

**DIRECTOR MFES & FIRE ADVISOR TO GOVT. OF MAHARASHTRA,
C/o MIDC Head Office, Udyog Sarathi Building
Mahakali Caves Road, Andheri East,
Mumbai – 400093.**

FIRE HAZARDS RESPONSE AND MITIGATION PLAN

A Law and Authorities :

(Public Relation & Crisis Coordination, Coordination with other Govt. Agencies)

1. Name of City :
2. Population of City as per 2001 Census :
3. Area of City (In Sq.Kms.) :
4. Population Density of City :
5. Name of the Authority maintaining Fire & Emergency Services :
6. Are you maintaining Fire & Emergency Service as per Govt. Of India Guidelines
 - a) One fire engine for 50,000 population
 - b) One fire station for 10 sq. Km Urban area
 - c) One fire station for 50 sq. Km Rural area
 - d) Response time maximum 5 minutes in Urban Area and 20 minutes in Rural area :
7. Administrative Head of Fire & Emergency Service :
Name
Designation
Address with Pin code
Telephone No. (with STD Code)
Fax No.
Mobile No.
E-Mail
Website
8. Head of Fire & Emergency Service :
Name
Designation
Address with Pin code
Telephone No. (with STD Code)
Fax No.

Mobile No.
E-Mail

9. Name of Central Fire & Emergency Station
Fire & Emergency Service Head Quarters :
Address with Pin code
Telephone No. (with STD Code)
Fax No.
E Mail

10. Do you conduct any fire safety training program
Or awareness program for the public.

11. Do you carry out evacuation drills/ mock drills
in vital installations/ industrial plants/ Govt. Buildings

B Risk Assessment, Incident Prevention & Mitigation of City :-
(Risk Evaluation and Control)

12. Is the Fire Approval is Mandatory
For construction of all types of buildings :

13. Is the Fire Approvals are as per the
Provisions contained in National Building
Code 2005.

14. Is the central data of all fire approval
Is maintained in Head Quarters.

15. Please provide the copy of Development
Control Rules of the city.

16. Please Provide the details of Potential Fire Risk in the City

Sr. No.	Particulars	Nos.	
		Residential	Non-residential
1	Buildings		
	Upto 15 Meters		
	15 to upto 24 Meters		
	Above 24 to upto 36 Meters		
	Above 36 to upto 45 Meters		
	Above 45 to upto 60 Meters		
	Above 60 to upto 75 Meters		
	Above 75 to upto 100 Meters		
	Above 100 to upto 150 Meters		
	Above 150 Meters above.		
2	Industrial Area / Chemical Zone		
3	Cinema Halls/ Malls/ Drama Theators		
4	Public Gathering Places		
5	Hazards storage		
6	Pilgrims Area (Floating Population)		
7	Exhibition/ Public Function Grounds where permission for erecting pendals for circus or any other religious / social functions are granted.		
8	Other (Please give details)		

Note:- All building should be sub-classified on the basis of following classification as per Part 4 of NBC 2005:

- A) Residential Buildings
 - a) Lodging or Rooming Houses
 - b) One or Two Family private Dwelling
 - c) Dormitories
 - d) Apartment Houses (Flat)
 - e) Hotels
 - f) Hotels (Starred)

- B) Educational Buildings
 - a) School upto Senior Secondary Level
 - b) All Other Training Institutes

- C) Institutional Buildings
 - a) Hospitals & Sanatoria
 - b) Custodial Institutions
 - c) Penal & Mental Institutions

- D) Group D Assembly Buildings
- E) Group E Business Buildings
- F) Group F Mercantile Buildings
- G) Group G Industrial Buildings
- H) Group H Storage Buildings
- I) Group J Hazardous Buildings

17. Road Network :

- a) Any major National Highway passing through City
- b) Any State Highway passing through City
- c) Any Tunnels in the City
- d) Major Bridges in the City
- e) Accident prone patches
- f) Roads in Hilly Areas or Hilly/Mountain Area in the City or near City

18. Railway Network

- a) Mail/Express Train main stations
- b) Local Train stations
- c) Metro train stations
- d) Underground Metro stations
- e) Sky Bus
- f) Mono Rail

19. Airport

- a) Domestic
- b) International
- c) Cargo
- d) Helipad
- e) Air force Airbase

20. Sea / River Port

- a) Passenger Jetties
- b) Container Jetties
- c) Bulk Material Handling Jetties
- d) Petroleum Products Handling Jetties
- e) Chemical & Hazardous Goods Handling Jetties
- f) Fishing Jetties
- g) Ship Breaking Areas
- h) Ship Building Docks
- i) Naval Base

21. Vital Installations in the City

- a) Secretariat
- b) Legislation Assembly

- c) Bank Headquarters
- d) HQ's of major Govt & Semi Govt. Organisations
- e) Atomic Power Station
- f) Chemical Factories
- g) Fertiliser Plants
- h) Major Hazardous Units
- i) Cross Country Pipelines
- j) Petroleum Oil Companies like Refinery, Bulk Storages Depot,
- k) Petroleum & Flammable Gas, LPG filling Stations
- l) Domestic Gas Pipe Network
- m) Cylinder Gas Storage-outlets

22. Temporary Structures such as Exhibition Halls, Circus tent, Pendants erected for religious activities .

23. Dilapidated & Unsafe Buildings in the City.

24. Unorganised Houses like Juggi Zopadi & Slum Area.

25. Geological Hazards Associated with City :

- a) Earthquake
- b) Tsunami
- c) Landslide, Mudslide, Subsidence
- d) Glacier, Iceberg

26. Meteorological Hazards Associated with City :

- a) Flood, Flash Flood, Tidal Surge
- b) Drought
- c) Fire (Forest, range, urban, wild land
- d) Snow, Ice, Hail, Avalanche
- e) Windstorm, tropical, cyclone, hurricane, tornado, water spout, dust/ sand storm.
- f) Extreme temperatures (Heat, cold)
- g) Lightning strikes
- h) Famine
- i) Geomagnetic storm

27. Biological Hazards Associated With City :

- a) Emerging diseases that impact human or animal (Swine flu, Malaria, Birds flu, Plague, Smallpox , Anthrax, Foot & Mouth Disease.
- b) Animal or Insect infestation or damage.

28. Human Caused events such as the following :-

a) Accidental

- i. Hazardous material (explosive, flammable liquid, flammable gas, flammable solid, oxidizers, poison, radiological, corrosive) spill or release.
- ii. Explosion / fire
- iii. Transportation accident
- iv. Building / structure collapse
- v. Energy / power / / utility failure
- vi. Fuel/ resource shortage
- vii. Air/ water pollution, contamination
- viii. Water control structure/ dam/ lever failure
- ix. Financial issues (economical depression, inflation, financial system collapse)
- x. Communication system interruptions
- xi. Misinformation

b) Intentional

- i. Terrorism (explosive, chemical, biological, radiological, nuclear, cyber)
- ii. Sabotage
- iii. Civil disturbance, public unrest, mass hysteria, riot
- iv. Enemy attack, war
- v. Insurrection
- vi. Strike or labour dispute
- vii. Disinformation
- viii. Criminal activity (vandalism, arson, theft, fraud, embezzlement , data theft)
- ix. Electromagnetic pulse
- x. Physical or information security breach
- xi. Workplace violence
- xii. Product defect or contamination
- xiii. Harassment
- xiv. Discrimination

29. Technological Caused events that can be unrelated to natural or human caused events, such as the following :

- a) Central computer, mainframe, software, or application (internal / external)
- b) Ancillary support equipment
- c) Telecommunications
- d) Energy / power / utility.

30. Analysis of Fire & Rescue Calls to Draw a Probability of Hazards.

Sr. No.	Particulars	2005	2006	2007	2008	2009
1	Total No. of Fire & Rescue Calls					
	a) No. of Fire Calls					
	b) No. Rescue Calls					
	c) No. of Gas Leaks					
	d) Building Collapse					
	e) Hazards Material calls					
	f) Animal Rescue Calls					
	g) Other calls					
2.	No. of Lives Saved					
	No. of Lives Lost					
	No. of Injured					
3.	Property Saved (Rs. In Lakhs)					
	Property Lost (Rs. In Lakhs)					

31. Analysis of Incidents

:

Sr. No.	Particulars	2005	2006	2007	2008	2009
A	Nos. of Fire/Rescue Calls received from 7000 hrs to 1900					
B	Nos. of Fire/Rescue Calls received from 1900 hrs to 7000					

C Planning, Resource Management & Incident Management :

(Mutual Aid/ Assistance, Emergency Response and Operations, Developing and Implementing emergency response plan & procedures.)

32. Please provide the copy of Disaster Management Plan of the city.

33. Do you have any Mutual Aid with any Central or other State Govt. Authority For conducting fire & rescue operations Please provide details.

34. Is on site and Off site disaster managements Plan is in place for all vital installations, buildings and industrial plants. And is in sync with the district disaster management plan.

35. Addresses of Fire Stations

Sr. No.	Name of Fire Station	Type of Construction of Fire Station i.e. RCC/Metal Shade/Temporary Shade	Address	Telephone No.	Fax No.

36. Details of Fire and Rescue Appliances made available in Fire Stations :

Sr. No.	Name of Fire Station	Number of Water Tenders	Number of Rescue Tenders	Number of Ladders i.e. TTL/ ALP's	Other fire or rescue Appliances

37. Summary of Fire and Emergency Service :-

Sr. No.	Type of Vehicles	Nos.	Future Plan
1	Number of Fire Stations		
2	Water Tenders		
3	Rescue Tenders		

4	Advance Emergency Rescue Tenders		
5	Flood & Rescue Tenders		
6	Hazmat Vans		
7	Turn Table Ladders		
8	Hydraulic Platforms		
9	DCP Tenders		
10	Foam Tenders		
11	Smoke Blowers		
12	Control Post Vans		
13	Water Tankers		
14	Ambulances		
15	Cars		
16	Jeeps		
17	High Pressure Portable Pumps		
18	Portable Pumps		
19	Breathing Apparatus Sets		
20	Flood rescue boats		
21	Life jackets		
22	Details of others Appliances & Equipment		

38. Do you have Staff Quarters in Fire Station : premises? Please provide numbers in each fire station.

39. Do you have Parade Ground in Fire Station : compound?

40. Do you have Drill Tower in Fire Station compound?

41. Is there Water Tank in Fire Station compound?
If so please give its capacity

42. Do you have facilities to arranged training classes in Fire Station premises?
Please give its capacity

43. Details of Officers & Staff attached to Fire & Emergency Service :

Sr. No.	Designation	Pay In Pay Band	Grade Pay	No. of Posts		
				Sanctioned	Filled	Vacant
1	Chief Fire Officer					
2	Dy. Chief Fire Officer					
3	Divisional Fire Officer					

4	Asst. Divisional Fire Officer					
5	Station Officer					
6	Assistant Station Officer					
7	Sub-Officer					
8	Leading Fireman/Rescuer					
9	Driver Operator					
10	Driver					
11	Fireman/Rescuer					
12	Others (Specify designation)					

**D Response Mechanism :
(Communication, Warning and Operational Procedures)**

1. Centralised Control Room/Emergency Operation Rooms for Handling Disaster Is provided or in operation.
2. Internet Connectivity is provided for All fire stations.
3. Computerisations of centralised control room Is done? i.e. all the fire stations are connected With internet to Centralized control room.
4. Communication System (Like VHF/UHF with details of Frequency should Be given.)
5. Any warning system is design to Alert the occupants in case of disaster (Tie ups with Radio, TV channels, Cable Channels Mobile service providers etc.)
6. Is Systematic Operational Procedures (SOP's) are in place for responding to any emergency? Please provide copies of the SOP's.
7. Please provide cities digitised maps (Which shows road, rail, airports, seaports, And other vital installations.)

8. Is all fire appliances are provided with Global Positioning System devices i.e. GPS system. Provide details.
9. Is all fire appliances are provided with Vehicle tracking system. Provide details.

E Training, Exercises, Evaluations and Corrective Actions :

10. Do you have any Fire & Emergency Training School/ centre for imparting Training to your staff or public. Please provide details.
11. Type of training program conducted In the training school/ centre.
12. Is the residential facility available In the training centre.
13. Number of class rooms available In the training centre.
14. Number of staff made available To the training centre.
15. Please provide the details of the Labs, laboratory, library available In the training centre.
16. Any Auditorium, Convention Hall Available in the training centre. Please provide seating capacity.
17. Does you impart training to Outsiders or industries or public.

**F Financial Management of Fire & Emergency Service :
(Fire Tax, Fire Cess, Capitation Fees, Service Charges etc.)**

1. What are the statutory instruments
(Special Act, Corporation Council Acts
Rules,) to levy taxes / cess as service
Charge. Please give details thereof.
2. Do you recover Fire Tax or Cess
From the properties in the city.
Please provide circular or office order
3. Do you levy any other fees or tax
For special or High Rise buildings.
Please provide circular or office order
4. Any fees levied for grant of Fire Approvals
For buildings. Please provide a copy of circular.
5. Do you charge any special charges
For standby duties or service rendered.
Please provide circular or office order.
6. Do you have separate fund for up gradation
Of fire and emergency services.

7. Details of Expenditure of Fire Service

(Rs. In Lakh)

Sr. No.	Year	Establishment Expenditure	Maintenance Expenditure	Civil Expenditure	Other Expenditure
1	2004-05				
2	2005-06				
3	2006-07				
4	2007-08				
5	2008-09				

8. Details of Future Plan

Sr. No.	Year	Rs. In Lakhs	% of Expenditure of Fire Department with respect to funds allocated
1	2010-11		
2	2011-12		
3	2012-13		
4	2013-14		
5	2014-15		

9. Give details about the income received by your Fire Service

Sr. No.	Year	Income Received				
		Fire Tax	Fire Fee	Fire Service Charges	Capitation Fee	Any other
1	2004-05					
2	2005-06					
3	2006-07					
4	2007-08					
5	2008-09					
6	2009-10					

G Human Resource Management :

- a) Manpower Planning
- b) Number of post sanctioned and vacant
- c) Recruitment procedure i.e
 - 1) Recruitment Rules
 - 2) Group Discussions
 - 3) Personal Interview
- d) Training and Development
 1. Induction Training
 2. Refresher Training
 3. Motivation Training
 4. Special Skill Training
 5. Any other
- e) Career and Successor plan
- f) Migration plan
- g) Retirement

h) Plan for utilization of retired persons services

