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the tsunami. They can only deal with the consequences of a tsunami. As I mentioned, we have in place a very elaborate, sophisticated Tsunami Warning System and I will be quite happy to send to the hon. Member a detailed Technical Note on the subject.

SHRI SANJAY DINA PATIL (MUMBAI NORTH EAST): Madam Speaker, during a mock drill carried out, many people had little or no idea as to what was going on. When the siren sounded, there were no signs, no diagrams, no direction etc. and in such a drill conducted in Bangalore a woman was reported to have died. The volunteers do not have any specific training. Does the Government plan to have a specific training programme conducted for the volunteers?

I would also like to know as to why our schools are not included in the mock drill.

SHRI P. CHIDAMBARAM: Madam, many mock drills have been conducted throughout the country. This question relates to the mock drill that was conducted in Delhi. The mock drill is preceded by a very elaborate campaign. I am certainly not saying that in each one of the mock drills conducted earlier this protocol was followed. But it was followed in Delhi. We distributed fliers, preparedness programmes were conducted, a mock drill was conducted in schools, malls, hotels, orientation and sensitization workshops were held, public lectures and awareness generation programmes were conducted. There was a preparatory mega mock drill and finally the mock drill was conducted. In fact, one of the objectives of this mock drill is to assess the strengths and weaknesses of our system. A large number of positives have been identified. At the same time, a large number of negatives have also been identified. I have clearly requested the National Disaster Management Authority that in all future mock drills conducted anywhere in the country, they should apply the lessons of the elaborate Delhi mock drill and run through a programme of preparedness before the mock drill is conducted. In fact, the preparedness stage runs for about two months before the mock drill is



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conducted. In future, all mock drills will follow the protocol that was followed in Delhi.

श्री अर्जुन राम मेघवाल (बीकानेर): अध्यक्ष जी, आपने मुझे पूरक प्रश्न पूछने का अवसर दिया, इसके लिए मैं आपको धन्यवाद देता हूँ। मॉक ड्रिल से संबंधित डिस्ट्रिक्ट में भी एक डिस्ट्रिक्ट डिजास्टर मैनेजमेंट बना हुआ है। डिस्ट्रिक्ट कलेक्टर उसके हेड होते हैं, जो कई बार मॉक ड्रिल भी करते हैं। आजकल देश में रोड एक्सीडेंट्स बहुत बढ़ रहे हैं। जो सड़क दुर्घटनाएँ होती हैं, वह करीब सुबह दो बजे से लेकर सुबह छः बजे के बीच में ज्यादा होती हैं। जब रोड दुर्घटना होती है तो यात्री भी उस यात्री को सहायता पहुँचाने के लिए रुकते नहीं हैं।

(11/1150/rs/raj)

अगर वह किसी डिस्ट्रिक्ट हॉस्पिटल, कम्युनिटी हेल्थ सेंटर, प्राइमरी हेल्थ सेंटर या एएनएम सेंटर में पहुँच जाता है तो वहाँ पर डाक्टर नहीं मिलता है, स्टाफ नहीं मिलता है। अगर स्टाफ मिल जाता है तो ब्लड नहीं मिलता है। अगर ब्लड मिल जाता है तो दवाई नहीं मिलती है। मेरा आपके माध्यम से यह कहना है कि क्या मॉक ड्रिल का सिस्टम कमी किसी डिस्ट्रिक्ट हॉस्पिटल में किया है? मैं आपके माध्यम से यह जानना चाहता हूँ।

SHRI P. CHIDAMBARAM: Madam, I am afraid road accidents would not qualify as disasters. We are talking about disasters and disaster management. Road accidents are matters that concern roads and the kind of policing on the roads. These are matters that fall within the State Government. But I do know that the National Highways Authority of India has a scheme of patrols, telephones, etc. and they have also a scheme to locate hospitals along the national highways. I cannot give the details but road accidents will not fall under disaster management.

SHRI PREM DAS RAI (SIKKIM): Thank you, Madam. I would like to inform this august House that on the 18<sup>th</sup> of September, there was a massive earthquake in Sikkim and the hon. Minister had also visited. At that time I had also brought to his notice that the NDRF was not acclimatized to do the kind of work which is required in the mountains.





## **Annexure-2:**

### **Annexure-2: Mega Mock Drill Report For North-West District**

As per the direction from the NDMA, a state level mock drill was organized by the Delhi Disaster Management Authority (DDMA) on 15 February, 2012. In view of the same, North-West district also organized Mega Mock Drill in District North-West at various locations.

There were 22 selected locations in North-West district for mega mock drill. The emergency operations center (EOC) staff of North-West district along with supervision from the Deputy Commissioner (DC), the Additional District Magistrate (ADM) and Senior Resource person from the NDMA performed their concerned duties. All the emergency support functionaries (ESFs) were informed by emergency operations centre (EOC) staff. The unit-in-charge along with his Civil Defence team reported to the Incident Commander. The Mega Mock Drill started at 1140 hours and culminated at 1350 hours. There were many relief centre camps made by the DDMA North-West. The support from some leading Departments such as the Delhi Fire Service and the Delhi Police was very effective.

There were five hundred and seven schools of Directorate of Education in the North-West district participated in this exercise. The school administration and students practiced DROP, COVER & HOLD in their concerned schools. The staff of Deputy Commissioner (DC) Office North-West and general public present in the office also participated in this exercise. All the occupants of DC office assembled in the garden area of the office on hearing a siren of

vehicle. The Additional District Magistrates (ADM) (North/West) briefed the importance of Emergency preparedness during any disaster. There were about two hundred people present in the garden area for safely evacuation.

The communication system of the North-West district was in the form of wireless TETRA sets among senior officials of the emergency operations center (EOC). The following locations of Mega Mock Drill exercise were:

1. Kanjhawala (Building collapsed)
2. Pooth Kalan (Fire in CNG station)
3. Sultan Puri (Fire in sweet shop)
4. Mangol Puri (Building collapse of a cinema hall)
5. Rohini Sec-7 (Fire at petrol pump)
6. District Court Rohini (Fire in transformer and collapsed parking)
7. Maharaja Agrasen College (Buildings collapsed and buildings cracked)
8. Metro Walk (Fire and collapsed buildings)
9. Madhuban Chowk under pass (Collapsed under pass)
10. MTNL building Shakti Nagar (Collapsed building)
11. Haider Pur in Water Treatment Plant (Chlorine Gas leakage)
12. Ashok Vihar Deep Cinema Market complex (Collapsed building and cracked building)
13. Model Town, Delhi Police station (Collapsed building)
14. Pitam Pura, Delhi Haat (Collapsed parking)
15. Shakur Pur Railway Station (Fire in goods train carrying inflammable liquids like petrol and diesel)



16. Narela, JJ cluster behind police station (Fire in JJ Cluster)
17. Bawana western Yamuna canal (Canal Damaged, Hanuman Temple had collapsed and near JJ cluster was likely to be flooded with water)
18. Delhi Technology University, Daulat Pur, Shahbad, (Minor crack in building)
19. Swami Shardhanand College, Ali Pur (Collapsed building)
20. DSIDC office, Bawana (Fire)
21. Maharishi Balmiki hospital OPD block, Pooth Khurd (Collapsed building and cracked building)
22. Sanjay Gandhi Transport Nagar (Explosion in Trucks carrying various types of automobile and consumers goods)

### 1. Details of Incident at Kanjhawala:

Half portion of building dispensary was collapsed and remaining portion was having cracks due to the earthquake.

#### Scenario:

Half portion of building dispensary was collapsed and some staff/patients of the Dispensary (Delhi govt) had been trapped and were to be rescued.

No of Casualties		
Serious injury	Minor injury	Dead
10	5	2

#### Role of Emergency Support Functionaries (ESFs):

S. No.	Name of the concerned Agency whose assistance was required	Required Equipments/Services	Nearest Hospital	Relief Centre
1	Delhi Police	PCR, Cordoning off the building	1. Sanjay Gandhi Memorial, Mangol Puri	1. Haryana Shakti Senior Secondary School, Kanjhawala Delhi
2	Delhi Fire Service	Search and Rescue tender		
3	Centralized Accident and Trauma Services	Advance life support ambulance	2. Bhram Shakti Hospital, Budd	



	(CATS) Ambulance		Vihar	
4	Municipal Corporation of Delhi (MCD)	JCB and Hydraulic Cutter	3. Maharishi Balmiki Hospital, Pooth Khurd	
5	NDPL	Mobile van having arrangement of disconnection of electricity		
6	Delhi Jal Board	To provide drinking water to the relief centre		
7	Civil Defence	To assist the nodal services		
8	Delhi Traffic Police	To maintain smooth traffic and give advisory to the public		

## 2. Details of incident at Pooth Kalan

Due to heavy tremors of earthquake, the main pipeline of CNG pumps got burst and the gas started leaking.

### Scenario:

Due to leakage of gas and sparking in nearby electricity poll, the CNG pump caught fire. Many vehicles were inside the pump to refill their vehicles. Fire spread quickly due to stock of highly inflammable material involving human life and property.

No of Casualties		
Serious injury	Minor injury	Dead
10	14	3



### Role of Emergency Support Functionaries (ESFs):

S.No.	Name of the concerned Agency whose assistance was required	Required Equipments/Services	Nearest Hospital	Relief Centre
1	Delhi Police	PCR, Cordoning off the building	1. Sanjay Gandhi Memorial, Mangol Puri 2. Bhram Shakti Hospital, Budd Vihar 3. Maharishi Balmiki Hospital, Pooth Khurd 4. Baba Saheb Ambedkar Hospital, Rohini	Govt Boys Sr Secondary School, Pooth Kalan, Delhi
2	Delhi Fire Service	Fire fighting and water tender		
3	Centralized Accident and Trauma Services (CATS) Ambulance	Advance life support ambulance		
4	NDPL	Mobile van having arrangement of disconnection of electricity		
5	Delhi Jal Board	To provide drinking water to the relief centre		
6	Delhi Traffic Police	To maintain smooth traffic and give advisory to the public		
7	Local Staff of CNG station	To maintain advisory to the public		
8	Civil Defence	To assist the nodal services		

### 3. Details of Incident at Sultan Puri

Fire in sweet shop's kitchen in front of Sultan Puri police station



**Scenario:**

Some cooks of the sweet shop were trapped under thick smoke due to fire in gas cylinder inside the sweet corner.

No of Casualties		
Serious injury	Minor injury	Dead
3	2	1

**Role of Emergency Support Functionaries:**

SI No	Name of the concerned Agency whose assistance was required	Required Equipments/Services	Nearest Hospital	Relief Center
1	Delhi Police	PCR, Cordoning off the building	1. Sanjay Gandhi Memorial, Mangol Puri 2. Bhram Shakti Hospital, Budd Vihar 3. Maharishi Balmiki Hospital, Pooth Khurd 4. Baba Saheb Ambedkar Hospital, Rohini	DDA Land Behind Election Office, Police Station Road, Sultan Puri
2	Delhi Fire Service	Fire fighting and water tender		
3	Centralized Accident and Trauma Services (CATS) Ambulance	Advance life support ambulance		
4	NDPL	Mobile van having arrangement of disconnection of electricity		
5	Delhi Jal Board	To provide drinking water to the relief centre		
6	Civil Defence	To assist the nodal services		
7	Delhi Traffic Police	To maintain smooth traffic and give advisory to the public		



#### 4. Details of Incident at Mangol Puri

Kala Mandir cinema hall's building collapsed

##### Scenario:

Due to heavy tremors of earthquake, the main auditorium of Kala Mandir theatre collapsed and all the exit gates got blocked. Many people trapped inside the auditorium were to be rescued

No of Casualties		
Serious injury	Minor injury	Dead
11	20	2

##### Role of Emergency Support Functionaries (ESFs):

S.No.	Name of the concerned Agency whose assistance was required	Required Equipments/Services	Nearest Hospitals	Relief Center
1	Delhi Police	PCR, Cordoning off the building	1. Sanjay Gandhi Memorial, Mangol Puri	Ram Leela Ground near Kala Mandir cinema hall
2	Delhi Fire Service	Search and rescue tender	2. Bhrm Shakti Hospital, Budd Vihar	
3	Centralized Accident and Trauma Services (CATS) Ambulance	Advance life support ambulance	3. Bhagwan Mahavir Hospital	
4	NDPL	Mobile van having arrangement of disconnection of electricity	4. Baba Saheb Ambedkar Hospital, Rohini	
5	Delhi Jal Board	To provide drinking water to the relief		



		centre		
6	Civil Defence	To assist the nodal services		
7	Delhi Traffic Police	To maintain smooth traffic and give advisory to the public		
8	Municipal Corporation of Delhi (MCD)	JCB and hydraulic cutter		
9	Local Staff Involve	To provide proper evacuation		

#### 5. Details of Incident at Rohini Sector-7

Fire in petrol pump near Rohini north police station

#### Scenario:

An underground tank of petrol and diesel burst due to the shaking of the earthquake. The oil had been spread on the surface of petrol pump and further the oil tanker caught fire and explosion took place.

No of Casualties		
Serious injury	Minor injury	Dead
6	10	2

#### Role of Emergency Support Functionaries (ESFs):

SI No	Name of the concerned Agency whose assistance was required	Required Equipments/Services	Nearest Hospitals	Relief Center
1	Delhi Police	PCR, Cordoning off	1. Sanjay Gandhi	DDA Park Opposite



		the building	Memorial, Mangol Puri	Petrol Pump, Sector-7, Rohini
2	Delhi Fire Service	Search and rescue tender	2. Bhram Shakti Hospital, Budd Vihar	
3	Centralized Accident and Trauma Services (CATS) Ambulance	Advance life support ambulance	3. Bhagwan Mahavir Hospital	
4	NDPL	Mobile van having arrangement of disconnection of electricity	4. Baba Saheb Ambedkar Hospital, Rohini	
5	Delhi Jal Board	To provide drinking water to the relief centre		
6	Civil Defence	To assist the nodal services		
7	Delhi Traffic Police	To maintain smooth traffic and give advisory to the public		
8	Municipal Corporation of Delhi (MCD)	JCB and hydraulic cutter		

## 7. Details of Incident at Rohini Court

Parking lot of the court collapsed; there was fire in transformer and cracks in building

### Scenario:

Due to the sudden impact of the earthquake, the roof of the basement parking got collapsed and transformer of Rohini court caught fire due to short circuit and major water pipeline of the court got burst and evacuation of trapped people was required urgently by different ESFs.



No of Casualties		
Serious injury	Minor injury	Dead
63	127	19

#### Role of Emergency Support Functionaries (ESFs):

S. No.	Name of the concerned Agency whose assistance was required	Required Equipments/Services	Nearest Hospitals	Relief Center
1	Delhi Police	PCR, Cordoning off the building	1. Sanjay Gandhi Memorial, Mangol Puri	Bal Bharti Public School, Rohini Delhi near Madhuban Chowk
2	Delhi Fire Service	Search and rescue tender	2. Bham Shakti Hospital, Budd Vihar	
3	Centralized Accident and Trauma Services (CATS) Ambulance	Advance life support ambulance	3. Bhagwan Mahavir Hospital	
4	NDPL	Mobile van having arrangement of disconnection of electricity	4. Baba Saheb Ambedkar Hospital, Rohini	
5	Delhi Jal Board	To provide drinking water and to join the burst or damage pipeline	5. Saroj Hospital	
6	Civil Defence	To assist the nodal services		
7	Delhi Traffic Police	To maintain smooth traffic and give advisory to the public		
8	MCD	JCB and hydraulic cutter		



9	Delhi Transport Corporation	Requirement of two buses—one for the relief centre and one to send the victim to the hospital		
10	Public Works Dept	45 members of National Disaster Response Force (NDRF) for evacuation		

## 7. Details of incident at Maharaja Agrasen College of Engineering, Rohini, Sector-21

Building collapsed and cracks developed

### Scenario:

Main building of Agrasen College collapsed partially.

No of Casualties		
Serious injury	Minor injury	Dead
13	33	2

### Role of Emergency Support Functionaries (ESFs):

S.No	Name of the concerned Agency whose assistance was required	Required Equipments/Services	Nearest Hospitals	Relief Center
1	Delhi Police	PCR, Cordoning off the building	1. Sanjay Gandhi Memorial, Mangol Puri	The Heritage School, Sector-22, Rohini
2	Delhi Fire Service	Search and rescue tender		



3	Centralized Accident and Trauma Services (CATS) Ambulance	Advance life support ambulance	2. Bhram Shakti Hospital, Budd Vihar 3. Bhagwan Mahavir Hospital 4. Baba Saheb Ambedkar Hospital, Rohini
4	NDPL	Mobile van having arrangement of disconnection of electricity	
5	Delhi Jal Board	To provide drinking water and to join the burst or damage pipeline	
6	Civil Defence	To assist the nodal services	
7	Delhi Traffic Police	To maintain smooth traffic and give advisory to the public	
8	Municipal Corporation of Delhi (MCD)	JCB and hydraulic cutter	
9	Delhi Transport Corporation	Requirement of two buses—one for the relief centre and one to send the victim to the hospital	

### 8. Details of Incident at Metro Walk Amusement Park (Shopping Mall/Adventure Park)

Fire in transformer led to collapsed of building of different shops of Metro Walk; swings got breakdown

#### Scenario:

Due to sudden earthquake, all major infrastructures got collapsed.



No of Casualties		
Serious injury	Minor injury	Dead
29	45	7

#### Role of Emergency Support Functionaries (ESFs):

SI No	Name of the concerned Agency whose assistance was required	Required Equipments/Services	Nearest Hospital	Relief Centre
1	Delhi Police	PCR, Cordoning off the building	1. Sanjay Gandhi Memorial, Mangol Puri 2. Bhram Shakti Hospital, Budd Vihar 3. Bhagwan Mahavir Hospital 4. Baba Saheb Ambedkar Hospital, Rohini	Rajkiya Pratibha Vikas Vidhyalya Sec-11, Rohini
2	Delhi Fire Service	Search and rescue tender		
3	Centralized Accident and Trauma Services (CATS) Ambulance	Advance life support ambulance		
4	NDPL	Mobile van having arrangement of disconnection of electricity		
5	Delhi Jal Board	To provide drinking water and to join the burst or damage pipeline		
6	Civil Defence	To assist the nodal services		
7	Delhi Traffic Police	To maintain smooth traffic and give advisory to the public		
8	Municipal Corporation of Delhi (MCD)	JCB and hydraulic cutter		



9	Delhi Transport Corporation	Requirement of two buses—one for the relief centre and one to send the victim to the hospital		
10	Local staff of Metro Walk	To help in evacuation		

### 9. Details of Incident at Madhuban Chowk Underpass

Roof of Madhuban Chowk under pass collapsed

#### Scenario:

Due to heavy tremors, the main roof of underpass of Madhuban Chowk collapsed and caused heavy destruction to moving vehicles and human life. The underpass and main road of the Madhuban Chowk was closed for traffic.

No of Casualties		
Serious injury	Minor injury	Dead
7	14	3

#### Role of Emergency Support Functionaries (ESFs):

S.No.	Name of the concerned Agency whose assistance was required	Required Equipments/Services	Nearest Hospital	Relief Center
1	Delhi Police	PCR, Cordoning off the building	1. Sanjay Gandhi Memorial, Mangol Puri 2. Bhram Shakti Hospital,	MCD Primary School, Opposite Rohini court near Disaster Management Center
2	Delhi Fire Service	Search and rescue tender		
3	Centralized Accident and Trauma Services	Advance life support ambulance		



	(CATS) Ambulance		Budd Vihar	
4	NDPL	Mobile van having arrangement of disconnection of electricity	3. Bhagwan Mahavir Hospital	
5	Delhi Jal Board	To provide drinking water and to join the burst or damage pipeline	4. Baba Saheb Ambedkar Hospital, Rohini	
6	Civil Defence	To assist the nodal services	5. Saroj Hospital	
7	Delhi Traffic Police	To maintain smooth traffic and give advisory to the public		
8	Municipal Corporation of Delhi (MCD)	JCB and hydraulic cutter		
9	Delhi Transport Corporation	Requirement of two buses—one for the relief centre and one to send the victim to the hospital		

#### 10. Details of Incident at Azadpur Industrial Area

MTNL building of Shakti Nagar cracked.

##### Scenario:

Building cracks led to failure of power supply. A large number of people were trapped inside the lift due to power failure. The main control cum server was badly affected and all phone lines got disconnected due to earthquake.



<b>No of Casualties</b>		
Serious injury	Minor injury	Dead
15	28	4

**Role of Emergency Support Functionaries (ESFs):**

SI No	Name of the concerned Agency whose assistance was required	Required Equipments/Services	Nearest Hospital	Relief Center
1	Delhi Police	PCR, Cordoning off the building	1. Sanjay Gandhi Memorial, Mangol Puri	Arya Bhatt Polytechnic
2	Delhi Fire Service	Search and rescue tender	2. Bhram Shakti Hospital, Budd Vihar	
3	Centralized Accident and Trauma Services (CATS) Ambulance	Advance life support ambulance	3. Bhagwan Mahavir Hospital, Pitam Pura	
4	NDPL	Mobile van having arrangement of disconnection of electricity	4. Baba Saheb Ambedkar Hospital, Rohini	
5	Delhi Jal Board	To provide drinking water and to join the burst or damage pipeline	5. Saroj Hospital, Rohini	
6	Civil Defence	To assist the nodal services		
7	Delhi Traffic Police	To maintain smooth traffic and give advisory to the public		
8	Municipal Corporation	JCB and hydraulic		



	of Delhi (MCD)	cutter		
9	MTNL	Local MTNL staff		

### 11. Details of Incident at Haider Pur

Chlorine gas leakage in water treatment plant

#### Scenario:

Chemical disaster and water supply in districts of west, north and north-west badly affected.

No of Casualties		
Serious injury	Minor injury	Dead
10	20	5

#### Role of Emergency Support Functionaries (ESFs):

SI No	Name of the concerned Agency whose assistance was required	Required Equipments/Services	Nearest Hospitals	Relief Centre
1	Delhi Police	PCR, Cordoning off the building	1. Babu Jagjivan Ram Hospital, Jahangir Puri	DDA Park Main Outer Ring Road near western Yamuna canal, Haider Pur
2	Delhi Fire Service	Search and rescue tender	2. Sunder Lal Jain Hospital, Ashok Vihar	
3	Centralized Accident and Trauma Services (CATS) Ambulance	Advance life support ambulance	3. Baba Saheb Ambedkar Hospital, Rohini	
4	NDPL	Mobile van having arrangement of disconnection of	4. ESI	



		electricity	Hospital, Sec-15, Rohini	
5	Delhi Jal Board	To provide drinking water and to join the burst or damage pipeline		
6	Civil Defence	To assist the nodal services		
7	Delhi Traffic Police	To maintain smooth traffic and give advisory to the public		
8	Municipal Corporation of Delhi (MCD)	JCB and hydraulic cutter		
9	Local Delhi Jal Board staff	Evacuation		

## 12. Details of Incident at Ashok Vihar

Building collapsed and cracks developed in Deep Cinema market complex in front of DCP, north-west office

### Scenario:

Two buildings collapsed and three buildings cracked

No of Casualties		
Serious injury	Minor injury	Dead
12	23	2



### Role of Emergency Support Functionaries (ESFs):

S.No	Name of the concerned Agency whose assistance was required	Required Equipments/Services	Nearest Hospitals	Relief Centre
1	Delhi Police	PCR, Cordoning off the building	1. Babu jagjivan Ram Hospital, Jahangir Puri 2. Sunder Lal Jain Hospital, Ashok Vihar 3. Jivodiya Hospital, D Block, Ashok Vihar 4. Agrasen Hospital, Ashok Vihar	Govt Girls Sr Sec School, D Block, Ashok Vihar, Delhi
2	Delhi Fire Service	Search and rescue tender		
3	Centralized Accident and Trauma Services (CATS) Ambulance	Advance life support ambulance		
4	NDPL	Mobile van having arrangement of disconnection of electricity		
5	Delhi Jal Board	To provide drinking water and to join the burst or damage pipeline		
6	Civil Defence	To assist the nodal services		
7	Delhi Traffic Police	To maintain smooth traffic and give advisory to the public		
8	Municipal Corporation of Delhi (MCD)	JCB and hydraulic cutter		
9	Local market associations	To help in evacuation		



### 13. Details of Incident at Model Town

Model Town police station's building collapsed.

#### Scenario:

Due to heavy tremors, the building of Model Town police station collapsed and many constables and other police staff were trapped in the building.

No of Casualties		
Serious injury	Minor injury	Dead
10	20	3

#### Role of Emergency Support Functionaries (ESFs):

SI No	Name of the concerned Agency whose assistance was required	Required Equipments/Services	Nearest Hospitals	Relief Centre
1	Delhi Police	PCR, Cordoning off the building	1. Babu jagjivan Ram Hospital, Jahangir Puri	Delhi Police sports Ground, Kingsway camp, Delhi
2	Delhi Fire Service	Search and rescue tender	2. Sunder Lal Jain Hospital, Ashok Vihar	
3	Centralized Accident and Trauma Services (CATS) Ambulance	Advance life support ambulance	3. Bhagwan Mahavir Hospital, Pitam pura	
4	NDPL	Mobile van having arrangement of disconnection of electricity	4. Baba Saheb Ambedkar Hospital, Rohini	
5	Delhi Jal Board	To provide drinking water and to join the burst or damage	5. Pentamatel	



		pipeline	Hospital	
6	Civil Defence	To assist the nodal services		
7	Delhi Traffic Police	To maintain smooth traffic and give advisory to the public		
8	Municipal Corporation of Delhi (MCD)	JCB and hydraulic cutter		

#### 14. Details of Incident at Pitam Pura, Dilli Haat

Underground parking of Dilli Haat collapsed due to earthquake.

Scenario: Due to collapse of parking, some drivers and local parking attendants were trapped under the debris. Roof of Dilli haat was badly affected.

No of Casualties		
Serious injury	Minor injury	Dead
5	15	2

#### Role of Emergency Support Functionaries (ESFs):

SI No	Name of the concerned Agency whose assistance was required	Required Equipments/Services	Nearest Hospitals	Relief Centre
1	Delhi Police	PCR, Cordoning off the building	1. Babu Jagjivan Ram Hospital, Jahangir Puri 2. Sunder Lal Jain Hospital,	Guru Govind Singh College of Commerce, Pitam Pua, Delhi
2	Delhi Fire Service	Search and rescue tender		
3	Centralized Accident and	Advance life support		



	Trauma Services (CATS) Ambulance	ambulance	Ashok Vihar
4	NDPL	Mobile van having arrangement of disconnection of electricity	3. Bhagwan Mahavir Hospital, Pitam pura
5	Delhi Jal Board	To provide drinking water and to join the burst or damage pipeline	4. Baba Saheb Ambedkar Hospital, Rohini
6	Civil Defence	To assist the nodal services	5. Max Hospital, Pitam Pura
7	Delhi Traffic Police	To maintain smooth traffic and give advisory to the public	
8	Municipal Corporation of Delhi (MCD)	JCB and hydraulic cutter	

### 15. Details of incident at Shakar Pur Railway station

Fire in goods train carrying inflammable liquids such as petrol and diesel

#### Scenario:

A high speed train carrying inflammable materials like LPG bullet tank collided with other train and foot over bridge of the station also collapsed. Two types of disaster took place—first was explosion in LPG tanks and other was obstruction in Railway track further disrupting movement of trains.

No of Casualties		
Serious injury	Minor injury	Dead
11	19	2



### Role of Emergency Support Functionaries (ESFs):

SI No	Name of the concerned Agency whose assistance was required	Required Equipments/Services	Nearest Hospitals	Relief Centre
1	Delhi Police	PCR, Cordoning off the building	1. Saroj Hospital, Rohini	Keshav Maha Vidyalaya, Pitam Pura, Delhi
2	Delhi Fire Service	Search and rescue tender	2. Sunder Lal Jain Hospital, Ashok Vihar	
3	Centralized Accident and Trauma Services (CATS) Ambulance	Advance life support ambulance	3. Bhagwan Mahavir Hospital, Pitam pura	
4	NDPL	Mobile van having arrangement of disconnection of electricity	4. Baba Saheb Ambedkar Hospital, Rohini	
5	Delhi Jal Board	To provide drinking water and to join the burst or damage pipeline	5. Bhagwan Mahavir Hospital	
6	Civil Defence	To assist the nodal services		
7	Delhi Traffic Police	To maintain smooth traffic and give advisory to the public		
8	Municipal Corporation of Delhi (MCD)	JCB and hydraulic cutter		



9	Government Railway Police (GRP)	Local GRP staff of around 100		
10	DTC	Two bus of DTC		
11	Local Engineering division			
12	Crime and Railway Police	Crime and Railway Police staff		

#### 16. Details of Incident at Narela

Fire in JJ Cluster, behind Narela police station

Scenario: Due to short circuit in transformer near the Jhuggis, the fire spread quickly and approx 45 jhuggis gutted

No of Casualties		
Serious injury	Minor injury	Dead
30	45	5

#### Role of Emergency Support Functionaries (ESFs):

SI No	Name of the concerned Agency whose assistance was required	Required Equipments/Services	Nearest Hospitals	Relief Centre
1	Delhi Police	PCR, Cordoning off the building	1. Satyawadi Raja Harish Chandra hospital,	MCD Primary School, Pana Udhaan, Narela
2	Delhi Fire Service	Search and rescue tender		



3	Centralized Accident and Trauma Services (CATS) Ambulance	Advance life support ambulance	Narela 2. Maharishi Balmiki Hospital, Pooth Khurd
4	NDPL	Mobile van having arrangement of disconnection of electricity	2. Sunder Lal Jain Hospital, Ashok Vihar
5	Delhi Jal Board	To provide drinking water and to join the burst or damage pipeline	3. Baba Saheb Ambedkar Hospital, Rohini
6	Civil Defence	To assist the nodal services	4. Babu Jagjiwan Ram, Jahangir Puri
7	Delhi Traffic Police	To maintain smooth traffic and give advisory to the public	
8	Municipal Corporation of Delhi (MCD)	JCB and hydraulic cutter	
9	DTC	Two bus of DTC for food and supply	

### 17. Details of Incident at Bawana

Cracks in embankments of western Yamuna canal near Hanuman Mandir and temple also collapsed due to heavy tremors of earthquake

#### Scenario:

The sudden release of water on agricultural land led to destroy of crops, falling of vehicles and animals in canal. The bridge of the canal also got damaged and the nearby slum cluster was likely to be flooded with water. The Hanuman temple adjoining the canal collapsed. Some priests and followers were likely to have been trapped under the debris. The main electricity polls broke and fell in canal. There was a possibility of having current in canal water.



No of Casualties		
Serious injury	Minor injury	Dead
10	15	4

#### Role of Emergency Support Functionaries (ESFs):

SI No	Name of the concerned Agency whose assistance was required	Required Equipments/Services	Nearest Hospitals	Relief Center
1	Delhi Police	PCR, Cordoning off the building	1. Satyawadi Raja Harish Chandra hospital, Narela  2. Maharishi Balmiki Hospital, Pooth Khurd	MCD Primary School JJ Colony, Bawana, Delhi
2	Delhi Fire Service	Search and rescue tender		
3	Centralized Accident and Trauma Services (CATS) Ambulance	Advance life support ambulance		
4	NDPL	Mobile van having arrangement of disconnection of electricity		
5	Delhi Jal Board	To provide drinking water and to join the burst or damage pipeline		
6	Civil Defence	To assist the nodal services		
7	Delhi Traffic	To maintain smooth traffic and give		



	Police	advisory to the public		
8	Municipal Corporation of Delhi (MCD)	JCB and hydraulic cutter		
9	CRPF Bawana			
10	DTC	One bus		
11	Flood and Irrigation Depts.			
12	Animals and Husbandry Dept			

### 18. Details of Incident at Swami Shardhanand College, Alipur

Building collapsed due to earthquake

#### Scenario:

Building of the college collapsed.

No of Casualties		
Serious injury	Minor injury	Dead
10	35	2

#### Role of Emergency Support Functionaries (ESFs):

SI No	Name of the concerned Agency whose assistance was required	Required Equipments/Services	Nearest Hospitals	Relief Center
1	Delhi Police	PCR, Cordoning off the building	1. Satyawadi Raja Harish	Govt Girls Sr



2	Delhi Fire Service	Search and rescue tender	Chandra hospital, Narela	Sec School, Alipur, Delhi
3	Centralized Accident and Trauma Services (CATS) Ambulance	Advance life support ambulance	2. Maharishi Balmiki Hospital, Pooth Khurd	
4	NDPL	Mobile van having arrangement of disconnection of electricity		
5	Delhi Jal Board	To provide drinking water and to join the burst or damage pipeline		
6	Civil Defence	To assist the nodal services		
7	Delhi Traffic Police	To maintain smooth traffic and give advisory to the public		
8	Municipal Corporation of Delhi (MCD)	JCB and hydraulic cutter		

### 19. Details of incident at Pooth Khurd

Maharishi Balmiki Hospital's OPD block collapsed.

**Scenario:** Due to the earthquake, the main outpatient department (OPD) building of Maharishi Balmiki Hospital got cracked and likely to be collapsed. The patients and other general public have been shifted to nearby relief centre.



No of Casualties		
Serious injury	Minor injury	Dead
3	8	1

**Role of Emergency Support Functionaries (ESFs):**

SI No	Name of the concerned Agency whose assistance was required	Required Equipments/Services	Nearest Hospitals	Relief Center
1	Delhi Police	PCR, Cordoning off the building	1. Sanjay Gandhi Memorial Hospital, Mangol Puri  2. Maharishi Balmiki Hospital, Pooth Khurd  3. Bhrm Shakti Hospital, Budh Vihar  4. Baba Saheb Ambedkar Hospital	Land adjoining MCD store Pooth Khurd Delhi
2	Delhi Fire Service	Search and rescue tender		
3	Centralized Accident and Trauma Services (CATS) Ambulance	Advance life support ambulance		
4	NDPL	Mobile van having arrangement of disconnection of electricity		
5	Delhi Jal Board	To provide drinking water and to join the burst or damage pipeline		
6	Civil Defence	To assist the nodal services		
7	Delhi Traffic Police	To maintain smooth traffic and give advisory to the public		
8	Municipal Corporation of Delhi (MCD)	JCB and hydraulic cutter		



## 20. Details of incident at Sanjay Gandhi Transport Nagar

Explosion in trucks carrying various types of automobiles and consumer goods

**Scenario:** Due to sudden impact of earthquake, trucks carrying diesel oil collided, which led to bursting of tyres and leakage of oils. Many trucks caught fire.

No of Casualties		
Serious injury	Minor injury	Dead
39	78	9

### Role of Emergency Support Functionaries (ESFs):

SI No	Name of the concerned Agency whose assistance was required	Required Equipments/Services	Nearest Hospitals	Relief Center
1	Delhi Police	PCR, Cordoning off the building	1. Sanjay Gandhi Memorial Hospital, Mangol Puri	GTK Bus Depot
2	Delhi Fire Service	Search and rescue tender		
3	Centralized Accident and Trauma Services (CATS) Ambulance	Advance life support ambulance	2. Maharishi Balmiki Hospital, Pooth Khurd	
4	NDPL	Mobile van having arrangement of disconnection of electricity	3. Bhram Shakti Hospital, Budh Vihar	
5	Delhi Jal Board	To provide drinking water and to join the	4. Baba Saheb Ambedkar	



		burst or damage pipeline	Hospital 5. Babu Jagjiwan Ram Hospital	
6	Civil Defence	To assist the nodal services		
7	Delhi Traffic Police	To maintain smooth traffic and give advisory to the public		
8	Municipal Corporation of Delhi (MCD)	JCB and hydraulic cutter		
9	PWD	To remove the debris		

At the time of mock drill, all government schools were practicing the Drop, Cover, Hold and Evacuation Building Exercise.

**Communication Plan of North-West District:**

- Local public will contact Disaster helpline (1077).
- Disaster helpline will contact Emergency Operations Center (EOC) of north-west district.
- EOC will contact sub-divisional in-charge/incident in-charge for necessary action.
- Incident command officer will contact emergency support functionary (ESF)
- ESF will provide required services/equipment/resources etc
- Incident Command officer will send all types of casualty to the nearest hospital and inform the EOC.
- Incident Command Officer will shift the victims to the nearest relief center.
- As per information received by incident command officer, EOC will request the concerned agency to provide necessary food items, drinking water, etc.
- EOC will inform the status of the district to Disaster Control Center/Bravo 8/1077 time to time.
- EOC will use two TETRA sets—one in district channel and another in DCC Channel.

Note: All incident command in charge include Sub divisional Magistrate, Assistant Divisional Magistrate and Deputy Commissioner.





### Annexure-3

#### Annexure-3: Mega Mock Drill Report For South-West District

**MOCK EXERCISE: (With Participation of all the Emergency Support Functionaries (ESFs))**

- ▶ Govt. Boys. Sr. Sec. School, Najafgarh
- ▶ Ram Lal Anand College, South Campus
- ▶ Sector-10 Metro Station, Dwarka
- ▶ Indian Oil and RWA Bijwasan
- ▶ Sarvodaya Bal Vidhyalaya, Naraina
- ▶ E-545, E-611, Budhnagar, Inderpuri
- ▶ Ayushman-Civil Defence
- ▶ Safdarjung Hospital
- ▶ Rao Tula Ram Hospital-Civil Defence
- ▶ DIAL, T-2
- ▶ DLF Promenade Mall and Emporio
- ▶ SR Office
- ▶ A-67, Naraina Industrial Area-Civil Defence
- ▶ All the remaining Schools

**MOCK EXERCISE:**

**Resident Welfare Association, Brijwasan**

SL No	ESF's/Nodal Officer/Designation	Call Received (Time/From)	Time to Reach the Site	Remarks
1	Civil Defence	1132 hrs	1145 hrs	DDW with team
2	BSES	1135 hrs	1140 hrs	Cut the power supply
3	Police Control Room (PCR)	1137 hrs	1145 hrs	PCR Ambulance
4	Police Station Kapashera	1132 hrs	1142 hrs	SHO with staff
5	Police Control Room	1137 hrs	1150 hrs	Two PCRs with staff
6	Delhi Traffic Police	1135 hrs	1150 hrs	T.I. with two personnel
7	MTNL		1200 hrs	
8	Medical Team	1158 hrs	1206 hrs	Team of 4 people with First Aid Kit



SL No	ESF's/Nodal Officer/Designation	Call Received (Time/From)	Time to Reach the Site	Remarks
9	Dr. Abhay Kumar (Local Doctor)		1210 hrs	Called by the Villagers
10	Delhi Jal Board	1135 hrs	1240 hrs	One water tanker
11	PCR (Mobile Post)	1235 hrs	1238 hrs	
12	PCR (Bike)	1235 hrs	1238 hrs	Two police personnel
13	Delhi Transport Corporation (DTC)	1135 hrs	1242 hrs	One bus with driver & conductor from D.K.Depot, Najafgarh

#### Indian Oil Corporation (IOC), Brijwasan

S. No	ESF's/Nodal Officer/Designation	Call Received (Time/From)	Time to Reach the Site	Remarks
1	Traffic Police		1134 hrs	
2	Medical Team	1134 hrs	1138 hrs	Oxygen Cylinder, First Aid Kit, BP Apparatus etc.
3	Police Control Room (PCR)	1142 hrs	1151 hrs	2 Vehicles
4	National Disaster Response Force (NDRF)	1146 hrs	1156 hrs	Search Equipments, 1 sniffer dog
5	St. John's Ambulance			First Aid Kit – 3 Nos
6	BSES		1135 hrs	Tool Kit
7	PCR	1156 hrs	1210 hrs	
8	Delhi Jal Board		1225 hrs	One Water Tanker

#### Analysis:

- ▶ Well organized, onsite plan was good

- ▶ Lot of foam was wasted, so cost benefit analysis should be done
- ▶ Delhi Police Station House Officer (SHO) reached late after 1200 hrs



- ▶ St. John ambulance people were not trained
- ▶ Triage system was not followed properly
- ▶ Handling of casualties wasn't good
- ▶ MCD should respond quickly because in real time scenario

debris clearance will be the core factor for response

- ▶ Response from resident welfare association (RWA) members should be more participative

**Ram Lal Anand College:**

S. No	ESF's/Nodal Officer/Designation	Call Received (Time/From)	Time to Reach the Site	Remarks
1	PCR	1135 hrs	1140 hrs	
2	Delhi Fire Service (DFS)	1136 hrs	1240 hrs	One Fire Tender, 5 Personnel
3	Civil Defence	1138 hrs	1142 hrs	30 Volunteers
4	Delhi Police	1133 hrs	1145 hrs	
5	Centralized Accident and Trauma Services (CATS)	1135 hrs	1142 hrs	2 Ambulances
6	Delhi Transport Corporation (DTC)	1150 hrs	1142 hrs	1 Bus with Driver & Conductor
7	Delhi Police	1140 hrs	1145 hrs	
8	Medical Team	1136 hrs	1150 hrs	6 members, First- Aid Box
9	Delhi Jal Board (DJB)	1145 hrs	1205 hrs	5 staff with one tanker
10	MCD	1145 hrs	1200 hrs	15 staff, 1 Truck & 1 JCB

**Analysis**

- ▶ Agencies were not well equipped
- ▶ Lack of coordination among the agencies
- ▶ First Aid team was there but was not functional

- ▶ Lack of public address (PA) system
- ▶ No evacuation plan of the College
- ▶ No standard operating procedure (SOP) was in place



**Sarvodaya Bal Vidhayalaya, Naraina**

S. No	ESF's/Nodal Officer/Designation	Call Received (Time/From)	Time Reach to the Site	Remarks
1.	Fire	1134 hrs	1139 hrs	One Fire Tender along with other relevant equipments
2	NDPL	1139 hrs	1145 hrs	Break down Van + Equipments
3	MTNL	1139 hrs	1145 hrs	
4	PCR (3)	1145 hrs	1152 hrs	Equipped
5	PCR	1145 hrs	1154 hrs	
6	PCR (2)	1153 hrs	1159 hrs	
7	Traffic Police	1153 hrs	1159 hrs	Controlled & managed traffic
8	Medical Team	1140 hrs	1155 hrs	Team of 4, First Aid Kit
9	DJB	1145 hrs	1205 hrs	5 staff with one tanker
10	MCD	1145 hrs	1200 hrs	15 staff, 1 Truck & 1 JCB
11	St. John's Ambulance Brigade	1140 hrs	1157 hrs	First Aid Kit & dressing material
12	PCR	1145 hrs	1149 hrs	
13	Tiger 47	1157 hrs	1208 hrs	
14	CID (Spl Branch)	1158 hrs	1210 hrs	

**Analysis:**

- ▶ The principal informed 100, 101, 1077
- ▶ Smooth evacuation and Drop Cover and Hold Drill conducted
- ▶ Quick Response Team (QRT) of Medical response was very poor
- ▶ Traffic was not smooth
- ▶ MCD and DJB didn't respond
- ▶ Communication gap among various agencies
- ▶ Drop, Cover and Hold Exercise were conducted in all schools



**E-611, Inderpuri**

S.No	ESF's/Nodal Officer/Designation	Call Received (Time/From)	Time Reach to the Site	Remarks
1.	Emergency Number	1132 hrs		Call was made to 1077 at 11:32. The number responded and information recorded
2	PCR	1137 hrs		Call was made to 100 at 11:37 but no response was received
3	PCR			Call was made to 100 at 11:40 but no response was received. The number responded & information recorded.
4	NDPL	1141 hrs	1144 hrs	Supply of power to the effected building stopped
5	Medical Team	1144 hrs	1153 hrs	Provided First-Aid to the injured.
6	Ambulance	1146 hrs	1159 hrs	No response, conveyed the same to 1077 for further co-ordination

**Analysis:**

- ▶ All the emergency support functionaries (ESFs) participated in the exercise.
- ▶ 100 number didn't respond
- ▶ MCD response was late
- ▶ Response from the residents was very encouraging

**Govt. Boys Sr. Sec. School No.1, Najafgarh**

S. No	ESF's/Nodal Officer/Designation	Call Received (Time/From)	Time Reach to the Site	Remarks
1.	Fire	1132 hrs	1139 hrs	One Fire Tender along with other relevant equipments



2	BSES	1146 hrs	1149 hrs	Break down Van + Equipments
3	MTNL	1139 hrs	1145 hrs	
4	Police	1139 hrs	1141 hrs	SHO + 3+ Personnel+ 3 PCR
5	Civil Defence		1136 hrs	
6	Medical Team	1140 hrs	1155 hrs	
7	DJB	1145 hrs	1205 hrs	5 staff with one tanker
8	MCD	1140 hrs	1142 hrs	

#### Analysis:

- ▶ All the ESF's participated in the exercise
- ▶ Smooth evacuation and Drop Cover and Hold Drill conducted
- ▶ Fire response was excellent
- ▶ Quick Response Team (QRT) of Medical team was there but not equipped

#### DLF Promenade and Emporio:

In an endeavor to check preparedness to handle an Earthquake situation happening at the DLF Malls - Vasant Kunj, a full scale "Mega Earthquake Evacuation Mock Drill" in conjunction with the District Disaster Management Authority (South west) for the Mall was conducted on 15th February 2012 at 1130 hours.

The following Government agencies extended their support to make this exercise a success:

- a. SHO, Police Station, Vasant Kunj North with strength of 5 police officials and 2 police vehicles.
- b. District Officer, Delhi Fire Service with a team of 14 Fire Officers and Firemen and 1 Fire tender.

- c. Delhi Disaster Management cell (Civil Defence) – 4 officials.
- d. BSES Team – 3 Officials.
- e. Traffic Police – 4 Officials.
- f. CID Branch – 2 Officers.
- g. Observers from HSBC Bank - 2

The assembly area during the mock exercise was the front porch area of the mall. Brief synopsis of the Mock Earthquake Evacuation Drill was as follows:

- a. Tremors of Mock Earthquake observed at 1130 hours.
- b. SO on duty informed Sr. Security Manager and Mall Manager at 1130 hrs.



- c. Permission granted by Mall Manager to evacuate the mall at 1131 hrs.
- d. Evacuation of the mall started at 1132 hrs.
- e. Maintenance department informed at 1133 hrs.
- f. Police Station and SHO informed at 1133 hrs and the team arrived at 1139 hrs.
- g. Fire Station Zor Bagh informed by the local police station at 1135 hrs and the fire brigade arrived at 1145 hrs.
- h. Delhi Disaster Cell informed at 1115 hrs and the team arrived at 1145 hrs.
- i. Ground floor cleared at 1140 hrs.
- j. 1<sup>st</sup> Floor cleared at 1139 hrs.
- k. 2<sup>nd</sup> Floor evacuated at 1136 hrs.
- l. 3<sup>rd</sup> Floor evacuated at 1138 hrs.
- m. Terrace evacuated at 1134 hrs.
- n. Basements cleared at 1136 hrs.
- o. Complete mall evacuated at 1140 hrs.

A total of 360 Mall employees, guests/visitors were evacuated from the Mall. 3 injured guests were referred to the Hospital.

#### **Observations Made:**

- a. Hooter/Alarm to go first in case of complete Mall Evacuation.
- b. Public address (PA) system was not audible at few places in the common area.

- c. Elevators and Escalators were not stopped/shutdown at the time of evacuation. The same should be shutdown first.

#### **Safdarjung Hospital:**

- ▶ Only 12 DM beds were there. It needs to be strengthened.
- ▶ Total 37 Casualties were brought to the hospital.
- ▶ Help Desk worked efficiently
- ▶ Coordination between Help Desk and EOC was good
- ▶ CD role was disappointing
- ▶ All the staff was very efficient, especially the supporting staff.
- ▶ DDMA staff handled the situation well

#### **Rao Tula Ram Hospital:**

- ▶ Exercise was conducted by trained Civil Defence Volunteers
- ▶ 28 patients including 6 from the hospital were treated
- ▶ Help Desk worked efficiently
- ▶ Coordination between Help Desk and emergency operations centre (EOC) was good

#### **Sector-10, Metro Station, Dwaraka:**

- ▶ DMRC official didn't follow their SOP as PCR didn't receive any information



- ▶ Need to install more first Aid kits to cater to larger number of people in case of an emergency

#### **A-67, Naraina Industrial Area:**

##### **Analysis:**

- Exercise was conducted by trained Civil Defence Volunteers using ladders and rope
- Emergency Support Functionaries (ESFs) also respond to the site
- MCD reached late
- PCR van refused to take casualties to the designated hospital.

#### **DIAL: TERMINAL -2 AT DELHI INTERNATIONAL AIRPORT PVT LTD**

- 1130 Hrs: Tremors felt
- 1130-31 Hrs: Drop cover whole drill
- 1133 Hrs: Airport Operations and Control Centre (AOCC) & Fire Watch Tower (ARFF) started passing the information to all concerned on available communication facilities
- 1135 Hrs: Delhi Police Force arrived from Police Station at T-2 Terminal
- 1138 Hrs: AOCC informed that all concerned agencies informed about the incident.
- 1141 Hrs: Two Crash Fire Tenders with crew on board arrived and commenced simulated firefighting operation. Mobile Command Post

and Medical Truck positioned to create Triage Area

- 1142 Hrs: Mobile Command Post manned by Incident Commander and simulated fire was fully extinguished & rescue path was created safe for rescue.
- 1143 Hrs: CISF and Airport Medical Team arrived
- ARFF rescuers with the help of Central Industrial Security Force (CISF), Delhi Police & DIAL RAXA security commenced rescue operation from the building
- 1144 Hrs: Triage Area formed and First casualty rescued from the building and brought collection area.
- 1145 Hrs: Delhi Police PCR Van arrived. Mr Vikram from Delhi Special Police reported at site and Mr Virender & Mr Sanjay from NGO reported at site.
- 1155 Hrs: All casualties/ personnel rescued from the building and priority wise segregated by Airport Medical Team.
  - Medical Priority I –03
  - Medical Priority II – 02
  - Medical Priority III – 10
  - Un-injured - 25
- 1156 Hrs: Survivor Reception Center, Collation Center, Friends & Relative Reception Center & re-union area formed.



- 1157 Hrs: Two Med Ambulances arrived from Army Research and Referral Hospital with Doctors and Nursing staff on board.
- 1158 Hrs: Three priorities -1medical casualties sent to AH R&R hospital with their relatives/friends.
- 1202 Hrs: Air Side Operation reported that all runways, taxi tracks, terminals building & other major installations inspected & found nil damage & injury.
- 1204 Hrs: Two Medical Ambulances arrived from Indian Spinal Injury Hospital.
- 1205 Hrs: Two priority –II medical casualties sent to Indian Spinal Injury Hospital with their relatives/friends.
- 1206 Hrs: DIAL Engineering department reported that power supply, water supply & communication facilities are normal.
- 1208 Hrs: Medical Priority III cases treatment is completed.
- 1210 Hrs: All un-injured & Priority III cases sent to their respective place in the coach
- 1214 Hrs: One CAT Ambulance arrived from Safdarjung Hospital.
- 1215 Hrs: Incident commander declared termination of operation.

#### **DEBRIEFED:**

After the mock drill exercise, at 1500 hrs, a detailed debriefing session was carried out

under the Chairmanship of Deputy Commissioner (SW), Shri DP Dwivedi, IAS. The Nodal Officers of all the Departments were invited to share their experiences. In the De-briefing Session, all the Incident Commanders and observers shared their observations with the nodal officers of all departments and also briefed about the improvisation of the same. Deputy Commissioner addressed the house and briefed about the importance to conduct such exercise. He thanked for all the support provided by all the Emergency Support Functionaries such as AH R&R hospital, Indian Spinal hospital, Safdarjung hospital, Delhi Police and all others participants. He emphasized that exercise conducted regularly at airport needs more support from external agencies. Further, he directed that involvement of external agencies should be extended. At last, he appreciated the co-operation & co-ordinations among various teams involved at the incident location.

#### **ROAD AHEAD:**

- ▶ Quick Response Team (QRT) team of medical needs to be strengthened and well equipped
- ▶ Strengthening of district emergency operations center (EOC)
- ▶ Constitution of State Disaster Response Force
- ▶ Sensitization of Schools and College Principals required
- ▶ Strengthening of Communication Network
- ▶ More availability of Ambulance in District



- ▶ Strengthening of Incident Command Post in all three component-Operational, Logistics and planning
- ▶ Mapping of Resources, Hazards and Risk by using Geographic Information System (GIS)
- ▶ More people should be trained in First Aid especially personnel of PCR
- ▶ Dedicated lane for Emergency Vehicle in case of Emergency Situation to be kept clear.
- ▶ More Hydraulic Lifts and Disaster Management Centers required.







## Annexure-4

### Annexure-4: Mega Mock Drill Report For South District

District Disaster Management Authority (South) under the stewardship of Office of the Deputy Commissioner (South) organized a district level mega mock-drill on "Earthquake" involving all its 3 sub-divisions i.e., Defence Colony, Kalkaji and Hauz Khas on 15<sup>th</sup> February, 2012.

Following Departments participated in this mega exercise organized in South Delhi on 15<sup>th</sup> February, 2012 in all the incident sites:-

1. Delhi Police-Law and Order-South & South-East
2. Delhi Police-Traffic- South & South-East
3. Delhi Fire Services
4. Municipal Corporation of Delhi-Central & South
5. Bombay Suburban Electric Supply (BSES)
6. Mahanagar Telephone Nigam Limited (MTNL)
7. Delhi Jal Board
8. New Delhi Municipal Corporation (NDMC)
9. Delhi Civil Defence-South & South-East
10. St. Johns Ambulance Brigade
11. Centralized Accident and Trauma Services (CATS)
12. Chief District Medical Officer (CDMO)
13. Indian Army
14. National Disaster Response Force (NDRF)
15. All Private Hospitals & their Ambulances
16. Delhi Transport Corporation (DTC)
17. Department of Food and Civil supplies
18. Public Works Department (PWD)
19. Central Reserve Police Force (CRPF)

Following are the incident sites and Relief Centers where the District Disaster Management Authority (South) organized mock drill:-

Deshbandhu College	Kalkaji near Madhav Park
Acharya Narendra Dev College	Near Govind Puri Gurudwara
CNG Station	Okhla Near Crowne Plaza
Kalkaji Market	Krishana Market
H.No. 110, 111, 112	A-Block, Sangam Vihar



MTNL Office	Tuglakabad Near Air Force Station
ESI	Okhla
Batra Hospital	Tugalkabad
PGDAV College	Lajpat Nagar Near Sri Niwas Puri Bus Stand
Lady Shri Ram	Amar Colony
Central Market	Lajpat Nagar
Sapna Cinema	East of Kailash
H.NO. F-107, F-119 (3 Floor), F-121, C-248 Shaheen Bagh	Ideal Welfare Association, Shaheen Bagh
Delhi Jal Board Office	Lajpat Nagar
Moolchand Hospital	Lajpat Nagar
College Vocational Studies	Sheikh Sarai
Aurbindo College	Malviya Nagar
CNG Station	Ambedkar Nagar, BRT
Select City Walk	Saket
PVR	Saket
H.No. D-53, D-186, D-25/361, D-262, D-524, D-578	Chhatarpur Pahadi
BSES Office	Adchini
AIIMS Metro Station	Ansari Nagar
Madan Mohan Malviya	Malviya Nagar
MCD Ground, Kalkaji	Tughlakabad
PGDAV College, Lajpat Nagar	Lajpat Nagar
Acharya Tulsi Sarvodaya Bal Vidyalaya, Chhatarpur	Hauz Khas



**PROMINENT FEATURES OF THE MOCK-DRILL:**

1. As was planned, 24 Incident Sites and 3 relief centers were identified in South Delhi involving all the three sub-divisions i.e. Kalkaji, Hauz Khas and Defence Colony .For each of the site an incident commander with 2 support staff were deputed from Office of the Deputy Commissioner(South)
2. Incident Commander was also supported by a senior Civil Defence Volunteer at each of the Incident and Relief Site.
3. As per the schedule, the mock-drill exercise started at 1131 hours in the morning, the following activities took place as part of the mock-drill.
4. Drop, Cover, Hold exercise and evacuation drill was done simultaneously in 150 selected private and government schools in South Delhi. The Deputy Director, Education, South has also given a report to this effect that above drill was concluded in all these schools.

5. An evacuation drill was carried out in all the prominent institutions like CNG Stations, Cinema Halls, Colleges, Government Offices, Malls and other selected venues.
6. All the incident sites were immediately cordoned off by the Delhi Police, security teams of the institutions and other rescue teams as soon as the incident started under the guidance of Incident Commander.
7. The Prominent disasters which were dramatized during the mega mock -drill were:-
  - a. Building Collapse due to Earthquake
  - b. Fire as a consequence of Earthquake.
8. The sites where fire incidents occurred were 2 CNG Stations (BRT & Okhla) and 2 Cinema Halls (Sapna & PVR, Anupam Saket). Delhi Fire Service responded in these 4 sites with its fire tenders and Manpower.
9. Other areas had building collapses leading to various injuries and deaths. The worst affected areas in descending order were as follows:-

A-block Resident Welfare Association, Sangam Vihar	7 Dead	30 Injured
Ideal Welfare Association, Shaheen Bagh, Defence Colony	5 Dead	21 Injured
Chhatarpur Pahadi Residential Area, Hauz Khas	5 Dead	18 Injured
Krishna Market, Kalkaji	5 Dead	10 Injured
Central Market, Lajpat Nagar	1 Dead	14 Injured

10. At other incident sites too, casualties ranging from 5-6 were reported which included some dead and some injured.

11. Overall 230 casualties were reported including 56 dead and 174 injured.



12. All the injured got first-aid, medical treatment by teams from chief district medical officer (CDMO), St. Johns and all government and private hospitals in South Delhi.

13. For those people from affected areas who lost their shelters, three relief centers were set-up in each of the sub-division manned by officials from the Deputy Commissioner, South and supported by a team of doctors, paramedics, grief counselors, officials from Food and Civil Supplies department, officials from the Delhi Jal Board and Civil Defence with various aids and amenities like refreshment, water, etc.

14. In all, approximate 50 such people were sheltered in all the 3 relief centers.

15. The affected people were transported to the relief centers from various sites with the help of 6 DTC buses provided by the DTC.

16. All the patients were admitted in disaster and emergency wards of various private and government hospitals where they were provided all the required medical treatments.

17. Operators from the Emergency Operation Centre, the DDMA (South) also rushed with Life Detector Machine and was put to use at the incident site at Sangam Vihar.

18. At some of the sites, the Nehru Yuva Kendra volunteers also rendered their services for crowd management and rescue work along with the Delhi Civil Defence Volunteers.

19. At the end of the rescue operation at each site, all the Incident Commanders took briefing sessions with their Emergency Support Functionaries.

20. The Deputy Commissioner (South) and the Assistant Divisional Magistrate (ADM (South)) personally monitored the entire exercise and maintained coordination with all the Incident Commanders and Emergency Support Functionaries.

21. All the Sub-Division Magistrates were overall in charge of their Sub-Divisions and ensured proper execution of the events in their respective sub-divisions.

22. The Deputy Commissioner (South) took feedback and de-briefing session with all the Incident Commanders and the DDMA officials after the mock-drill was declared over in which short comings and overall exercise was discussed and analyzed.

23. All the incidents were covered photographically and ideographically.

24. A number of media agencies covered mock-drill at various sites like Lady Shri Ram College, AIIMS Metro Station, PVR Cinema etc.

25. Mrs.Madhulika Gupta, Director, the National Disaster Management Authority, was the observer for the whole exercise in South Delhi.

26. Gen.V.K.Dutta also visited Emergency Operation Centre, South.

27. Apart from this, Capt. Deepshikha along with her team from the Indian Army also visited sites and observed the proceedings there.



## Annexure-5

### Annexure-5: Mega Mock Drill Report For New Delhi District

The mega mock drill conducted on 15 February, 2012 has raised awareness that when earthquake strikes it is required that both citizens and the authorities work in unison to minimize the damage. The drill was carried out at the following locations in New Delhi District:-

- 1) Sanjay Camp, Chanakya Puri
- 2) B R Camp, Race Course
- 3) Janta Camp, Near Pragati Maidan
- 4) Lok Nayak Bhawan, Khan Market
- 5) Khan Market Metro Station
- 6) Yashwant Place
- 7) Housing Complex Kali Bari Marg
- 8) Mohan Singh Place
- 9) Doordarshan Bhawan
- 10) Palika Bazaar



Following Departments participated in this mega exercise organized in New Delhi District on the 15<sup>th</sup> February, 2012 in all the incident sites:

- |   |  |
|---|--|
| 1. Civil Defence Volunteers   | 10. Delhi Fire Services                      |
| 2. Delhi Police   | 11. Food and Supply Dept                     |
| 3. Police Control Room  | 12. NDMC (Education)                         |
| 4. Traffic Police   | 13. NDMC (Electricity)                       |
| 5. Centralized Accident and Trauma Services (CATS) and St John Ambulance (SJAB) | 14. Bombay Suburban Electric Supply (BSES)   |
| 6. New Delhi Municipal Council (NDMC (Civil))                                   | 15. Municipal Corporation of Delhi (MCD)     |
| 7. NDMC (Fire)  | 16. Mahanagar Telephone Nigam Limited (MTNL) |
| 8. Delhi Transport Corporation (DTC)  | 17. National Disaster Response Force (NDRF)  |
| 9. NDMC (Water Supply)  |  |

Two relief centers were identified and made operational during the drill. They are as under:-

S. No.	Name of Relief Centre	Location of Evacuees
1.	NP Middle School, Dharam Marg, Kitchner Road, New Delhi	a) 100 shifted from Sanjay Camp, Chankya Puri.
		b) 50 shifted from B. R. Camp, Race Course.
2.	NP Bengali Girls Senior Sec. School, Gole Market, New Delhi	a) 20 shifted from Janta Camp, Pragati Maidan.
		b) 30 shifted from Housing Complex, Kalibari Marg.

Total No. of Dead : 10  
 Total No. of Major Injury : 36  
 Total No. of Minor Injury : 64



### **Hospitals Involved:**

1. RML Hospital
2. Lady Hardinge Medical College
3. Central northern railway Hospital
4. Charak palika Hospital
5. Primus Super Specialty Hospital

The Prominent scenarios which were enacted the observers and Dr. Brig. (Retried) B. K. Khanna, to give their views and observations regarding the Mega Mock Drill.

- a. House Collapse due to Earthquake
- b. Fire as a consequence of Earthquake.
- c. Cracks in buildings due to Earthquake.

As per the scenario, all the important calls were made by Landline Phones available at the incident sites and all the incident commanders used Wireless for communication with District Level EOC.

### **Observers:**

Following persons observed the drill in New Delhi District:-

1. Major Nanda Vallabh, the Indian Army.
2. Sh. J. P. Yadav, Commandant, the National Disaster Response Force (NDRF), 8<sup>th</sup> Battalion.
3. Smt. Preeti Baizal, the National Disaster Management Authority (NDMA)
4. Dr. Angelie Quatra, Philianthrope (NGO)

The Emergency Operation Centre (EOC) was made operational at the Disaster Management Centre, NDMC, Humayun Road, New Delhi.

The District Level Debriefing was conducted at 1430 hours at Disaster Management Centre, NDMC, Humayun Road, New Delhi under the Chairmanship of the Deputy Commissioner (New Delhi).

Following points were discussed:-

1. At the outset, the Deputy Commissioner (New Delhi) appreciated the efforts of all the departments concerned and invited the

2. Brig. Khanna, emphasized that there is a difference between manmade disasters and natural disasters as in case of natural disasters first responders take time to reach the incident site. He informed that during the drill, the Delhi Police, the Civil Defence and the National Disaster Response Force (NDRF) performed very well. Further, he added that during sounding of siren, people were running and evacuating and DCH was not exercised. He further added that community is sensitized about evacuation through this drill but they still need to know that after evacuation they should stand at some safer place outside the building.

3. Sh. J. P. Yadav, the Commandant, 8th Battalion National Disaster Response Force (NDRF), said that the drill was a success. And crowd control was not a problem during evacuation as the people had already been informed about the drill. Further, he added that the Delhi Traffic Police did a great job by quickly creating space for emergency vehicles.

4. Mrs. Preeti Baizal, from the NDMA, congratulated everyone involved in the drill for its successful conductance. She raised a point that there are two objectives of Mock Drill:-

1. To measure the capability of ESFs and



2. To check awareness level of the community

She added that the Emergency Operation Centre (EOC), at the DMC, the NDMC, Humayun Road was working very well and the hotlines were in place.

5. Dr. Angelie Quatra, thanked Deputy Commissioner (New Delhi) for making war level preparation for Mega Mock Drill. She further informed that all agencies were prompt and arrived in time at Khan Market Metro Station. However, the response of the DMRC was very poor.

6. Sh. Omvir Singh, the District Commissioner of Police (DCP), New Delhi District applauded and encouraged the district administration for conducting Mega Mock Drill at a number of sites simultaneously. Further, he added that for such a big exercise small things do not matter, we are at least now aware what a major disaster could be and how we are to respond. He said that it fully achieved the target of awareness, which is required urgently for any community. He further suggested that the message could be carried forward by discussing the disasters in peer groups, in families, in departments and in offices. We will ensure that every community member is fully sensitized and has desire to be prepared. He informed that the Delhi Police was lacking in

100 number response which would be rectified as early as possible.

7. Major Nanda Vallabh, the Indian Army informed the house that during the real earthquake the devastation would be much higher and one needs to be prepared for that. He congratulated the NDMA, the DDMA (New Delhi) and the Departments for their coordination and cooperation to make drill successful. He further added, that there was thorough professionalism within the administration to conduct the drill.

Some of the important lessons learnt are as follows:-

- (i) Need for State-of-the art emergency operation centers at district level with redundancy.
- (ii) Common communication system for all the stakeholders.
- iii) State-of-the-art equipment and systematic inventory of the resources.
- (iv) Need for adequate number of ambulances.

<b>Location 1 – Sanjay Camp, Chanakyapuri</b>		
<b>S. No.</b>	<b>Agency</b>	<b>Time</b>
1.	PCR (1612)	1137 hrs
2.	PCR (0209)	1137 hrs
3.	PCR (4784)	1137 hrs
4.	PCR (6973)	11:37 hrs
5.	PCR (4646)	1137 hrs



6.	PCR (6854)	1138 hrs
7.	PCR (6979)	1139 hrs
8.	PCR (7051)	1140 hrs
9.	PCR (4570)	1140 hrs
10.	PCR (4646)	1146 hrs
11.	PCR (4784)	1148 hrs
12.	PCR (0209)	1150 hrs
13.	PCR (7042)	1152 hrs
14.	Centralized ATS	1246 hrs
15.	Delhi Fire Service	1140 hrs
16.	Fire Dept. (NDMC)	1140 hrs
17.	Civil Dept. (NDMC) with JCB	1149 hrs
18.	NDMC Sewerage	1150 hrs
19.	DTC Buses (2)	1140 hrs
20.	Delhi police	1132 hrs
<b>Location 2 – Janta Camp, Pragati Maidan</b>		
<b>S. No.</b>	<b>Agency</b>	<b>Time</b>
1.	Delhi Police	1135 hrs
2.	PCR (2)	1132 hrs
3.	PCR (3)	1135 hrs
4.	CATS	1138 hrs
5.	Delhi Fire Service	1141 hrs
6.	Civil dept.(NDMC)	1145 hrs
7.	Electricity Dept. (NDMC)	1135 hrs
8.	DTC	1155 hrs
9.	Disaster Management Centre, MCD	1210 hrs
<b>Location 3 – Housing Complex Kalibari Marg</b>		
<b>S. No.</b>	<b>Agency</b>	<b>Time</b>



1.	PCR (1CJ 6983)	1135 hrs
2.	PCR (1CM 4569)	1137 hrs
3.	PCR (1CF 4649)	1137 hrs
4.	PCR (1CJ 6985)	1139 hrs
5.	PCR (1VA 5379)	1139 hrs
6.	PCR (1CM 4569)	1139 hrs
7.	PCR (1CJ 4649)	1139 hrs
8.	PCR (1CJ 6985)	1140 hrs
9.	Delhi Fire Service (1G B 7072)	1150 hrs
10.	Delhi Police	1125 hrs
11.	CATS	No Response
<b>Location 4 – Palika Bazaar</b>		
<b>S. No.</b>	<b>Agency</b>	<b>Time</b>
1.	Delhi Police	Present at the site
2.	PCR (5971)	1134 hrs
3.	PCR (5380)	1139 hrs
<b>S. No</b>	<b>Agency</b>	<b>Time</b>
4.	PCR (5073)	1144 hrs
5.	PCR (5971)	1145 hrs
6.	PCR (5780)	1145 hrs
7.	CATS	1201 hrs
8.	SJAB	1154 hrs
9.	Delhi Fire Service	1137 hrs
10.	Civil dept. (NDMC)	1213 hrs
11.	Electricity Department (NDMC)	Present at the site
12.	Traffic Police	1137 hrs
13.	Fire Department (NDMC)	1137 hrs
<b>Location 5 – Khan Market Metro Station</b>		



S. No.	Agency	Time
1.	Delhi Police	1130 hrs
2.	Traffic Police	Present at the site
3.	PCR (DL ICJ 4664)	1134 hrs
4.	PCR (DL ICJ 7096)	1134 hrs
5.	Delhi Fire Service	1135 hrs
6.	Fire Department (NDMC)	1135 hrs
7.	CISF Dog Squad	1135 hrs
8.	Water Supply (NDMC)	1140 hrs
<b>Location 6 – Mohan Singh Place</b>		
S. No.	Agency	Time
1.	CATS	1137 hrs
2.	Delhi Fire Service	1137 hrs
3.	Delhi Fire Service	1137 hrs
4.	Fire Department (NDMC)	1141 hrs
5.	PCR	1145 hrs
6.	PCR	1146 hrs
7.	PCR	1146 hrs
8.	PCR	1154 hrs
9.	PCR	1158 hrs
10.	PCR	1200 hrs
11.	SJAB	1154 hrs
12.	Delhi Police	1151 hrs
13.	Water Supply (NDMC)	1157 hrs
<b>Location 7 – Yashwant Place, Chanakya Puri</b>		
S. No.	Agency	Time
1.	Delhi Police (DL 1C J 4650)	1142 hrs
2.	Delhi Fire Service (DL 1G B 6734)	1142 hrs



3.	PCR (DL 1C J 3842)	1140 hrs
4.	PCR (DL 1C J 6932)	1142 hrs
5.	Fire Department (NDMC)	Present at the site
6.	PCR Ambulance (DL 1A 1634)	1143 hrs
7.	Traffic Police	1140 hrs
8.	Delhi Police	1141 hrs

**Location 8 – Lok Nayak Bhawan, Khan Market**

S. No.	Agency	Time
1.	PCR	1136 hrs
2.	PCR	1136 hrs
3.	PCR	1137 hrs
4.	Traffic Police	1138 hrs
5.	Fire Department (NDMC)	1141 hrs





## Annexure-6

### Annexure-6: Mega Mock Drill Report For West District

In District West, the drill was conducted under the supervision of Deputy Commissioner (West), **Sh. G.S. Meena** and was audited by **Col. Shashi Bhushan** from the NDMA.

In this mock drill, entire Revenue staff of the West district along with all the Emergency Support Functionaries (ESFs) participated and the NGO Dera Sacha Sauda as well showed full enthusiasm while participating in the entire exercise.

#### DETAILS ON MEGA MOCK DRILL

##### Planning

The plan of action for the mega mock drill exercise was decided after holding several meetings with the agencies involved. All the schools falling under District West were involved to conduct drop-cover-hold exercise and evacuation drill at 1130 hours. Other than this, 41 other locations were identified in District West in compliance with the scenario decided at the head quarters. Following meetings, table top exercises were conducted to accomplish the task:



1. **Meeting 1:** First meeting was held on 8 February at 1600 hours with Revenue Officials, Deputy Commissioner West and NGO (Dera Sacha Sauda)
  - All the officials including tehsildars, nayab tehsildars, patwaris, etc, working under West district were appointed as incident commanders at the 41 identified locations and 3 relief centers.
  - Details of the exercise were discussed and role as incident commander was explained.
  - NGO Dera Sacha Sauda volunteered 1000 members for the mega mock drill exercise.
2. **Meeting 2:** Second meeting was held on 9 February, 2012 at 1600 hours with authorities of Malls, Residential Areas, Temples, Transport Authority, IOCL, HPCL, Petrol Pump and MTNL for Fire accident locations.
  - Scenario on the mega mock drill was explained and discussed with each representative.
  - Representatives from identified locations shared their views and discussed their queries.
  - Information Education and Communication (IEC) material on earthquake preparedness was distributed.
3. **Meeting 3:** Third meeting was held on 10 February 2012 at 1100 hours with principals from 100 Schools (60 government, 20 private and 20 Municipal Corporation of Delhi (MCD), DDE (West zone A and zone B), DEO (MCD, West)
  - Scenario on the mega mock drill was explained.
  - Principal/Representative from each school was appointed as incident commander at respective school and explained about the role.
  - Movie on pre-recorded mock drill exercise was shown.
  - Representatives from identified schools shared their views and discussed their queries.
  - IEC material on Earthquake preparedness and banners were distributed.
4. **Meeting 4:** Fourth meeting was held on 10 February, 2012 at 1500 hours with representatives from various Colleges
  - Scenario on the mega mock drill was explained.
  - Representatives from identified colleges shared their views and discussed their queries.
  - IEC material on Earthquake preparedness was distributed.
5. **Meeting 5:** Fifth meeting was held on 10 February, 2012 at 1600 hours with authorities of the emergency support functionaries (ESFs), Hospitals, Tihar Jail Authority and National Disaster Response Force (NDRF)



- Scenario on the mega mock drill was explained.
  - Role of each ESF was discussed in detail. **(NOTE: List on roles is attached as APPENDIX C).**
  - Representatives from each ESF/agency shared their views and discussed their queries.
  - IEC material on Earthquake preparedness was distributed.
6. **Meeting 6:** On 11 February, 2012, Sub-divisional Magistrate (SDM (Patel Nagar)), Police Commissioner (West) and the National Disaster Reponse Force (NDRF) officer visited Janakpuri District Centre
- The entire scenario to be simulated at District Centre was decided with proper details.
7. **Meeting 7 and 8:** Meetings were held on 13 and 14 February at 1100 hours with Hospital Authorities and Health Department
- Scenario on the mega mock drill was explained.
- Hospitals with old structures were identified and it was decided to establish make-shift-hospitals at these locations.
  - Medical department under chief district medical officer (CDMO) nodal officer Mr. Kailashi Shekhar made its plan of action for all the identified locations.
8. **Meeting 9:** A meeting was held on 14 February, 2012 at 1200 hours with Colleges who missed out the first meeting.
9. **Meeting 10:** On 14 February, 2012, a meeting was held at 1500 hours with Revenue Officials and Deputy Commissioner (West)
- Scenario on the mega mock drill was explained.
  - Movie on pre-recorded mock drill exercise was shown.
  - Format of report was explained.
  - Communication channel for mega mock drill was explained.

**Locations:**

Following table shows the list of affected places with the number of dummy casualties enacted:

S.No.	Locations	Casualties			
		Dead	Minorly Injured	Serious injury	Total
	<b>Highrise (2)</b>				
1	Consumer Cooperative Wholesale Society, Karampura				



2	District Centre, Janakpuri a) T.C. Jaina Tower1 b) Vishav Sadan Tower	2	0	32	34
<b>Colleges (6)</b>					
3	DDU College	0	5	1	6
4	Shivaji College	1	10	9	20
5	Rajdhani College	0	0	2	2
<b>S.No. Location Casualties</b>					
		<b>Dead</b>	<b>Minorly Injured</b>	<b>Serious injury</b>	<b>Total</b>
6	Bharti College	0	2	0	2
7	SPM College	0	2	0	2
8	Bharti Vidyapeeth College	0	3	0	3
<b>Malls (2)</b>					
9	Moments, Kirti Nagar	0	3	0	3
10	TDI, RG	0	2	0	2
<b>Metro Station (1)</b>					
11	Tilak Nagar	0	0	3	3
<b>Residential Areas (5)</b>					
12	D11, Tagore Garden Extn., Tagore Garden	3	0	7	10
13	N15-16, Vishnu Garden, Khayal Road	3	0	7	10
14	G1/78, Uttam Nagar, near pillar number-674	3	0	7	10
15	near Panchayat ghar, Matiala	3	0	7	10
16	Ekta apartments, opp Fire Station, Jwalaheri	3	0	7	10
<b>Hospitals (Govt) (5)</b>					
17	DDU Hospital (make shift hospital)	1	0	3	4



18	Acharya Shri Bhikshu	0	0	2	2
19	Patel Hospital	0	1	2	3
20	Guru Gobind Singh	0	0	2	2
21	ESI, Basai Darapur (make shift hospital)	1	0	3	4
	<b>Hospitals (Pvt) (5)</b>				
22	Balaji Action	0	0	2	2
23	Maharaja Agrasen Hospital	0	0	2	2
24	Mata Chanan Devi (make shift hospital)	1	1	3	5
		<b>Casualties</b>			
<b>S.No.</b>	<b>Location</b>	<b>Dead</b>	<b>Minorly Injured</b>	<b>Serious injury</b>	<b>Total</b>
25	MGS Hospital	0	0	2	2
26	Kalra Hospital, Kirti Nagar	0	0	6	6
	<b>Office Complexes (3)</b>				
27	MCD Office, Rajouri Garden	0	3	0	3
28	Transport Authority, Janakpuri	0	1	2	3
29	DC Office	0	0	2	2
	<b>Flyovers (2)</b>				
30	Janakpuri	0	0	2	2
31	Meerabagh underpass	0	0	2	2
	<b>Locations for Fire Incidences (4)</b>				
32	Vishal Cinema, Rajaouri Garden	0	0	2	2
33	H-10, Udyog Nagar	3	0	5	8
34	Lokesh Cinema, Nangloi	0	0	4	4
35	Jhuggis, behind Pacific Mall	0	0	7	7
	<b>CNG/LPG (3)</b>				
36	IOCL, Bottling plant, Tikrikala	0	0	3	3
37	HPCL, Punjabi Bagh	0	0	3	3
38	Petrol Pump, Ashok Park	0	0	3	3



<b>Other Locations (1)</b>					
39	Tihar Jail				
<b>Water Pipeline Burst (2)</b>					
40	Under Moti Nagar flyover				
41	Nangloi Water Treatment Plant				
<b>Total</b>		24	33	144	201

At each location, an official (Tehsildar, Nayab Tehsildar, Patwari, LAC officers, accounts officers, etc.) from Revenue Department was appointed as incident commander. One Civil Defense Warden and volunteers from the NGO Dera Sacha Sauda were also present at each location for coordination with the Incident Commander. Civil Defense volunteers enacted as dummy casualties at each location and also helped in rescue work.

#### **Relief centers:**

Three relief centers were established, one for each sub-division in District West. People who lost their houses were safely evacuated through DTC buses, MCD labour trucks and private vehicles from the affected residential areas to these relief camps.

<b>S. No</b>	<b>Relief centers</b>	<b>Sub-Division</b>	<b>Incident Commander</b>
1	Surajmal Stadium, Nangloi	Punjabi Bagh	Mr. Pradeep Gupta
2	Open area near TDI Mall, Rajouri Garden (Pandaal)	Rajouri Garden	Ms. Anju Mangla
3	DDA Park, B Block, opp. Bharti College, Janakpuri	Patel Nagar	Mr. Ajay Rawal

At each relief centre, following nine units were established for effective management of the relief centre:

a) *Communication Unit* was established to communicate about the requirements at the relief centre with the concerned

departments and Emergency Operations Centre (EOC (West)).

b) *Medical Unit* with first aid centre was established to attend to casualties with minor injuries.



- c) *Food Unit* was established to manage availability of cooked food for the people living in relief centre.
- d) *Ground Supporting Unit* was established to manage staff requirement at the relief centre. Civil Defense volunteers helped in ground level work.
- e) *Receiving Unit* was established to manage stock of any material received for running the relief centre
- f) *Distribution Unit* was established to manage distribution of relief material to the people living in relief centre.
- g) *Help Desk/Registration Desk* was established to cater to any enquiries and to register the people coming to the relief centre with all details.
- h) *Incident Command Post* was established at each relief centre for carrying out the briefing session along with all the ESFs and agencies involved in each sub-division
- i) *Safety Deposit for Valuable Items*: This unit was established for safety of valuable items of the people living in relief centre. Police were responsible for safety and maintenance of law and order at each relief centre.

At each relief centre, there was provision of tent, refreshments from Tihar Jail, electricity back up from NDPL/BSES, mobile toilet vans, blankets, raincoats, raw food material, emergency vehicles and water tanker from the Delhi Jal Board.

### **Emergency Operations Centre (West):**

Emergency Operations Centre (EOC) in District West worked under over all supervision of the Assistant Divisional Magistrates (ADM (West)) with the help of DPO (West) and 3 Civil Defense volunteers.

The calls from the EOC (West) were diverted to five other landline numbers by MTNL to avoid congestion and 5 civil defense volunteers (3 from EOC and 2 others) were involved to receive calls from affected places and 1077.

### **Order of Execution**

1. Receive of Call
2. Activation of Emergency Services
3. Restoring Lifeline Structures
  - Electricity
  - Water
  - Telephone
  - Road
  - Railways
4. Resettling of Disaster Affected People: Relief centers were established immediately after the earthquake. Three Locations were identified:
  - DDA Park, Opposite Bharti College
  - Surajmal Stadium, Nangloi
  - Open Space near TDI Mall, Rajouri Garden
5. Help Desk enquiry was established at relief centers. Registration counter was also established in the respective relief centers to register people who were coming in relief centers with their Name, Address, Age and Gender. Food was distributed to the people in



all the relief centers, Water tankers were kept ready, mobile toilets were also available, counter for receipt of valuable items, medical quick response team (QRT) was also available.

- Dead Bodies Removal
- To prevent the structural damage due to aftershock, letter was written to the MCD and the Police Department.
- The information about the missing persons was collected from all the relief centers and the letters were written to the Police and the MCD.
- Press management was also done.
- Nodal officers were appointed for VIP Visits
- Letter was written to the Finance department for damage assessment.
- Letter was written to the Delhi Development Authority (DDA) for establishment of Godown for the donations being collected at relief centers.
- The participation of officials from all the locations identified for the Mega Mock drill was very appreciable.

6. Epidemic Prevention: Letters were being written to the medical department for deputing personals for epidemic Prevention in the affected areas.

7. The Mega Mock Drill exercise was called off at 1400 hours.

8. Briefing session was carried out at Deputy Commissioner Office, West at 1500 hrs with Revenue officials and at 1600 hours with all the emergency support functionaries (ESFs) involved.

### **Briefing of Revenue Officials:**

Following points came into limelight during the briefing session1:

- Medical team didn't reach many locations.
- MCD didn't reach many locations.
- Public at large wanted to participate.

### **Briefing of ESFs:**

#### **Fire Department**

- Fire department could not reach the locations because of traffic jams and accidents.
- There was scarcity of vehicles and staff and since the number of locations was large, they had to divert the vehicles.

#### **Central Reserve Police Force (CRPF)**

- Route clearing had created problem due to presence of public at large.
- The rescue equipments were less than requirement.

#### **National Disaster Response Force (NDRF)**

#### **WEAKNESSES**

- Non Availability of emergency communication equipments
- Insufficient sharing of information
- Capacity of NGO's needs to be improved.
- In sufficient rescue resources
- Emergency relief material and goods reserved were insufficient



- Disaster risk reduction capacity of local community needs to be enhanced

## **SUGGESTIONS**

Emergency decision making and commanding mechanism should be established

- Strengthening and integrating professional rescue forces
- Strengthening the application of Science and Technology in Disaster Management

## **Role of Various Supporting Agencies**

### **1. Delhi Police**

- Saved lives in conjunction with other emergency services
- Co-ordinated with other organizations
- Crowd control
- Investigated incident in conjunction with other investigative bodies where applicable.
- Collated and disseminated causality information.
- Identified victims
- Restored normality at the earliest opportunity

### **2. Traffic Police**

- Maintained traffic at affected locations
- Assured uninterrupted movement of emergency support vehicles

### **3. Municipal Corporation Of Delhi**

- Search and Rescue operations
- Providing Temporary Shelters
- Public Information

- Resettlement of unauthorized constructions buildings
- Army and civil administration liasoning regarding Disaster Management should be conducted quarterly.
- A micro level 10 years District Management Plan should be prepared at ward level
- Relief godowns should be established

- Relief Distribution
- Construction materials
- Restoration of infrastructure

### **4. Food And Civil Supply Department**

- Maintain supply of food items at relief centers

### **5. Delhi Development Authority (DDA)**

- Providing Temporary Shelters
- Construction materials
- Restoration of infrastructure

### **6. Delhi Fire Services (DFS)**

- Search and Rescue operations
- Evacuation
- Disposal of Dead ( as per customs)
- Public Information

### **7. Medical Department**

- Medical aid (Treatment of injuries and surgical operations)
- Health and sanitation
- Disposal of Dead ( as per customs)



## 8. CATS Ambulance

- Emergency ambulance services round the clock through trained paramedic who will be mainly performing following functions:
  - Assessing the patients
  - Resuscitation
  - Stabilizing that includes clearing airway, control of bleeding and circulation, splintage etc
  - Rushing the patient to the suitable hospital
- Paramedic services in case of disasters
- Training of the public, students and others in emergency first aid
- Maintaining round the clock control room, wireless connectivity with CATS control room numbers: 102/1099/23971099/23981099

## 9. St. Johns Ambulance Brigade

- Providing first aid training
- Ambulance services
- Relief Distribution

## 10. Delhi Jal Board (DJB)

- Drinking Water arrangements
- Restoration of infrastructure

## 11. Delhi Transport Corporation (DTC)

- Provision of vehicles
- Transportation of materials, manpower etc

## 12. Mahanagar Telephone Nigam Limited (MTNL)

- Communication
- Reception/ Information centres
- Restoration of infrastructure

## 13. BSES/NDPL

- Restoration of infrastructure

## 14. Public Works Department (PWD)

- Construction materials
- Restoration of infrastructure
- Providing temporary shelters

## 15. Civil Defence

- Cordoning off area
- Search and Rescue operations
- Evacuation
- First Aid operations
- Providing Temporary Shelters
- Relief Distribution
- Reception/ Information centres

## 16. National Disaster Response Force/Indian Army and National Cadet Corps (NCC)

- Search and Rescue operations
- Evacuation
- Traffic Management and Security of properties
- Temporary Shelters
- Disposal of Dead
- Relief Distribution
- Relief Supplies

## 17. Dera Sacha Sauda (An NGO)

Emerging trends in managing natural disasters have highlighted the role of non-governmental organizations (NGOs) as one of the most effective alternative means of achieving an efficient communications link between the disaster management



agencies and the effected community. In typical disaster situation, they can be of help in preparedness, relief and rescue, rehabilitation and reconstruction and also in monitoring and feedback. The role of NGOs is a potential key element in disaster management. The NGOs operating at grassroots level can provide a suitable alternative as they have an edge over governmental agencies for invoking community involvement. This is chiefly because; the NGO sector has strong linkages with the community base and can exhibit great flexibility in procedural matters vis-à-vis the government. Based on the identified types of NGOs and their

capabilities, organized action of NGOs can be very useful in following activities in different stages of disaster management.

#### **18. Irrigation and Flood Control**

- Construction materials
- Restoration of infrastructure





## Annexure-7

### Annexure-7: Mega Mock Drill Report For East District

#### Identified Relief Centers:

S. No.	Venue	Relief Centre
1.	Scope Minar, Laxmi Nagar	MCD School, East Laxmi Nagar
2.	Fraser Suite Hotel, Plot No. 4, District Centre, Mayur Vihar Ph-I, Delhi-91	Community Centre, Chilla Gaon
3.	Karkardooma Metro Station	Open Space near Karkardooma Metro Station
4.	V3S Mall, Plot No 12, Laxmi Nagar, District Centre, Delhi-92	MCD School, East Laxmi Nagar
5.	Star City Mall, Mayur Vihar - I, Delhi East, Delhi - 110092	Community Centre, Chilla Gaon
6.	CNG, Filling Pump, Mayur Vihar, Phase-I	Community Centre, Chilla Gaon
7.	VREC, AC 58, B-Block, DC Office Complex	EOC, DDMA (East)
8.	Bhagidari Hall DC Office	EOC, DDMA (East)
9.	RSKV, Kondli	RSKV, Kondli
10.	GBSSS, Vivek Vihar, Phase-II	GBSSS, Vivek Vihar, Phase-II
11.	Civil Defence Office, Gram Shiksha Kendra School, Gandhi Nagar near Jheel Chowk, Gandhi Nagar Opp. Furniture Market	Civil Defence Office, Gram Shiksha Kendra School, Gandhi Nagar near Jheel Chowk, Gandhi Nagar Opp. Furniture Market
12.	Old ITI College, Vivek Vihar	New Building, ITI College, Vivek Vihar
13.	Ambedkar Institute of Advanced Communication Technologies & Research, Geeta Colony	Ambedkar Institute of Advanced Communication Technologies & Research, Geeta Colony
14.	Mayur Vihar Phase-I, PKT-4 Market, RWA 57-G, Delhi-91	Central Park, MCD, Mayur Vihar, Pkt-IV
15.	Lalita Prasad Arya Girls Senior Secondary School, Anaj Mandi, RWA Shahdara, Vivek Vihar	Open Space Anaj Mandi
16.	RWA, Geeta Colony, Gandhi Nagar (Sarathak Vidya Niketan)	Community Centre, Geeta Colony (Sarathak Vidya Niketan)



S. No.	Venue	Relief Centre
17.	Akshardham Foot Over Bridge near Akshardham Metro Station	Open Space around Akshardham Metro Station
18.	Anand Vihar Railway Station near ISBT	Circulating Area in front of Anand Vihar Railway Station
19.	Max Balaji Hospital, Patparganj, Delhi	Govt. Park in front of Max Balaji Hospital

#### Objectives:

- To assess the response, preparedness & action plan of the Emergency Support Functionaries (ESFs) of the District especially during an Earthquake.
- To assess the vulnerability of the proposed sites and to formulate recovery / mitigation plan.
- To bring in awareness amongst the public & selected vulnerable locations, educating them on Disaster Preparedness.

#### Detailed Scenarios at Various Sites:

S. No	Particulars	Venues	Scenarios	Relief Centers
1	High-rise Building	Scope Minar, Laxmi Nagar	Due to Earthquake Tremors approx. 25% of the Scope Minar Building & ceiling had fallen, Ground Floor, 1st Floor, 8th Floor & 15th Floor were most affected. The incident had resulted in 3 casualties, 4 Serious injury, 15 injured & 150 people were trapped inside.	MCD School, East Laxmi Nagar
2	Highrise Building	Fraser Suite Hotel, Plot No. 4, District Centre, Mayur Vihar Ph-I, Delhi-91	Due to strong tremors 10% of the Hotel Reception Area's false ceiling had fallen down which had resulted in 1 casualty, 2 Serious injury & 4 injured while 20 were still trapped at I <sup>st</sup> & II <sup>nd</sup> Floor.	Community Centre, Chilla Gaon
3.	Metro Station	Karkardooma Metro Station	Due to strong tremors of Earthquake 1 Pillar of Metro Station had tilted which had resulted in 2 casualties, 3 Serious injury & 5 injured while 150 people were still trapped at the Metro Station.	Open Space near Karkardooma Metro Station



4.	Mall	V3S Mall, Plot No 12, Laxmi Nagar, District Centre, Delhi-92	18% of the V3S Mall Building had collapsed while the open area was filled with debris due to Earthquake as a result movement was completely restricted. The incident caused <b>3 casualties, injury to 8 while 4 were seriously injured</b> and many were trapped in the Food Court & Banquet Hall.	MCD School, East Laxmi Nagar
5.	Mall	Star City Mall, Mayur Vihar - I, Delhi East, Delhi - 110092	Due to Earthquake the Banquet Hall & the Food Court had partially collapsed which had resulted in <b>1 casualty, injury to 4 while 2 are Serious injury and 30 visitors including staff were trapped</b> in the Food Court & Banquet Hall.	Community Centre, Chilla Gaon
6.	CNG Pump	CNG, Filling Pump, Mayur Vihar, Phase-I	Due to Earthquake Pipe Line at CNG Station had burst and Poisonous Gas was leaking due to which heavy congestion had caused <b>1 casualty &amp; 5 injured</b> .	Community Centre, Chilla Gaon
7.	Govt. Building	VREC, AC 58, B-Block, DC Office Complex	Due to strong tremors, a wall of the Office Building had fallen which had resulted in <b>2 Serious injury &amp; 4 Minor injury</b> while 10 people were still trapped in the Office.	EOC, DDMA (East)
8.	Govt. Building	Bhagidari Hall DC Office	As a result of Earthquake, the ceiling of Bhagidari Hall & SR Building had fallen as result, three were <b>Serious injury while 2 were injured and 4 were Minor injury</b> . Around 50 Visitors including few RWAs members & Official Staff were trapped in the campus.	EOC, DDMA (East)
9.	School	RSKV, Kondli	New Building of RSKV School which was under construction had been fallen down due to strong tremors. <b>2 casualties, 1 Serious injury &amp; 6 slightly injured</b> while 1500 Students were still trapped in the School.	RSKV, Kondli
10.	School	GBSSS, Vivek Vihar, Phase-II	The School had developed huge cracks in the walls & 2 class	GBSSS, Vivek Vihar, Phase-II



			rooms at the Ground Floor were partially collapsed as a result <b>3 Students were Serious injury while 3 Students &amp; 2 Teachers were slightly injured.</b> 500 Students were trapped in the School Building.	
11.	School	Civil Defence Office, Gram Shiksha Kendra School, Gandhi Nagar near Jheel Chowk, Gandhi Nagar Opp. Furniture Market	The Building of Gram Shiksha Kendra School which was under construction had fallen down partially due to strong tremors of Earthquake which had resulted in <b>1 Serious injury &amp; 4 injured.</b>	Civil Defence Office, Gram Shiksha Kendra School, Gandhi Nagar near Jheel Chowk, Gandhi Nagar Opp. Furniture Market
12	College	Old ITI College, Vivek Vihar	The Old Building of ITI College had partially tilted and was partially damaged due to strong tremors of Earthquake which had resulted in <b>3 Serious injury &amp; 5 slightly injured</b> while 75 Students were still trapped in the College Building.	New Building, ITI College, Vivek Vihar
	RWA	Mayur Vihar Phase-I, PKT-4 Market, RWA 57-G, Delhi-91 Sh. R.K Saxena, President (M) 9818720777	At RWA, Mayur Vihar-I, Pkt-IV Market, the MTNL Office Wall had fallen down & 2 other shops were damaged as a result, <b>1 was Serious injury while 4 were Minor injury.</b>	Central Park, MCD, Mayur Vihar, Pkt-IV
15	RWA	Lalita Prasad Arya Girls Senior Secondary School, Anaj Mandi, RWA Shahdara, Vivek Vihar Sh. Rajesh Aggarwal, President (M) 9818160606	The wall of the Secondary School had fallen & many other buildings had developed cracks in the walls. Few buildings in the area were tilted as result, <b>1 person was Serious injury while 4 others were with minor injuries.</b>	Open Space Anaj Mandi
16	RWA	RWA, Geeta Colony, Gandhi Nagar (Sartha	The 5 Buildings in the Colony had developed severe cracks while the School Building in front of the	Community Centre, Geeta Colony (Sartha



		<b>Vidya Niketan) Ms. Meera Sabbarwal,</b> President (M) 9818571069	Community Centre had partially collapsed and as a result, <b>2 casualties were identified while 5 were injured, around 20 were trapped in other buildings in RWAs.</b>	<b>Vidya Niketan)</b>
<b>17</b>	<b>Bridge</b>	<b>Akshardham Foot Over Bridge near Akshardham Metro Station</b>	Due to Earthquake Tremors Foot Over Bridge of Akshardham Metro Station had fallen and resulted in <b>1 casualty, 2 injuries &amp; 2 Serious injury.</b> Heavy Traffic Jam had developed chaotic situation.	<b>Open Space around Akshardham Metro Station</b>
<b>18</b>	<b>Railway Station</b>	<b>Anand Vihar Railway Station near ISBT</b>	Due to earthquake, false ceiling of the waiting room collapsed & concourse area caught fire due to short circuit. The incident resulted in <b>1 casualty, Serious injury to 3 persons while 4 were Minor injury.</b>	<b>Circulating Area in front of Anand Vihar Railway Station</b>
<b>19</b>	<b>Hospital</b>	<b>Max Balaji Hospital, Patparganj, Delhi</b>	Due to earthquake, 15% false ceiling of the OPD of the Old Building collapsed while fire due to short circuit occurred in the canteen. Due to the incident, <b>2 major injured &amp; 5 Minor injury</b> were identified.	<b>Govt. Park in front of Max Balaji Hospital</b>

#### **Actual Exercise:**

- As per Section 30, Sub Section 2 (xxviii) under Disaster Management Act, 2005 & in collaboration with the National Disaster Management Authority (NDMA), a Mock Drill on Earthquake was executed by the District Disaster Management Authority (East) at the above mentioned venues on the 15<sup>th</sup> February, 2012 at 11:30 AM.
- The Drill started at 1130 hours sharp with the Earthquake of 7.9 Richter Scale at Delhi-Moradabad fault line the intensity of earthquake was so high that it resulted in structural damage and fire incidents at various above cited venues.
- The calls were made from incident site to the ESFs viz. 100, 101, 102 & 1077 and District East EOC Control Room (Ph: 22051234). Simultaneously calls were made to the concerned stakeholders in order to respond to emergency situation at various incident sites in District East.
- In response to the call, the District Emergency Support Functionaries (ESFs) started reaching the site with their emergency resources, both Man Power & Equipment; in order to respond to the 'Crisis'.



5. During the Mock Drill **Major Sudeep Dutt** along with team of 40 members were the observers of the complete experience in District East. The Drill was successfully conducted with the participation of more than 18 Agencies like **Govt. Department** viz. the Revenue Department, the Police, the Traffic Police, the Delhi Fire Services, the Delhi Health Services, CATS, St. John Ambulance Brigade, Delhi Metro Rail Corporation, Army, NDRF, Civil Defence, the Nehru Yuva Kendra Sangathan, the Delhi Disaster Management Authority, Delhi Transport Corporation, MTNL, Delhi Jal Board, etc, **Govt. Hospitals** like Dr. Hedgewar Arogaya Sansthan Hospital, Chacha Nehru Bal Chikitsalaya, Lal Bahadur Shastri Hospital & Max Balaji Hospital (Private Hospital) & **NGOs** like Dera Sachha Sauda, Indian Development for Human Care, Anchal Charitable Trust, Shaheed Bhagat Singh Sewa Dal.
6. In addition to above, 'Drop, Cover & Hold' Drill followed by evacuation of the building were also carried in all the Govt., MCD & Private Schools of the District.
7. The drill incorporated the Incident Command System and Officers from the Deputy Commissioner (East) Office acted as Incident Commanders for various venues.
8. All the ESFs responded as per their Standard Operating Procedures (SOPs) and assigned duties & responsibilities & responded to the various Incident Sites promptly within 10-20 minutes. Mock Drill ended peacefully.
9. A Debriefing meeting was organized at 1:30 PM on the 15<sup>th</sup> February, 2012 in the Bhagidari Hall of O/o the Deputy

Commissioner (East) which was participated by all Nodal Officers from various departments as well as the In-charges of the 19 venues/sites and the Incident Commander deputed from Revenue Department at various sites as well as the Army Officials & the NDRF Team Members.

#### **Points Discussed During Debriefing Meeting:**

1. Few Agencies were present at the venue sites prior to the start of the mock drill. It was suggested by the Deputy Commissioner (East) to all ESFs that the Agencies should start for the sites from their base stations only.
2. During the Mock Drill, Delhi Police efficiently managed the Law & Order conditions and promptly cordoned off every incident site.
3. The Deputy Commissioner (East) congratulated the Delhi Traffic Police for making perfect arrangement for the control of Traffic congestion in the traffic prone areas.
4. The Deputy Commissioner (East) congratulated Delhi Jal Board for providing water tanker at each incident site and every Relief Centre.
5. While the Mock Drill in Scope Minar, Laxmi Nagar was going on, a small fire incident also took place at V<sup>th</sup> floor in Core-I in the O/o Coal India Ltd. However the fire was promptly & efficiently controlled by the Delhi Fire Services, no injuries were reported during the Incident.



6. MTNL established WLL connection at various sites while at few sites only Mobile MTNL Services were provided. The MTNL Helpline No. started at the Scope Minar was 220500202, however it was suggested to establish WLL connections, in future, at the Incident Site instead of providing mobile services, with the view that Mobile Service do not work efficiently during such disasters.
7. The Black Out (for 3 minutes) carried out by BSES at all Incident Sites at 1130 hrs was appreciable. However, the Deputy Commissioner (East) suggested carrying out complete black out of the Incident Site till the evacuation process was complete, in order to avoid any mishap.
8. NGOs in District East reacted promptly to the varying incidents. Shaheed Bhagat Singh Sewa Dal provided 6 ambulances at various venues while the volunteers from Dera Sachha Sauda assisted in Search & Rescue activities at all sites.
9. During the Mock Drill, a crunch of Ambulance was noticed mostly at all the sites. However this deficiency was overcome by utilizing the Delhi Police PCR Vans for transferring the victims to the Hospitals.
10. The support provided by DMRC during the Mock Drill at Karkardooma Metro Station was commendable.
11. The response of the Delhi Health Services, Govt. & Private Hospitals was admired by the Deputy Commissioner (East).
12. The efforts of Delhi Fire Service were commendable. The Deputy Commissioner (East) congratulated the Delhi Fire Services for their hard work & cooperation during entire mock Drill.
13. A fine response from the NDRF along with the team of 45 members & Disaster Management equipments led by Sh. Ashok Rai (Inspector) was highly remarkable.
14. MCD responded in time at all the venues.
15. The Incident Commander, Sh. R.K. Misra, the Deputy Commissioner (East) cum Chairperson, DDMA (East) appreciated all ESFs of District East for their tremendous support & cooperation in successfully carrying out the Mock Drill at 19 venues in the District. He also appreciated the response time of all Agencies & further suggested that there is need to have more such exercises so as to improve the inter agency coordination which was missing at few sites. Further visualizing the crunch of Ambulances at Incident Sites, it was suggested to strengthen the Medical response system in the District so as to efficiently cater the emergency situations.
16. The overall performance of all the agencies was satisfactory, which is further expected to improve by carrying out more such exercises in future. The Army officials, the National Disaster Response Force (NDRF) team and Director, the National Disaster Management Authority (NDMA) were thanked for their full support and co-ordination.





## Annexure-8

### Annexure-8: Mega Mock Drill Report For North District

The Mega Mock Drill was conducted in District North on 15 February, 2012 at 1130 hrs, as follows: -

Sl. No	Name of the Incident Sites
1.	Raj Niwas
2.	DC Office Building
3.	Interlock Mall
4.	Metro Station Inderlok
5.	Wazirabad Water Works
6.	Residential Area
7.	Interlock Residential Area
8.	Malka Ganj Residential Area
9.	Yamuna Bazar Flyover
10.	Phool Mandi Mori Gate
11.	CNG Station Majnu Ka Tilla
12.	Tirath Ram Hospital
13.	Sant Paramanad Hospital
14.	Fifty Schools in District North
15.	Three College in District North
16.	50 Schools
17.	Colleges



**Objective:**

The main **objective** of this mock drill was to assess the functions of all Emergency Support Functionaries (ESFs) in managing disasters in the district north. For the preparation of conducting a Mega Mock Drill, three meetings were conducted with School Principals,

College Principals, RWA's, and all ESFs & Stakeholders. 400 Civil Defence Volunteers were deployed as dummy casualties at all the sites. On 15 February 2012, District North Temporary EOC worked under the supervision of DPO (North), DEO (North) and Civil Defence Volunteer.

**Total Number of Casualties In District North:**

1.	Killed – <b>24</b> (Actual)	400 (simulated)
2.	Injured – <b>110</b> (Actual)	2500 (simulated)

**Hospital Where Patient Shifted:**

S.No.	Venue	Events	Incident Commander / Staff
1	Aruna Asaf Ali Hospital	Attending hospitals	Sh. Ashish Kumar, SDM (Civil Line) (9717844227) / Sarvinder, Patwari (9811289786)
2	St. Stephen Hospital	Attending hospitals	Sh S.K. Tyagi Tehsildar (Kotwali) (9871289865)
3	Hindu Rao Hospital	Attending hospitals	Sh Rakesh Sharma , SDM (Kotwali) (9891848855)
4	Shushruta Trauma Centre	Attending hospitals	Sh Rakesh Sharma , SDM (Kotwali) (9891848855)



## **Relief Centre**

Relief Centre was to be set up at Qudsia Ghat where the Affected Persons (homeless) would be brought and given shelter. At the relief centre food, medical facilities etc would be provided. Incharge of the relief centre was to be Sh. Ashok Kumar, OS (Administration).

- The NDRF Batalian of 40 personnel's reported for Search & Rescue Operation in

## **STATUS REPORT OF ALL THE INCIDENT SITES:**

### **1. Raj Niwas**

At exact 1130 hours, severe tremors due to Earthquake were felt at Raj Niwas and a siren was also sounded to inform all. At around 1131

### **Casualty Status:**

No causality at Raj Niwas.

### **Time log of Emergency Support Functionaries (ESFs) at Raj Niwas**

S. No.	Name of the Department	Call Time (EOC NORTH)	Response Time
1.	Delhi Police	1132 hrs	1133 and 1135 hrs

### **Ambulance and Fire Could Not Be Seen At Raj Niwas:**

#### **Response Status of All ESFs**

S. No.	Name of the Department	Equipments
1	Delhi Police	2PCR Vans

the District North at Inderlok Metro Mall and Inderlok Metro Station.

- The CID, Delhi Police SWAT, also reported at certain incident sites during search & rescue operation.
- The Mega Mock Drill was called off in the district at 03:00 PM.

hours, the control Room of District North was informed about the severe earthquake. 1077 the disaster control help line number failed to respond inspite of repeated calls. The officers and the staff inside Raj Niwas were in a systematic manner escorted out to an open area. Hon'ble Lt. Governor Delhi also participated in the Mock drill.



**Incident Command Post:**

Incident command Post was set up in Raj Niwas under the supervision of **SDM Civil Lines,**

**Sh. Ashish Kumar.** The Deputy Commissioner of North (DC (N)) Sh. Z. U .Siddiqui also observed the incident site.

**2. DC Office Building:**

**Casualty status**

The latest status of the dead and injured persons as per report of the Hospital was as under:-

Name of the Hospital	No. of Dead	No. of Serious injury	No. of Minor injury	Total Affected
-----	00	00	02	02

**First Aid was given by the Civil Defence Volunteer on the spot.**

**DC Office Building:**

S. No.	Name of the Department	Call Time (EOC North)	Response Time
1.	Delhi Police	1138 hrs	Two minutes and 28 seconds
2.	Delhi Fire Services	1133 hrs	Two minutes and 51 seconds

**Response Status of All ESFs:**

S. No.	Name of the Department	Equipments/Logistics
1	Delhi Police	Around 9 PCR
2	ACP Traffic	1 Traffic van
3	Delhi Fire Services	1 Fire Tender
4	DHS	Established Medical Post
5	Revenue Department	SDM Shahdara with their team
7	CATS	1 Ambulance
8	MTNL	2 phones & 4 mobile phones
9	Delhi Jal Board	2 Water tanker
10	MCD	2 JCB, 1 Suction Machine, 1 loader



### Incident Command Post:

Incident command post was set up at the incident site under the surveillance of S.S Nagi PS to Deputy Commissioner (North) and District Project Officer (DPO) Neetesh Rai. Assistant Divisional Magistrate (North) Sh Shamim Akhtar also observed the overall scenario.

### 3. Inderlok Metro Mall:

- Fire had broken out in the Mall and building collapsed due to the occurrence of Earth Quake.

### Casualty Status:

The status of the dead and injured persons as per report of the hospital was as under:-

Name of the Hospital	No. of Dead	No. of Serious injury	No. of Minor injury	Total Affected
Hindu Rao Hospital	02	04	05	11

### Time log of Emergency Support Functionaries (ESFs):

S. No.	Name of the Department	Response Time
1.	Delhi Police	1132 and 1135 hrs
2.	Traffic Police	----
3.	Delhi Fire Services	1150 hrs
4.	DHS	1135 hrs
5.	Civil Defence	1140 hrs
6.	CATS	1135 hrs
7.	NDPL	1140 hrs
8.	MTNL	1150 hrs
9.	CID	1135 hrs
10.	NDRF 8Bn	1145 hrs



**Response Status of All ESFs:**

S. No.	Name of the Department	Equipments/ Machinery brought at site
1	Delhi Police	8 PCR Vans
2	Traffic Police	3 Vans
3	Delhi Fire Services	2 Fire Tender
4	DHS	Medical Post established both at incident site and relief center
6	CATS	2 Ambulance
7	NDPL	1 Van
8	MCD	1 JCB But Late
9	DTC	Not Responded
10	PWD	Not Responded

**Incident Command Post:**

Incident command Post was set up at the Inderlok Mall under the supervision of **Tehsildar Sadar Bazar. Deputy Commissioner (north)** also observed the incident site.

**4. Metro Station Inderlok:**

**Casualty Status:**

The status of the dead and injured persons as per report of the Hospital was as under:-

Name of the Hospital	No. of Dead	No. of Serious injury	No. of Minor injury	Total Affected
Hindu Hospital	02	05	08	15



### Time Log of Emergency Support Functionaries (ESFs):

S. No.	Name of the Department	Response Time
1	Delhi Police	1132 and 1135 hrs
2	Traffic Police	
3	Delhi Fire Services	1150 hrs
4	DHS	1135 hrs
5	Civil Defence	1140 hrs
6	CATS	1135 hrs
7	NDPL	1140 hrs
8	MTNL	1150 hrs
9	CID	1135 hrs
10	NDRF 8th Battalion	1145 hrs

### Response Status of All ESFs:

S. No.	Name of the Department	Equipments/ Machinery brought at site
1	Delhi Police	8 PCR Vans
2	Traffic Police	3 Vans
3	Delhi Fire Services	2 Fire Tender
4	DHS	Medical Post established both at incident site and relief center
5	CATS	2 Ambulance
6	NDPL	1 Van
7	MCD	1 JCB But Late
8	DTC	Not Responded
9	PWD	Not Responded



### Incident Command Post:

Incident command Post was set up at the Metro Station Inderlok under the supervision of **Sub-divisional Magistrate, Sadar Bazar. Deputy Commissioner (north) also** observed the incident site.

### 3. Yamuna Bazaar Flyover:

Due to the occurrence of earthquake, Yamuna Bazaar Flyover of District North had developed deep cracks and most of them could not withstand the vehicles traffic.

### Casualty Status:

The status of the dead and injured persons as per report of the Hospital was as under:-

Name of the Hospital	No. of Dead	No. of Serious injury	No. of Minor injury	Total Affected
Trauma Center	01	03	05	09

### Time Log of Emergency Support Functionaries (ESFs):

S. No.	Name of the Department	Call Time (EOC NE)	Response Time
1	Delhi Police		1139, 1140, 1142 and 1150 hours
2	Delhi Police Team		1220 hrs
3	Traffic Police		1140hrs
4	Delhi Fire Services		1145 and 1150 hrs
5	DHS		1138 hrs
7	CATS		1137 and 1155 hrs
8	MCD		1134 and 1135 hrs



### Response Status of All ESFs:

S. No.	Name of the Department	Equipments/ Machinery brought at site
1	Delhi Police	4 PCR Vans
2	Traffic Police	1 Vans
3	Delhi Fire Services	2 Fire Tender
4	DHS	Medical Post established at incident site
6	Civil Defence	Civil defence personnel
7	CATS	2 Ambulance
8	MCD	1 JCB

### Incident Command Post:

Incident command Post was set up at Yamuna Bazar Flyover under the supervision of sub-Divisional Magistrate, **SDM Kotwali Sh. Rakesh Sharma. DC (N)** also observed the incident site.

### 5. Majnu ka Tilla (Filling Point):

**Fire had broken out in CNG stations due to the occurrence of earthquake.**

### Casualty Status:

The status of the dead and injured persons as per report of the Hospital was as under:-

Name of the Hospital	No. of Dead	No. of Serious injury	No. of Minor injury	Total Affected
Shusrut Trauma Center	00	01	01	02

### Time Log of Emergency Support Functionaries (ESFs):

S. No.	Name of the Department	Response Time
1	Delhi Police	1142 and 1153 hrs
2	Recovery van	1142 hrs
3	Delhi Fire Services	1145 hrs
4	Revenue Department	1130 hrs



### Response Status of All ESFs:

S. No.	Name of the Department	Equipments/ Machinery brought at site
1	Delhi Police	2 PCR Vans
2	Delhi Fire Services	1 Fire Tender
3	BSES Yamuna Power Ltd.	Emergency Light without generator
4	Delhi Jal Board	Not Responded
5	MCD	Not Responded

### Incident Command Post:

Incident command Post was set up at Majnu ka Tilla (Filling Station) under the super vision of **Sh. Charanjeet. SDM Civil Lines** observed the incident site.

### 6. Phool Mandi Mori Gate:

Road accidents occurred due to the earthquake tremor at Phool Mandi Morigate.

### Casualty Status:

The status of Dead and Injured Persons as per report of the Hospital was as under:-

Name of the Hospital	No. of Dead	No. of Serious injury	No. of Minor injury	Total Affected
St. Stephens Hospital	02	04	06	12

### Time Log of Emergency Support Functionaries (ESFs):

S. No.	Name of the Department	Response Time
1	Delhi Police	1139, 1145 and 1142 hrs
2	Traffic Police	
3	Delhi Fire Services	1140 hrs
4	DHS	1135 hrs
5	CATS	1152 hrs



**Response Status of All ESFs:**

S. No.	Name of the Department	Equipments/ Machinery brought at site
1	Delhi Police	3 PCR Vans
2	Delhi Fire Services	1 Fire Tender
3	DHS	Medical Post established at incident site
4	CATS	1 Ambulance

**Incident Command Post:**

Incident command Post was set up at the Phool Mandi Mori gate under the supervision of SDM Rakesh Sharma (Kotwali).

**7. 313/44 B-22 Block A9 Inderlok:**

**Casualty Status:**

The latest status of the dead and injured persons as per report of the Hospital was as under:-

Name of the Hospital	No. of Dead	No. of Serious injury	No. of Minor injury	Total Affected
Hindu Rao Hospital	03	04	04	11

**Time Log of Emergency Support Functionaries:**

S. No.	Name of the Department	Response Time
1.	Delhi Police	1133, 1143, 1137 and 1157 hrs
2.	CID ASI	1137 hrs
3.	Inspector Traffic	1142 hrs
4.	Delhi Fire Services	--
5.	DHS	1528 hrs
6.	CATS	1138 and 1230 hrs
7.	Dispensry Inderlok, with team	1133 hrs



**Response Status of All ESFs:**

S. No.	Name of the Department	Equipments / Logistics
1	Delhi Police	Around 06PCR,
2	ACP Traffic	1 Traffic Van
3	Delhi Fire Services	--
4	DHS	Established Medical Post with Team
5	Revenue Department	
6	Civil Defence	
7	CATS	01 Ambulance

**Incident Command Post:**

Incident command post was set up at the incident site under the surveillance of Sh. Vinod Bilif.

**Shortcomings:**

1. Non-availability of Fire Services and MCD.

**8. Wazirabad Water Workes Residential Area:**

**Casualty Status:**

The status of the dead and injured persons as per report of the Hospital was as under:-

Name of the Hospital	No. of Dead	No. of Serious injury	No. of Minor injury	Total Affected
Shusrut Trauma Center	3	5	6	14

**Relief Center:**

**Qudesia Ghat:** Minor injury persons treated at Medical Post set up at relief center.



**Time Log of Emergency Support Functionaries (ESFs):**

S. No.	Name of the Department	Response Time
1	Delhi Police	1137 hrs
2	Traffic Police	
3	Delhi Fire Services	1140 hrs
4	Mobile Medical van/Doctors	1139 hrs
5	CATS	Did not arrive at the spot
6	NDPL	1158 hrs
7	MCD	Did not reach at the spot

**Response Status of All ESFs:**

S. No.	Name of the Department	Equipments/ brought at site	Machinery
1	Delhi Police	2 PCR Vans	
2	Delhi Fire Services	1 Fire Tender	
3	Mobile Medical van/Doctors	1 medical van	
6	CATS	--	
7	NDPL	1 van	

**Incident Command Post:**

Incident command Post was set up at New Wazirabad water works under the supervision of **Sub-Divisional Magistrates Civil Lines Sh. Ashish Kumar and Sh. Satbir, Patwari.**

**9. Malkaganj Residential Area:**

People were trapped under the debris of fallen buildings at Malka Ganj and some houses had caught fire.



**Casualty Status:**

The status of the dead and injured persons as per report of the Hospital was as under:-

Name of the Hospital	No. of Dead	No. of Serious injury	No. of Minor injury	Total Affected
Hindu Rao Hospital	4	6	10	20

**Relief Center:**

**Qudesia Ghat:** Mildly injured persons were treated at the Medical Post set up at the relief center.

**Time Log of Emergency Support Functionaries (ESFs):**

S. No.	Name of the Department	Response Time
1	Delhi Police	30 mins late, 1201 hrs
2	Delhi Fire Services	1144 hrs
3	Medical Mobile Ambulance	1155 hrs
4	CATS	1143 hrs
5	Delhi Jal Board	1146 hrs
6	MCD	1155 hrs

**Response Status of All ESFs:**

S. No.	Name of the Department	Equipments/ Machinery brought at site
1	Delhi Police	3 PCR Vans
2	Private Vehicles	1 Vans
3	Delhi Fire Services	1 Fire Tender

**Incident Command Post:**

Incident command Post was set up at B Block Malka Ganj under the Supervision of Sh. Ashok Bhasin.



### 10. Tirath Ram Hospital:

The hospital was affected by tremors of the earthquake. Due to the earthquake tremors, one part of the building was damaged.

### Casualty Status:

The status of the dead and injured persons as per report of the Hospital was as under:-

Name of the Hospital	No. of Dead	No. of Serious injury	No. of Minor injury	Total Affected
Aruna Asaf Ali Hospital	01	05	06	12

### Time Log of Emergency Support Functionaries (ESFs):

S. No.	Name of the Department	Response Time
1	Delhi Police	1150 and 1153 hrs
2	Delhi Fire Services	1140 hrs
3	CATS	---
4	MCD	1200 hrs

### Response Status of All ESFs:

S. No.	Name of the Department	Equipments/ Machinery brought at site
1	Delhi Police	2 PCR Vans
2	Delhi Fire Services	1 Fire Tender

### Incident Command Post:

Incident command Post was set up at the Tirath Ram Hospital under the Supervision of Sh. Chandera Shekhar, Sub-Divisional Magistrate (Election)



### 11. Sant Parmanand Hospital:

The hospital was affected by tremors of the earthquake. Due to the earthquake tremors, one part of the building was damaged.

#### Casualty Status:

The status of the dead and injured persons as per report of the hospital was as under:-

Name of the Hospital	No. of Dead	No. of Serious injury	No. of Minor injury	Total Affected
Aruna Asaf Ali Hospital	02	02	03	07

#### Time Log of Emergency Support Functionaries (ESFs):

S. No.	Name of the Department	Response Time
1	Delhi Police	1145 and 1147 hrs 1148 and 1150 hrs
2	Delhi Fire Services	1145 hrs
3	CATS	---
4	MCD	----

#### Response Status of All ESFs:

S. No.	Name of the Department	Equipments/ Machinery brought at site
1	Delhi Police	4 PCR Vans
2	Delhi Fire Services	1 Fire Tender



### **Incident Command Post:**

Incident command Post was set up at Sant Parmanand Hospital under the Supervision of Sh. J.S Dabbas, Head Clerk (Election).

### **Weaknesses:**

- Non Availability of emergency communication equipments
- Insufficient sharing of information
- Capacity of NGO's needs to be improved.
- Insufficient rescue resources
- Emergency relief material and goods received were insufficient
- Disaster risk reduction capacity of local community needs to be enhanced

### **Observations:**

1. There is a need to strengthen emergency operation centre (EOC) by way of providing more staff, furniture & fixture, work stations, latest design of EOC, more communication lines (landlines as well as mobile phones) and latest gadgets. The nodal officers of all the emergency support functionaries (ESFs) must report and sit at EOC at the time of disaster situation for better coordination and control of disaster related activities.
2. There should be a common communication network between all ESFs. Since the District Collector/Deputy Commissioner is the Chairman of the DDMA, all ESFs should appoint their nodal officers as per the boundaries of revenue districts to whom the tetra or any other wireless communication system can be provided in the same group/channel. The system of recording of communication/messages received and given during the operation needs to be improved and standardized. Log book system also needs to be started. The feedback system also needs to be institutionalized.
3. For early warning and response system, Emergency siren/alarm at the level of Delhi state & District is immediately required. Further, all public utility buildings, resident welfare associations (RWAs), Market Trade associations are also required to install the same.
4. The response of Medical/Health services needs to be improved a lot at all field levels as well as at hospital levels. Chief District Medical Officer (CDMO) of the district may be given more authorities and responsibilities in this regard.
5. The health department, at the district level, should have the database/inventory of all private hospitals & nursing homes as well as ambulances and it should be properly communicated to the district authority, PCR, the Delhi Police, CATS, etc to ensure better & coordinated health services during disaster and also to avoid undue pressure on govt. hospitals and ambulances beyond the capacity.



6. All ESFs must have assessed the infrastructure capacities of their respective departments during mock drill. All the ESFs more importantly MCD, PWD, Health Department, Fire Department, CATS, PCR, etc, are required to immediately increase the infrastructural capacity by way of procuring the latest & State-of-art, machineries & equipments.
7. The Gender Resource Centre (GRCs) working in Mission Convergence project are basically NGOs & have worked quit well in mega mock drill during Search & Rescue Operations. The disaster related work should also be included & specified in the normal duties/responsibilities and scope of work of GRCs by the department of mission convergence.
8. Electric display boards should be placed in every hospital to provide smooth & regular latest information to the attendants & friends of victims, media etc.
9. It is observed that the availability of CATS ambulances was limited in comparison to the requirements & therefore number of CATS ambulances need to increase immediately to cope up with any kind of big disasters.
10. The standard checklist for mock drills & actual disaster situation should be prepared for better coordination and the control of activities, for at least following activities:
  - a) Incident Sites
  - b) Relief centers
  - c) Hospitals
  - d) Each ESF
11. There is need to improve handling of casualties at the incident site. PCR, CATS, Fire Department, as well as Civil Defence Volunteers, NGOs, RWAs are required to be given proper training in this regard.
12. The prioritization of the casualties as per their condition & the urgency of medical treatment required should be done at the incident site by the search & rescue teams. A proper training module is required on this issue.
13. It was observed that DUSIB could not provide mobile toilet vehicles (MTVs) at relief centers.
14. It was felt that all ESFs should be motivated for maximum participation at the time of disaster.
15. It was observed that finance is an important emergency support function because there are many unforeseen expenditures at time of disasters. At present, Finance Department is not included as ESF at district as well as state level. It is required to include finance department as one of the ESF at district as well as state level.
16. It was observed that the response of Civil Defence volunteers at incident sites as well as relief centers was not up to the mark. The civil Defence organization is required to be strengthened and systematized further.





## Annexure-9: Mega Mock Drill Report For Central District

### Action Plan:

#### Identified Location and Scenario:-

- a. MCD Civic Centre located at JLN Marg in Paharganj Sub-Division which is a 28 storey building, housing MCD Headquarter & having over 5000 staff/officers and also public visiting the office.
- b. VAT Building located at ITO in Darya Ganj Sub-Division which 13 storey building and surrounded by tall structures like PHQ, AGCR Building Pearey Lal Bhawan – housing 1100 staff/officers and also public visiting the office.
- c. Liberty Cinema in Karol Bagh Sub Division having capacity of 950 audience and 20 staff/officers – 4 storey building located at the Rohtak Road – Bomb Blast had already occurred in this cinema in 2005.

#### Details of Casualties as Formulated:

**1. MCD Civic Center Building:** Total 14 person died (6 at 6<sup>th</sup> floor, 4 at 8<sup>th</sup> floor & 4 at 11<sup>th</sup> floor) total 20 person Serious injury ( 4 at 2<sup>nd</sup> floor, 3 at 3<sup>rd</sup> floor, 2 at 4<sup>th</sup> floor, 8 at 9<sup>th</sup> floor & 3 at 13<sup>th</sup> floor) 37 also suffered minor injuries (3 at 5<sup>th</sup> floor, 4 at 8<sup>th</sup> floor to be rescued by forklift 5 each at 17<sup>th</sup>, 19<sup>th</sup>, 21<sup>st</sup>, & 24<sup>th</sup> floor, 6 at 23<sup>rd</sup> floor & 4 at 27<sup>th</sup> floor.

**2. VAT Building:** Total 12 person died (2 at 7<sup>th</sup> floor, 4 each at 5<sup>th</sup> & 6<sup>th</sup> floors & 2 at 8<sup>th</sup> floor) 19 suffered serious injuries (4 at ground floor, 5 at 4<sup>th</sup> floor & 10 at 7<sup>th</sup> floor). Total 24 also suffered some minor injuries (6 at 2<sup>nd</sup> floor to be rescued by slide down, 4 suffered minor

injuries at 8<sup>th</sup> floor to be rescued, 5 at 11<sup>th</sup> floor, 6 at 12<sup>th</sup> floor, & 3 at 13<sup>th</sup> floor.

**3. Liberty Cinema:** Total 4 died (3 at ground floor & 1 at Balcony) total 20 were Serious injury (12 at Balcony & 8 at the ground floor). 35 persons also suffered minor injuries (10 at roof top, 17 at balcony & 8 at ground floor).

#### Steps Taken by District DMA (Central)

##### Meeting with DDMA:

1. A meeting was held on 3<sup>rd</sup> February, 2012 in which all ESFs were briefed in detail, police for law and order, civil defence and fire for search and rescue and civil defence for dummy dead and injured, 3 private hospitals i.e. Sir Ganga Ram, B.L. Kapur & Jessa Ram Hospital were placed in the loop for receiving dead/injured along with LNJP & GB Pant. Further Central Railway Hospital and Lady Hardinge Hospital were also involved so as to ensure proper distribution of dead/injured in case scenario of dead/injured was on the higher side and required additional hospital. Details like building plans, exit and entry, etc. with respect to the building had also been called for.

2. A meeting held on 10<sup>th</sup> February, 2012 when ESFs were briefed further alongwith details of dead/injured & hospitals were asked to report dead/injured to EOC. MTNL was asked to coordinate with wireless local loops (WLLS). Further 2 teams of National Disaster Response Force (NDRF) were deputed 1 at VAT and 1 at MCD Civic Centre. After completion of VAT building, the team was moved to Liberty Cinema for rescue.



3. Specific meetings were held by the DDMA Team including the Chairman DDMA with the Commissioner MCD and the Commissioner VA. The Additional Commissioner Engineering was deputed by the Commissioner MCD and Additional Commissioner VAT was deputed by the Commissioner VAT for coordination – detailed meetings were separately held with the aforesaid coordinators.

The coordinators have been requested to ensure the following:

- Install alarms & check the functioning throughout the building and outside for any emergency.
- Install public address system and if installed, check its functioning throughout the building & outside.
- Appoint a Nodal Officer on each floor for orderly evacuation.
- Nodal Officer shall inform Disaster help Line -1077, 101 and 100 immediately on occurrence of disaster.
- Display Maps showing Exit routes on all the Floors.
- Display Exit signs and Emergency Exit signs which should be illuminated.
- Emergency Exits must be clear and open all the time.
- Connection to electric backup of display maps, Exit sign PA & Alarm system.
- Fire extinguishers installation and checking and maintenance on regular basis.
- Shut off all lifts during disaster/evacuation.
- Details of dead/injured to be prepared including their locations within the building.
- Two ambulances would be provided by CATS and 3 PCR Ambulance would also be provided by the Police. Further, 17 PCR Van as well as the vehicles was used for ferrying the dead/injured.
- The detailed breakup of disaster management (DM) beds and additional single beds are as follows:



Sl. No	Name of Hospital	Beds available for Disaster Management & surge capacity	Data of Dead	Data of Serious injury
1.	LNJP Hospital	50	16 (Dead): 10 from MCD Civic Center & 6 from VAT Building.	<b>Total 23:</b> 10 from MCD Civic Center & 6 from VAT Building and 7 from Liberty Cinema.
2	Central Railway Hospital	10+5		<b>Total 2:</b> 2 MCD Civic Center
3	B.L Kapoor Hospital	30	7 Dead: 3 from Liberty Cinema; 3 from MCD Civic Center and 1 from VAT Building.	<b>Total 9:</b> 2 from VAT Building & 5 from Liberty Cinema and 2 from MCD Civic Center
4	Lady Hardinge Hospital	30+20		<b>Total 2:</b> 1 from VAT Building; 1 MCD Civic Center
5	Fortis Jessa Ram Hospital	10		<b>Total 11:</b> 6 from Liberty Cinema; 3 MCD Civic Center and 2 from VAT Building
6	Sir Ganga Ram Hospital	30+20	5 Dead: (4) from VAT Building and 1 from Liberty Cinema)	<b>Total 7:</b> 5 from VAT Building; and 2 from Liberty Cinema
7	G.B Pant Hospital (for VIPs)		2 VIP: (1 From MCD Civic Center and 1 from VAT Building.)	<b>Total 5:</b> 3 from VAT Building and 2 from MCD Civic Center.
	<b>Total</b>	<b>205</b>	<b>30</b>	<b>59</b>



The aforesaid had been provided to all the ESFs.

- Internal orders had been issued with detailed duties placed for individual officers/staff of DC (C) office.
- The Mock Drill started with the general siren going on at 1130 hrs and also with alarms at MCD Civic Center, VAT Building and Liberty Cinema, the three places where the mock drill was planned. Immediately on receiving the call, the officers/staff who had been deputed to the various sites including hospitals commenced for their joining the concerned place of duty. As stated above, SDM (DG) was placed on duty as Deputy Incident Commander in VAT Building, SDM (PG) as Deputy Incident Commander in the MCD Civic Center and SDM (KB) as Deputy Incident Commander in Liberty Cinema. They were assisted by their Tehsildars and other staff who also reached the aforesaid three spots immediately on receipt of message.
- The ADM (C)/CEO (DDMA) was directed by the Deputy Commissioner (Central) to proceed to the VAT Building while DC (C)/Chairman (DDMA) proceeded to the MCD Civic Center along with DPO. A Relief Center was also established at Ambedkar Stadium and supervised by PC Central. Time Log for various ESFs is enclosed as Annexure-A,B &C. The Civil Defence Volunteers reached MCD Civic Center within 10 minutes being just next door at Kamla Market while they reached the VAT building within 20 minutes. The Civil Defence Volunteers reached Liberty Cinema within 25 minutes.
- Immediately on sounding of alarm, the evacuation of building was commenced by the owners/in charge of the building since the responders were yet to reach the site. The Additional District Magistrates (Central) reached the VAT building around 1150 hrs and Deputy Commissioner (Central) also reached the MCD Civic Center at around 1150 hrs. The lifts in the Civic Center had been shut off and the complete staff/officers climbed down the 28 storey building and the evacuation was completed in about 35 minutes. In VAT building, it was completed in about 25 minutes. In Liberty Cinema, the evacuation was completed in around 20 minutes since the first show was yet to commence and the hall was not completely full.
- At Civic Center 01 fire tender was provided by the Fire Department while 01 JCB, 01 Bob-Cat, 01 Mini Truck, 01 wheel Excavator and 01 loader had been provided by the Disaster Management Branch of the MCD. At VAT Building, the Fire Department had provided one Fire Tender and the MCD had provided 01 JCB and 01 Excavator.
- In the VAT building, the Civil Defence Volunteers carried out the rescue operation with the help of sliding shoot from the 3<sup>rd</sup> floor through which 1 person (Serious injury), was rescued through chair knot method. Further, 2 Minor injury were rescued through the jumping sheet method and the rest were rescued with the help of Civil Defence Volunteers and their stretchers. At MCD Civic Center, persons trapped at the 8<sup>th</sup> floor were rescued with the help of Sky Lift while the rest were



rescued with the help of Civil Defence Volunteers and the NDRF with the help of stretchers. The job was extremely tedious in view of the lifts having been shut off.

- Drill was called off at Civic Center at 1318 hrs, VAT Building at 1249 hrs & Liberty at 1242 hrs.
- Injured and dead were rushed to 7 hospital identified earlier.

- The details of the dead and injured as reported from the hospitals were as under:

Name of the Hospitals	Dead reported	Serious injury reported
LNJP	16	10
Railway Hospital	00	00
B.L. Kapoor	07	16
Lady Harding	04	18
Fortis Jessa Ram	00	11
Ganga Ram	03	04
G.B. Pant Hospital	04	04
Total	34	63
Planned	30	59

#### **De-briefing held with ESFs/Army/ NDMA:**

Pursuant to the de-briefing held at 1600 hrs, the following points emerged:

- Since the DM beds of hospitals taken part in the mock drill (07) was available with the district and shared with other ESFs, a pro-rata division had been made while sending the dead/injured to the hospitals from each of the centers. However, similar pro-rata distribution of the PCR vans to the extent possible needs to be looked at and in case of a real incident where no sites were

evacuated and the dead/injured are vastly different.

- Reporting to 100: MCD had reported disaster to 100 and 101 as well as 1077 through Hot line, according to Addl. DCP, Police Authorities who attended the meeting reported that no one reported to the 100 number. However, MCD authorities confirm that a call had been made from the hot line to 100 and 101 as well 1077. The police authorities reported at 1203 hrs



after first call was made at around 1158 hrs. Accordingly, they had reported at their proper time. The same issue appeared to have happened during the mock drill at MTNL building, JNL Marg when the PCR reported almost 25 minutes late.

- Immediately on evacuation, the employees of Civic Centre gathered around the nearest area where the evacuation of dead and injured was being done and transferred to the ambulances. A huge effort was made to remove the crowd backward to avoid clogging the area and transport which were there for removal of dead bodies. It was extremely unfortunate that in spite of repeated instructions of Police/DDMA/Fire Dept, the MCD employees continued to surround the centre focal point of transfer of dead/injured to the vehicles making their transportation a complex affair.
- The distribution of dead/Serious injury was done in accordance with the prescribed pro-rata ratio of available DM beds in each of the hospitals participating in the mock drill. Yet there were some discrepancies.
- It was informed by the Fire Department that out of the 04 sky lifts available with them, 02 were out of order due to which they could not provide sky lift at the VAT building. The situation needs to be amended at the earliest.
- The sound of the siren at the civic center building was extremely jarring and traumatizing. The sound of the siren needs to be improved slightly.
- Civil Defence reported that only one shoot is available with whole of civil Defence and that too is available with the Home Guard Department. Accordingly, it is necessary to purchase many more shoots so that this facility is made available for rescue at multiple disaster points. Even the length of the rope needs to be increased manifold so that other rescue operations by rope are enhanced. The Civil Defence also does not have any vehicle during and arranging vehicle is not possible immediately if any real disaster occurs. This will only lead to waste of time or they will reach the disaster site by public transport.
- MCD should also have some equipment like shoot and rope for such a big building so that they can be utilized in such a huge building.
- According to the feedback of the hospital authorities, electric display board for dead/injured needs to be placed at the gate so that the relatives etc. of the dead/injured are informed of their whereabouts/ conditions. They also suggested that the log of the dead/injured should also be passed to the DDMA authorities for placing on the website as well on the electronic board at EOC immediately. This would especially help unknown persons to be identified by their relatives/friends. They also suggested that Patslide should be installed in all PCR vans so that the patients being transferred in a hurry do not move from side to side. Further, a counselor was suggested for talking to the relatives and friends of



the patients so that they can be mollified and consoled.

- It may be seen that the only equipment sent by the MCD to the two centers was at Civic Center and no equipment was sent to Liberty Cinema or VAT building. The Superintendent Engineer of the MCD stated that they were short of equipment and it was not possible for them to send any such equipment to more than one or two centers. Accordingly enhancement of such equipment is immediately required.
- The Tetra sets started hanging at VAT building/Civic Center and would repeatedly show as PPT or Please wait, Group in Use. According to the Adviser NDMA, there should be more Tetra sets with every line department/ESF.
- As per the NDMA, Army should place senior officers as observers and not junior commissioned officers (JCOs).
- As regards head count of the affected people at the centers of disaster “Buddy”, system needs to be developed so that anyone who has already come out of the building should be able to identify his co-workers so that a proper head count can be taken.
- National Disaster Response Force (NDRF) stated that there should be

local coordination with NDRF which was a valid point subject to the fact that they attended the meeting of the DDMA which they had not been doing for the past 2 years.

- CATs provided only two ambulances with an order which they issued on the 13<sup>th</sup> of February while they had earlier promised 6 ambulances for this district.
- Finally the most important issue is that though the DDMA meetings are being called at regular intervals, there are some departments like CATS who are sending very junior Ambulance Officers and in fact Director, CATS has never attended any meeting of the DDMA. Even from Delhi Police/Traffic Police only ACPs are attending and since they are sub-division wise, 03 ACPs attend the meetings and it is necessary that some Senior Officers from the police/Traffic attend the meetings of DDMA. Same goes for SE (PWD) and DCs of MCD.
- Site plan of the high rise buildings needs to be made available onsite so that the ESF can find the ways out especially at the time of true disaster at night or where debris has fallen and many ins and outs in the many buildings may be blocked.





## **Annexure-10: Mega Mock Drill Report For North-East District**

The Mega Mock Drill was conducted in District North-East on the 15 February, 2012 at 1130 hrs at 70 incident sites, which are as follows: -

<b>SI No</b>	<b>Particulars</b>	<b>No of Places</b>
1	Govt Schools	26
2	Pvt Schools	20
3	Government Hospitals	02
4	Private Hospitals	04
5	Colleges	04
6	Petrol Pump	02
7	RWAs	05
8	Market Trade Associations	02
9	Cinema Hall	01
10	Govt office Building	04

### **Ahead of the Event:**

- For the preparation to conduct a Mega Mock Drill, two Table Top Exercises were conducted with all ESFs & Stakeholders on 9 and 14 February, 2012.
- A training programme was organized for the principals/ Vice Principals of all Govt/Private Schools & colleges on 13 February, 2012 at RPVV, Yamuna Vihar School wherein Schools & Colleges participated. The training was imparted by an Officer of the Delhi Fire Services, the National Disaster Response Force (NDRF) and Search & Rescue Instructors.

- 400 Civil Defence Volunteers and 73 NCC Cadets were deployed as dummy casualties at all 70 sites. They were provided training by the officials of the District Disaster Management Centre, District North-East on 11 and 13 February, 2012.

### **On the Day of Event:**

- On 15 February, 2012, emergency operation centre (north-east) (EOC (NE)) was working under overall supervision of ADM (NE) with the help of DPO (NE), other staff members of EOC (NE) & 06 Civil Defence Volunteers. The District Incident Commander/ DC (NE) were present at



EOC (NE). CDMO (NE), Dr. Ashok Saxena, AAO (CATS), Sh. S.P. Singh, Chief Warden (Civil Defence), Sh. I.D. Gupta, Addl. Chief Wardens (Civil

Defence) were also present at EOC (NE) during the operation. The Health Department Control Room was also set up at EOC (NE).

### Casualty Status:

As per available reports, status of casualties at various incident sites is as follows: -

SI No	Casualties	Minor injury
1	Dead	21
2	Major Injured	110
3	110	110

The dead and major injured were sent to the various Govt. Hospitals.

### Relief Centers

Three Relief Centers were set up in the District (1 in each Sub-division) where the Minor injury

and other affected persons were sent for relief. The DTC buses transported them to the relief centers from the incident sites. The details of relief centers are as follows: -

SI No	Name of Relief Centre	Sub-Division	No of minor casualties
1	F-2, Breather, Sunder Angry	Seemapuri	56
2	Community Center, Ashok Nagar	Shahdara	30
3	Community Center, Near SBI Bank, Gokulpur	Seelampur	165

- Refreshment was provided at the relief centers which were Community Centre, Ashok Nagar & Community Centre,

Gokul Puri. The Medical Posts were set up at all three relief centers.



- All the ESFs reported at various incident sites.
- During the search & rescue operation, volunteers from 12 GRCs, NGOs and Civil Defence Organization & St. John's Ambulance Brigade took part in search & rescue operation. The main NGOs which participated were Dera Sachha Sauda, Awami Ekta Welfare Association, Anchal Charitable Trust and Action India, etc.
- The National Disaster Response Force (NDRF) Battalion of 40 personnel reported for Search & Rescue Operation in the District. It was divided into 03 teams. The deployment of these 03 teams were made at following places: -
  1. Bhim Rao Ambedkar College, East of Loni Road
  2. Northern Engineering College, Shastri Park
  3. Shyam Lal College, Shahdara
- The CISF, Delhi Police SWAT, Rapid Action Force (RAF) 103 Battalion, BDT/NE also reported at certain incident sites during search & rescue operation.
- The Principals/ Vice Principals of all the Govt/Private Schools & Colleges were appointed as Incident Commanders at their respective places by through an order issued by the ADM (NE)/CEO, DDMA (NE). The Officers/ Officials of the Office of the DC (NE), from Tehsildar to LDC/ Patwari were appointed as Incident Commanders of 20 sites. The officers were appointed as Officer In-charge of all relief centers. One officer was also appointed as Officer In-charge/ Incident Commander for each Hospital. The Sub-

Divisional Magistrates were declared as incident Commanders at the Sub-divisional level to supervise the entire exercise in their concerned areas.

- The Mega Mock Drill was called off in the district at 1400 hrs.
- The de-briefing session was organized at 1430 hrs on 15 February, 2012 in the Office of DC (NE) wherein all ESFs, stakeholders & all Incident Commanders/ Officers In-charge participated. Major Pushpender Singh of HQ Area presented the observations to the participants. The DC (NE), the ADM (NE), other ESFs and some stakeholders also expressed their views & observations during the debriefing session.

#### **Observations:**

- There is a need to strengthen the EOC by way of providing more staff, furniture & fixtures, work stations, latest design of EOC, more communication lines (landlines as well as mobile phones), latest gadgets, etc. The nodal officer of all the ESFs must report & sit at EOC at the time of disaster situation for better coordination and control of disaster related activities.
- There should be a common communication network between all ESFs. Since the District Collector/Deputy Commissioner is the Chairman of the DDMA, all ESFs should appoint their nodal officers as per the boundaries of revenue districts, to whom the tetra or any other wireless communication system can be provided in the same group/channel. The system of recording of communication/ messages received &



given during the operation needs to be improved and standardized. Log book system to be started. The feedback system needs to be institutionalized. For early warning and response system, Emergency siren/alarm at the level of Delhi state & District is immediately required. Further, all public utility buildings, RWAs, Market Trade associations are also required to install the same.

- The response of Medical/Health services needs to be improved a lot at field level as well as at the hospital level. The chief district medical officer (CDMO) of the district may be given more authorities & responsibilities in this regard.
- The health department, at the district level, should have the database/inventory of all private hospitals & nursing homes as well as ambulances and it should be properly communicated with the district authority, PCR, Delhi Police, CATS etc to ensure better & coordinated health services during disaster and also to avoid undue pressure on govt. hospitals and ambulances beyond the capacity.
- All ESFs must have access to the infrastructure facilities of their department during mock drill. All the ESFs, more importantly MCD, PWD, Health Department, Fire Department, CATS and PCR, etc. are required to immediately increase the infrastructural capacities by way of procuring the latest & State-of-art, machineries & equipments.
- The Gender Resource centers (GRCs) working in the Mission Convergence project are basically NGOs & they

worked quite well in mega mock drill during Search and Rescue Operations. The disaster related work should also be included & specified in the normal duties/responsibilities and scope of work of GRCs by the department of mission convergence.

- Electric display boards should be placed in every hospital to provide smooth & regular latest information to the attendants & friends of victims, media etc.
- It was observed that the availability of CATS ambulances was limited in comparison to the requirements & therefore number of CATS ambulances needs to increase immediately to cope up with any kind of big disaster.
- The standard checklist for mock drills & actual disaster situation should be prepared for better coordination and the control of activities, for at least following activities:
  - Incident Sites
  - Relief centers
  - Hospitals
  - Each ESFs
- There is a great scope for improvement in the way of handling of casualties at the incident site. PCR, CATS, Fire Department, as well as Civil Defence Volunteers and NGOs. RWAs are required to be given proper training on this issue.
- The prioritization of the casualties as per their condition & the urgency of medical treatment should be done at the incident



site by the search & rescue teams. Proper training module is required on this issue.

- It was observed that DUSIB could not provide mobile toilet vehicles (MTVs) at relief centers.
- It is felt that all ESFs should be motivated for maximum participation at the time of disaster.
- It is agreed that finance is an important emergency support function because there are many unforeseen expenditures

at time of disasters. At present, Finance Department is not included as ESF at district as well as state level authorities. It is required to include the finance department as one of the ESF at district as well as state level.

- It was observed that the response of civil defence volunteers at incident sites as well as relief centers was not up to the mark. The civil defence organization is required to be strengthened and systematized further.





## Annexure -11

### Annexure -11 Check List For Observers

#### General Aspects:

- Type of disaster –Procedure for receiving information and passing of the same to the concerned departments.
- Is the district administration geared up for such eventuality? How will all the essential staff reach their locations and within what time frame.
- Establishing Command Posts near the major disaster sites.
- Earmarking of officer in charge (OICs) at various disaster sites.
- Co-ordination between various agencies (Communication, Command, Control, and their reporting etc).
- Restoration of essential services.
- Method of passing notices/information to various organizations and general public, as most of available communication set up may not be working.
- Visits to the site by District Collectors / VIPs.
- Method of receiving and distribution of Aid materials.
- Method of reception, guidance of aid team coming from other states / countries.
- Press release and establishment of media centres.
- Arrangements to avoid loot, arson, and have orderly rescue / relief operations.

- Are all agencies involved in rescue/relief operations working in close coordination?
- Is Army (second responders) given warning and at what stage are they called? Were all available govt resources utilised to the optimum level?
- Requisition and allocation of the NDRF, civil volunteers' forces and other available civil govt machineries / relief parties.
- Availability of dog squads to trace buried casualties in the debris.
- Reaction and working of various agencies, viz, the NDMA, the DDMA, the NDRF, civil defence force, police, Ambulance and the fire brigades, etc.
- Establish operation rehabilitation camps, plan for restoration of essential services including short-term / long-term plans.
- Keeping the Airfields / Airports / Railways / Bus Stands functional for relief materials to move in / out.

#### Medical Aspects:

- Search and evacuation of casualties.
- Classification of casualties at the site.
- First aid (immediate) and during evacuation.
- Arrangements at sites and hospitals.
- Are the hospitals geared up for trauma / treatment?



- Record of casualties received, display board etc.
- Method of passing information / medical bulletin / Press release.
- Adequate sign posting, method of information boards/sign posting for patients in the hospital complex.
- Hygiene and sanitation aspect.
- Precautions, taken to check spread of disease.
- Serviceability of equipment in the hospitals.
- Handling casualties.
- Preparation within hospitals for handling casualties.
- Proper distribution of casualties to reduce load within the hospitals.
- Movement of the relief parties to sites as per priority.
- Availability of required equipment at the sites, as per situation (e.g, concrete cutters, wire/steel girder cutter), etc.
- Cutting off of electric supply and its early restoration after due check.
- Provisioning of plant and equipment for day and night search (Generator/lighting, etc).
- Demolition of unsafe buildings.
- Clearing of roads/lines of communication of debris for smooth Passage of rescue teams.
- Availability of skilled manpower and other equipment from other resources (e.g. welding machine, light voltage concrete and steel cutters, electricians etc).

#### **Logistic Aspect:**

- Serviceability of fire engines and training of firemen.
- Restoration of electricity, water and other essential services.
- Establishment and management of relief camps.
- Supply of medicines, relief materials and food to victims.
- Available of adequate equipment for search and rescue.
- Guidance, accommodation, transportation of assisting teams from outside.

#### **Engineering Aspects:**

- Response to various contingencies:

#### **Police/Traffic Management Aspects:**

- Cordon off areas to avoid looting and giving, easy access to the relief parties.
- Control panic situation by civil police.
- Recovery of damaged vehicles.
- Road clearance for smooth flow of traffic.
- Ensure complete control for movement of traffic.
- Assist in the movement of ambulances and other medical aid.
- Give priority to the movement of vehicles carrying casualties.



- Power failure
  - Collapse of Flyover/ Flyovers.
  - Major stretch of road damaged.
- Provide adequate road space for easy access to the hospitals.
  - Communication – be prepared with alternate means of communication.
  - Cordoning off the affected area by the police.
  - Ensure smooth flow of the NDMA stores.
- Prevent looting.
  - Keep entry to the hospitals clear by managing crowd.
  - Control areas earmarked for Relief Camps.
  - Police to be made aware of all functional hospitals.
  - Police to maintain database of the casualties and pass the information to all control rooms.

### **Communication:**

- Method of communication (RS Control), especially if Mobile phones are non functional (if applicable).
- Restoration of communication lines and mob services.
- Establishment of Hotlines.
- Establishment of Command Post and its communication.

**ANNEXURE-12**

**ANNEXURE-12: DETAIL FINAL MOCK DRILL SCHEDULE OF ACTIVITIES CARRIED OUT IN DELHI'S NINE DISTRICTS**

**3<sup>RD</sup> WEEK OF DECEMBER, 2011**



Date	New Delhi	Central	East	North East	North West	West	North	South	South West
12.12.11	-	-	-	-	-	-	-	Training Programme in Hotels & for NGOs	-
13.12.11	-	-	-	-	-	-	-	Training Programme for NGOs	-
14.12.11	-	-	-	-	-	-	-	Training Programme for NGOs	-
15.12.11	-	-	APADA MITRA Programme	-	-	-	-	-	-
16.12.11	-	-	APADA MITRA Programme	-	-	-	-	Training Programme for NGOs	-
17.12.11	-	-	-	RWA Programme	Workshop in Court	-	-	-	-

**4<sup>TH</sup> WEEK OF DECEMBER, 2011**

Date	New Delhi	Central	East	North East	North West	West	North	South	South West
19.12.11	-	-	APADA MITRA Programme	-	-	-	-	Training Programme for NGOs	-
20.12.11	-	-	APADA MITRA Programme	RWA Programme	-	-	-	Mock Drill in Hospital	-
21.12.11	School Activities	-	-	-	Workshop in Court	-	-	Training Programme for NGOs	-
22.12.11	-	-	-	-	-	-	-	-	-



23.12.11		-	-	-	-	-	-	-	-	Training Programme for NGOs	-
24.12.11	-	-	-	-	-	-	-	-	-	-	-

**5<sup>TH</sup> WEEK OF DECEMBER, 2011**

Date	New Delhi	Central	East	North East	North West	West	North	South	South West
26.12.11	-	-	-		-	-	-	Training Programme for NGOs	-
27.12.11	Nukkad Nattak	-	-		-	-	-	Awareness programme in Market	-
28.12.11	-	-	-	Street play with Market Trade Association, Villages, Slums & Other Public Places	Rally	-	-		-
29.12.11	-	-	-		-	Mock drill in hotel	-	-	Training on Human Life Detection Machine
30.12.11	-	-	-		-	-	Rally	Training Programme for NGOs	-
31.12.11	Civil Defence Call Out	-	Civil Defence Call Out		-	-	-		-

**1<sup>ST</sup> WEEK OF JANUARY, 2012**

Date	New Delhi	Central	East	North East	North West	West	North	South	South West
1.1.12	-	-	-	Street play with Market Trade Association,	-			-	-



2.1.12	-	-	-	Villages, Slums & Other Public Places	-	-	-	-	Training Programme for NGOs	-
3.1.12	-	-	-	Villages, Slums & Other Public Places	-	Nukkad Nattak	Rally in DC office	-	-	-
4.1.12	-	-	-		-	-	-	Training Programme for NGOs	-	-
5.1.12	-	-	-		Awareness generation by APADA MITRA, Nukkad Natak & Flyer Distribution	-	Mock drill in Mall	-	-	-
6.1.12	Mock Drill At Hotel	-	-	Training for Public Representatives	Flyers distribution	-	-	Street play with Market Trade Association, Villages, Slums & Other Public Places	Training Programme for NGOs	APADA MITRA Programme
7.1.12	Civil Defence Call Out	-	-	Flyers distribution & Civil Defence Call Out	-	-	-	-	-	-



**2<sup>ND</sup> WEEK OF JANUARY, 2012**

Date	New Delhi	Central	East	North East	North West	West	North	South	South West
8.1.12	-	-	Flyers Distribution & Mega camp	Street play with Market Trade Association, Villages, Slums & Other Public Places	Awareness generation by APADA MITRA, Nukkad Natak & Flyer Distribution	-	-	-	APADA MITRA Programme
9.1.12	-	-	Flyers Distribution	Mock drill in college		-	-	Mock Drill in Hospital	Mockdrill at Delhi Cantt. Railway Station
10.1.12	-	-	-	-	-	Mock drill at Mall	Mock drill in hotel	-	-
11.1.12	-	-	-	-	-	-	-	-	-
12.1.12	-	-	Training Program on Search & Rescue	Street play with Market Trade Association, Villages, Slums & Other Public Places And APADA MITRA Programme	-	-	-	Training Programme in Court	APADA MITRA Programme
13.1.12	-	-	Awareness/Sensitization in Hospital & Awareness/Sensitization in Market places & Nukkad Natak	-	-	Mock drill at Mall	Flyers distribution	-	-
14.1.12	RWA Programme	-	Sensitization of RWA	-	-	-	-	Community Training	-



**3<sup>RD</sup> WEEK OF JANUARY, 2012**

Date	New Delhi	Central	East	North East	North West	West	North	South	South West
15.1.12	-		Awareness/Sensitizati on in Hospital & Awareness/Sensitizati on in Market places & Nukkad Natak	Street play with Market Trade Association, Villages, Slums & Other Public Places And APADA MITRA Programme	Awareness generation by APADA MITRA, Nukkad Natak & Flyer Distribution	-	Flyers distribution	-	APADA MITRA Programme
16.1.12	Flyer Distribution	-				-	Flyers distribution, APADA MITRA and RWA Programme	Awareness Programme in Market	
17.1.12			-	APADA MITRA Programme			Mock drill at Hotel		Mock Drill in Mall
18.1.12			-	Rally & APADA MITRA Programme				-	Mock drill at Mall
19.1.12	Nukkad Natak & APADA MITRA Programme			APADA MITRA Programme		School Programme		School Programme	
20.1.12	Flyers Distribution and Civil Defence Call Out	Mock Drill at Hotel	Activities in school	-		-	Flyers distribution		Public Lecture
21.1.12		-	Civil Defence Call Out	-		-		-	-



**4<sup>TH</sup> WEEK OF JANUARY, 2012**

Date	New Delhi	Central	East	North East	North West	West	North	South	South West	
22.1.12		-	-	-	Awareness generation by APADA MITRA, Nukkad Natak & Flyer Distribution	-	Flyers distribution	-	APADA MITRA Programme	
23.1.12	APADA MITRA Programme & Flyer Distribution	-	RWA Programme	-		-	-	Slum Programme, Street Play & Flyers distribution	School Programme	
24.1.12		-	-	-		-	-	Mock Drill in Mall and Awareness Rally		
25.1.12		-	-	-		-	-	Rally with school children at Najafgarh		
26.1.12	-	-	-	-		-	Slum Programme & Flyers distribution	-	APADA MITRA Programme	
27.1.12	-	-	-	-		-	Flyers distribution & Nukkad Nattak	School Programme		
28.1.12	-	-	-	-		-		-	Public Lecture	

**5<sup>TH</sup> WEEK OF JANUARY, 2012**

Date	New Delhi	Central	East	North East	North West	West	North	South	South West
29.1.12	-	-	-	-	Awareness generation by APADA MITRA, Nukkad Natak & Flyer Distribution	Mock drill at hotel	-	-	APADA MITRA Programme
30.1.12	Mock Drill at Palika Kendra	-	-	School Programme		-	Flyers distribution	School Programme	
31.1.12	Preparatory Mock drill	-	School Activity			-	Flyers distribution & Nukkad Nattak	Preparatory Mock Drill	Preparatory Mock drill



**1ST WEEK OF FEBRUARY, 2012**

Date	New Delhi	Central	East	North East	North West	West	North	South	South West
1.2.12	-	-	-	-	Awareness generation by APADA MITRA, Nukad Natak & Flyer Distribution	-	Flyers distribution & Nukkad Nattak	School Programme	-
2.2.12	-	-	Preparatory Mock drill			-	-	Awareness Rally & School Programmed	-
3.2.12	-	-	-	-	-	-	-	School Programme	-
4.2.12	Civil Defence Call Out and Training	-	-	-	-	-	-	-	Training of Judges & Bar Association
5.2.12	-	-	-	Flyers Distribution	-	-	-	-	-
6.2.12	Workshop for government agencies and local bodies	-	-	-	Preparatory Mock drill	Preparatory Mock drill	Preparatory Mock drill	School Programme	-
7.2.12	Workshop in Court	-	-	-	-	-	-	-	-

**2<sup>ND</sup> WEEK OF FEBRUARY, 2012**

Date	New Delhi	Central	East	North East	North West	West	North	South	South West
8.2.12	-	-	Nukkad Natak & School Activity	-	-	-	-	-	-
9.2.12	-	-		-	-	-	-	Mock Drill in Railway Station	-



10.2.12	Workshop at Doordarshan Bhavan	-	-	-	-	-	-	-	-
11.2.12	Training Programmes for Civil Defence Volunteers	-	-	-	-	-	-	-	-
12.2.12	Training Programmes for Civil Defence Volunteers	-	-	-	-	-	-	-	-
13.2.12	-	-	-	-	-	-	-	-	-
14.2.12	Workshop for Principals of Educational Institutions	-	-	-	-	-	-	-	-



## SNAPSHOTS OF MEGA MOCK DRILL HELD ON 15 FEBRUARY, 2012



**Evacuation Drill at Lt. Governor's Raj Niwas**



**Former Chief Minister of Delhi Sheila Dikshit Addressing Media Personnel after Mock Drill**



**Former Chief Minister of Delhi Sheila Dikshit Attending Workshop on Earthquake Preparedness Exercise at Delhi Vidhan Sabha**



**Former Chief Minister of Delhi Sheila Dikshit With Hon'ble Judges of Delhi High Court During a Workshop on Earthquake Preparedness at Delhi High Court**



**Hon'ble Members of Legislative Assembly (MLA) of Delhi Attending Workshop on Earthquake Preparedness at Delhi Vidhan Sabha**



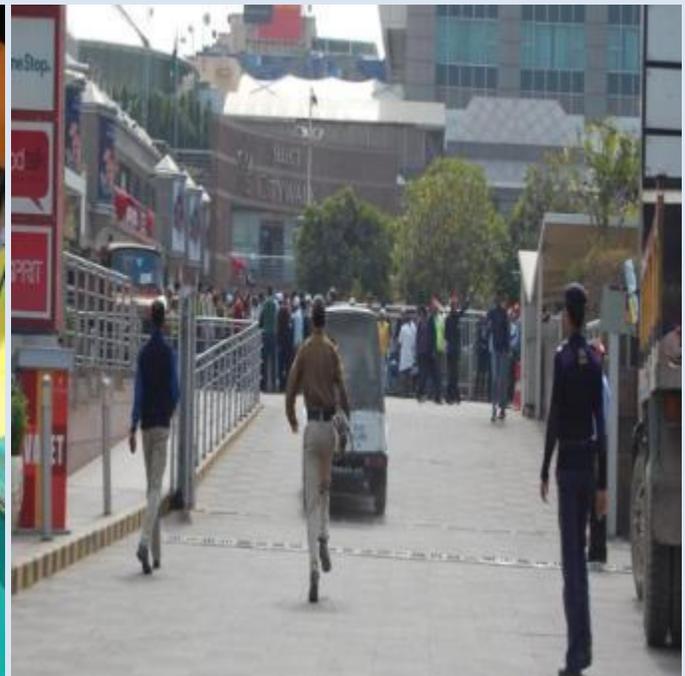
**National Disaster Response Force (NDRF) Personnel Demonstrating Chemical Biological Radiological and Nuclear (CBRN) and Earthquake Disaster Rescue Operation at Delhi Vidhan Sabha**



**NDRF Personnel in Action during Mock Drill**



**Civil and Defence Volunteers in Action**



**Mock Drill Exercise at a Shopping Mall**



**Police Evacuating Casualties outside a Cinema Hall; Volunteers Giving First Aid to Casualties**



**Evacuation and Rescue Operation at Metro Stations during Mock Drill**



**Delhi Metro Commuters during Mock Drill; School Children during Drop Cover Exercise**



**Evacuation of Casualties outside McDonald's and Palika Bazaar**



**Team Members of DDMA Headquarters with former Chief Minister Sheila Dikshit on the eve of Mega Mock Drill**

(from left to right: Sh. Vikramjit Lama, Project Coordinator (HQ); Sh. Ravinder Kumar (SDM); Sh. Vijay Dev, Principal Secretary (Revenue); Smt. Shiela Dikshit, Chief Minister of Delhi; Sh. Kuldeep Singh Gangar, ADM (HQ); Ms. Shivani Jain, Project Coordinator (HQ); and Sh. Ansuman Satapathy, Project Officer)

**-END OF REPORT-**