	02	01	05	08
ix.	Shoring Techniques Definitions of Shoring; Types of Shoring; Conditions for Shoring; Procedure for Building Shores.	02	02	04	08
x.	Lifting and Stabilizing Loads Lifting Techniques; Use of Hydraulic Jack; Cribbing.	02	01	03	06
xi.	Principles of USAR (Urban Search and Rescue Operations) Principles of USAR Operations.	02	-	-	02
xii.	Breathing Apparatus (BA) Training Parts of a BA Set; BA Donning Procedures; BA Confidence Training	01	01	02	04
xiii.	Breathing Apparatus - Search Procedures in Confined Space Techniques and Procedures of Search	01	-	03	04
xiv.	Height Rescue Techniques Fundamentals of High Angle Rescue; Introduction to Pulley Systems; Execution of Techniques Learnt; Field Exercise	01	01	02	04
xv.	Lifting and Towing Rescue Equipment Use of Various Lifting and Towing Equipment	01	01	02	04
xvi.	Life Detecting Devices Use of various Life Detecting Devices	01	01	04	06
xvii.	Methods of Evacuating Casualty without Equipment Different ways to Evacuating a Casualty without Equipment; Ground Rescue, viz., Rescue on Hand and Knees: Drag Out Rescue, Two Hand Seat Method, Four Hand Seat Method, S Method, Fireman Lift Method, Piggy Back Carry Method, Reverse Piggy Back Carry Method, Human Crutch Method, Cradle Method, Human Crawl Method, Toe Drag Method; Fore and Aft Method	01	01	04	06

Sr. No.	Subject	Lecture	Demo	Practical	Total
xviii.	Rescue Nets and DART Rapellers Rescue Procedures; Tactics and Techniques of Rescue Using Rescue Net and DART Rapellers; Execution of Techniques Learnt.	01	-	02	03
xix.	Debris Tunneling Techniques of Debris Tunneling.	01	01	04	06
xx.	Exercise-Adversity Rescue in a Collapsed Building (Organizing and Starting a CSSR Operation, Searching for and Locating Victims, Gaining Access to a Victim; Extricating the Victim; Providing Pre-hospital Treatment.)	-	-	09	09
xxi.	Extra Periods	02	-	-	02
xxii.	Final Test	02	-	02	04
	Total	35	13	60	108

Module-'C'

BLOCK SYLLABUS OF FLOOD RESCUE AND MOTORIZED BOAT HANDLING COURSE FOR SDRF

(DURATION 01 WEEK)

Total Number of Working Days	=	6 Days x 1 Week = 06 Days
Number of Period Per Days	=	09 Periods
Total Period for the Course	=	6 x 9 = 54 Periods
Total Period for Flood Rescue	=	29 Periods
Total Period for Motorized Boat Handling	=	25 Periods



FLOOD RESCUE

Sr. No.	Subject	Lecture	Demo	Practical	Total
1.	Test and Basic Ex. in Water	-	-	02	02
2.	Swimming Techniques	-	01	02	03
3.	Long Distance Swimming Practice	-	-	04	04
4.	Loops, Band and Knots for Crossing River with Rope	-	01	01	02
5.	Rescue Techniques	-	01	03	04
6.	Types of Lifts	-	01	02	03
7.	Items in a First Aid Kits and Handling of Snake	01	-	01	02
8.	Lifting of Dummy Under Water and River Crossing	-	01	01	02
9.	Single Search and Line Search & Rescue Principles	-	01	01	02
10.	Various Life Saving Devices and Eqpts and Use of Rafts During Flood Rescue	01	-	01	02
11.	Rescue by Improvised Rafts	-	01	01	02
12.	Survival in Different Types of Water	-	-	01	01
	Total	02	07	20	29

MOTORIZED BOAT HANDLING

Sr. No.	Subject	Lecture	Demo	Practical	Total
1.	Introduction of OBM & Various Type of Boats	01	-	-	01
2.	Introduction of Various Boats and Operating System of OBM	01	-	-	01
3.	Preparation of Boat, Mounting and Dismounting of OBM	01	01	01	03
4.	Introduction of Other Items Required to be Carried on OBM During Operation	01	-	-	01
5.	Starting, Handling and Stopping of OBM	-	01	01	02
6.	Precaution During Handling of OBM	01	-	-	01
7.	Fuel Capacity, Re-Filling and Consumption	01	-	-	01
8.	Handling of OBM & Handling of OBM Along Stream and Against The Stream	-	-	02	02
9.	Installing an Inflatable Boat and Packing	-	01	01	02
10.	Precaution During Packing and Transportation of OBM Engine	-	-	01	01

Sr. No.	Subject	Lecture	Demo	Practical	Total
11.	Operating OBM in Forward and Reverse Gear & Operating OBM in Deep and Shallow Water	-	-	01	01
12.	Precaution During Operation in Shallow Water and Use of Chappu	-	-	01	01
13.	Refilling During Operation and Long Drive	-	-	01	01
14.	Maintenance of OBM & Storage of Boat & OBM After Operation	-	-	01	01
15.	Final Test of Swimming & Boat Handling	-	-	06	06
	Total	01	03	16	25

Module-'D'

Block Syllabus of Equipment Maintenance & Rope Rescue for SDRF

(DURATION 03 DAYS)

- Total Number of Working Days = 03 Days
- Number of Period Per Days = 09 Periods
- Total Period for the Course = 3 x 10 = 30 Periods (including PT)
- Total Periods for Eqpts Maintenance = 16 Periods
- Total Periods for High Rise Rescue = 14 Periods



Sr. No.	Subject	Lecture	Demo	Practical	Total
1.	Slithering	-	-	02*	02
2.	Introduction of Mountaineering & Equipment Introduction of Rope & Coiling of Rope	01	01	-	02
3.	Rope Knots & Hitches	-	01	01*	02
4.	Rock Climbing, Hold & Belaying	-	-	01	01
5.	Anchor Base Preparation	-	-	01	01
6.	Jummar Climbing & Knots Climbing	-	-	01	01
7.	Rappelling & Piggy Back Rescue	-	01	01	02
8.	Teroline Traverse & Stretcher Lowering	-	01	01	02
9.	"C" Pulley & "Z" System	-	-	01	01
10.	Rope Ladder & Rope Stretcher Making	-	01	01	02
11.	Intro to Tools, Equipments, Accessories & Log Book	01	-	-	01
12.	General Steps for Use and Maintenance of any Tool or Eqpts, Tips for Use of Eqpts and Personal Protective Eqpts for CSSR Operation	01	-	-	01
13.	Handling and Maintenance of Generator & Inflatable Lighting Tower and Hydraulic Cutter Spreader, RAM Set & Air Lifting Bag	-	-	01	01
14.	Handling & Maintenance of Life Detector, VLS, Handling of Smoke Ventilator, High Pressure Pump & Floating Pump	01	-	01	02
15.	Handling of Various Kinds of Saws, Handling of Various Types of Drilling Machines & Handling of Gas Cutter	01	-	01	02
16.	Final Test of Equipment Maintenance & Rope Rescue	-	-	09	09
	Total	05	05	20	30

Note: Periods marked with * may be conducted during PT Time.

Block Syllabus for CBRN Module for SDRF**(DURATION 03 DAYS)**

Total Number of Working Days = 03 Days
 Number of Period Per Days = 09 Periods
 Total Periods for the Course = 27 Periods

Sr. No.	Subject	Lecture	Demo	Practical	Total
1.	Overview of CBRN Emergency & Role of First Responder	01	-	-	01
2.	Time, Distance, Shielding & Dozimetric Quantities	01	-	-	01
3.	Different Type of Radiation & their Detecting Eqpts and Handling Uses of PPE	01	-	02	03
4.	Contamination & Decontamination	01	01	02	04
5.	Practical on Donning, Doffing	-	-	01	01
6.	Biological Effect of Radiation	01	-	-	01
7.	Classification & Characteristics of CWA	02	-	-	02
8.	Chemical Detection Eqpts	-	-	02	02
9.	Physical Protection from CWA	01	-	-	01
10.	Health Effect of CWA	01	-	-	01
11.	Medical Intervention for CWA	01	-	-	01
12.	Decontamination Procedure for CWA	01	-	-	01
13.	Classification & Characteristics of BWA	02	-	-	02
14.	Health Effect of BWA	01	-	-	01
15.	Physical Protection from BWA & Medical Intervention for BWA	01	-	-	01
16.	Decontamination Procedure for BWA	01	-	-	01
17.	SOP on CBRN Emergency	01	-	-	01
18.	Final Test	02	-	-	02
	Total	19	01	07	27

Note:- Practical Stations : Considering time constraint, practical stations should be 05 (08 trainees in each practical station i.e. $08 \times 5 = 40$) for 40 trainees during the training so that sufficient time can be provided to the trainees for practice.

6. TOTAL NUMBERS OF NDRF TRAINER REQUIRED FOR THE SDRF TRAINING:

SDRF trainees will be 40, under mentioned rank-wise trained instructors are suggested to be provided by NDRF:-

a. For MFR, CSSR, CBRN, Eqpts Maintenance and Flood Rescue & Motorized Boat Handling Courses:-

1. Inspector/SI – 04
2. HC – 02
3. Const – 04
- Total – 10

b. For Rope Rescue Course

1. Inspector/SI – 02
2. HC – 01
3. Const – 06
- Total – 09

7. EVALUATION METHOD:

Evaluation of trainees should be done in the following manner:

Sr. No	Name of Module	Written	Practical	Total
1.	MFR	100	200	300
2.	CSSR	100	200	300
3.	Flood Rescue and Motorized Boat Handling	50	100	150
4.	Eqpts Maintenance & Rope Rescue	50	100	150
5.	CBRN	50	100	150

GRADING SYSTEM WILL BE AS FOLLOWS:

- | | | |
|---------------|---|---------------|
| A+ | = | 90 to 100% |
| A | = | 80 to 90% |
| B | = | 70 to 80% |
| C | = | 60 to 70% |
| D | = | 50 to 60% |
| Not Qualified | = | Less than 50% |

Note : i. The first two formal presentations will be video-taped for participant review. The group exercise usually is not.

- ii. A BOO should be detailed to conduct evaluation test. BOO shall be detailed by the respective Unit Commandant who is entrusted with the responsibility imparting training.

8. COURSE FACULTY DAILY MEETING AGENDA:

- a. Call meeting to order (Co-coordinator facilitates meeting).
- b. Review (Daily Class Evaluation - DCE) "End of Day" participant comments. Focus on needs to improve. Assign responsibility for any needed corrections.
- c. Review the Units presented during the day. What worked and needs improvement?.
 - i. Instructor to carry out self-evaluation.
 - ii. Assistant Instructor, if used evaluates Unit.
 - iii. Critique, if assigned, evaluates Unit.
- d. Review Units to be presented the next day.
 - i. Instructor to review preparations.
 - ii. Co-ordinator reviews logistics needs.
 - iii. Review any special actions such as presentation evaluation.
- e. Identify any problem that needs special attention and make assignments.
- f. Adjourn meeting.



9. BASIC ARRANGEMENT FOR THE NDRF INSTRUCTORS:

Fooding & lodging for the NDRF instructors will be provided by the concern organization as per the norms for which payment will be made by the concern NDRF individual.

10. LEAVE:

No leave will be granted to the trainee during the training/course period except in extreme compassionate and emergent cases.

11. DOCUMENTS:

The trainees should carry following documents/certificates to attend the training/courses:-

- a. Sufficient Stationery/Books.
- b. Movement Order (if the training is conducted at NDRF location.)
- c. Identity Card.
- d. Medical Fitness Certificate.
- e. Uniform Articles including PT Kits.

12. DISCIPLINE:

All personnel detailed on various training/courses should maintain strict discipline while undergoing courses/training.

13. LIST OF EQPT TO BE SENT FROM NDRF UNIT:

While conducting training at SDRF location, following eqpt are suggested to be provided by NDRF Unit for the training purpose:-

Sr. No	Name of Equipment	Qty (In Nos)	Remarks
1.	Reciprocating Saw – PFZ 600	05	CSSR
2.	Circular Saw Hitachi – C8-13” Blade or Circular Saw Big	05	CSSR
3.	Hydraulic Jack 10 Ton	05	CSSR
4.	Chain Saw w/18 : Blade Electric Driven	05	CSSR
5.	Plier 8” Taparia	05	CSSR
6.	Bolt Cutter 14”	05	CSSR
7.	Bolt Cutter 30”	05	CSSR
8.	Chisel	10	CSSR
9.	Crow Bar 24”	20	CSSR
10.	Crow Bar 36”	20	CSSR
11.	Hand Saw	05	CSSR
12.	Tin Snip – Big 12	05	CSSR
13.	Emergency Light 30 mtrs Long	05	CSSR
14.	Claw Hammer	05	CSSR
15.	Sledge Hammer Small	10	CSSR
16.	Sledge Hammer	10	CSSR
17.	File	05	CSSR
18.	Pray Bar	20	CSSR
19.	Extension Cord Long	10	CSSR
20.	Safety Vest	10	CSSR
21.	Chain Saw Replaceable Blade for Wood	05	CSSR
22.	Knee Pad	40 Pair	CSSR
23.	Safety Goggles – UVEX Germany Ultrasonic	40	CSSR
24.	Heavy Duty Work Gloves	40 Pair	CSSR
25.	Carpenter Square	05	CSSR
26.	Back Board Strap	15	CSSR
27.	Back Board Long – Spine Board	05	CSSR
28.	Exhaust Fan 30 mm	05	CSSR
29.	Steel Pips	50	CSSR
30.	Chipping Hammer Hitachi	05	CSSR

Sr. No.	Name of Equipment	Qty (In Nos)	Remarks
31.	Rotary Rescue Saw Petrol Driven	05	CSSR
32.	Angle Cutter – Electric Partner	05	CSSR
33.	Diamond Tip Blade for above Angle Cutter	05	CSSR
34.	Electric Drill Bit Set – Red Box 11x6"x1/2" 213mm	05 Set	CSSR
35.	Rotary Hammer Drill Hitachi DH 24 PB2	05	CSSR
36.	Circular Saw Carbide Tip Blade	05	CSSR
37.	Drill Bosch GBM 10	05	CSSR
38.	Rotary Drill Bit – 200 mm Dia 12" Long SDS Type	05	CSSR
39.	Rotary Rescue Saw for Concrete Diamond Tip 12" Original	05	CSSR
40.	Chipping Hammer Bits Flat	05	CSSR
41.	Chipping Hammer Bits Pointed	05	CSSR
42.	Circular Saw for Metal Cutting (Diamond Type)	05	CSSR
43.	Rotary Rescue Saw Blade for Wood	10	CSSR
44.	Safety Helmet	40	Can be provided by SDRF
45.	Safety Goggles Full Eye Cover	40	
46.	Generator Set (2.4 KVA)	05	
47.	Mega Phone	05	CSSR
48.	Come Along	05	CSSR
49.	Portable Inflatable Emergency System with Generator	05	CSSR
50.	Safety Shoes Full Size	40 Pair	CSSR
51.	Face Mask (Universal Size)	80	CSSR
52.	Portable Drill Machine	05	CSSR
53.	Tape Measuring (50 mtr)	05	CSSR
54.	Drill Machine Bit for Concrete	05	CSSR
55.	RAM Set	05	CSSR
56.	Gas Cutting Eqpts	05	CSSR
57.	Air Lifting Bag	05	CSSR
58.	Ear Plug	40	CSSR
59.	Dust Mask	80	CSSR
60.	Reciprocating Saw Blade for Wood	05	CSSR
61.	Reciprocating Saw Blade for Metal	20	CSSR

Sr. No.	Name of Equipment	Qty (In Nos)	Remarks
62.	Composite Blade / Abrasive Blade for Metal & Concrete	10 Each	CSSR
63.	MFR Kit Bag	05	MFR
64.	Adult & Infant Mannequin	10 Each	MFR
65.	MFR PPE	80	MFR
66.	Child Birth Mannequin	10	MFR
67.	Splints (all Types)	10 Set	MFR
68.	Oxygen Cylinders with Accessories	05	MFR
69.	Non Re-breather Mask & Nasal Canella	05 Each	MFR
70.	Bag Valve Mask (Adult & Infant)	05	MFR
71.	Safety Cones & Scene Tape	20	MFR
72.	CBRN PPE	40	CBRN
73.	Detection Eqpts like- Teletector, G M Survey Meter, Portable Alfa Monitor (Alsin), Direct Reading Dosimeter etc.	05 Each	

14. EXPENDITURE DETAILS OF MFR (MODULE-'A') FOR SDRF

Sr. No.	Name of Items	Qty	Rate (in Rs.)	Amount (in Rs.)	Remarks
1.	Latex Gloves	130	20	2,600	@ 3 Pairs Per Trainee
2.	Face Mask	90	08	720	@ 2 Nos Per Trainee
3.	Face Shield	01 Roll	200	200	
4.	Triangular Bandage	40 Nos	20	800	@ 1 No Per Trainee
5.	Roller Bandage 3"	30 Nos	06	180	
6.	Roller Bandage 6"	30 Nos	08	240	
7.	Elastic Bandage 3"	12 Nos	50	600	
8.	Elastic Bandage 6"	12 Nos	80	960	
9.	Bulky Dressing	6 Pkt	50	300	
10.	Adhesive Tape	08 Nos	50	400	
11.	Dermicel Tape	08 Nos	45	360	
12.	Paper Cup	20 Nos	03	60	
13.	Nasal Cannula	06 Nos	25	150	

Sr. No.	Name of Items	Qty	Rate (in Rs.)	Amount (in Rs.)	Remarks
14.	Non Re-breather Mask	06 Nos	40	240	
15.	Triage Ribbon Green (50 M Roll)/Tape	01 Roll	30	30	
16.	Triage Ribbon Red (50 M Roll) Tape	01 Roll	30	30	
17.	Triage Ribbon Black (50 M Roll) Tape	01 Roll	30	30	
18.	Triage Ribbon Yellow (50 M Roll) Tape	01 Roll	30	30	
19.	Obstetrical Kit Disposable	02 Nos	500	1,000	
20.	Multi Trauma Dressing	06 Nos	85	510	
21.	Cell Medium	24 Nos	15	360	
	Total			9,800	

STATIONARY (FOR MFR MODULE)

Sr. No.	Name of Items	Qty	Rate (in Rs.)	Amount (in Rs.)	Remarks
1.	A4 Size Paper	03 Rim	200	600	
2.	Pen – Red & Blue	20 Nos	10	200	
3.	Register	03 Nos	40	120	
4.	Marker Pen	24 Nos	25	600	
5.	Drawing Sheet	40 Nos	10	400	
6.	Whitener	04 Nos	50	200	
7.	Pencil	01 Pkt	25	25	
8.	Gum Bottle	01 Nos	40	40	
9.	Eraser	01 Pkt	50	50	
10.	Sharpener	01 PKT	50	50	
11.	Folder	04 Nos	20	80	
12.	File	06 Nos	10	60	
13.	High Lighter	02 Nos	50	100	
14.	MFR Book	41 Nos	200	8,200	
15.	Plastic Scale	02 Nos	15	30	
16.	Stapler	01 Nos	170	170	
17.	Stapler Pin	01 Pkt	35	35	
18.	Duster	04 Nos	30	120	
19.	Certificate	40 Nos	120	4,800	
20.	Sketch Pen	01 PKT	40	40	

Sr. No.	Name of Items	Qty	Rate (in Rs.)	Amount (in Rs.)	Remarks
21.	Cartridge	02 Nos	3000	6,000	
22.	Flip Chart (Drawing Sheet)	100 Nos	10	1,000	
23.	Duct Tape	50 Nos	20	1,000	
24.	Cellophane Tape	20 Nos	20	400	
	Total			24,320	

EXPENDITURE OF POL FOR MFR MODULE

Sr. No.	Name of Items	Qty	Rate (Rs. Per Ltr)	Amount (in Rs.)	Remarks
1.	Petrol	05 Ltrs	80	400	
2.	K/Oil	30 Ltrs	20	600	
3.	M/Oil	01 Ltr	270	270	
	Total			1,270	

TOTAL EXPENDITURE FOR MFR MODULE

Sr. No.	Nomenclature	Amount (in Rs.)	Remarks
1.	Expendable MFR Items	9,800	
2.	Stationary Items	25,040	
3.	Expenditure of POL	1,270	
	Total Expenditure	36,110	

15. EXPENDITURE DETAILS OF CSSR (MODULE-'B') FOR SDRF

Sr. No.	Name of Items	Qty	Rate (in Rs.)	Amount (in Rs.)	Remarks
1.	Dust Mask	100 Nos	35	3,500	@ 2 Nos Per Trainee
2.	Ear Plug	45 Pairs	12	540	@ 1 Pair Pper Trainee
3.	Spray Paint	06 Nos	235	1,410	
4.	Pencil Cell	160 Nos	10	1,600	
5.	Medium Cell	24 Nos	15	360	
6.	8" Peni Nails	2 Kg	100	200	
7.	16" Peni Nails	3 Kg	100	300	
8.	Cement	20 Bags	340	6,800	@ 2 Bags Per Slab + Cinder Block
9.	8 mm Steel Bar (Sariya)	96 Kg	50	4,800	@ 12 Kg for Per Slab

Sr. No.	Name of Items	Qty	Rate (in Rs.)	Amount (in Rs.)	Remarks
10.	Binding Wire	4 Kg	80	320	@ ½ Kg for Per Slab
11.	Stone Chips (Gitti)	96 Cu Ft	80	7,680	@ 12 Cu Ft for Per Slab
12.	Sand	60 Cu Ft	30	1,800	@ 5 Cu Ft for Per Slab + 20 Cu Ft for Cinder Block
13.	Bricks	500 Nos	10	5,000	@ 250 Bricks for One Prop
14.	6 mm Plywood (8x4) (32 x 4 = 128) Ft	128 Ft	20	2,560	@ 32 Cu Ft Per Plywood
15.	GI Sheet 22 Gauge 10' x 2.75'	06 Nos	700	4,200	
16.	Wooden Log	04 Nos	3000	12,000	
17.	Steel Plate 3 mm	300 Kg	60	18,000	
18.	Abrasive Blade	08	350	2,800	
	Total			73,870	

STATIONARY FOR CSSR MODULE

Sr. No.	Name of Items	Qty	Rate (in Rs.)	Amount (in Rs.)	Remarks
1.	CSSR Book	41 Nos	150	6,150	
2.	A4 Size Paper	03 Rim	200	600	
3.	Pen – Red & Blue	12 Nos	10	120	
4.	Register	03 Nos	40	120	
5.	Marker Pen	10 Nos	25	250	
6.	Whitener	02 Nos	50	100	
7.	Pencil	01 Pkt	25	25	
8.	Gum Bottle	01 Nos	40	40	
9.	Eraser	05 Nos	05	25	
10.	Sharpener	05 Nos	05	25	
11.	Folder	04 Nos	20	80	
12.	File	06 Nos	10	60	
13.	High Lighter	02 Nos	50	100	
14.	Plastic Scale	02 Nos	15	30	
15.	Stapler	01 Nos	170	170	
16.	Stapler Pin	01 Pkt	50	50	

Sr. No.	Name of Items	Qty	Rate (in Rs.)	Amount (in Rs.)	Remarks
17.	Duster	04 Nos	30	120	
18.	Certificate	40 Nos	120	4,800	
19.	Sketch Pen	01 Pkt	40	40	
20.	Cartridge	01 Nos	3000	3,000	
	Total			15,905	

EXPENDITURE OF POL FOR CSSR MODULE

Sr. No.	Name of Items	Qty	Rate (Rs Per Ltr.)	Amount (in Rs.)	Remarks
1.	Petrol	50 Ltrs	80	4,000	
2.	2 T Oil	02 Ltrs	200	400	
3.	K/Oil	40 Ltrs	20	800	
4.	M/Oil	04 Ltrs	270	1,080	
5.	Hydraulic Oil	02 Ltrs	300	600	
	Total			6,880	

TOTAL EXPENDITURE FOR CSSR MODULE

Sr. No.	Nomenclature	Amount (in Rs.)	Remarks
1.	Expendable CSSR Items	73,870	
2.	Stationary Items (CSSR)	15,905	
3.	Expenditure of POL (CSSR)	6,880	
	Total Expenditure	96,655	

16. STATIONARY FOR FLOOD RESCUE AND MOTORIZED BOAT HANDLING (MODULE - 'C') FOR SDRF

Sr. No.	Name of Items	Qty	Rate (in Rs.)	Amount (in Rs.)	Remarks
1.	A4 Size Paper	01 Rim	200	200	
2.	Pen Red & Blue	04 Nos	10	40	
3.	Register	02 Nos	40	80	
4.	Marker Pen	04 Nos	25	100	

Sr. No.	Name of Items	Qty	Rate (in Rs.)	Amount (in Rs.)	Remarks
5.	Whitener	01 No	50	50	
6.	Pencil	05 Nos	02	10	
7.	Gum Bottle	01 Nos	40	40	
8.	Eraser	02 Nos	05	10	
9.	Sharpener	02 Nos	05	10	
10.	Folder	01 No	20	20	
11.	File	02 Nos	10	20	
12.	High Lighter	01 No	50	50	
13.	Plastic Scale	01 No	15	15	
14.	Stapler	01 No	170	170	
15.	Stapler Pin	01 Pkt	50	50	
16.	Duster	02 Nos	30	60	
17.	Certificate	40 Nos	120	4,800	
18.	Sketch Pen	01 Pkt	40	40	
	Total			5,765	

EXPENDITURE OF POL FOR MOTORIZE MODULE

Sr. No.	Name of Items	Qty	Rate (Rs per Ltr)	Amount (in Rs.)	Remarks
1.	Petrol	150 Ltrs	80	12,000	
2.	M/Oil	02 Ltrs	270	540	
	Total			12,540	

TOTAL EXPENDITURE FOR MOTORIZE MODULE

Sr. No.	Nomenclature	Amount (in Rs.)	Remarks
1.	Stationary Items (Motorize Course)	5,765	
2.	Expenditure of POL (Motorize Course)	12,540	
	Total Expenditure	18,305	

17. EXPENDITURE DETAILS FOR EQUIPMENT MAINTENANCE & ROPE RESCUE (MODULE – 'D') FOR SDRF

Sr. No.	Name of Items	Qty	Rate (in Rs.)	Amount (in Rs.)	Remarks
1.	Abrasive Blade	04 Nos	350	1,400	
2.	Dust Mask	40 Nos	35	1,400	
3.	Ear Plug	40 Pair	03	120	@ 1 Pair Each Trainee
4.	Canvas Mittens	20 Pairs	350	7,000	
5.	8 mm Kernmantle Rope	100 Mtr	60	6,000	
6.	8 mm Dynamic Rope	300 Mtr	62	18,600	200 Mtr for Base
7.	12 mm Meremental Rope	100 Mtr	65	6,500	
8.	Ascender	02 Pair	6300	12,600	
9.	Single Pulley	04 Nos	1500	6,000	
10.	Seat Harness	05 Nos	2900	14,500	
11.	3 mm Para Cord	40 Mtr	10	400	
12.	Helmet	05 Nos	300	1,500	
13.	Knee Pad	05 Nos	1000	5,000	
	Total			81,020	

STATIONARY FOR EQUIPMENT MAINTENANCE & ROPE RESCUE MODULE FOR SDRF

Sr. No.	Name of Items	Qty (in Rs.)	Rate (in Rs.)	Amount	Remarks
1.	A4 Size Paper	01 Rim	200	200	
2.	Pen Red & Blue	04 Nos	10	40	
3.	Register	02 Nos	40	80	
4.	Marker Pen	04 Nos	25	100	
5.	Whitener	01 No	50	50	
6.	Pencil	05 Nos	02	10	
7.	Gum Bottle	01 Nos	40	40	
8.	Eraser	02 Nos	05	10	
9.	Sharpener	02 Nos	05	10	
10.	Folder	01 No	20	20	
11.	File	02 Nos	10	20	

Sr. No.	Name of Items	Qty	Rate (in Rs.)	Amount (in Rs.)	Remarks
12.	High Lighter	01 No	50	50	
13.	Plastic Scale	01 No	15	15	
14.	Stapler	01 No	170	170	
15.	Stapler Pin	01 Pkt	50	50	
16.	Duster	02 Nos	30	60	
17.	Certificate	40 Nos	120	4,800	
18.	Sketch Pen	01 Pkt	40	40	
	Total			5,765	

EXPENDITURE OF POL FOR EQUIPMENT MAINTENANCE & ROPE RESCUE MODULE FOR SDRF

Sr. No.	Name of Items	Qty	Rate (Rs. Per Ltr)	Amount (in Rs.)	Remarks
1.	Petrol	50 Ltrs	80	4,000	
2.	2 T Oil	02 Ltrs	200	400	
3.	K/Oil	20 Ltrs	20	400	
4.	M/Oil	02 Ltrs	270	540	
5.	Hydraulic Oil	01 Ltr	300	300	
	Total			5,640	

TOTAL EXPENDITURE FOR EQUIPMENT MAINTENANCE & ROPE RESCUE MODULE FOR SDRF

Srl No.	Nomenclature	Amount (in Rs.)	Remarks
1.	Expenditure for Equipment Maintenance & Rope Rescue Module	81,020	
2.	Stationary Items (Eqpt Course)	5,765	
3.	Expenditure of POL (Eqpt Course)	5,640	
	Total Expenditure	92,425	

Note: After termination of the Module, the above mentioned non consumable items may be handed over to SDRF.

18. EXPENDABLE ITEMS AND STATIONARY FOR CBRN (MODULE- 'E') FOR SDRF

Sr. No	Name of Items	Qty	Rate (in Rs.)	Amount (in Rs.)	Remarks
1.	Pencil Cell	25	10	250	
2.	Medium Cell	10	15	150	

Sr. No.	Name of Items	Qty	Rate (in Rs.)	Amount (in Rs.)	Remarks
3.	A-4 Size Paper	01 Rim	200	200	
4.	Pen Red & Blue	04 Nos	10	40	
5.	Register	02 Nos	40	80	
6.	Marker Pen	04 Nos	25	100	
7.	Whitener	01 No	50	50	
8.	Pencil	05 Nos	02	10	
9.	Eraser	02 Nos	05	10	
10.	Sharpener	02 Nos	05	10	
11.	Folder	01 No	20	20	
12.	File	02 Nos	10	20	
13.	High Lighter	01 No	50	50	
14.	Plastic Scale	01 No	15	15	
15.	Stapler	01 No	170	170	
16.	Stapler Pin	01 Pkt	50	50	
17.	Duster	02 Nos	30	60	
18.	Certificate	40 Nos	120	4,800	
19.	Sketch Pen	01 Pkt	40	40	
	Total			6,125	

SUMMARY OF TOTAL EXPENDITURE FOR ALL MODULE

Sr. No.	Nomenclature	Amount (in Rs.)	Remarks
1.	MFR Module	36,110	
2.	CSSR Module	96,655	
3.	Flood Rescue & Motorized Boat Handling Module	18,305	
4.	Equipment Maintenance & Rope Rescue Module	92,425	
5.	CBRN Module	6,125	
	Total Expenditure	2,49,620	

Note: (a) Cost calculated as per the current prevailing market rate.

(b) If the training is conducted at SDRF location, tentative training cost may vary. Transportation charge for transporting various Disaster Management Equipments from NDRF Unit location to concern SDRF location and travelling allowance for NDRF instructors will be included.

(c) Transportation charge of DM eqpts can be calculated based on the place of the training & from where the eqpts will be transported and also considering mode of carrying eqpts either from rail or road.

DAILY ATTENDANCE SHEET

S/No.	Participant Name	Day 1	Day 2	Day 3	Day 4	Day 5
01						
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
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27						
28						

EQUIPMENT / MATERIALS CHECKLISTS

Sr. No.	Items	Quantity	Source
1.	Equipment Required Multimedia Projectors with all accessories	01	
2.	Flip Chart Easel Stands	04	
3.	Photocopier	01	
4.	Computer with Printer	01	
5.	Multiplug Outlets	04	
6.	Extension Cords and Adaptors	04	
7.	Podium	01	
8.	Remote Microphone W/Speakers	01	
9.	Camcorders W/tripods (8 mm or VHS)	04	
10.	Video Player	01	
11.	Tool Kit	01	
12.	Transformers/Adaptors	01	
13.	Stapler with Extra Staples	01	
14.	3 Hole Punch	01	
15.	Ruler .5 to 1.0 Meter	01	
16.	Laser Pointer	01	
17.	Marker (Red, Blue & Green) Pen	05 each	
18.	White Board	01	

MFR COURSE EVALUATION SCHEDULE

Lesson	Lesson Post-Test Not Scored	Practical Exercises Successful Performance Required	Written Unit Tests Passing Score Required
1.	Course Introduction		
2.	EMS and the MFR		
3.	Infectious Disease and Precautions		
4.	The Incident		
5.	Anatomical References		
6.	Patient Assessment	Patient Assessment and Taking Vital Signs	
7.	BLS and CPR	CPR and FBAO	
8.	Oxygen Therapy	Administering Oxygen, Mask, BVM and Airways	

Lesson	Lesson Post-Test Not Scored	Practical Exercises Successful Performance Required	Written Unit Tests Passing Score Required
9.	Hemorrhage and Shock		
10.	Soft-Tissue Injuries	Controlling Hemorrhage, Tourniquet, Treating and Bandaging	
11.	Musculoskeletal Injuries	Immobilization and Splinting	Unit Test-1
12.	Skull, Spinal and Chest Injuries	Treating Injuries, Using Cervical Collar	
13.	Bums and Environmental Emergencies		
First Group Presentation (Passing Score Required)			
14.	Poisoning		
15.	Cardiovascular Emergencies and Abdominal Distress		
16.	Respiratory Emergencies		
17.	Seizures, Diabetic Emergencies and CVA		
18.	Childbirth	Infant Delivery and Complications, Mother and Infant Assessments	
19.	Lifting and Moving Patients	Securing and Moving Patients on Spine Boards	
Group Exercise			
20.	Report Writing and Preparation for the Next Cell		
21.	MCI/Triage	Triaging Patients using S.T.A.R.T	Unit Test-2
Second Group Presentation (Passing Score Required)			
22.	Course Review		Final Written Test
23.	Final Practical Evaluation - Three Stations Passing Score Required		
	MEDICAL	TRAUMA	CHILDBIRTH

TRIAGE EXERCISE

LIST OF INJURIES

VICTIMS #	CONDITION	MENTAL STATUS	RESP.	PERF.	COLOR
1.	UNCONSCIOUS	U	12	<2	RED
2.	WRIST FRACTURE	C	16	<2	GREEN
3.	FBAO	U	4	<2	RED
4.	ANKLE FRACTURE	C	25	<2	YELLOW
5.	UNCONSCIOUS	U	20	<2	RED
6.	HIP FRACTURE	C	25	<2	YELLOW
7.	BLUNT TRAUMA, LIGHT	C	18	<2	GREEN
8.	HYSTERIA	C	28	<2	GREEN
9.	KNEE FRACTURE	C	18	RPP	YELLOW
10.	ANKLE FRACTURE	C	25	RPP	YELLOW
11.	DEAD	N/R	00	NRP	BLACK
12.	NO TRAUMA	C	20	<2	GREEN
13.	SCALP WOUND	C	32	NRP	RED
14.	SHARP CERVICAL PAIN	C	18	<2	YELLOW
15.	DEAD	N/R	00	NRP	BLACK
16.	CLOSED ABDOMINAL TRAUMA	C	22	RPP	YELLOW
17.	TRAUMA TO RIGHT THIGH	C	18	RPP	YELLOW
18.	CLOSED CHEST TRAUMA	C	32	>2	RED

U – UNCONSCIOUS

C – CONSCIOUS

NRP – NO RADIAL PULSE

RPP – RADIAL PULSE PRESENT

NR – NO RESPONSE

CSSR INSTRUCTORS' WORKSHOP LESSON EVALUATION FOR PARTICIPANTS

Do not write your name on this form. Please complete a copy of this form at the end of every lesson.

You evaluations are very valuable toward improving the course. For ratings, please use a scale system from 1 to 5 as follows:

1 Very Poor	2 Poor	3 Average	4 Good	5 Excellent
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Course Location..... Date.....

Please fill in the required information	Lesson Number	Lesson Name
	Instructor's Name	
Use a scale from 1 to 5 as described above to rate the various lesson components	Lesson Rating (Rate 1 to 5) Content..... Instructor..... Method..... Workbook..... Interaction.....	
Mark your selection with an "X"	Instruction Level (Mark with an "X") Too basic..... Appropriate..... Too advanced.....	
	Duration (Mark with an "X") Too short..... Appropriate..... Too long.....	
	Usefulness Was this lesson useful to you? Yes..... No.....	
Rate from 1 to 5	Overall Less Rating Taking all the above into consideration. I rate this lesson	
If you need additional, space please use the back of the sheet.	Comments and Observations	
<i>Thank you for your help. Your input is valuable. Please turn in this completed form to the instructor.</i>		

FINAL PRACTICAL EVALUATION

DEMONSTRATION AND PRACTICE CHECKLIST

Group #	Team Activity*	Station:	
		Completed	Not Completed
1.	Squad organized CSSR functions among members at the start of the operation		
2.	Gathered information based on the initial description and image provided in Phase – I		
3.	Developed an action plan to conduct search, based on site sketch		
4.	Located the victim using the hailing method		
5.	Placed the appropriate make to indicate the presence of a potential live victim		
6.	Used the proper techniques to break and breach walls		
7.	Built window/door shoring properly inside the module		
8.	Correctly performed initial assessment of patient and immobilized him on backboard		
9.	Extricated the patient, using the techniques for lifting and stabilizing loads		
10.	Called out all required safety rules while carrying out their tasks		
11.	Work was conducted as a team, with a good distribution of tasks		

**Activities in bold type require satisfactory performance for a passing grade on this evaluation*

Observations :		
Pass	Instructor :	
Fail	Course Location :	Date :
Instructor Signature		

STATION- 1 :- TRAUMA

SCORE FORM (CONT'D)

Participant's Name..... Date :

Neck..... Assess/palpate..... 2.....
(Can be done before immobilizing)

Thorax..... Assess/palpate..... 2.....

Abdomen..... Assess/palpate..... 2.....

Pelvis..... Assess/palpate..... 2.....

Lower extremities..... Assess/palpate..... 2.....

Distal pulse..... 2.....

Sensation/motor function..... 2.....

Upper extremities..... Assess/palpate..... 2.....

Distal pulse..... 2.....

Sensation/motor function..... 2.....

Rotation..... Observe/palpate dorsal region..... 2.....

Pre-Hospital Treatment

Fractures..... Correct immobilization device..... 5.....

Correct application..... 5.....

Correct position..... 2.....

Shock..... Maintain body heat..... 2.....

Emotional Support..... 3.....

Indicate when ready to transport patient..... 3.....

Total Points Possible : 100

Minimum Passing Score : 80 points

Score.....

FINAL PRACTICAL EVALUATION

STATION 2 : MEDICAL

SCORE FORM

Participant's Name..... Date :

	Points	Completed
Secure the scene.....	4.....	<input type="checkbox"/>
Personal protection.....Universal precautions.....	4.....	<input type="checkbox"/>
State of consciousness (shake and call).....	3.....	<input type="checkbox"/>
Initial assessment..... Patient airway.....	5.....	<input type="checkbox"/>
Breathing.....	5.....	<input type="checkbox"/>
Circulation.....	5.....	<input type="checkbox"/>
Condition.....	1.....	<input type="checkbox"/>
Physical Exam.....	5.....	<input type="checkbox"/>
Interview..... Patient.....	2.....	<input type="checkbox"/>
Family.....	2.....	<input type="checkbox"/>
Witnesse.....	2.....	<input type="checkbox"/>
General impression..... (MFR's impression).....	4.....	<input type="checkbox"/>
Administer oxyge.....	3.....	<input type="checkbox"/>
Explain Appropriate treatment to instructor.....	3.....	<input type="checkbox"/>
Preparation for transport.....	1.....	<input type="checkbox"/>
Indicate when ready to transport patient.....	1.....	<input type="checkbox"/>

Total Points Possible : 50

Minimum Passing Score : 40 points

Score.....

Instructor's Name.....

Instructor's Signature

FINAL PRACTICAL EVALUATION

STATION 3 : CHILDBIRTH

SCORE FORM

Participant's Name Date :

	Points	Completed
Secure the scene.....	4.....	<input type="checkbox"/>
Personal protection..... Universal precautions.....	4.....	<input type="checkbox"/>
Initial Assessment..... State of consciousness.....	1.....	<input type="checkbox"/>
Patient airway.....	5.....	<input type="checkbox"/>
Breathing.....	5.....	<input type="checkbox"/>
Circulation.....	5.....	<input type="checkbox"/>
Condition.....	1.....	<input type="checkbox"/>
Patient interview.....	3.....	<input type="checkbox"/>
Childbirth..... Prepare patient area.....	1.....	<input type="checkbox"/>
Prepare newborn area.....	1.....	<input type="checkbox"/>
Patient position.....	1.....	<input type="checkbox"/>
Hold/support newborn.....	5.....	<input type="checkbox"/>
Initial assessment (Newborn).....	5.....	<input type="checkbox"/>
Manage umbilical cord.....	5.....	<input type="checkbox"/>
Manage placenta.....	1.....	<input type="checkbox"/>
Preparation for transport.....	2.....	<input type="checkbox"/>
Indicate when ready to transport patient.....	1.....	<input type="checkbox"/>

Total Possible Points: 50

Minimum Passing Score : 40 points

Score.....

Instructor's Name.....

Instructor's Signature

EQUIPMENT PROFICIENCY EVALUATION FORM

Participant Name _____

Course Location _____ Date _____

Equipment Name > S = Satisfactory U = Unsatisfactory	Rotary Rescue Saw		Circular Saw		Chain Saw		Reciprocating Saw		Chipping Hammer		Ratcheted Puller		Generator		Rotary Hammer Drill		Angle Cutter	
Evaluation Criteria	S	U	S	U	S	U	S	U	S	U	S	U	S	U	S	U	S	U
Presented and described the equipment																		
Listed the safety precautions for use																		
Identified the steps for proper operation of the equipment																		
Described solutions to common problems that the facilitator poses																		
Fully describe basic maintenance for the equipment item																		
Correctly operated the equipment																		
Evaluator's Signature :																		

OBSERVATIONS:

Rotary Rescue Saw: _____

Circular Saw: _____

Chain Saw: _____

Reciprocating Saw: _____

Chipping Hammer: _____

Ratcheted Puller: _____

Generator: _____

Rotary Hammer Drill: _____

Angle Cutter: _____



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