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PUNE MUNICIPAL CORPORATION

FIRE HAZARDS RESPONSE AND MITIGATION PLAN

February 2011

**Pune Fire Brigade
Pune**



Pune, the Oxford of the East is a historical city in India with a glorious past, an innovative present and a promising future. From a traditional city with an agro-based economy, Pune has steadily metamorphosed into an industrial and educational centre, crowned with labels like the Detroit of India. It is also emerging as one of India's top tech cities as well as a significant agro-business centre. The industrial efflorescence of Pune began with the entry of the Kirloskar Oil Engine Ltd in 1946. In 1960, MIDC set up a huge industrial estate on 4000 acres of land at Bhosari, leading to a spate of engineering-ancillary industries. Later, the city witnessed the entry of automajors such as Tata Motors, Bajaj Auto and Bharat Forge Ltd. Today, the city is home to Kinetic Engineering, Force Motors (previously known as Bajaj Tempo), Daimler Chrysler and Cummins Engines Co Ltd.

Education has been another stronghold of Pune. Starting with the establishment of the Deccan Education Society in 1880, the city has nurtured six universities, which have 600 functional Colleges and PG departments in their fold. The student population of Pune exceeds five lakhs. Also, in recent years, Pune has attracted about 8000 foreign students from over 62 countries. Moreover, a number of established educational institutions have introduced new courses and research areas.

The first software technology park in India was set up in Pune. TCS, Wipro, Infosys, Mahindra British Telecom, Mastek and PCS have a significant presence in the city. Global majors like HSBC Global Technology, IBM, Sasken, Avaya, T-systems and Syntel also have set their base in Pune. During the last eight years, the IT business in Pune has grown from Rs.250 crores to Rs.6500 crores.

Finally, the city has been coming up as an agro business centre. The hinterland of Pune is known for the cultivation of sugar and grapes, horticulture, and floriculture. As a corollary, several value-added industries like food processing units have sprung up and flourished in and around Pune, abetted by Pune's physical proximity to the demand-driven markets of Mumbai, Nasik, Nagpur, Aurangabad and the like. Big players in this industry like Gits Food Products, Weikfield Products and Chitale Bandhu have already put down roots in Pune. Supported by its strong economic base, Pune today nourishes a range of diversified activities.

With economy in a growth phase and with the local talent available in plenty, Pune's growth is expected to continue at a faster pace, boosted by various policies and programs of the Government of India (GoI).. In the last 50 years, the city's population has grown by more than five times; currently, in excess of three million, the city's population is expected to cross five million by 2021. The growth in population testifies to the vibrancy of its economic activity. Given this scenario, the Pune civic authority and other concerned departments need to prepare themselves to augment the city's urban, social and other economic infrastructure (entailing services like adequate and uninterrupted power supply) to sustain and promote such vibrant economic activity.

The Pune Municipal Corporation, Pune Fire Brigade seeks the need of the safe keeping interventions to cope with the fast-paced growing city and to improve its urban organizational infrastructure for effective response and mitigation.



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Index

Sr.No.	Content	Page No.
--------	---------	----------



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1	History of Pune Region	5
2	Physical Features	6
3	Climate	6
4	Demography	7
5	Land use	8
6	Administrative Areas of Pune Municipal Corporation	8
Chapter II : Organizations & Infrastructure		
7	Law & Authorities	19
8	Risk Assessment, Incident Prevention & Mitigation of City	20
9	Potential Fire Risk in the City	21
10	Road Network	22
11	Railway Network	23
12	Airport	24
13	Sea / River Port	25
14	Vital Installations in the City	25
15	Geological Hazards Associated with City	26
16	Metrological Hazards Associated with City	26
17	Biological Hazards Associated with city	27
18	Human Caused events:	27
19	Accidental	27
20	Intentional	27
21	Technological	28
22	Analysis of Fire & Rescue calls to draw a Probability of Hazards	28
23	Analysis of Incident	
24	Planning, Resource Management & Incident Management	29
25	Addresses of Fire Stations	29
26	Details of Fire and Rescue Appliances	30
27	Summary of Fire and Emergency Service	30
28	Information of Staff Quarters in Fire Stations	31
29	Infrastructure at Fire Stations	32
30	Details of officers & staff attached to fire & emergency service	32
31	Response Mechanism	33
32	Training, Exercises, Evaluations and Corrective Actions	34
33	Financial Management of Fire & Emergency Service	34
34	Details of expenditure of Fire Services	35
35	Details of Future Plan	35
36	Details about the income received by Fire Service	36
37	Human Resource Management	36
38	Gap Analysis for Fire Stations	37
39	Fire Brigade Stations	37
40	Gap Analysis for Sub Fire Stations	38
41	Fire-brigade Human Resources Empowerment	38



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	ss	39
43	Pune Municipal Corporation plan	39
Chapter III: Personal Information of Fire Brigade Employees		40- 90
Annexure I :Demography		91
Annexure II :Population Density		93
Annexure III :Land use		96
Annexure IV :Slums		99
Annexure V : Major Bridges List in PMC Area		102
Annexure VI: Mutual Aid Team		105
Annexure VII : Emergency Communication and Co-ordination		107
Annexure VIII : Special Charges or Stand duties or Service Rendered		109
Annexure IX : Fees Levied for Grant of fire Approvals for the Buildings		117
Annexure X : City's Digitized Maps (23 Basins)		119
Annexure XI : Development Control Rules		120
Annexure XII: City Disaster Management Plan		121



Overview of Pune Municipal Corporation

Part: I

FIRE HAZARDS RESPONSE AND MITIGATION PLAN



Introduction

History of Pune Region

From a tiny agricultural settlement called Punnaka in the 8th century, the Pune city has grown into a metropolis covering more than 700 sq. km. area and supporting about 4 million people. The tiny settlement of the 8th century developed into a small town-Kasbe Pune, during the 11th century under the Moghals. Since then till 1818, the city changed hands from one dynasty to the other, especially between the Moghals and the Marathas.

During the mid-17th century, the city became the temporary residence of Shivaji. The city rose to prominence when the Peshwas established the seat of Marathas' empire here(1749 A.D.) .The Maratha rule came to an end at Khadki near Pune, in 1871 when the British defeated them and the city and the environs came under the British rule.

Under the British, Pune became the `Monsoon Capital of the then Bombay Presidency. The Army bases established by the British on the city's outskirts, were later converted into the cantonments of Pune and Khadki.

During the 1850s the Railway rolled into Pune from Mumbai. Pune Municipality was established in 1858. A number of educational institutes also came up here: the Deccan College (one of the oldest in western India), Engineering College (second oldest in the Subcontinent), Fergusson College (amongst ten most reputed in India), Agricultural College (one of the earliest in the country) to name a few. Pune also houses many research institutes of national and international repute. Pune became an educational centre. Pune is also the Headquarters of the Southern Command and has many other defence establishments such as NDA.

The important events in the city's history, its growth and development include the development of Deccan Gymkhana and other colonies across the river in 1920's, the establishment of Pune Municipal Co-operation in 1950, influx of refugees from Pakistan (1948-'50), the establishment of an industrial estate in Pimpri-Chinchwad (1960) and the Panshet deluge (1961). In the 1970s the Hadapsar Industrial area was also developed.

Pune today, is very much a modern city, but still retains its quaint old values and traditions. It is one of the fastest growing industrial areas. It is rightly called as the cultural capital of Maharashtra.



Physical Features

Pune is located 560 m (1,840 ft) above sea level on the western margin of the Deccan plateau. It is situated on the leeward side of the Sahyadri mountain range, which form a barrier from the Arabian sea. It is a relatively hilly city, with its tallest hill, Vetal Hill, rising to 800 m (2,600 ft) above sea level. Just outside the city, the Sinhagad fort is located at an altitude of 1300 m.

Central Pune is located at the confluence of the Mula and Mutha rivers. The Pavana and Indrayani rivers, tributaries of the Bhima river, traverse the northwestern outskirts of metropolitan Pune. Pune lies very close to the seismically active zone around Koyna Dam, about 100 km (62 mi) south of the city, and has been rated in Zone 4 (on a scale of 2 to 5, with 5 being the most prone to earthquakes) by the India Meteorological Department. Pune has experienced some moderate-intensity and many low-intensity earthquakes in its history. Although no major earthquakes have originated in Pune itself, an earthquake of magnitude 3.2 took place in the Katraj region near Pune on May 17, 2004. A low intensity earthquake observed on the night of 30 July 2008 was measured at 4.2 at around 12:41 am. The epicenter for the earthquake was in the Koyna Dam seismic field.

Climate

Pune has a tropical wet and dry climate with average temperatures ranging between 20 to 28 °C (68 to 82 °F).

Pune experiences three distinct seasons: summer, monsoon and winter. Typical summer months are from March to May, with maximum temperatures ranging from 30 to 38 °C (86 to 100 °F). The warmest month in Pune is April; although summer doesn't end until May, the city often receives heavy thundershowers in May (and humidity remains high). Even during the hottest months, the nights are usually cool due to Pune's high altitude. The highest temperature ever recorded was 43.3 °C (109.9 °F) on April 30, 1897.

The monsoon lasts from June to October, with moderate rainfall and temperatures ranging from 10 to 28 °C (50 to 82 °F). Most of the 722 mm (28.4 inches) of annual rainfall in the city fall between June and September, and July is the wettest month of the year.

Winter begins in November; November in particular is referred to as the Rosy Cold (literal translation) (Marathi: गुलाबी थंडी). The daytime temperature hovers around 28 °C (82 °F) while night temperature is below 10 °C (50 °F) for most of December and January, often dropping to 5 to 6 °C (41 to 43 °F). The lowest temperature ever recorded was 1.7 °C on January 17, 1935.



Climate data

Climate data for Pune													
Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Record high °C (°F)	32 (90)	37 (99)	39 (102)	42 (108)	41 (106)	38 (100)	35 (95)	36 (97)	34 (93)	38 (100)	36 (97)	32 (90)	42 (108)
Average high °C (°F)	30 (86)	33 (91)	36 (97)	38 (100)	37 (99)	32 (90)	28 (82)	27 (81)	29 (84)	32 (90)	30 (86)	30 (86)	31.8 (89.3)
Average low °C (°F)	11 (52)	13 (55)	16 (61)	21 (70)	22 (72)	23 (73)	22 (72)	21 (70)	21 (70)	19 (66)	18 (64)	12 (54)	18.3 (64.9)
Record low °C (°F)	6 (43)	6 (43)	10 (50)	13 (55)	15 (59)	20 (68)	21 (70)	16 (61)	15 (59)	11 (52)	7 (45)	5 (41)	5 (41)
Precipitation mm (inches)	0 (0)	0 (0)	5 (0.2)	17 (0.67)	41 (1.61)	116 (4.57)	187 (7.36)	122 (4.8)	120 (4.72)	78 (3.07)	30 (1.18)	5 (0.2)	721 (28.39)
<i>Source: IMD</i>													

Demographics

As per the 2010 Census of India estimate, the population of the Pune urban agglomeration is to peg around 5,518,688. This includes the towns of Khadki, Pimpri-Chinchwad and Dehu. Growth in the software and education sectors has led to an influx of skilled labour from across India. The population of the urban agglomeration was estimated to be around 4,485,000 in 2005. The migrating population rose from 43,900 in 2001 to 88,200 in 2005. According to the Pune Municipal Corporation, 38.9% of the population lived in slums in 2001. The sharp increase in censorial decade of 1991 to 2001 can be attributed to the absorption of 38 fringe villages into the city. The literacy rate is about 81%.

Marathi is the official and most widely spoken language, while Hindi and English are understood and spoken widely.

Pune growth		
Census	Pop.	%±
1851	73,209	ô
1881	129,751	ô
1891	161,390	24.4%
1901	153,320	-5.0%
1921	133,227	ô
1951	488,419	ô
1961	606,777	24.2%
1971	856,105	41.1%
1981	1,203,351	40.6%
1991	1,566,651	30.2%
2001	2,540,069	62.1%
Source: Census of India		



Land use

The land use in the city of Pune Municipal Corporation is as follows:-

Land use in Pune Municipal Corporation

Land use	Area in Sq.km.			Distribution %		
	1987 DP	New areas	Total	Old	New areas	Total
Residential	50.58	53.16	103.74	36.55	50.35	42.52
Commercial	2.35	1.57	3.93	1.0	1.49	1.61
Industrial	7.26	2.62	9.88	5.25	2.48	4.05
Public and Semi Public	15.22	1.45	16.67	11.00	1.37	6.83
Public Utilities	1.38	0.00	1.38	1.00	0.00	0.57
Transport	22.00	9.81	31.81	15.90	9.29	13.04
Reserved, Forest & Agri	2.35	26.70	29.05	1.70	25.29	11.91
Water Bodies	12.04	2.48	14.52	8.70	2.35	5.95
Hills and Hill Slopes	12.45	0.00	12.45	9.00	0.00	5.11
Recreational	12.73	7.79	20.52	9.20	7.38	8.41
Total	138.38	105.58	243.96	100.00	100.00	100.00

Climate data Climate data

A) Information of various departments

SrNo1	Departments	Head of Department
1	Municipal Commissioner Office	Municipal Commissioner
2	Additional Municipal Commissioner (General) Office	Additional Municipal Commissioner (General)
3	Additional Municipal Commissioner (Special) Office	Additional Municipal Commissioner (Special) Office
4	Deputy Municipal Commissioner (General) Office	DMC(General)
5	Nehru Stadium	Manager
6	Cultural Centres	Manager



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		Tree Officer
8	Press Dept	Manager
9	Health Dept	Dy.M.O.H
10	Establishment	Establishment Officer
11	Public Relation Office	Establishment Officer
12	Office Of Dy.Comm(E &H)	Establishment Officer
13	Telephone Dept	Establishment Officer
14	Departmental Enquiry Dept	Establishment Officer
15	Garden Dept	Assistant Superintendent
16	B.O.T Cell	Junior Engineer
17	Land & Acquisition	Ward Officer
18	Security Dept	Security Officer
19	Slum Dept	O.S.
20	Sky Sign Dept	Chief Inspector
21	Mandai Dept	Mandai Officer
22	Chawl Dept	Mandai Officer
23	Copying Dept	Mandai Officer
24	Cattle Shield(kondwada)	Mandai Officer
25	Election Dept	Labour Officer
26	Labour Office	Labour Officer
27	Chief Account Dept	Deputy Accountant
28	Statistics And Computer Dept	System Manager
29	Legal Advisor Dept	Junior Legal Asst
30	Octri Dept	Octri Superintendent
31	Land And Estate Dept	Assistant Engineer
32	U.C.D	Program Officer



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		Assistant Education Officer
34	Secondary Education	Principle (Technical)
35	Chief Audit	Senior Auditor
36	Property Tax Dept	Assistant Assessor And Collector of Taxes
36	Property Tax Dept	Asst.Assessor And Collector of Taxes
36	Property Tax Dept	Asst.Assessor And Collector of Taxes
36	Property Tax Dept	Asst.Assessor And Collector of Taxes
37	J.N.N.U.R.M	Dy.City Engineer
38	City Engineering Dept	Asst.Engineer
39	Traffic Control Dept	Asst.Engineer
40	Road Dept	Dy.City Engineer
41	Bhavan	Asst.Engineer
42	Water Supply and sewerage	Dy.City Engineer
43	Water Supply(Projects)	Dy.City Engineer
44	Swaragte_Water_Drainage	Asst.Engineer
45	Electrical	Asst.Engineer
45	Electrical pole shifting Dept	Asst.Engineer
46	Store (Kothi) Dept	Store Officer
47	Fire brigade	Fire Officer
48	Encroachment	Inspector
49	Secretary Office	Deputy Secretary
50	Vehicle Depot	Dy.City Engineer
51	Aundh WO	Ward Officer



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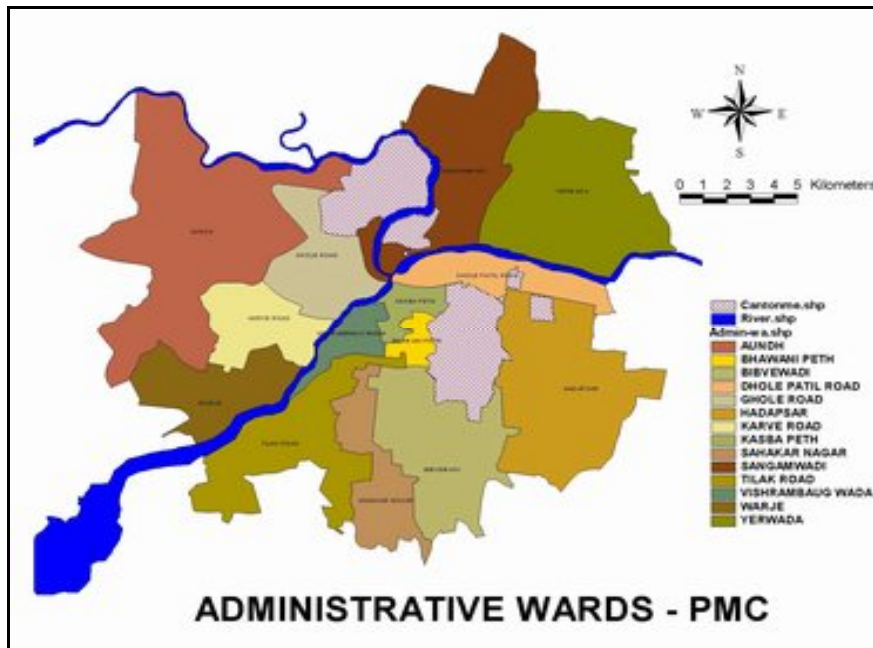
		Ward Officer
53	Dhole Patil WO	Ward Officer
54	Yerwada Nagar Road WO	Ward Officer
55	Sangamwadi WO	Ward Officer
56	Tilak Road WO	Ward Officer
57	Bhavani Peth WO	Ward Officer
58	Kasaba VishramBagwada WO	Ward Officer
59	SahakarNagar WO	Ward Officer
60	Hadapsar WO	Ward Officer
61	Bibwewadi WO	Ward Officer
62	Dhanakavadi WO	Ward Officer
63	Dy.Comm.Slum	DMC
64	Warje Karve Nagar WO	Ward Officer
65	Dy.Comm.SWM	D.M.C.
66	Karve Road WO- Kothrud	Ward Officer
67	Janaganana RTI	D.M.C.(Special)
68	General Record Nanawada	
69	Janaganana RTI	D.M.C(Special)
70	OSD Zone-3	
71	Dy,Comm.Zone-3	
72	Deputy Municipal Commissioner (Special) Dept	DMC (Speciall)
73	Additional City Engineer Building Permission	



B) Administrative Areas of Pune Municipal Corporation:

Pune Municipal Corporation is administratively divided in to 4 Zone and 14 ward offices. Each ward office is headed by the Ward Officer.

Zonal Offices and Administrative Ward Area of PMC.



No.	Zone Office	Name of Ward and Committee
1	Zone No-1	Aundh Ward Office and Committee
		Ghole Road Ward Office and Committee
		Kothrud Ward Office and Committee
		Warje and Karvenagar Office and Committee
2	Zone No-2	Kailashvashi B. S. Dhole Patil Ward Office and Committee
		Nagar Road (Wadgaon Sheri) Ward Office and Committee
		Sangamwadi Ward Office and Committee
3	Zone No -3	Bhavani Peth Ward Office and Committee
		Sahakarnagar Ward Office and Committee
		Kasaba Vishrambagh Ward office and Committee
		Tilak Road Ward Office and Committee
4	Zone No-4	Hadapsar Ward Office and Committee



		li Ward Office and Committee
		Dhankawadi Ward office and Committee

(Source: www.punemunicipalcorporation.org)

Overview of Pune Municipal Corporation

Establishment of Pune Municipal Corporation	15th February 1950	
Population (Year 2001)	3 Million	
Square Area	243.84 Sq. km.	
Total Zones	48	
PMC Members	149	
Municipal Employees	Class	No. of Employees
	1	87
	2	276
	3	4,082
	4	12,382
	Total	16,827
Budget (2010-11)	Rs 3196.12 crore	
Municipal Markets	Under Contract Basis	7
	Monthly Rental Basis	20
Municipal Gardens	76	
Boating Clubs	2	
Zoo	1	



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Aquarium	1	
Snake Park	1	
Swimming Pools	7	
Fire Brigade Centers	Main Center	1
	Sub Center	7
Printing Press	1	
Primary Schools	277	
Pre-Primary Schools	292	
Total Students in Primary Schools	Boys	55,618
	Girls	33,340
	Total	88,958
Total Students in Pre-Primary Schools	Boys	7,214
	Girls	4,968
	Total	12,182
Newly Added Students	750	
Schools	Higher Secondary Schools	5
	High Schools	13
	Total	18
Industrial Training Center	1	
Technical High Schools	1	
Total Students In High Schools	Boys	7,674
	Girls	7,386



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	Total	15,060
Total Students In Industrial Schools	Boys	177
	Girls	50
	Total	227
Dr.Ambedkar Hostel	Boys	152
PMC Hospitals	ODD	29
	Maternity	14
	General	1
	Infectious	1
Clinics	40+1 Mobile Clinic	
Total Patients	3,350 Daily (Approx.)	
Number Of Slums	553	
Declared Slums	347	
Water Supply	650 Million liters/Day	
Water Drainage	150 Million liters/Day	

(Source: www.punemunicipalcorporation.org)

Pune Municipal Corporation Infrastructure

■ The Civic Body	
Name	Pune Municipal Corporation
Governing Act	The Bombay Provincial Municipal Corporations Act, 1949
■ Mode of Governance	
General Body	Policy Making



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Standing Committee	Financial Decisions
Municipal Commissioner	Chief Executive
■ Some Statistics...	
Area of Jurisdiction	243.84 Sq.km.
Population (2001)	3 Million
Staff Strength	17,333
Annual Budget (2010-11)	Rs 3196.12 crore
Parks and Gardens	79 + 10 Swimming Pool
Schools and Colleges	535 (1,10,321 students)
Disp. and Hospitals	60 (9000 patients /day)
■ Civic Infrastructure	
Power Supply	650 MW (at Present)
Telecom	428,962 Connections
■ Water Supply	
Capacity	650 MLD
Service pop	2.7 million
Rate	200 LPCD
Network Length	2000 km
Size	25mm -1600 mm
■ Drainage	



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Collection	382 MLD
Pumping	122 MLD
Treatment	122 MLD
Municipal Solid Waste	Total Generation : 900T
Average per capita	Approximately 425 gms /generation, person/day
Collection Efficiency	95% - Zero Garbage Concept
■ Implemented	
Road Length	650 Km.
Transportation	Surface, Rail and Air
■ Future Proposals	
Power Supply	715 MW
Telecom	500,000 Connections
Water Supply Capacity	1500 MLD(For 2025 AD)
Service pop	6.5 million
Drinage Capacity	1200 MLD
Cost of Water Supply & Drainage Project	Rs. 10.25 billion
Transportation	Mass Transit System (L R T) @ Rs 43 billion Ring Rd, Fly-overs
Modern Urban	Development plan for new area, Planning International Airport, Heliport, International Networking



Part: II

FIRE HAZARDS RESPONSE AND MITIGATION PLAN



A. Law & Authorities:

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

S.No.	Particulars	Information
1	Name of City	Pune
2	Population of City as per 2001 Census	2538473.
3	Area of City (In Sq.Kms.)	243.84
4	Population Density of City	13,991 / Sq.Km
5	Name of the Authority Maintaining Fire & Emergency Services	Pune Municipal Corporation.
6	Are you maintaining Fire & Emergency Services as per Government Of India Guidelines a) One fire engine for 50,000 population upto 3,00,000 population. From 3,00,000 upwards additional Fire Engine per lack of population or Fraction thereof. 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.	The Required Fire Stations and Fire Tenders as per the State Fire Advisory Committite (SFAC), Maharashtra State Norms to cover any potential hazard are calculated as per the Gap Analysis Existing Fire Stations ó 10, Proposed as per the State Fire Advisory Committite (SFAC), Maharashtra State Norms Not Applicable Yes
7	Administrative Head of Fire & Emergency Service : Name Designation Address with pin code Telephone No.(with STD Code) Mobile No. E mail Website	Mr. Mahesh Zagade Municipal Commissioner, Pune. Shivaginagar, Pune-411005 020-25501103/5 -- pmcmco@gmail.com www.punecorporation.org
8	Chief of Fire & Emergency Service Name Designation Address with pin code Telephone No.(with STD Code) Mobile No. E mail	Mr. Prashant D. Ranpise. Dy. Chief Fire Officer. (Incharge) Central Fire Station, Mahatma Phule Peth, Pune 42. 020 - 26450601, 26451707. 9689931991. Prashant_rnpise@rediffmail.com



9	Name of the Central Fire & Emergency Station Fire & Emergency Service Head Quarters Address with Pin code Telephone No. (with STD Code) Fax Email	Central Fire Station, Mahatma Phule Peth, Pune 411 042. Central Fire Station, Mahatma Phule Peth, Pune 411 042. 020 - 26450601, 26451707. 020- 26450601 punefirebrigade@gmail.com
10	Do you conduct any fire safety training program or awareness program for the public?	Pune Fire Brigade involved in School Safty Awareness, Mock Drill with District Administration, Police, Department of Industrial Safty And Health and Organise Publicl Showes and Exhibution in City.
11	Do you carry out evacuation drills / mock drills in vital installations / industrial plants / Governemnt Buildings?	Participate in Mockdrill with District Administration, Police, Department of Industrial Safty And Health

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	As per the The Bombay Provincial Municipal Corporations Act,1949, and S.F.A.C Norms
13	Is the Fire Approvals are as per the Provisions contained in National Building Code 2005.	Yes. Fire Approvals are as per the Provisions contained in National Building Code 2005.
14	In the central data of all fire approval is maintained in Head Quarters	Yes. Available with CFO office
15	Please provide the copy of Development Control Rules of the City.	Copy attached. Annexure - VI



16. Potential Fire Risk in the City.

S.No.	Particulars	Nos.	
		Residential	Non Residential
1	Buildings.		
	Upto 15 Mtrs.	95	407
	15 to upto 24 Mtrs.	3840	1724
	Above 24 to upto 36 Mtrs.	1980	469
	Above 36 to upto 45 Mtrs.	187	31
	Above 45 to upto 60 Mtrs.	11	14
	Above 60 to upto 75 Mtrs.	41	10
	Above 75 to upto 100 Mtrs.	1	0
	Above 100 to upto 150 Mtrs.	0	0
2	Industrial Area / Chemical Zone		128
3	Cinema Halls		45
	Malls		37
	Drama Theatres		9
4	Public Gathering Places		7
5	Hazards storage		4
6	Pilgrims Area (Floating Population)		20
7	Exhibition / Public Function Grounds where permission for erection pedals for circus or any other religious / social functions are g ranted.		16
8	Other (Please give details)		2

All above buildings are sub-classified as per the following classification (as per Part 4 of NBC 2005):

B	Residential Buildings	
1	Lodging or Rooming Houses	Approximat 190
2	One or Two Family private Dwelling	Approximate 2 Lakhs
3	Dormitories	--
4	Apartment Houses (Flat)	Approximate .3.60 Lakhs
5	Hotels	Approximate .1200
6	Hotels (Starred)	10

B	Educational Buildings.	Apprimate Educational Institutes :25
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	Primary Level	485
	(Private & Government)	
2	All other Training Institutes (Collages)	74
3	Universities	9

C	Institutional Buildings	
1	Hospital & Sanatoria	Hospitals ó 642 and Sanatoria 49
2	Custodial Institutions	2
3	Penal & Mental Institutions	1
D	Assembly Buildings	Approximat- 500
E	Business Buildings	Approximat- 700
F	Mercantile Buildings	Approximat- 500
G	Industrial Buildings	1. Kaka Halwai -50 2. Parvati Industrial Estate:50
H	Storage Buildings	1. Railways-1 2. Resioning -1 3. Southern Command 4. Naidu Hospital óPMC Store
I	Hazardous Buildings	Approximat- 50

17. Road Network:

1	Any major National highway passing though city	<p>Road Network</p> <p>The road network consists of Express Highways, National Highways, State Highways and Major District Roads.</p> <p>Following National Highways pass through the city:</p> <ol style="list-style-type: none"> 1.National Highway No. 4 (Mumbai- Bangalore) 2.National Highway No. 9 (Pune-Solapur-Hyderabad) 3.National Highway No. 50 (Pune-Nashik).
2	Any state highway passing through city	--



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		The New Katraj Tunnel is a Highway Tunnel located on the NH4, Pune, in Maharashtra state of India. It is a Three-Laned Tunnel. The Tunnel Stretches 1338 Meters on The Katraj Ghat. This tunnel replaced the Old Katraj Tunnel.
4	Major bridges in the city	Anexxure -VII
5	Accident prone patches	<ol style="list-style-type: none"> 1. Bnglore Mumbai Highway NH-4 2. Pune Mumbia Highway NH-4 3. Pune Solapur Highway NH-9 4. Pune Satara Highway NH-4 5. Pune Nashik Highway NH-50 6. Pune A.Nagar Highway 7. Other Roads (Internal Roads) (Source: http://www.punepolice.gov.in/statistic.htm)
6	Roads in hilly areas or hilly / mountain area in the city or near city	Vetal Hill (Hanuman Tekdi) · Fergussen Hill · Parvati Hill · Baner Hill · Sutarwadi Hill · Katraj Hill · Ramtekdi · Gultekdi

18. Railway Network

1	Mail / Express Train main stations	Pune Railway Station or Pune Junction is the main railway head of Pune. It is a railway junction with on the Mumbai - Chennai railway line. It is also the origin of Pune - Bangalore railway line. All trains are operated by Indian Railways. Pune Railway Station serves as a halt for south bound trains from Mumbai, Gujarat, Madhya Pradesh and Rajasthan as the origin/destination for trains to north India. Pune is well linked to the entire country by this station. Also there is a project of running bullet train form Pune to Ahmedabad which will originate/terminate here. This is a major head for freight transport for Pune. On 1 June every year celebration of birthday of Deccan Queen Express train takes place on this station. This station has got two footbridges. Plans are made to upgrade this station to world-class standard.
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2	Local train stations	Pune's suburban services operate on two major routes, i.e. from Pune Junction to Lonavala and from Pune Junction to Talegaon. There are 3 trains which operate on Pune - Talegaon route while 17 trains operate on Pune - Lonavala route. Important stations on this route are Shivajinagar Station, Khadki Station, Pimpri, Chinchwad, Akurdi, Dehu Road, Talegaon, Lonavala.
3	Metro train stations	--
4	Underground metro stations	--
5	Sky bus	--
6	Mono rail	--

19. Airport

1	Domestic	<p>Pune International Airport is an international airport at Lohegaon, operated by the Airports Authority of India. It shares its runways with the neighboring Indian Air Force base. In addition to domestic flights to all major Indian cities, this airport serves international direct flights to Dubai (operated by Air India Express) and to Frankfurt (operated by Lufthansa).</p> <p>The Maharashtra Industrial Development Corporation is responsible for the design and construction of a new Pune International Airport. The area between Chakan and Rajgurunagar, around the villages of Chandus and Shirol, is currently being considered as a construction site. If constructed here, it will be at a distance of 40 km (25 mi) from central Pune.^[74]</p>
2	International	In addition to domestic flights to all major Indian cities, this airport serves international direct flights to Dubai (operated by Air India Express) and to Frankfurt (operated by Lufthansa).
3	Cargo	No
4	Helipad	<ol style="list-style-type: none"> 1. University Ground 2. Pune Air Port 3. Pashan (Private)
5	Air force Airbase	It shares its runways with the neighboring Indian



Air Force base.

20. Sea / River Port

1	Passenger Jetties	--
2	Container Jetties	--
3	Bulk Material Handling Jetties	--
4	Petroleum Products Handling Jetties	--
5	Chemical & Hazardous Goods Handling Jetties	--
6	Fishing Jetties	--
7	Shiip Breaking Areas	--
8	Ship Building Docks	--
9	Naval Base	--

21. Vital Installations in the City

1	Secretariat	No
2	Legislation Assembly	No
3	Bank Headquarters	Bank of Maharashtra, Shivaji nagar, Pune.
4	HQs of major Govt. & Semi Govt. Organizations	1. Central Building All Government office (PWD, Police, Agriculture, Irrigation, Education, Health Ect) at Pune Station 2. Police Hedqurters 3. Collector and Divisional Commissioner office 4. MKVDC, NCL, DRDO, HEMERL, UoP, UGC, NA BARD, MIDC, MPCB, IMD, GSI, RTO, GSDA, Agriculture Collage, Sugar Commissionaer etc.
5	Atomic Power Station	No
6	Chemical Factories	No
7	Fertilizer Plants	No
8	Major Hazardous Units	1. Sudarshan Chemical Industries Limited, 162, Wellesly Road, Pune-411001 , Chlorine, 25 T 2. Sahydri Dyestuff and Chemicals, 117, Parvati Vittalwadi Road, Pune-30, Liquid So3 20T, Ethyl Chloride 35 T 3. Cummins India Limited, Kothrud, Pune-29, LPG 15 T 4. Bharat Forge Limited, Mundhava, LPG 20 T
9	Cross Country Pipelines	1. Maharashtra Natuaral Gas Company 2. Reliance 3. HPCL 4. BPCL
10	Petroleum Oil Companies like Refinery Buk Storages Depot.	HPCL, LoniKalbhor
11	Petroleum & Flammable Gas, LPG	HPCL, LoniKalbhor



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12	Domestic Gas Pipe Network	No
13	Cylinder Gas Storage-outlets	No

22	Temporary Structures such as Exhibition Halls, Circus tent, Pedals erected for religious activities.	<ol style="list-style-type: none"> 1. Government Collage Ground 2. Agriculture Colage Ground 3. University Of Pune Ground 4. Deccan Collage 5. Balgandharv Rang Mandir 6. Sakhar Sankul
23	Dilapidated & Unsafe Buildings in the city :-	Approximate .Wada & Chawal 1200
24	Unorganized Houses like Juggi Zopadi & Slum Area.:-	575 notified and non -notified slums on 9.620 sq.km area with population 7,20,220

25. Geological Hazards Associated with City:

1	Earthquake	Central Pune is located at the confluence of the Mula and Mutha rivers. The Pavana and Indrayani rivers, tributaries of the Bhima river, traverse the northwestern outskirts of metropolitan Pune. Pune lies very close to the seismically active zone around Koyna Dam, about 100 km (62 mi) south of the city, and has been rated in Zone 4 (on a scale of 2 to 5, with 5 being the most prone to earthquakes) by the India Meteorological Department.
2	Tsunami	No
3	Landslide, Mudslide, Subsidence	Pashan, Kothrud and Warje
4	Glacier, Iceberg	No

26. Metrological Hazards Associated with City:

1	Flood, Flash Flood, Tidal Surge	Prone to Flood
2	Drought	--
3	Fire (Forest, range, urban, wild land)	Urban Fires
4	Snow, Ice, hail, Avalanche	--
5	Windstorm, tropical, cyclone, hurricane, tornado, water spout, duct / sand storm.	Windstorm
6	Extreme temperatures (Heat, cold)	
7	Lightning strikes	Yes
8	Famine	--
9	Geomagnetic storm	--



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with city:

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

28. Human Caused events such as the following:

A) Accidental -

1	Hazardous Material (explosive, Flammable liquid, flammable gas, flammable solid, oxidizers, poison, radiological, corrosive) spill or release.	Yes
2	Explosion / fire	Yes
3	Transportation accident	Yes
4	Building structure collapse	Yes
5	Energy / power / utility failure	Yes
6	Fuel / resource shortage	Yes
7	Air / water pollution, contamination	Yes
8	Water control structure / dam / lever failure	Yes
9	Financial issues (economical depression, inflation, financial system collapse)	Yes
10	Communication system interruptions	Yes
11	Misinformation	Yes

B. Intentional

1	Terrorism (explosive, chemical, biological, radiological, nuclear, cyber)	German Bakery Bomblast
2	Sabotage	--
3	Civil disturbance, public unrest, mass hysteria, riot	Yes
4	Enemy attack, war	Yes
5	Insurrection	Yes
6	Strike or labor dispute	Yes
7	Disinformation	Yes
8	Criminal activity (vandalism, arson, theft, fraud, embezzlement, data theft)	Yes
9	Electromagnetic pulse	Yes
10	Physical or information security breach	Yes
11	Workplace violence	Yes
12	Product defect or contamination	Yes
13	Harassment	Yes
14	Discrimination	--



at can be unrelated to natural or human caused events, such as the following:

1	Central computer, mainframe, software, or application (internal / external)	Yes
2	Ancillary support equipment	Yes
3	Telecommunications	Yes
4	Energy / power / utility	Yes

30. Analysis of Fire & Rescue calls to draw a Probability of Hazards.

S. No.	Particulars	2005	2006	2007	2008	2009
1	Total no. of fire & rescue calls					
	a) No. of Fire calls	640	747	864	887	902
	b) No. of Rescue calls	192	223	223	254	211
	c) No. of gas leaks	120	157	114	116	108
	d) Building collapse	131	51	55	49	47
	e) Hazards material calls	00	00	00	00	00
	f) Animal rescue calls	104	91	188	49	44
	g) Other calls	1731	987	1331	1579	1333
2	No. of lives Saved	00	00	34	28	00
	No. of lives lost	00	00	10	02	00
	No. of injured			29	16	
3	Property saved (Rs. In lakhs)	The actual amount is not assessed.				
	Property lost (Rs. In lakhs)	493.04	518.12	189.37	154.21	713.71

31. Analysis of Incident:

S.No.	Particulars	2005	2006	2007	2008	2009
A	Nos. of Fire / Rescue Calls received from 07.00hrs to 19.00 hrs.	1918	2246	1900	2121	2124
B	Nos. of Fire / Rescue Calls received from 19.00hrs to 07.00 hrs.	1000	1004	875	813	521



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:	Annexure -VIII Copy Provided Volume I & II (English)
33	Do you have any Mutual Aid with any Central or other state Govt. Authority for conduction fire & rescue operations, please provide details.	Annexure -IX
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.	Industrial On & Off Site plan is prepared by 4 Concerned Industries.

35. Addresses of Fire Stations.

S.No.	Name Of Fire Station	Type of construction of Fire Station	Address	Telephone No.
1	CENTRAL FIRE STATION	RCC	Mahatma Phule Peth, Timber Market, Pune ó 42.	26450601(Telefax) 26451707
2	HADAPSAR FIRE STATION	RCC	Hadapsar Industrial Estate, Pune ó13.	26870207
3	Lt. DAYARAM RAJGURU FIRE STATION	RCC	8, Kenedi Road, Nr. Naidu Hospital, Pune-01.	26059230
4	YERAWADA FIRE STATION	RCC	Nr. Hot mixed Plant, Yerwada, Pune ó 06.	26696400
5	KASBA FIRE STATION	Temporary Metal Shade	1309, Kasba Peth, Pune-1	24578950
6	ERANDAWANA FIRE STATION	RCC	9/A, Erandwana, Pune - 04	25468373
7	AUNDH FIRE STATION	RCC	Nr. Body Gate, Aundh, Pune -07.	25883098
8	KATRAJ FIRE STATION	RCC	Sr.No.132, Nr. Katraj Dairy, Katraj -46.	24368887
9	SINHAGAD ROAD FIRE STATION	RCC	Sun city road, pune	24345152



STATION	Nr. Bus Stand, Kothrud, Pune	25390002
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36. Details of Fire and Rescue Appliances made available in Fire Stations:

S.No	Name Of Fire Station	No. of water tenders	No. of rescue tenders	No. of ladders i.e. TTL / Alp's	Other fire & rescue appliances
1	CENTRAL FIRE STATION	15	2	2	2
2	HADAPSAR FIRE STATION	1	0	0	0
3	Lt. DAYARAM RAJGURU FIRE STATION	1	0	0	0
4	YERAWADA FIRE STATION	1	0	0	0
5	KASBA FIRE STATION	1	0	0	0
6	ERANDAWANA FIRE STATION	1	0	0	0
7	AUNDH FIRE STATION	1	0	0	0
8	KATRAJ FIRE STATION	1	0	0	0
9	SINHAGAD ROAD FIRE STATION	1	0	0	0
10	KOTHRUD FIRE STATION	1	0	0	0

37. Summary of Fire and Emergency Service:-

S. No.	Type of Vehicles	Nos.	Future Plan
1	Number of Fire stations	10	14
2	Water Tenders	24	10
3	Rescue Tenders	2	4
4	Advance Emergency Rescue Tenders	0	2
5	Flood & Rescue Tenders	0	4
6	Hazmat Vans	0	1
7	Turn Table Ladders	0	1



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		2	1
9	DCP Tenders	0	1
10	Foam Tenders	1	1
11	Smoke Blowers	1	5
12	Control Post vans	0	4
13	Water tankers	8	37
14	Ambulances	7	9
15	Cars	1	1
16	Jeeps	2	5
17	High pressure portable pump	2	4
18	Portable pumps	6	8
19	Breathing apparatus sets	78	40
20	Flood rescue boats	5	9
21	Life jackets	154	60
22	Details of others appliances & equipments		

38. Information of staff quarters at fire stations:

S.No	Name Of Fire Station	No. of staff quarters
1	CENTRAL FIRE STATION	3
2	HADAPSAR FIRE STATION	13
3	Lt. DAYARAM RAJGURU FIRE STATION	7
4	YERAWADA FIRE STATION	2
5	KASBA FIRE STATION	0
6	ERANDAWANA FIRE STATION	2
7	AUNDH FIRE STATION	5
8	KATRAJ FIRE STATION	1
9	SINHAGAD ROAD FIRE STATION	3
10	KOTHRUD FIRE STATION	1



ound:

There is one parade ground with area approximatly **6650 sq.m**

40. Drill Tower at Fire Station Compound:
At Central Fire Brigade -**100 Ft high.**

41. Water tank in fire station compound and its capacity:

S.No	Name Of Fire Station	Capacity in Liters
1	CENTRAL FIRE STATION	1 Lakh
2	HADAPSAR FIRE STATION	0.75 Lakhs
3	Lt. DAYARAM RAJGURU FIRE STATION	1 Lakh
4	YERAWADA FIRE STATION	0.75 Lakhs
5	KASBA FIRE STATION	--
6	ERANDAWANA FIRE STATION	1 Lakh
7	AUNDH FIRE STATION	1 Lakh
8	KATRAJ FIRE STATION	1 Lakh
9	SINHAGAD ROAD FIRE STATION	1 Lakh
10	KOTHRUD FIRE STATION	0.75 Lakhs

42. There is no facility to arrange training classes at fire stations.

43. Details of officers & staff attached to fire & emergency service:

No .	Name of Post & Scale	Pay in Pay Band	Grade Pay	No. Of Posts		
				Sanctioned	Filled	Vacant
1.	Chief Fire Officer	15600-39100	8100	1	0	1
2.	Deputy Chief Fire Officer	9300-34800	6700	1	1	0
3.	Assistant Divisional Officer	9300-34800	4800	2	2	0
4.	Station Duty Officer	5200-20200	4100	13	11	2
5.	Automobile Forman	9300-34800	4500	1	1	0
6.	Sub Officer	5200-20200	4100	8	3	5



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		0-20200	4100	1	1	0
8.	Junior Grade Clerk	5200-20200	2900	6	6	0
9.	Senior Radio Technician	5200-20200	4100	1	1	0
10.	Junior Radio Technician	5200-20200	3300	3	3	0
11.	Fire Engine Driver(operator)	5200-20200	3100	62	24	38
12.	Drive	5200-20200	2900	38	38	00
13.	Ambulance Driver	5200-20200	2900	12	9	3
15.	Tandel (Lading Fireman)	5200-20200	2900	45	28	17
16.	Peon	4440-6440	2350	2	2	0
17.	Fireman	5200-20200	2450	362	289	81
18.	Fire Brigade Mechanic	5200-20200	3900	3	3	0
19.	Auto Electrician	5200-20200	2900	1	0	1
20.	Fitter	5200-20200	3000	2	0	2
21.	Hack Saw Operator	5200-20200	2500	1	0	1
22.	Fire Plug Mokadam	5200-20200	2500	2	1	1
24.	Helper	5200-20200	2400	3	3	3
25.	Cleaner	5200-20200	2500	2	1	1
26.	Mast Lascar	5200-20200	2900	1	0	1
Total Posts.				573	427	

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

1	Centralized Control Room / emergency operation rooms for handling Disaster is provide or in operation	Each Fire Station Has Sub Control Room Which is in Coordination With the Existing Central Fire Station at Bhavani Peth CR used as EOC.
2	Internet connectivity is provided for all fire stations.	No
3	Computerization of centralized control room is done? i.e. all the fire stations are connected with internet to Centralized control room.	No
4	Communication system (like VHF/UHF with details of Frequency should be given.)	VHF-Frequency ó 84.35 MHz, 79.40 MHz,79.25MHz Licence No: L960WPC, Government Of India.
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.)	No
6	Is systematic operational procedures	No



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	...depending to any emergency / Please provide copies of the SOPs. Please provide the details of the Labs, laboratory and library available in the training centre.	
7	Please provide cities digitized maps (which show road, rail, airports, seaports, and other vital installations.)	Annexure ó V
8	Is all fire appliances are provided with Global Positioning system devices i.e. GPS system. Provided details.	No
9	Is all fire appliances are provided with Vehicle tracking system?	No

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.	No
11	Type of training program conducted in the training school / centre.	No
12	Is the residential facility available in the training centre	No
13	Number of class rooms available in the training centre.	No
14	Number of staff made available to the training centre.	No
15	Please provide the details of the Labs, laboratory, library available in the training centre.	No
16	Any Auditorium, Convention Hall available in the training centre. Please provide seating capacity.	No
17	Does you impart training to outsiders or industries or public.	No

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.	BPMC Act 1949 Section 285-289
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	cess from the properties in the city. Please provide circular or office order.	As per the Maharashtra Fire Prevention & Life Safety Measure Act, 2006
3	Do you levy any other fees or tax for special or High Rise buildings? Please provide circular or office order.	Yes. As per Government Notification No.AFS-2009/601/C.R.94/UD-20.Date 04/10/2010
4	Any fees levied for grant of Fire Approvals for buildings. Please provide a copy of circular	Fire Cess as per BPMC-1949
5	Do you charge any special charges for stand by duties or service rendered? Please provide circular or office order.	Yes As per Annexure XI
6	Do you have separate fund for up gradation of fire and emergency services. Details of Expenditure of Fire Services	Yes. Fire Protection Fund as Per Maharashtra Fire Prevention & Life Safety Measure Act, 2006 and The Budgetary Provision

Details of expenditure of Fire Services:

S.No.	Year	Establishment Expenditure	Maintenance Expenditure	Civil Expenditure	Other Expenditure	Total
1	2004-05	3,61,70,983	27,74,428	77,48,843	2,23,26,320	69020574
2	2005-06	3,94,30,233	35,10,775	1,01,88,482	1,45,99,630	67729120
3	2006-07	4,24,07,070	32,07,726		72,68,557	52883353
4	2007-08	4,89,46,688	47,11,681		18,40,172	55498541
5	2008-09	5,43,78,380	55,39,567	2,37,45,377	22,97,347	85960671

8. Details of Future Plan.

S.No.	Year	Rs. In Lakhs	% of expenditure of fire department with respect to funds allocated.
1	20010-11	12.00 Cr	
2	20011-12	13.00 Cr	
3	20012-13	15.00 Cr	
4	20013-14	17.00 Cr	
5	20014-15	20.00 Cr	



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

S.NO.	Year	Income Received					Total
		Fire Tax	Fire Fee	Fire service charges	Capitation fee	Any other	
1	2004-05	1,80,64,697	90,30,744	--	--	5,49,308	2,76,44,749
2	2005-06	2,26,44,032	1,57,27,340	--	--	6,60,686	3,90,32,058
3	2006-07	2,29,35,787	2,28,66,438	--	--	3,29,969	4,61,32,194
4	2007-08	2,65,42,512	2,95,03,661	--	--	8,23,616	5,68,69,789
5	2008-09	3,25,58,626	14,59,33,517	--	--	2,64,104	17,87,56,247
6	2009-10	3,29,61,913	7,85,50,590	--	--	3,39,903	11,18,52,406

G. Human Resource Management:

A	Manpower Planning	As per details provided above
B	Number of post sectioned and vacant	As per details provided above
C	Recruitment procedure	Obstacles, Written Test, Interview, Medical
I	Recruitment Rules	As per the Corporation Act
II	Group Discussions	Yes
III	Personnel Interview	Yes
D	Training and Development	Employees are sent for training N.F.S.C Nagpur and S.F.T.C. Mumbai.
1	Induction Training	No
2	Refresher Training	Yes. Done at Station Level
3	Motivation Training	Yes, Done at Station Level
4	Special Training	New Equipment Training
5	Any Other	At Yashada on Disaster Management
E	Carrier and Successor Plan	No
F	Migration Plan	No
G	Retirement	As per BPMC-1949
H	Plan For Utilization of Retired persons service	Yes, Experience used in training and Disaster Management



Gap Analysis for Fire Stations

S.No	Existing Fire Station	Required Fire Stations	Remarks
1	CENTRAL FIRE STATION	35	Fire Stations Requirement Calculated as per No of Ward in PMC area and S.F.A.C Norms
2	HADAPSAR FIRE STATION		
3	Lt. DAYARAM RAJGURU FIRE STATION		
4	YERAWADA FIRE STATION		
5	KASBA FIRE STATION		
6	ERANDAWANA FIRE STATION		
7	AUNDH FIRE STATION		
8	KATRAJ FIRE STATION		
9	SINHAGAD ROAD FIRE STATION		
10	KOTHRUD FIRE STATION		

A) Fire Brigade Stations:

The area of the Pune city is 243.84sq.kms and considering 10 km from the circumference from the border of Pune Municipal Corporation, 35 Fire Brigade centers are required. Currently 10 fire brigade stations are functional and other fire brigade stations at Konwa and Pashan are about to complete. Type (FS-II) Fire brigade stations are required to set up in the remaining 23 places. For the same, Pune Municipal Corporation is required to provide land to build type (FS-II) fire brigade station, according to the current DSR rates of 1.50 crores per fire brigade stations for 23 centers, a total of 34.5 crores needed.



B) Gap Analysis for Sub Fire Stations:

Sr.No	Type	Required Equipments & Material	Available	Gap
1	Water Tender	45	24	21
2	Water Tanker	45	8	37
3	Advance Rescue Tender	3	2	1
4	Flood rescue Tender	2	--	2
5	Turn table ladder -70m	1	--	1
	Turn table ladder- 40m	1	--	1
6	Hydraulic platform 70m-1	1	--	1
7	Hydraulic platform 42m	2	1	1
8	Dry chemical powder	1	--	1
9	Foam tender	2	1	1
10	Ambulance	30	8	22
11	Jeep	10	2	8
12	Hydraulic platform portable	12	8	4
13	Breathing apparatus set-35*12=420	420	78	342
14	Fire entry suit 35*2=70	70	6	64
15	Rescue equipments			
	a) Iron cutting tool 35*2=70	70	3	67
	b) Portable inflatable lighting tower 35*2=70	70	5	65
	c) Spreader	35	6	29
	d) Diamond chain cutters	35	4	31
	e) Circular saw	70	22	48
	f) chain saw	70	24	46
	g) twin saw	35	2	33
16	Communication equipments Computer; Doordarshan; Wireless etc.	35	10	25

C) Fire-brigade Human Resources Empowerment:

The empowerment of the human resource of the Pune Corporation Fire Brigade would be done by Corporation itself. To provide the required training at regular time intervals, provision would be made in the budget of Pune Corporation. 431 personnel are working in various classes of fire brigade stations. According to gap analysis, 827 more personnel are required. The recruitment of these personnel would be done with the installation of the new fire brigade stations.



D) Public Education and Awareness:

To provide knowledge about Maharashtra Fire Prevention & Life Safety Measure Act, 2006, its provisions and services etc. lectures, discussions, workshops and conferences would be arranged. To spread public awareness through means of mass communication like Radio, Doordarshan, provisions would be made in the budget of the Pune Municipal Corporation.

E) Plan of Pune Corporation to enhance and establish full flaged Fire Brigade:

According to Maharashtra Fire Prevention & Life Safety Measure Act, 20060

1. Establishment of Fire Stations as per gap analysis and requirement for Pune Muncipal Corporation area and the area within the circumference of 10km from the pune corporation boundry.
2. Human resource development
3. Public education and awareness
4. Equipment vehicles
5. Training institute, fully equipped Control room
6. GIS, GPS, Computerization etc.

Taking into account all the above perticulars to develop pune fire brigade with full strength within coming 5 years, a fund of Rs.500 Crores (Five Hundred Crores) will be required.

For this Pune has established a Fire Protection Fund, started to recover Fire service fee, Annual fee, Fire Cess, Fire premium, Fire infrastructure charges for high rise buildings.