# GOVERNMENT OF GOA DISASTER MANAGEMENT RESPONSE PLAN



DIRECTORATE OF FIRE & EMERGENCY SERVICES (ISO 9001:2015 & 45001:2018 Certified)

ST. INEZ – PANAJI, GOA

# **INDEX**

	Contents	Page No.
1)	Foreword	3
2)	Objectives	4
3)	Organization and Control	5-6
4)	Goa Map showing the locations of Fire Stations	7
5)	Fire Stations in the State of Goa (with Distance from Fire Hqrs.)	8
6)	Distance from Fire Stations to Headquarters and Sub – Division	9
7)	Road Distance between the Fire Stations	10
8)	Response Action	11-20
9)	Standard Operating Procedure for Headquarters Control Room, Zonal Control Room and Local Fire Station Watch Room for Routing of Fire & Emergency Incident Calls	21-25
10)	Position of Fire Appliances	26-27
11)	Position of Equipment's	28-30
12)	Staff positions in each Fire Station	31
13)	Telephone numbers of Fire Stations	32
14)	Important Telephone numbers of other Agencies/Departments	33-35
15)	Provision of Re-enforcement	36-37
16)	Fire Hazardous Places	38
17)	Water Sources	39
18)	Details of water sources	40-43
	Mutual Aid Agencies	44-45
19)	Key Personnel Chart	46-48

### **FOREWORD**



Disaster is a sudden, extremely unfortunate event that affects many people. A major disaster is primarily an incident which causes or threatens multiple deaths and injuries or severe disruption and which is beyond normal capacities of Fire, Police and Ambulances Services. Taking into consideration, the immense damage caused by natural disaster, it is necessary to take concerted action for reduction of loss of life and property damage and social and

economic disruption caused by natural disasters. Disaster Management is a dynamic process involving many organizations which must work together to prevent, prepare for, respond to and recover from the effects of disasters. In short, every organisation must have concern for minimizing the adverse impact of the disaster on people through preparedness and by bringing in the right technology to bear in a timely, coordinated and effective manner. The Directorate of Fire & Emergency Services provides timely assistance to the people in distress. Historically disaster management is assigned to Fire Services by virtue of trained manpower & equipment's available with them for such response. The detailed information about the trained manpower & equipment's available in the department for disaster response is included in this booklet.

### **OBJECTIVES OF THE PLAN**

#### The Primary objectives of the Disaster Management Plan is:

- ➤ To provide for modalities of Co-ordination among all participating responders at all levels of the Department.
- > To take prompt action to save valuable lives and property in the State of Goa.
- > To provide rescue and relief work
- > To instill confidence to tackle any crisis situation that may arise.
- > To handle such an emergency efficiently.
- ➤ To have meticulous planning, regular practices and mock drills, keeping the existing facilities available in proper working condition.
- ➤ To coordinate the actions of the personnel of the Department and to evolve policies for cooperation among the various participating organizations.
- > To bring the incident under control within shortest possible time.
- > To ensure normalcy within shortest possible period.

### **ORGANISATION AND CONTROL**

The Goa State Fire and Emergency Services constituted under the Goa State Fire Force Act 1986 is headed by the Director with its Headquarters and Logistic Centre at Panaji. Besides fulfilling the main objectives of fire prevention, fire protection, fire-fighting and rescue, the department generally attends emergency calls which are not directly connected with fire, in order to help the people in distress. Over the years it has attained a multi-dimensional role in saving and protecting life and property of the people with its activities in fire prevention, fire protection, fire suppression Disaster Response, and Training. The department is being developed to provide effective fire and emergency cover to the people and property in the State. The approved strength of the Goa Fire & Emergency Services is 709 including officers and administrative staff. It provides round the clock services with the setup of 16 Fire Stations located in the township of the respective local Bodies/Municipalities, viz., Panaji, Mapusa, Porvorim, Margao, Vasco, Curchorem, Canacona, Ponda, Old-Goa, Bicholim, Valpoi, Pernem, Verna, Kundaim, Pilerne and Cuncolim.

The Department has decentralized the administrative work into three Zones viz; South Zone, Central Zone and North Zone. The operational control of South Zone, Central Zone are under the control of Dy. Director (Fire) and North Zone is under the control of Asst. Divisional Officer respectively. The Fire Stations under the Jurisdiction of South Zone, Central Zone and North Zone are as below:

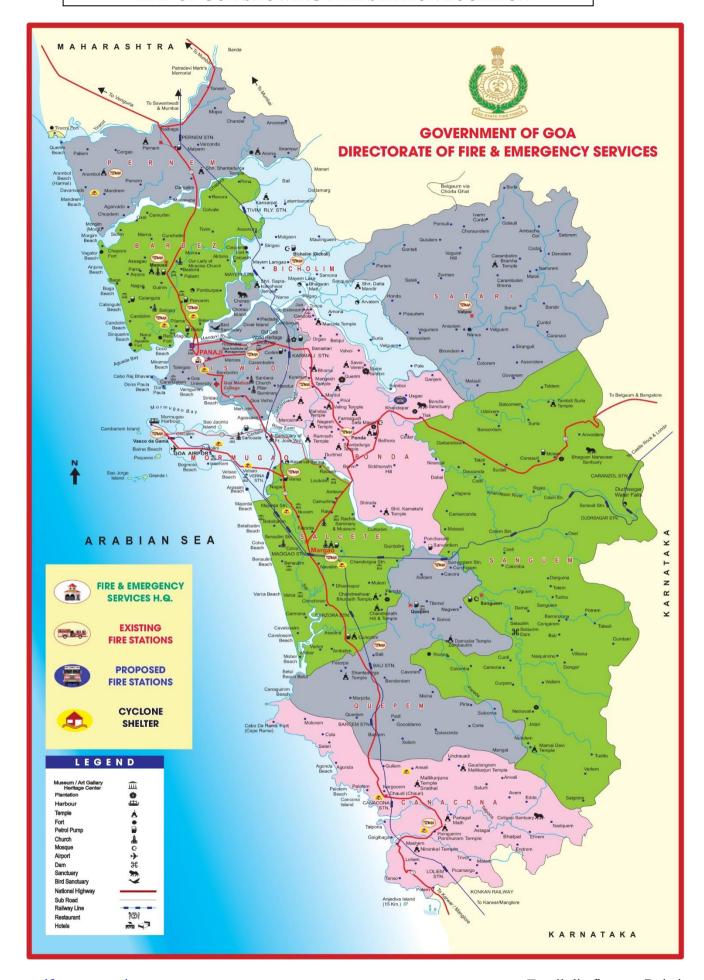
Dy. Director (Fire), South Zone, Margao	ı	Fire Stations Margao, Curchorem, Canacona, Verna and Cuncolim
Dy. Director (Fire), Central Zone, Ponda	1	Fire Stations Ponda, Valpoi, Bicholim, Kundaim and Old - Goa
Assistant Divisional Officer, North Zone, Panaji	-	Fire Force Headquarters, Fire Stations Panaji, Mapusa, Pernem, Vasco, Pilerne and Porvorim

Each Fire Station is headed by one Station Fire Officer-Officer-in-charge. The Officer and Fire Personnel on duty at the respective Local Fire Station (LFS) will be the first responder for all types of Fire/Emergencies which include natural and man-made disasters.

The Directorate of Fire and Emergency Services is among the first responder to any Disaster situations in the State and is rendering this service in accordance with the **Incident Response System** as laid down under the Disaster Management Act and the department **Disaster Management Response Plan**.

\_\_\_\_\_

#### MAP OF GOA SHOWING FIRE STATION LOCATION



www.dfes.goa.gov.in

Email:dir-fire.goa@nic.in

### FIRE STATIONS IN THE STATE OF GOA

FIRE FORCE HEADQUARTERS (LOGISTICS CENTRE)	01
--	----

ZONE	FIRE STATION UNDER ZONE
NORTH ZONE PANAJI	06
SOUTH ZONE MARGAO	05
CENTRAL ZONE PONDA	05
TOTAL NUMBER OF FIRE STATIONS	16

### DISTANCE (IN KMS.) FROM FIRE STATIONS TO HEADQUARTERS AND SUB - DIVISION

I.	North Zone Panaji	Distance from North Zone Panaji	Distance from Hqrs. Panaji
	Fire Station Panaji		
	Fire Station Mapusa	16	16
	Fire Station Pernem	34	34
	Fire Station Vasco	32	32
	Fire Station Pilerne	14	14
	Fire Station Porvorim	09	09
II.	South Zone Margao	Distance from South Zone Margao	Distance from Hqrs. Panaji
	Fire Station Margao		38
	Fire Station Curchorem	22	61
	Fire Station Canacona	36	76
	Fire Station Verna	14	21
	Fire Station Cuncolim	15	48
III.	Central Zone Ponda	Distance from Central Zone Ponda	Distance from Hqrs, Panaji
	Fire Station Ponda		32
	Fire Station Old-Goa	19	13
	Fire Station Bicholim	32	34
	Fire Station Valpoi	32	61
	Fire Station Kundaim	09	23

### ROAD DISTANCE BETWEEN THE FIRE STATIONS

	Panaji														
Mapusa	16	Mapusa													
Bicholim	34	21	Bicholim												
Valpoi	61	45	24	Valpoi											
Pernem	34	18	39	63	Pernem										
Old-Goa	13	23	44	51	41	Old Goa									
Margao	38	48	69	52	66	33	Margao								
Vasco	30	40	61	67	58	25	32	Vasco							
Ponda	32	42	32	32	70	19	20	35	Ponda		_				
Curchorem	61	72	57	57	90	55	22	54	25	Curchorem					
Canacona	76	86	107	88	104	67	36	66	50	45	Canacona		_		
Verna	21	33	51	54	51	17	14	17	26	36	49	Verna		_	
Kundaim	23	36	29	37	54	09	29	44	09	34	59	35	Kundaim		_
Pilerne	14	08	29	53	26	19	48	40	42	71	86	31	33	Pilerne	
Cuncolim	48	58	68	61	75	45	15	42	32	14	28	28	45	56	Cuncolim
Porvorim	09	16	27	46	33	14	36	29	32	50	73	24	24	14	50

#### **RESPONSE ACTION**

#### **ROLE & RESPONSIBILITIES: -**

#### 1. LOCAL FIRE STATION (LFS) / FIRST RESPONDER

#### Response Time:

The standard time taken by the Local Fire Station to turn-out to any Fire and Emergency incident is 30 seconds from the receipt of any call about the Fire and Emergency incident. The actual time taken to reach the site of the incident in Rural and Urban areas by the first Turn-Out Vehicle/Team depends considerably on the distance from the Local Fire Station (LFS) to the Fire/Emergency incident spot, traffic condition on the road and easy access to the actual incident spot from the main road.

The Local Fire Station in the respective Zone will be the First Responder in the event of any Fire and Emergency incident. The First Responder shall take the following action:

- The Local Fire Station will dispatch Fire Tender or Emergency Rescue Tender (which includes Fire Fighting Personnel and equipments) to the incident site based on the type of incident reported to the respective Fire Station.
- The First Responder will make an on-scene assessment of the incident (nature, magnitude and other details) and inform the respective Watch Room, in turn will inform the Headquarters Fire Control Room on an on-going basis to the extent possible.
- > The Fire Station Watch Room of the Local Fire Station will simultaneously communicate the information of the incident to the respective Zonal Control Room.

- The First Responder may seek assistance from the neighboring Fire Stations as per the standard protocol and from other mutual aid agencies, as may be required based on the progress and status of the incident.
- The First Responder Unit shall continue to provide information to the Local Fire Station Watch Room and Zonal Control Room on continuing basis to the extent possible by communication facilities available with them.
- > The Officer-In-Charge of the First Responder Team shall leave the scene of the incident only after the situation has been fully brought under control for ensuring continuity of information on the progress of the response.
- > The Zonal Control room shall inform the Headquarter Fire Control Room and also the next senior officer's in hierarchy.
- The Officer-in-Charge of the First Responder Team will seek appropriate assistance from Zonal Control as well as Headquarters Fire Control Room depending upon the extent and complexity of the incident.

#### 2. WATCH ROOM OF LOCAL FIRE STATION

- > On receiving any information of any Disaster, Fire & Emergency incident in the jurisdiction of a particular Local Fire Station, the Watch Room Operator of that particular Local Fire Station will immediately bring the fact to the notice of the Station Fire Officer/Officer-In-Charge of the Fire Station. Subsequently, he will immediately inform the Zonal Control Room and HQs. Control Room regarding the Fire Response Action taken.
- Depending on the feed back from the Officer-In-Charge of the first Response Team the Fire Station Watch Room will provide information on continuous basis to the Zonal Control Room as well as Headquarters Control Room regarding the progress of the response and any additional resources required for effecting search, rescue and fire fighting operation, in the event of a major disaster situation arising in the jurisdiction of the respective Local Fire Station.

#### 3. ZONAL CONTROL ROOM

On receiving any information of any Disaster, Fire & Emergency incident in the jurisdiction of particular Zone, the Watch Room Operator of the Zonal Control Room having jurisdiction of the incident spot will immediately bring the fact to the notice of the Officer-In-Charge of the zone. Subsequently on the direction of the Zonal Officer he will immediately inform the District Disaster Management Authority Control Room of the concerned District through quickest possible means and will also inform the Dy. Collector office having direct liason with the zone as per the District Disaster Management Plan.

- Further the Watch Room Operator of Zonal Control Room will also inform the Headquarter Control room about the Disaster, Fire & Emergency incident.
- As and when a Disaster situation is notified by the respective District Disaster Management Authority, every Fire Station in that District shall initiate the **Disaster Management Response Plan** and mobilize men and machinery in accordance with Disaster Management Response Plan directions from the respective Headquarters Control Room. Since such disasters involve incident specific response, the Fire Stations of the respective Zone shall carry out periodical drills appropriate to each types of disaster identified for the District and the State as a whole.
- Whenever the Police Control Room receives an <u>Emergency alert on 100</u>, the <u>Fire & Emergency Control</u>

  <u>Room on 101</u> shall invariably be alerted and vice versa. At any emergency site, the Police Force present shall form the Outer Ring of security and ensure that the Fire and Emergency Service personnel are enabled to work unfettered by curiosity crowds and others not trained to be part of the Search, Rescue and Fire Fighting Operations.

#### 4. HEADQUARTERS FIRE CONTROL ROOM

The Headquarters Fire Control Room at Panaji upon receipt of information of the Disaster Incident either directly or through other channel of communication of the on-scene and near-scene assessment, will take the following action:

- The HQ Fire Control Room shall act as a Nodal Agency to coordinate firefighting and response action.
- Mobilize Fire Tender / Emergency Rescue Tender from the nearest Fire Station to the affected site as per Disaster Management Response Plan (DMRP).
- Mobilize reinforcement/Specialized equipment, if needed, and other support services to the area/scene to assist in the controlling of the incident;
- Alert other response agencies such as Medical, Police for support that may be required;
- > Provide information to the superior officers of the Directorate of Fire & Emergency Services based on on-scene information available through the First Responder Team.
- > Station Fire Officer (Comm.)/Mobilizing Officer, on receipt of information of brigade call from the Headquarters Fire Control Room shall mobilize reinforcement as per the Disaster Management Response Plan.
- The Headquarters Fire Control Room shall alert District Disaster Management Authority North Goa Control Room No. 1077/2225383/2225083/2427690 and State Disaster Management Authority South Goa Control Room No. 1077/2794410 depending upon the gravity of the situation.

#### 5. <u>NEIGHBOURING FIRE STATIONS</u>

Upon being informed by the HQ Fire Control Room, the Local Fire Stations located away from the scene of incident will;

- > Move to alert and ready status.
- > On advise of the HQ. Fire Control Room or Zonal Control Room, shall;
  - Start moving resources and personnel towards the scene of incident
  - Report to the Incident Control Officer (ICO) engaged in the on-scene response
  - Co-ordinate as per instructions of the ICO.

#### 6. <u>STATION FIRE OFFICER/OFFICER-IN-CHARGE (Incident Control Officer)</u>

He shall be the Incident Control Officer on the call spot and shall communicate minute to minute information from the call spot to the Senior Officer in his hierarchy who in turn will inform the next superior in the chain of command i.e. Divisional Officer/Deputy Director/Director, Fire & Emergency Services depending upon the gravity and extent of disaster he shall assess the situation in terms of:-

- a) Nature of situation and extent of damage
- b) Type of Incident/services/minor/major/medium.
- c) Other potentially vulnerable area.
- d) Approximate persons effected.
- e) Search, Rescue & Fire Fighting Operations to be undertaken.
- f) Information to be sent to the Zonal Control and HQs. Control Room.
- g) Information to be provided to the District Disaster Management Authority Control Room/ State Disaster Management Authority Control Room.

#### 7. ASSISTANT DIVISIONAL OFFICER / SUB-DIVISIONAL INCIDENT CONTROL OFFICER (SDICO)

- The Assistant Divisional Officer / Sub-Divisional Incident Control Officer, on receipt of the information from the Watch Room of the Local Fire Station shall proceed to the scene of incident as per severity of the incident.
- > He shall communicate with his superior officer as per protocol and keep them informed about the situation of the incident from time to time.
- He shall co-ordinate the entire Fire / Emergency management within his jurisdiction and shall be responsible for any coordinating action during emergency.
- He shall inform the Officers concerned with District Disaster Management Authority about the magnitude and gravity of the situation and request the Divisional Officer to activate the District Disaster Management Plan through the District Magistrate.
- ➤ He shall leave the site of incident only after the situation has been brought under control.

#### 8. <u>DIVISIONAL OFFICER / ASSISITANT CHIEF INCIDENT CONTROL OFFICER (ACICO)</u>

The DO / ACICO shall be the overall commander of all fire and emergency operations in the respective District. In his capacity he shall have the following responsibilities.

- Assume overall charge during the progress of the emergency situation in the respective District and provide the required direction and co-ordination of all resources to bring the incident under control with minimum loss of life and damage to property.
- > Organize reinforcement and support for emergency response from the resources available with the various response agencies and other mutual aid organizations.
- He shall communicate with his superior officer(s) as per protocol and keep them informed about the situation of the incident from time to time.
- He shall also alert the District level Officers concerned with District Disaster Management Authority for operationalization of their plan with the approval of Deputy Director (Fire).

#### 9. <u>DEPUTY DIRECTOR / DEPUTY CHIEF INCIDENT COMMANDER (DCIC)</u>

- The Deputy Director/DCIC shall be the second-in-command, assisting the Director, and shall assume the overall command of major fire and other emergency incidents in the absence of the Director.
- Whenever the Deputy Director/DCIC personally monitors or supervises the response to an incident, he shall report to the Director Fire & Emergency about the satisfactory completion of the response action.
- > It shall also be his duty to alert the Director of Fire & Emergency Services about the serious nature of an incident, where guidance by the Director of Fire & Emergency Services is called for or is desirable.

#### 10. <u>DIRECTOR / CHIEF INCIDENT COMMANDER (CIC)</u>

- The Director of Fire & Emergency Services (DFES) shall be in overall command whenever he is present at an incident site or his supervision / guidance has been requested.
- The Director of Fire & Emergency Services shall alert higher levels in Government in the event of high-risk events bordering on calamity/disaster, so as to trigger appropriate response at that level.

# STANDARD OPERATING PROCEDURE FOR HEADQUARTERS CONTROL ROOM, ZONAL CONTROL ROOM AND LOCAL FIRE STATION WATCH ROOM FOR ROUTING OF FIRE & EMERGENCY INCIDENT CALLS

**LEVEL –I:** Fire & Emergency incident wherein 1 No. of Fire/ Emergency Rescue Appliance service is engaged.

The Local Fire Station in the respective Zone will be the First Responder in the event of any Fire and Emergency incident. The communication workflow will be as follows;

- 1. The Fire Station Watch Room of the Local Fire Station should record the Name of the Caller, Tel. No., Incident location, Time of Call & any other necessary information, communicate the information to the Station Fire Officer/Officer-In-Charge of the Fire Station and dispatch the Fire Tender or Emergency Rescue Tender (which includes Fire Fighting Personnel and equipment's) to the incident site based on the type of incident reported. The Watch Room will simultaneously inform the Zonal Control Room via WhatsApp, Telephone, Wireless, e-mail, fax, SMS etc.
- 2. The Zonal Control Room will broadcast via e-SMS, telephone etc. the incident information to the Director (DFES), Zonal Group Head and Headquarters Control Room.
- 3. The Officer-In-Charge of the First Responder Team will provide information to the Local Fire Station Watch Room and Zonal Control Room on continuous basis to the extent possible by communication facilities available with them i.e Whats App, Mobile Phone or VHF Wireless etc. he will also apprise the Zonal Officer-In-Charge of the progress of the operation. The Zonal Officer-In-Charge in turn will seek appropriate additional mobilization and also personally inform telephonically to the Director, Directorate of Fire and Emergency Services of the situation at site as it evolves.

- 4. In the situation where no Fire Response Team is immediately available with the Fire Station receiving the Fire Emergency Incident. The Zonal Control Room shall deploy a team from another Fire Station in the jurisdiction. But if the nearest Fire Station which can respond quicker is from another Zone, the Zonal Officer may mobilize the nearest Fire Station and simultaneously intimating Headquarter Control Room, who shall then formally record such deployment of Inter Zone Resources. Every such Inter Zone deployment shall be immediately brought to the notice of the Director, Fire & Emergency Services. Responding units from other Zone shall not leave the incident site without clearance from respective Zonal Officer.
- 5. The Officer-In-Charge of the First Responder Team shall leave the scene of the incident only after the situation has been fully brought under control for ensuring continuity of information on the progress of the response. Zonal Control Room will broadcast via e-SMS or any other available mode of communication regarding the closure of incident to the Director (DFES), Zonal Group and Headquarters Control Room. The First responder team at site shall submit the provisional and Final Fire /Emergency Incident Report collecting input from the Responders.
- 6. The Officer-in-Charge of the First Responder Team will seek appropriate assistance from Zonal Control Room as well as Headquarters Fire Control Room depending upon the extent and complexity of the incident. In the event if the incident cannot be controlled and requires assistance from neighboring Fire Stations or Mutual Aid Agencies the response Level should be escalated as Level-II to Zonal Control Room.

<u>LEVEL –II:</u> Fire & Emergency incidents wherein 2 or 3 Nos. of Fire/ Emergency Rescue Appliance services are engaged/deployed.

- 1. The Zonal Control Room shall inform the Headquarter Fire Control Room and also the next senior officer's in hierarchy regarding the severity of the incident. e-SMS regarding the same shall be broadcast to the Director, (DFES)/ Dy. Director (Fire)/Divisional Officer/Asst. Divisional Officer and Zonal Group.
- 2. The Officer-In-Charge of the First Responder Team will provide information to the Zonal-In-Charge, Local Fire Station Watch Room and Zonal Control Room on continuous basis to the extent possible by communication facilities available with them i.e Whats App, Mobile Phone Call or VHF Wireless. The Zonal In-Charge shall seek appropriate mobilization and also personally inform the Director, Directorate of Fire and Emergency Services of the situation at site as it evolves.
- 3. The Officer-In-Charge of the First Responder Team shall leave the scene of the incident only after the situation has been fully brought under control for ensuring continuity of information on the progress of the response. Zonal Control Room will broadcast via e-SMS regarding the closure of incident information on the Director (DFES), Zonal Group and Headquarters Control Room.
- 4. The Officer-in-Charge of the First Responder Team will seek appropriate assistance from Zonal Control as well as Headquarters Fire Control Room depending upon the extent and complexity of the incident. In the event the incident cannot be controlled and significant crisis involving injuries has occurred then the response level should be escalated as Level-III to all superior officers.

<u>LEVEL –III:</u> Fire & Emergency incidents wherein more than 3 nos. of Fire/ Emergency Rescue Appliance services are engaged.

- 1. The Zonal Control Room shall inform the Headquarter Fire Control Room and also the next senior officer's in hierarchy regarding the severity of the incident via e-SMS, telephone/mobile etc regarding the same shall be broadcasted to the Director, Directorate of Fire and Emergency Services/ Deputy Director (Fire)/Divisional Officer/Asst. Divisional Officer and Station Fire Officers/ Officer In Charge of all Fire Stations.
- 2. The Officer-In-Charge of the First Responder Team will provide information to the Local Fire Station Watch Room and Zonal Control Room on continuous basis to the extent possible by communication facilities available with them i.e WhatsApp, Mobile Phone Call or VHF Wireless who in turn will convey information to Headquarters Control Room.
- 3. On receipt of such alert the Zonal Officer-In-Charge shall evaluate the situation and if necessary, proceed to the site and assume Incident Command. He shall also inform the Director, Fire & Emergency Services about his assessment and the action proposed. He will continuously keep the Director, Directorate of Fire and Emergency Services updated on the severity of the Fire/Emergency Incident and the progress and effect of the operations.
- 4. The Officer-In-Charge of the First Responder Team shall leave the scene of the incident only after the situation has been fully brought under control for ensuring continuity of information on the progress of the response. Zonal Control Room will broadcast via e-SMS regarding the closure of incident information on the Director (DFES), Zonal Group and Headquarters Control Room.

#### **LEVEL –IV:** State Level Disaster

- 1. In case of State Level Disaster, the Response Actions stipulated in the Disaster Management Response Plan should be adhered with. The HQ Fire Control Room shall act as a Nodal Point to coordinate and communicate relating to firefighting, Search & Rescue and Response Action.
- 2. The HQ Fire Control Room shall provide information to the superior officers of the Directorate of Fire & Emergency Services based on-scene information available through the First Responder Team on real time basis.
- 3. The Headquarters Fire Control Room shall alert District Disaster Management Authority North Goa Control Room No. 1077/2225383/2225083/2427690 and District Disaster Management Authority South Goa Control Room No. 1077/2794410/2794400 depending upon the gravity of the situation.
- 4. The District Disaster Management Authority will alert State Disaster Management Authority and cause the State Emergency Operation Centre to be activated wherever necessary.

-----

### **POSITION OF FIRE APPLIANCES**

Sl.	Name of the Headquarters	WT	WB	HWT	MSWT	ERT	WFT	MRT	MFT	BDV	IFT	E-	RT	MSB	ALP	TTL	MPU	MRU	SC	QRV	TOTAL
No.												VAN									
1.	Fire Force Headquarters	01	01			01						01				01		02		02	09
	Total :- A	01	01			01						01		-	ı	01		02		02	09

#### A) NORTH ZONE PANAJI

Sl.	Name of the Sub-Division	WT	WB	HWT	MSWT	ERT	WFT	MRT	MFT	BDV	IFT	<b>E</b> -	RT	MSB	ALP	TTL	MPU	MRU	SC	QRV	TOTAL
No.												VAN									
1.	Fire Station Panaji	01				01												01			03
2.	Fire Station Mapusa	02						01										01			04
3.	Fire Station Pernem				01			01										01		01	04
4.	Fire Station Vasco				01	01	01													01	04
5.	Fire Station Pilrene	01																		01	02
6.	Fire Station Porvorim	01																		01	02
	Total :- B	05			02	02	01	02										03		04	19

#### B) SOUTH ZONE MARGAO

Sl.	Name of the Sub-Division	WT	WB	HWT	MSWT	ERT	WFT	MRT	MFT	BDV	IFT	E-	RT	MSB	ALP	TTL	MPU	MRU	SC	QRV	TOTAL
No.												VAN									
1.	Fire Station Margao	01	01			01									01			01		01	06
2.	Fire Station Curchorem	01	01			01														01	04
3.	Fire Station Canacona	01																		01	02
4.	Fire Station Verna								01											01	02
5.	Fire Station Cuncolim	01			01																02
	Total :- C	04	02		01	02			01		-			-	01		I	01		04	16

#### C) CENTRAL ZONE PONDA

Sl.	Name of the Sub-Division	WT	WB	HWT	MSWT	ERT	WFT	MRT	MFT	BDV	IFT	<b>E</b> -	RT	MSB	ALP	TTL	MPU	MRU	SC	QRV	TOTAL
No.												VAN									
1.	Fire Station Ponda	01	01			01												01		01	05
2.	Fire Station Old-Goa				01													01			02
3.	Fire Station Bicholim	01			01													01		01	04
4.	Fire Station Valpoi	01																		01	02
5.	Fire Station Kundaim	01																			01
	Total :- D	04	01		02	01												03		03	14
	TOTAL = A + B + C + D	14	04		05	06	01	02	01			01	1	1	01	01		09		13	58

#### Note:-

1. WT = Water Tender. 9. BDV = Break Down Van. 17. S/C = Staff Car.

2, WB = 12KL Water Bauser. 10. IFT = Industrial Fire Tender. 18. QRV = Quick Response Vehicle.

19.

TTL

Turn Table Ladder.

3. HWT = Heavy Water Tender. 11. E-VAN = Educational Van.
4. MSWT = Mid-Sized Water Tender. 12. RT = Rescue Tender.

5. ERT = Emergency Rescue Tender. 13. MSB = Multipurpose Special Bauser.

6. WFT = Water cum Foam Tender. 14. ALP = Aerial ladder Platform.

7. MRT = Mini Rescue Tender. 15. MPU = Motor Pump Unit.

8. MFT = Multipurpose Fire Tender. 16. MRU = Motorcycle Response Unit.

The Fire Fighting Equipment's and Life Saving Equipment's are distributed to all Fire Stations on the basis of its risk assessment. The minimum Fire Fighting Equipment's Viz; Delivery Hoses, Couplings, Suction Hoses, Small Gears, Extension Ladders, Portable Fire Chemical Extinguishers, Ropes, Fire Pump and Life Saving Equipment's Viz. Hydraulic Cutting Tools, Self-Contained Breathing Apparatus, (SCBA), Diving sets, Fire Approach suits, Chemical Suit, Chlorine Suit, Ammonia Suit etc. are available at state level.

### **POSITION OF EQUIPMENTS**

#### FIRE FIGHTING, LIFE SAVING, SEARCH AND RESCUE, LIGHTING, CUTTING BREAKING AND LIFTING EQUIPMENT, SMALL GEARS & HOSE FITTING

Sl.	List of Equipment's								-	LOC	ATIO	N									
No.	EIDE EIGHEING		1	I	I		I									ı		ı	ı		TOTAL
A.	FIRE FIGHTING EQUIPMENT'S	A	В	C	D	E	F	G	Н	Ι	J	K	L	M	N	O	P	Q	R	S	
1.	RRL Delivery Hose	19	09	12	17	20	16		04	14	11	12	13	14	21	13	09	08	10		212
2.	Suction Hose	07	03	06	04	08	02			08	04	04	06	04	10	08	04	04	04		86
3.	Hand Control branch/Nozzle	06	02	03	02	02	03	01	02	03	02	02	02	02	07	06	05	02	02		54
4.	Ground Monitor	01				01						01			01			01			05
5.	Inline Inductor					01		01								02					04
6.	Floto Pump	01	01	01	01	01	01			01	01	01	01	01	01	01	01				14
7.	Potable Pump	02	01	01		01				02			01	01	02	01					12
8.	Breathing Apparatus Set	10	06	10	08	08	03	05	04	06	04	02	06	04	09	06	07	06	05		108
9.	ABC Fire Extinguisher	14	12	17	14	18	14	25	12	26	12	15	12	13	16	24	14	10	12	50	285
10.	Water Co2 Fire Extinguisher			02	02			10		05						09					28
11.	Mechanical Foam Fire Extinguisher			02	01		01	10		07					01	06					28
12.	Co2 Fire Extinguisher	14	12	13	16	19	13	15	12	13	14	14	13	13	21	13	12	11	12	40	270
13.	Positive Pressure Ventilator	02	01	01						01					01						06
14.	Blower/Exhaust with duct	02	01									01						01	01		06
15.	AFFF Foam in gallon	22	08	35	30	31	13	01	05	10	54	15	16	10	15	36	40	15	05		361
16.	Hose Ramp	01	02	04			02			04		01			02	04					20
17.	Foam Generator					-		01	-	-			03			01				-	05
18.	Aluminium Ladder/Extension Ladder	03	03	03	02	03	02	03	01	02	01	01	02	02	05	05	01	02	01		42
19.	Submersible Pump	01	01	01	01	01			01	01	01	01	01	02	01	01	01	01	01		17
20.	Dewatering Pump							01										01	01		03

	List of Equipment's	A	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	P	Q	R	S	TOTAL
B.	SEARCH & RESCUE																				
	EQUIPMENT		1				1	1	ı		1	ı	ı	1	ı	I	ı	ı			
1.	Victim Location Camera	01														01					02
	Unit							0.0										0.4			0.0
2.	Demolition Hammer							02										01			03
3.	Chipping Hammer			02	01													01			04
4.	Rotary Hammer																				
5.	Rotary Rescue Saw		01		01			01		01						01					05
6.	Hydraulic Cutting &	04	01	03	01					02		01			01	01	01	02			17
	Breaking Rescue tools																				
7.	Lifting Bags	01		02	01										01	06		04			15
8.	Portable Generator	02	02	03	02	01	01		01	02	01	01	02	02	02	01	02	01	01		27
9.	Smoke Exhauster	02	01												01				01		05
10.	Air Escape Set								-												
11.	Portable Ring Cutter																				
	(Circular Saw) with blade																				
12.	Handheld Forcible Entry				02	01															03
	Tool																				
13.	Breathing Air			01		01		01		01		01	01		01	01	01	01			10
	Compressor																				
14.	Rapid Deployment Craft									01						01					02
	with OBM																				
15.	High Density																				
	Polyethylene (HDPE)	01		01						01			01	01	01	01					07
	With 30 HP OBM																				
16.	Personal Floating Device	06		06				08	ŀ	07	01		06	06		06					46
17.	Combi Tool	01	01	01	02	01	01		-	01	01		01	01	02	01			01		15
18.	Concrete Cutter		01	01											01	01					04
19.	Stretcher	03	01		03			03		01			01	01		02					17
	(Scoop/Spine/Floating)			02																	
20.	Electric Chain Saw	08	07	09	04	06	05		04	08	04	04	05	05	08	07	06	05	04	17	111
21.	Petrol Chain Saw	05	03	03	03	03	01		01	01	01	03	01	03	04	03	02	01	02		39
22.	Door Opening Kit	01	01	02	02	01	01			01	01	01		01	02	01	01	01			17
23.	Lifebuoy	04	02	06	06	01	02	04		01	02	02	04	03	04	09	05	01			56

	List of Equipment's	A	В	С	D	E	F	G	Н	I	J	K	L	M	N	О	P	Q	R	S	TOTAL
24.	Life Jacket	04		05	06	01		14		01	01	02	03	04		02	04				47
25.	Body Harness	21		03	08	04	02			03	04	02	03	02	04	02	04		04		66
26.	Diving Sets				01																01
27.	Multi Gas Detector			01	02	01	01	I			01	01		01	01	02	01	01	01	-	14
28.	Rescue Rope	50	20	50	110	110	90		48	110	110	110	110	110	100	08	110	110	50		1406
	8mm/10mm/12mm/24m	mts.	mts.	mts.	mts.	mtr	mts.		mts.		mts.										
	m/30mm	Each			each	S				each	each	each	each	each			each	each			
C.	LIGHTING SYSTEM																				
1.	ASKA light	01	01	02	02	01	01	-		01	01	01	01	02	02	02	01	01		ŀ	20
2.	Remote Area Lighting	01		01				03		01			01	01	01						09
	System																				
3.	Potable torch	04	02	02	02	02	02		01	03	01	01	04	04	04	02	01	01	02		38
4.	Spotlight		01			01						01		02		01			01		07
5.	Light Mast	01														01		01			03
D.	PERSONAL																				
	PROTECTIVE																				
	CLOTHING																				
1.	Three Layer Suit	06	02	01		02	02			02		06			02	02	02	02	04	02	35
2.	Chemical Protective Suit	02	02	02	02	02	02		01	01	01	03	01	03	01	04	01	02	02		32
	level "A"																				
3.	Chemical Protective Suit	01	01	01		03	02		01	01	01	01	01	01	01	01	01	01	01		19
	level "B"																				
4.	PVC Suit	10	10	10	14	14	08		08	21	13	08	12	13	15	08	08	14	08	20	214

A - Fire Force Headquarters F - Fire Station Pilerne K - Fire Station Kundaim P - Fire Station Canacona B - Fire Station Panaji G - Training Section, FFHQ L - Fire Station Valpoi Q - Fire Station Verna H - Fire Station Porvorim C - Fire Station Mapusa M - Fire Station Bicholim R - Fire Station Cuncolim - Fire Station Pernem I - Fire Station Ponda N - Fire Station Margao - Store Section, FFHQ

E - Fire Station Vasco J - Fire Station Oldgoa O - Fire Station Curchorem

### STAFF POSITION

Name of the Headquarter	DIR	DDF	DO	ADO	SFO	SO	L/FF	WRO	D/OPT	F/F	TOTAL
Fire Force Headquarters (FP Cell, Trg., MT, Stores, COMM.& Yard)	01				05	15	22	11	32	67	135
Total (A)	01				05	15	22	11	32	67	135

	Name of the Zone	DIR	DDF	DO	ADO	SFO	SO	L/FF	WRO	D/OPT	F/F	TOTAL
Sl. No.	NORTH ZONE PANAJI			01	01							02
1.	Fire Station Panaji					01	01	07		06	27	42
2.	Fire Station Mapusa					01	02	05	04	11	38	61
3.	Fire Station Pernem					01	02	07	03	07	28	48
4.	Fire Station Vasco					01	02	05	03	08	32	51
5.	Fire Station Pilerne						01	03	02	04	18	28
6.	Fire Station Porvorim					01	02	03	02	03	22	33
	Total (B)			01	01	05	10	30	14	39	165	265
Sl. No.	SOUTH ZONE MARGAO		01	01								02
1.	Fire Station Margao					01	05	08	04	14	50	82
2.	Fire Station Curchorem					02	02	06	03	08	27	48
3.	Fire Station Canacona					01	01	09	01	05	15	32
4.	Fire Station Verna					01	01	04	02	06	20	34
5.	Fire Station Cuncolim					01	01	03	01	03	14	23
	Total (C)		01	01	01	06	10	30	11	36	126	221
Sl. No.	CENTRAL ZONE PONDA											
1.	Fire Station Ponda					01	04	05	04	17	45	76
2.	Fire Station Old Goa						02	06	03	03	18	32
3.	Fire Station Bicholim					01	02	10	04	08	35	60
4.	Fire Station Valpoi					01		04	03	06	25	39
5.	Fire Station Kundaim						01	03	03	04	19	30
	Total (D)				01	03	09	28	17	38	142	237
	Total (A+B+C+D)	01	01	02	01	19	44	110	53	144	500	858
	TOTAL OPERATIONAL STRENGTH 858											

## TELEPNONE NUMBERS OF FIRE STATIONS

1	Eine Ferre Handamantana	101, 2225500, 2232902
1	Fire Force Headquarters	2425101, 2423101, 7391047132

#### A) NORTH ZONE PANAJI

Sl. No.	Name of Fire Stations	Telephone Numbers
1.	Fire Station Panaji	2225500, 2232902, 101, 7391047132
2.	Fire Station Mapusa	2262900, 2263354, 101, 7391047134
3.	Fire Station Pernem	2201201, 2201393, 101, 7391047133
4.	Fire Station Vasco	2513840, 2519068, 101, 7391047142
5.	Fire Station Pilerne	2407100/ 2407101, 101, 7391047141
6.	Fire Station Porvorim	2411122, 7391047140

#### B) SOUTH ZONE MARGAO

Sl. No.	Name of Fire Stations	Telephone Numbers
1.	Fire Station Margao	2714600, 2715825, 101, 7391047144
2.	Fire Station Curchorem	2650307, 101, 7391047146
3.	Fire Station Canacona	2633311, 101, 2633500, 7391047145
4.	Fire Station Verna	2887122 ,101, 2887085, 7391047148
5.	Fire Station Cuncolim	2764744, 7391047147

#### C) CENTRAL ZONE PONDA

Sl. No.	Name of Fire Stations	Telephone Numbers
1.	Fire Station Ponda	2312044, 101, 2315863, 7391047150
2.	Fire Station Old Goa	2285344, 7391047155
3.	Fire Station Bicholim	2361397, 2362100, 101, 7391047153
4.	Fire Station Valpoi	2374444, 101, 7391047165
5.	Fire Station Kundaim	2395455, 7391047156

### **IMPORTANT TELEPNONE NUMBERS**

#### A) NORTH ZONE PANAJI

Sl.	Fire Stations	Water	Elect.	Health	Ambulance	L.P.G. Eg.	Mutual	Collector/	Police	Municipality/Panchayat	Forest	Disaster
No		Supply	Dept.	Services		Cell	Aid	Dy.	Station		Dept.	Management
							Agency	Collector /				
								Mamlatdar				
1.	Fire Station Panaji	2226446	2225835	2225540	108	2220785		2223612	2428488	2223339	2228772	1077
			2420042	2225646		2226480		2225383	2428489	2224550		2225383
				2225668						2223367		
2.	Fire Station Mapusa	2262374	2262218	2262211	108			2262038	2262231	2262203		2250254
3.	Fire Station Pernem	2201205	2201772	7447769032	108	1906		2201411	2201233	2201235	2201367	2201411
			2201227	8080526461				2201142	78757560	2201808		
									28			
4.	Fire Station Vasco	2512382	2512043	2513864	108	2513599	2555571	2512688	2512304	2513014	2750246	1077
			2511565	2512307				2513014	2513273	2512258		
										2512688		
5.	Fire Station Pilerne	2415197	2241771	2489035	108	2409212		2223612	2278284	2407466	2422244	2225383
						99238814		2262038	2278100		2225926	
						03		2262233				
6.	Fire Station	2413043	2417711	2411991	108			2262038	2417704	2402332	2422244	1077
	Porvorim	2413046						2262233		8130904553	228772	

#### B) SOUTH ZONE MARGAO

Sl.	Fire Stations	Water	Elect.	Health	Ambulance	L.P.G. Eg.	Mutual	Collector/	Police	R.T.O	Municipality	Ex. Eng.	Forest
No		Supply	Dept.	Services		Cell	Aid	Dy. Collector	Station		/ Panchayat	PWD	Dept.
							Agency	/ Mamlatdar					
1.	Fire Station	2722181	2720924	2722164	108	2720462	2731759	2794414	2705095	2741962	2715398	2741100	2756309
	Margao			2722722	2730953		2721749	2794484	2714450		2715175	2742927	2750246
							2759324				2715176		
											2722193		
2.	Fire Station	2604229	2650501	2604235	108	7947425958	2650566	2604232	2650568	2664411	2650547	2650207	2662214
	Curchorem	2650207		2650566			2662636	2662228	2604233		2662207	2662882	2604249
							2604235	2662241			2604227	2604237	
												2663050	
3.	Fire Station	2643355	2643331	2643422	9923201013	2643317	2643329	2643329	2633357	2644433	2643358	2644655	2643348
	Canacona		2643333		108		2643696					2643355	
4.	Fire Station	2783320	2782330	2550274	108			2794318	2782325	2730019	2783736	2741100	2756309
	Verna												
5.	Fire Station	2759439	2763622	2670095	108	2763292	7855982212	2794145	2763234		2763224		2750246
	Cuncolim	2765707						2794151					

#### C) CENTRAL ZONE PONDA

Sl.	Fire Stations	Water	Elect.	Health	Ambulance	L.P.G. Eg.	Mutual	Collector/	Police	R.T.O	Municipality	Ex. Eng.	Forest
No		Supply	Dept.	Services		Cell	Aid	Dy.	Station		/ Panchayat	PWD	Dept.
							Agency	Collector /					
								Mamlatdar					
1.	Fire Station Ponda	2312081	2312190	2312116	108	2312604(B.P)	2284271	2312469	2313101	2312749	2312512	2312032	2312095
						2314764(H.P)	2284272	2312136			2312469	2315313	2312856
2.	Fire Station Old-Goa	2286116	2285797	2286334	108	2288142	2284271	2225533	2285301		2285734		2226772
						2218572	2284272	2425583					
3.	Fire Station Bicholim	2362300	2362034	2362050	108	2362057		2362058	2362233	2362225	2362282	2363410	2364931
						2364274		2363886			2364222		
4.	Fire Station Valpoi	2374224	2374244	2374260	108	7588443535		2374090	2374255	2374223	2374222	2374271	2374245
								2374243			9421154616	2374566	
												2374245	
5.	Fire Station Kundaim	2395228	2396160	2392230	108	2395225	2312512	2312469	2343433	2312749	2395216	2315313	2312095
				2287160				2312121	2399500		2395344		2312856

### PROVISION OF RE - INFORCEMENT

#### A) NORTH ZONE PANAJI

Sl.No.	Name of Fire Station	From Fire Stations	Distance (Kms)
		Fire Station Pilerne	14
1.	Fire Station Panaji	Fire Station Old-Goa	13
		Fire Station Mapusa	16
		Fire Station Pilerne	08
2.	Fine Station Manuse	Fire Headquarters Fire	16
2.	Fire Station Mapusa	Station Pernem Fire	18
		Station Bicholim	21
3.	Fire Station Pernem	Fire Station Mapusa	18
3.	The Station Lethem	Fire Station Bicholim	36
		Fire Station Verna	17
4.	Fire Station Vasco	Fire Station Old Goa	25
4.	THE Station Vasco	Fire Station Margao	32
		Fire Station Ponda	35
5.	Fire Station Pilerne	Fire Station Mapusa	08
٥.	THE Station I her he	Fire Station Panaji	14
6.	Fire Station Porvorim	Fire Station Panaji	09
0.	Fire Station Porvorim	Fire Station Pilerne	14

#### **B) SOUTH ZONE MARGAO**

Sl.No.	Name of Fire Station	From Fire Stations	Distance (Kms)
		Fire Station Verna	14
1.	Fire Station Margao	Fire Station Ponda	21
1,	Fire Station Margao	Fire Station Curchorem	24
		Fire Station Canacona	36
		Fire Station Margao Fire	22
2.	Fire Station Curchorem	Station Ponda Fire	25
		Station Canacona	45
3.	Fire Station Canacona	Fire Station Margao Fire	36
3.	Fire Station Canacona	Station Curchorem	45
		Fire Station Margao	14
4.	Fire Station Verna	Fire Station Old-Goa	17
4.	rife Station Verna	Fire Station Vasco	17
		Fire Station Ponda	26
5.	Fire Station Cuncolim	Fire Station Curchorem	14
		Fire Station Margao	15

#### C) CENTRAL ZONE PONDA

Sl.No.	Name of Fire Station	From Fire Stations	Distance (Kms)
1.	Fire Station Ponda	Fire Station Kundaim Fire Station Old-Goa Fire Station Curchorem Fire Station Valpoi	09 19 25 32
2.	Fire Station Old-Goa	Fire Station Kundaim Fire Headquarters Fire Station Verna Fire Station Ponda	09 13 17 19
3.	Fire Station Bicholim	Fire Station Mapusa Fire Station Valpoi	21 24
4.	Fire Station Valpoi	Fire Station Bicholim Fire Station Ponda	24 32
5.	Fire Station Kundaim	Fire Station Ponda Fire Station Old-Goa Fire Force Headquarters	09 09 23

Note:- The Station Fire Officer(HQ)/Communication Officer will act as a mobilization officer who on receipt of Brigade Call from Headquarters Fire Control Room shall mobilize the reinforcement as per Disaster Management Response Plan.

# FIRE HAZARDOUS PLACES

A) NORTH ZONE PANAJI

Name of Stations	INDL.E	RD	OTF	RD	LPG	RD	SAW	RD	THR	RD	HRB	RD	HTL	RD	PP	RD	MKT	RD km	MAH	<b>FCTRY</b>	SC
		km		km	GD	km	MIL	km		km		km		km		km					YD
Fire Station Panaji					03				04		266		36		10		01			42	21
Fire Station Mapusa											04				14					02	
Fire Station Pernem	01	3.5			03	14	04	14	01	01	-				03	16	01	0.5		29	01
Fire Station Vasco	03	08	03	10	04	03	02	03	02	03	71	05	06	05	08	10	02	02	06	62	33
Fire Station Pilerne	01	01			02	05	01	06			35	06	110	06	02	04	01	05		19	02
Fire Station Porvorim					01	03	01	03	01	01	-		01	02	02	02	01	01			

**B) SOUTH ZONE MARGAO** 

Name of Stations	INDL.E	RD	OTF	RD	LPG	RD	SAW	RD	THR	RD	HRB	RD	EXP	RD	HTL	RD	PP	RD	MKT	RD	MAH	<b>FCTRY</b>	SC
		km		km	GD	km	MIL	km		km		km	GD.	km		km		km		km			YD
Fire Station Margao	02	14	02	07	05	09	22	10	03	04	15	05	01	02	06	20	08	07	02	03	02	01	
Fire Station Curchorem	01	03			03	09	06	06	01	0.5	03	08			01		13	28	03	07		32	05
Fire Station Canacona		1			01	300 mtrs				1						1	04	400 mtrs	1				
Fire Station Verna	01	02	01	05	01	05							01	05	04	05	08	01	05	03	02	50	08
Fire Station Cuncolim	01	01			01	05	04	10	01	03					20	20	03	10	01	03		150	02

C) CENTRAL ZONE PONDA

c) certified		111111	-																				
Name of Stations	INDL.E	RD	OTF	RD	LPG	RD	SAW	RD	THR	RD	HRB	RD	EXP	RD	HTL	RD	PP	RD	MKT	RD	MAH	<b>FCTRY</b>	SC
		km		km	GD	km	MIL	km		km		km	GD.	km		km		km		km			YD
Fire Station Ponda	02	10			04	10	06	06	02	15	44	17			04	40	15	04	04	30		270	08
Fire Station Old-Goa	01	02			01	12	03	06			06	09			05	06	02	03	04	10	01	130	04
Fire Station Bicholim	01	02			02	09	03	18	02	08	03	08	01	10	01	04	09	25	02	08	01	94	23
Fire Station Valpoi	02	14			01	14	02	12	01						12	12	02	12	01	01	02	40	02
Fire Station Kundaim	01				01	04	01	05	01	11					02	04	05	04	03	03		428	

#### Note:

**INDL.E** = Industrial Estate HRB = Highrise Building 11. **MKT** Market

HTL Hotel **OTF** = Oil Tank Farm **12.** MAH Major Hazard Units

**LPG/GD** = Liquefied Petroleum Gas Godown 8. EXP GD =Explosive Godown 13. FCTRY =Factory

**SAW Mil** = Saw Mill RD Radius **14.** SC/YD Scrap Yard

5. THR = Theater 10. **PP** = Petrol Pump

# **WATER SOURCES**

A) NORTH ZONE PANAJI

Sl. No.	Name of Fire Station	F. H	OHR	CAP.	GLR	CAP.	WELL	CAP.	OWS	CAP
1	Fire Station Panaji		01	$10100 \text{ m}^3$	02	$140 \text{ m}^3$				
2	Fire Station Mapusa	01	01		100000					
3	Fire Station Pernem	01				-			01	$15000 \text{ m}^3$
4	Fire Station Vasco	01			03	$49500 \text{ m}^3$			01	$20 \text{ m}^3$
5	Fire Station Pilerne		01	$50 \text{ m}^3$	01	$100 \text{ m}^3$				
6	Fire Station Porvorim						01			

**B) SOUTH ZONE MARGAO** 

Sl. No.	Name of Fire Station	F. H	OHR	CAP.	GLR	CAP.	WELL	CAP.	OWS	CAP
1	Fire Station Margao	02		-	03	$1490 \text{ m}^3$			02	$62062 \text{ m}^3$
2	Fire Station Curchorem	01			01	125000 m <sup>3</sup>				
3	Fire Station Canacona	01	01	$800 \text{ m}^3$	01	$800 \text{ m}^3$	05	$32000 \text{ m}^3$	04	$32000 \text{ m}^3$
4	Fire Station Verna	14	02	$800 \text{ m}^3$	01	$8000 \text{ m}^3$				
5	Fire Station Cuncolim	07							03	$75000 \text{ m}^3$

C) CENTRAL ZONE PONDA

Sl. No.	Name of Fire Station	F. H	OHR	CAP.	GLR	CAP.	WELL	CAP.	ows	CAP
1	Fire Station Ponda	02			01	$375 \text{ m}^3$			01	$130000 \text{ m}^3$
2	Fire Station Old-Goa	02	02	$100 \text{ m}^3$						
3	Fire Station Bicholim	22	01	$150 \text{ m}^3$	14	5793 m <sup>3</sup>			01	
4	Fire Station Valpoi		01	$150 \text{ m}^3$	01	$4200 \text{ m}^3$				
5	Fire Station Kundaim		01	$10 \text{ m}^3$	02	$850 \text{ m}^3$				

Note:

1. **GLR** Ground Level Reservoir

2. **FH** Fire Hydrant

3. **OHR** Over Head Reservoir

4. **OWS** Open Water Sources

5. **CAP** Capacity in m<sup>3</sup>

# **DETAILS OF WATER SOURCES**

### A) NORTH ZONE PANAJI

Fire Station	Water Sources	Capacity	Location	Village, Taluka	Latitude	Longitude
Fire Station Panaji	GLR	100	Fire Station Panaji	St-Inez, Panaji	15.4862	73.8172
Fire Station Panaji	GLR	40	Near Training Ground, Fire Force Headquarters	St-Inez, Panaji, Tiswadi	15.4844	73.8161
Fire Station Panaji	OHR	10100	PWD Altinho	Altinho Panaji, Tiswadi	15.4876	73.8290
Fire Station Mapusa	GLR	100	Mapusa Fire Station	Mapusa Bardez	15.5897	73.8092
Fire Station Mapusa	OHR	50	Near Mapusa Fire Station	Mapusa Bardez	15.5897	73.8092
Fire Station Mapusa	FH	1	Near Mapusa Fire Station	Mapusa Bardez	15.5902	73.8089
Fire Station Mapusa	FH	1	Mapusa Bar Near Taxi Stand Mapusa Goa	Mapusa Bardez	15.5897	73.8110
Fire Station Mapusa	FH	1	Market Road Mapusa Municipal Market Mapusa	Mapusa Bardez	15.5888	73.8111
Fire Station Mapusa	FH	1	Stall No.87/88 New Municipal Market Mapusa	Mapusa Bardez	15.5887	73.8111
Fire Station Mapusa	FH	1	Shop No.171, New Municipal Market	Mapusa Bardez	15.5883	73.8117
Fire Station Mapusa	FH	1	Prestige Arcade, Market Road, Morod Mapusa	Mapusa Bardez	15.5878	73.8122
Fire Station Pernem	OWS	15000	Water Plant Chandel, Pernem Goa.	Pernem	15.7302	73.8974
Fire Station Pernem	FH	1	Near Court, Pernem	Pernem	15.7142	73.7975
Fire Station Vasco	FH	1	Fire Station Vasco	Vasco-Da-Gama,	15.3996	73.8200
Fire Station Vasco	GLR	46000	Indian Oil Corporation	Vasco-Da-Gama, Mormugao	15.3975	73.8068
Fire Station Vasco	GLR	2700	Ganesh Benzoplast	Headland Sada, Mormugao	15.4047	73.8003
Fire Station Vasco	GLR	800	Mangor, PWD Tanks	Mangor Hill, Mormugao	15.3855	73.8175
Fire Station Vasco	OWS	20	Near Sai Service	Chicalim, Mormugao	15.3974	73.8362
Fire Station Pilerne	GLR	100	Near Pilerne Industrial Estate, Bardez-Goa.	Pilerne, Bardez	15.5331	73.7940
Fire Station Pilerne	OHR	50	Near Pilerne Industrial Estate, Bardez-Goa.	Pilerne, Bardez	15.5331	73.7940
Fire Station Porvorim	OWS	15000	The Colosseum, Goa Housing Board, Porvorim	Penha de Franca, Bardez	15.524308	73.831492
Fire Station Porvorim	GWR	30	Cyclone Shelter	Penha de Franca, Bardez	15.5229065	73.7965339

## B) SOUTH ZONE MARGAO

Fire Station	Water Sources	Capacity	Location	Village, Taluka	Latitude	Longitude
Fire Station Margao	FH	1	Fire Station Margao	Aquem Margao	15.2692	73.9703
Fire Station Margao	GLR	1000	Near Junta Quarters	Monte Hill, Salcete	15.2780	73.9621
Fire Station Margao	FH	1	Near Police station	Comba Margao, Salcete	15.2744	73.9569
Fire Station Margao	GLR	440	Goa Carbon Ltd. Nr. Govt. Primary School Nessai	Nessai, Salcete	15.2609	74.0075

Fire Station	Water Sources	Capacity	Location	Village, Taluka	Latitude	Longitude
Fire Station Margao	GLR	50	Tech Force composite Pvt. Ltd	Nessai, Salcete	15.2604	74.0090
Fire Station Margao	OWS	50	near our lady of Amparo chapel	Seraulim, Salcete	15.2842	73.9306
Fire Station Margao	OWS	12	Monddo, Benaulim	Monddo, Salcete	15.2654	73.9387
Fire Station Curchorem	FH	1	Fire Station Curchorem	Quepem	15.2606	74.1033
Fire Station Curchorem	GLR	125000	Fire Station Curchorem	Curchorem Quepem	15.2606	74.1034
Fire Station Canacona	OHR	1600	Mokhard	Canacona, South	15.0067	74.0709
Fire Station Canacona	OHR	1600	Mokhard, Shristhal	Canacona, South	15.0067	74.0709
Fire Station Verna	FH	1	h1 near gati courrier verna industrial estate	Verna	15.3617	73.9533
Fire Station Verna	FH	1	Near Hp godown verna industrial estate verna	Verna	15.3629	73.9463
Fire Station Verna	OHR	400	WRD Verna, Verna Industrial Estate, Verna Goa.	Verna	15.3731	73.9283
Fire Station Verna	GLR	8000	Near WRD Verna Industrial estate, Verna Goa	Verna	15.3731	73.9283
Fire Station Verna	OHR	400	Near Iron Exchange, Verna Industrial Estate,	Verna	15.3617	73.9533
Fire Station Verna	FH	1	Near herald Printing Press, verna Industrial Estate	Verna	15.3708	73.9354
Fire Station Verna	FH	1	Near Cipla Gate (VII A), Verna Industrial Estate	Verna	15.3673	73.9381
Fire Station Verna	FH	1	Opp. Sanofi Company, Verna Industrial Estate	Verna	15.3654	73.9411
Fire Station Verna	FH	1	Near Coco-Cola LTD, Verna Industrial Estate,	Verna	15.3714	73.9472
Fire Station Verna	FH	1	Near B.P.C.L. Company, Verna Industrial Estate	Verna	15.3741	73.9481
Fire Station Verna	FH	1	Near Chaugule Work Shop, Verna IDC	Verna	15.3664	73.9509
Fire Station Verna	FH	1	Near Rogerberger Company, Verna IDC	Verna	15.3605	73.9531
Fire Station Verna	FH	1	Near Iron Exchange, Verna IDC	Verna	15.3635	73.9521
Fire Station Verna	FH	1	Marine Electrical (Phase IV), Verna IDC	Verna	15.3575	73.9496
Fire Station Verna	FH	1	Marine Electrical, Verna Industrial Estate, Verna	Verna	15.3581	73.9487
Fire Station Verna	FH	1	Near Fire Station, Verna Industrial Estate, verna	Verna	15.3695	73.9361
Fire Station Verna	FH	1	Near Mobilo Diagnostics, Verna Industrial Estate	Verna	15.3643	73.9742
Fire Station Cuncolim	FH	1	Cuncolim industrial estate	Cuncolim, Salcete	15.1810	74.0253
Fire Station Cuncolim	FH	1	Cuncolim industrial estate.	Cuncolim, Salcete	15.1811	74.0323
Fire Station Cuncolim	FH	1	Plot No L-28, cuncolim industrial estate	Cuncolim, Salcete	15.1817	74.0300
Fire Station Cuncolim	FH	1	Cuncolim industrial estate	Cuncolim, Salcete	15.1870	74.0297
Fire Station Cuncolim	FH	1	M-21, Cuncolim industrial estate	Cuncolim, Salcete	15.1848	74.0280
Fire Station Cuncolim	FH	1	Plot: SB-20 Cuncolim industrial estate	Cuncolim, Salcete	15.1835	74.0273
Fire Station Cuncolim	FH	1	Cuncolim industrial estate	Cuncolim, Salcete	15.1846	74.0260
Fire Station Cuncolim	OWS	22000	Cuncolim industrial estate	Cuncolim, salcete	15.1873	74.0241
Fire Station Cuncolim	OWS	25000	Sumul milk collection center savarcotto cuncolim	Cuncolim	15.1831	74.0060
Fire Station Cuncolim	OWS	15000	Nr. Masjid Demani, Cuncolim	Cuncolim, salcete	15.1700	74.0078

## **C)** CENTRAL ZONE PONDA

Fire Station	Water Sources	Capacity	Location	Village, Taluka	Latitude	Longitude
Fire Station Ponda	FH	1	Ponda Fire Station	Ponda	15.4032	74.0027
Fire Station Ponda	OWS	130000	Plant, Opa Khandepar	Ponda	15.4106	74.0540
Fire Station Ponda	GLR	375	United Spirits	Bethoda Ponda	15.3894	74.0272
Fire Station Ponda	FH	1	Ponda Fire Station	Ponda	15.4028	74.0030
Fire Station Old Goa	FH	1	opp Progress Industries, Plot No.c-26,27	Corlim, Tiswadi	15.4983	73.9312
Fire Station Old Goa	FH	1	Scoop Industries Pvt, plot No.13, Corlim IDC	Corlim, Tiswadi,	15.5002	73.9305
Fire Station Old Goa	OHR	50	ICAR, ELLA, Goa	Old-, Tiswadi	15.4979	73.9170
Fire Station Old Goa	OHR	50	Krishi Vigyan Kendra, ICAR, Ella Farm, OldGoa	Old -, Tiswadi,	15.4924	73.9207
Fire Station Bicholim	FH	1	Near ITI	Near ITI	15.5875	73.9530
Fire Station Bicholim	GLR	343	Nestle India Ltd	Maulinguem Bicholim	15.6187	73.9192
Fire Station Bicholim	FH	1	Near ITI	Bordem Bicholim	15.6036	73.9357
Fire Station Bicholim	FH	1	IDC Bicholim near Mamta Canteen	IDC Bicholim	15.5826	73.9543
Fire Station Bicholim	FH	1	Near M/s DPS Fabricator Works IDC	IDC Bicholim	15.5815	73.9550
Fire Station Bicholim	FH	1	Opposite to Pro Art	IDC Bicholim	15.5804	73.9555
Fire Station Bicholim	FH	1	Near Venus Ethoxy ltd. Gate no.5	IDC Bicholim	15.5829	73.9527
Fire Station Bicholim	FH	1	Near Rolling Mill	IDC Bicholim	15.5814	73.9564
Fire Station Bicholim	FH	1	Opposite to Goa Distilleries	IDC Bicholim	15.5809	73.9568
Fire Station Bicholim	FH	1	Near Venus Ethoxy ltd.plot no 105,111,116	IDC Bicholim	15.5826	73.9555
Fire Station Bicholim	FH	1	Near Venus Ethoxy Ltd .Office	IDC Bicholim	15.5832	73.9548
Fire Station Bicholim	FH	1	Opp.Goa Thermostat	IDC Bicholim	15.5838	73.9548
Fire Station Bicholim	FH	1	Near Koteshwar Engg.works	IDC Bicholim	15.5855	73.9532
Fire Station Bicholim	FH	1	Near S.K.Electric	IDC Bicholim	15.5815	73.9550
Fire Station Bicholim	FH	1	NEAR Blue Cube	IDC Bicholim	15.5842	73.9526
Fire Station Bicholim	FH	1	Near Grand Organic	IDC Bicholim	15.5833	73.9530
Fire Station Bicholim	FH	1	Near Raynau Engg.works	IDC Bicholim	15.5816	73.9535
Fire Station Bicholim	FH	1	Near S.B Fabricators	IDC Bicholim	15.5852	73.9524
Fire Station Bicholim	FH	1	Opposite to Gurukrupa Auto World	IDC Bicholim	15.5805	73.9555
Fire Station Bicholim	FH	1	Opposite to Alphagam	IDC Bicholim	15.5833	73.9539
Fire Station Bicholim	FH	1	Near to Jayshree Industries	IDC Bicholim	15.5840	73.9534
Fire Station Bicholim	FH	1	Near Prime Paper Ltd.	IDC Bicholim	15.5838	73.9528
Fire Station Bicholim	OHR	150	IDC Bicholim	IDC Bicholim	15.5839	73.9534
Fire Station Bicholim	GLR	150	IDC Bicholim	IDC Bicholim	15.5839	73.9534
Fire Station Bicholim	GLR	300	Mulgao	Mulgao Bicholim	15.6204	73.9080
Fire Station Bicholim	GLR	800	Lamgao	Bicholim	15.5869	73.9424

Fire Station	Water Sources	Capacity	Location	Village, Taluka	Latitude	Longitude
Fire Station Bicholim	GLR	800	sarvan	Bicholim	15.5747	73.9928
Fire Station Bicholim	GLR	800	Kodal Karapur	Karapur	15.5714	73.9949
Fire Station Bicholim	GLR	300	Karapur	Karapur Bicholim	15.5689	74.0016
Fire Station Bicholim	GLR	100	Pilgao	Bicholim	15.5573	73.9508
Fire Station Bicholim	GLR	300	PHC junction Sankhali	Bicholim	15.5576	74.0160
Fire Station Bicholim	GLR	150	Amona	Bicholim	15.5320	73.9901
Fire Station Bicholim	GLR	800	surla	Bicholim	15.4853	74.0324
Fire Station Bicholim	GLR	300	Velguem	Bicholim	15.4952	74.0398
Fire Station Bicholim	OWS	1	Mayem Lake	Bicholim	15.5757	73.9407
Fire Station Bicholim	GLR	300	Shirgao	Bicholim	15.6050	73.8974
Fire Station Bicholim	GLR	350	Nestle India Ltd.	Mauliguem Bicholim	15.6196	73.9662
Fire Station Bicholim	FH	1	Near Papers Products Ltd	IDC Bicholim	15.5838	73.9528
Fire Station Valpoi	OHR	150	Near Fire Station Valpoi	Valpoi Sattari	15.5309	74.1387
Fire Station Valpoi	GLR	4200	Water Treatment Plant Dabos Valpoi Sattari Goa.	Dabos Valpoi Sattari	15.5332	74.1512
Fire Station Kundaim	GLR	50	kundaim fire station premises	Kundaim	15.4629	73.9726
Fire Station Kundaim	OHR	10	Kundaim fire station premises	Kundaim	15.4629	73.9727
Fire Station Kundaim	GLR	800	Near kundil factory, opp acc alcon	Kundaim	15.4608	73.9631

#### Note:

GLR : Ground Level Reservoir cap. in m<sup>3</sup> 1.

 FH : Fire Hydrant cap. in m<sup>3</sup>
 OWS : Open Water Sources cap. in m<sup>3</sup> OHR : Over Head Reservoir cap. in m<sup>3</sup> 3.

# **MUTUAL AID AGENCIES**

### A) NORTH ZONE PANAJI

SI.	Name of Agency	Fire	A	Appliances		Equipment's	Fire
No.		Stations	WT	CFT	BA		Personnel
1.	Zuari Industries Ltd. Zuari					Chemical Suits, Fire	
	Nagar	01	01		01	Extinguisher, B.A. Sets, Foam Compound.	28
2.	M.P.T. Mormugao Harbour					As per Port Requirement.	24
3.	Indian Navy (NAD)	03	04	04		As per Defense Standards	As per Defense Standards
4.	Zuari Indian Oil Tanking Ltd						
5.	INS Hansa						
6.	Airport Authority of India						
7.	Western India Shipyard Ltd.						
8.	Hindustan Petroleum Corporation Ltd.						
9.	Indian Oil Corporation						
10.	Indian Molasses Co.Ltd.	01		02	05		
11.	Goa Shipyard Ltd.						
12.	Indian Coast Guard	01	02			Portable Fire Extinguishers	
13.	Deccan Fine Chemicals (India) Private Limited	01	01	01	01	Chemical Suits, Fire Extinguisher, B.A. Sets, Foam	17
						Compound.	

### B) SOUTH ZONE MARGAO

SI.	Name of Agency	Fire Stations		Appliances	}	Equipment's	Fire
No.			WT	CFT	BA		Personnel
1.	M.P.T. Mormugao Harbour	2	2			As per Port Requirement.	60
2.	Indian Navy (NAD)	3	4	4		As per Defense Standards	As per Defense Standards
3.	Deccan Fine Chemicals (India) Private Limited	1	1		1	Chemical Suits, Fire Extinguisher, B.A. Sets, Foam Compound.	28

### **C)** CENTRAL ZONE PONDA

SI.	Name of Agency	Fire Stations		Appliances	3	<b>Equipment's</b>	Fire Personnel
No.			WT	CFT	BA		
1.	Deccan Fine Chemicals (India) Private Limited	1	1	1	1	Chemical Suits, Fire Extinguisher, B.A. Sets, Foam Compound.	17

# **KEY PERSONNEL CHART**

Sl.	Designation	Function	Area	Telephone Numbers			
No.				Office	Mobile	Residence	
1.	Director	Chief Incident Commander	Goa State	2225500 2227616 7391047132	9763717052	2917220	
2.	Deputy Director (Fire)	Deputy Chief Incident Commander	South Zone Margao & Central Zone Ponda	2714600 2715825	9763717051		
3.	Asst. Divisional Officer	Deputy Chief Incident Commander	North Zone Panaji	2225500 2425101 7391047132	9763717054		
4.	Divisional Officer	Sub-Divisional Incident Commander	South Zone Margao	2714600 2715825 7391047144	9763717056		
5.	Asst. Divisional Officer	Sub-Divisional Incident Commander	Central Zone Ponda	2312044 2315863 7391047150	9763717053		
4.	Station Fire Officer/Officer in charge of various Fire Stations	Incident Commander	Fire Station Area	As per	Annexure – I		

## ANNEXURE – I

Key	Person t	o be contacted	Telephone Numbers						
Personnel	Name	Designation	Telephone	Mobile	e-mail	Fax	Resi.		
Directorate of Fire & Emergency Services	Shri. Nitin V. Raiker	Director	2225500 / 2227616 / 7391047132	9763717052	dir-fire.goa@nic.in	2226100	2917220		
South Zone Margao / Central Zone Ponda	Shri. Rajendra A. Haldankar	Dy. Director (Fire)	2714600 / 2715825 / 101	9763717051	ddf-fire.goa@nic.in	2714600 2715825			
North Zone Panaji	Shri. Shripad Gawas	Divisional Officer	2225500 / 2423101 / 7391047132	9763717054	donz-fire@goa.gov.in	2262900			
Central Zone Ponda	Shri. Rajendra A. Haldankar	Divisional Officer (Additional Charge)	2312044 / 2315863/ 7391047150	9763717051	docz-fire@goa.gov.in	2312044			
South Zone Margao	Shri. Francisco Mendes	Divisional Officer	2714600 / 2715825 / 101/ 7391047144	9763717056	dosz-fire@goa.gov.in	2714600 2715825			
Central Zone Ponda	Shri. Francisco Mendes	Asst. Divisional Officer (Additional Charge)	2312044 / 2315863 / 101/ 7391047150	9763717056	adocz-fire.goa@gov.in	2312044			
North Zone Panaji	Shri. Bosco Ferrao	Asst. Divisional Officer	2225500 / 2423101 / 7391047132	9763717054	adonz-fire.goa@gov.in	2262900			
South Zone Margao	Shri. Francisco Mendes	Asst. Divisional Officer (Additional Charge)	2714600 / 2715825 / 101/ 7391047144	9763717056	adosz-fire.goa@gov.in	2714600 2715825			
Fire Force HQ, Panaji	Shri. Dilip Gawas	Station Fire Officer	2225500 / 2425101/ 2423101/ 7391047132	8308846750	hq-fire.goa@nic.in	2225500			
Fire Station Panaji	Shri. Rupesh Sawant	Station Fire Officer	2225500 / 2425101 / 7391047132	8308846747	pnj-fire.goa@nic.in	2225500			
Fire Station Mapusa	Shri. Ganesh Govekar	Station Fire Officer	2262900 / 2263354/ 7391047134	9763717059	map- fire.goa@nic.in	2262900			
Fire Station Pernem	Shri. Namdev Parwar	Station Fire Officer	2201593 / 2201201/ 7391047133	8308846751	per-fire.goa@nic.in	2201201			

Key	Persons to	be contacted	Telephone Numbers						
Personnel	Name	Designation	Telephone	Mobile	e-mail	Fax	Resi.		
Fire Station Vasco	Shri. Dilip Bicholkar	Station Fire Officer	2513840 / 2519068 / 7391047142	8308846758	vas- fire.goa@nic.in	2513840			
Fire Station Pilerne	Shri. D. G. Pednekar	Station Fire Officer (Additional Charge)	2407100/ 2407101/ 7391047141	8308846739	pil-fire.goa@nic.in	2407101			
Fire Station Porvorim	Shri. D. G. Pednekar	Station Fire Officer	2411122 / 7391047140	8308846739	por-fire.goa@gov.in				
Fire Station Margao	Shri. Herculano Souza	Station Fire Officer	2714600 / 2715825/ 7391047144	9763717057	mrg-fire.goa@gov.in	2714600			
Fire Station Curchorem	Shri. Damodar Zambaulikar	Station Fire Officer	2650307/ 2605345/ 7391047147	9763717049	cur-fire.goa@nic.in	2650307			
Fire Station Verna	Shri. Dilesh Gaonkar	Station Fire Officer	2287085/ 2887122/ 7391047148	8308846762	vrn-fire.goa@nic.in	2887085			
Fire Station Canacona	Shri. Dhiraj Dessai	Station Fire Officer	2633500/ 2633311/ 7391047145	8308846743	can-fire.goa@nic.in	2633311			
Fire Station Cuncolim	Shri. Truptesh Naik	Station Fire Officer	2764744/ 7391047146	8308846742	cun-fire.goa@gov.in				
Fire Station Ponda	Shri. Sushil Moraskar	Station Fire Officer	2312044 / 2315863/ 7391047150	8308846759	pnd-fire.goa@gov.in	2312044			
Fire Station Bicholim	Shri. Rahul Dessai	Station Fire Officer	2362100 / 2361397/ 7391047153	8308846752	bic-fire.goa@nic.in	2362100			
Fire Station Valpoi	Shri. Santosh Gawas	Station Fire Officer	2374444/ 7391047165	8308846753	vap-fire.goa@nic.in	2374444			
Fire Station Kundaim	Shri. Sushil Moraskar	Station Fire Officer (Additional Charge)	2395455/ 7391047156	8308846759	kfs-fire.goa@nic.in	2395455			
Fire Station Old Goa	Shri. R. D. Parab	Sub- Officer	2285344/ 7391047155	8408091254	olg-fire.goa@nic.in	2285344			

\*\*\*\*\*\*\*\*\*