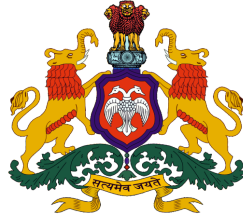




AERO INDIA **2023**

Disaster Management Plan for Aero India - 2023





GOVT. OF KARNATAKA

DISASTER MANAGEMENT PLAN FOR AERO INDIA - 2023



KARNATAKA STATE DISASTER MANAGEMENT AUTHORITY

**Revenue Department (Disaster Management)
Government of Karnataka**



Smt. Vandita Sharma., IAS



Chief Secretary
Government of Karnataka

FOREWORD

The 14th Edition of Aero India 2023-a Runway to Billion Opportunities, is being organized by the Defence Exhibition Organisation (DEO), MoD, Government of India. The Aero Show 2023 enables professionals from various industries to gain market insights and announce new and innovative developments in the respective sectors. It is indeed a joyful moment that AERO INDIA 2023, the Country's biannual air show and aviation exhibition, is being organized by the Ministry of Defence (MoD) from February 13-17, 2023, at Air Force Station, Yelahanka, Bengaluru.

AERO INDIA 2023 offers a unique platform to international aviation sectors to bolster business in the Aerospace & Defence sectors. It also provides an opportunity to demonstrate products to potential customers and investors, wherein, as of date, 639 Indian and 93 Foreign Exhibitors from 30 Countries across the Globe are participating in exhibiting their Defence & Aviation products.

Revenue Department (Disaster Management), Government of Karnataka, has designed the Aero India 2023 Disaster Management (DM) Plan, providing a framework to the Inter-Governmental agencies. The DM plan provides planning for managing Disasters and Emergencies, smooth coordination between on-site and off-site DM teams, preplanning of proper sequence of response actions, effective management of resources, removing arbitrary response to a disaster and having a defined response structure and allocation of responsibilities to the participating agencies.

I Congratulate the Commissioner, KSDMA, IAF, HAL and other Departments of the Government of Karnataka in formulating this DM plan and wish the Aero India Show 2023 a huge success.

Smt. Vandita Sharma., IAS
Chief Secretary



T K Anil Kumar., IAS



**Principal Secretary,
Revenue Department (DM)
Government of Karnataka**

PREFACE

The First edition of the air show was held in 1996, wherein many manufacturers and service providers from the Indian aerospace and aviation industry met the potential buyers of their products. Since then, the event has gradually earned International recognition and seen increased exhibitors' participation.

The biannual Aero India Show 2023 has been hosted since its first edition in 1996, which is meant for major exhibition shows in aerospace and defence industries along with a public air show showcasing the capabilities of the Indian Defence sector. Using the latest technologies for potential customers across the Globe, this Aero Show is expected to be attended by thousands of Exhibitors and lakhs of general visitors.

With a large crowd during the Aero Show, untoward incidents may lead to a disaster, causing loss of life and property. To minimize the impact of any disaster, the Government of Karnataka has formulated an Off-site Disaster Management (DM) Plan to cater for any untoward incidents in and around the Air Force premises. The Objective of the DM plan is to engage various departments, defining their roles & responsibilities to manage the disaster and reduce its impact as per various sections of the Disaster Management Act, 2005, which mandates various departments to prepare DM plans keeping mitigation, preparedness and response elements into consideration along with their duties.

An Incident Command System (ICS) is set up, providing scope to organize various functions and tasks within the overall response process while emphasizing greater coordination and communication, which is flexible and adaptable to suit any scale of natural as well as man-made emergency/incidents. The main intention of the ICS is to transform the confusion during the early stages of an emergency into a well-managed response process.

Standard Operating Procedures (SOPs) for functionalities in various fields of Fire, Law & Order, Health, Evacuation, Electricity, BWSSB, Fire & Emergencies, Communication, BBMP etc., have

been fully defined to ensure smooth functioning during the Aero India Show 2023. The Integrated Communications Command Center (ICCC), the brain and nerve centre, will coordinate all the activities pertaining to On-site and Off-site disaster management, enable coordination among all stakeholders, and bring synergy in response, invariably leading to optimization of available resources in real-time.

With contributions from Indian Air Force and various Organisations, all efforts are taken to make this Aero India Show 2023 a grandeur in handling emerging dimensions more effectively.

I thank Dr. Manoj Rajan, Commissioner, KSDMA and his team for the Inter-departmental coordination and for bringing out this Geospatial Aero India DM Plan 2023.



T K Anil Kumar., IAS
Principal Secretary,
Revenue Department (DM)



Dr. Manoj Rajan



Commissioner
KSDMA
Revenue Department (DM)
Government of Karnataka

ACKNOWLEDGEMENT

I am deeply grateful to the Defence Exhibition Organisation (DEO), Ministry of Defence, Government of India and the Chief Secretary, Government of Karnataka, for their unwavering commitment and dedication in organizing the 14th edition of Aero India 2023, a Runway to a Billion Opportunities, in Bengaluru. The Government of Karnataka extends a warm welcome to all esteemed dignitaries from India and foreign exhibitors from various countries to participate in the Aero India Show 2023.

I extend my utmost appreciation to Air Commodore Shri. Mukesh Kumar Yadav, VM (G), for his exceptional leadership in heading the Aero India Show 2023 for his invaluable contributions. My sincerest thanks to Shri. T K Anil Kumar, IAS, Relief Commissioner & Principal Secretary, Revenue Department (DM), Government of Karnataka, for his insightful inputs in integrating the Off-site and On-site Disaster Management plan.

I extend my gratitude to Shri. Dayananda, IAS, Deputy Commissioner, Bengaluru Urban, for his contributions in securing the necessary resources for the Aero Show, Shri. S G Mane, DGM (S), Hindustan Aeronautics Limited for his valuable contributions in providing the Mock drill plans and to the senior officials of Air Force Station, Yelahanka who have provided their valuable inputs to the On-Site & Off-Site Disaster Management Plan during the Aero Show.

I also extend my sincere thanks to the senior Police Personnel from Law & Order, Traffic, IB, and Bengaluru City Police in providing the layouts, surveillance and security inputs to the Aero Show and to Dr. Prabhuraj, Director, Karnataka State Remote Sensing Applications Centre and his team for providing mapping skills and necessary assistance in preparing this Geospatial DM plan and further developing an Mobile app. I also acknowledge the support extended by all the nodal departmental officers of the Government of Karnataka who have immensely supported in shaping up the Aero India Disaster Management Plan 2023.

I also extend my appreciation to the NDRF, RAF, CRPF, KSRPF, Anti-sabotage squad, and bomb detections units, who are invaluable assets during the Aero India show.

Lastly, I would like to express my heartfelt gratitude to Sqn Ldr Senin Basheer from IAF, Ms Emily Prabha from KSNDMC and all individuals who have been instrumental in providing valuable suggestions and assistance during the finalization and design of this Aero India Disaster Management Plan 2023.

Dr. Manoj Rajan
Commissioner, KSDMA
Revenue Department (DM)

EXECUTIVE SUMMARY

AERO INDIA 2023 exhibition, the 14th Edition of Aero India 2023, a Runway to a Billion Opportunities, is being organized at the Air Force Station, Yelahanka, Bengaluru, Karnataka. The Yelahanka Air Force Station is close to the Kempegowda International Airport (KIA), Bengaluru and is distanced by about 20 Km running adjacent to the National Highway 7 connecting Hyderabad. The Show is organized by the Defence Exhibition Organisation (DEO), Ministry of Defence, Government of India. This biennial air show has been hosted since its first edition in 1996, meant for major exhibition shows for aerospace and defence industries along with a public air show. This exhibition enables industry professionals to gain market insights, announce new developments and gain media coverage.

AERO INDIA 2023 offers a unique platform to international aviation sectors to bolster business in Aerospace & Defence. It also provides an opportunity to demonstrate products to potential customers and investors, wherein 484 Indian and 33 Foreign Exhibitors from 21 Countries will be participating and exhibiting their Defence & Aviation products using the latest technologies to potential customers across the Globe. Thousands of business visitors and lakhs of general visitors will likely attend this important international event.

A Disaster Management (DM) Plan is designed to provide a framework and direction to Government agencies during all phases of the disaster management cycle. The DM plan during the Aero Show 2023 provides planning for managing Disaster and Emergencies, smooth coordination between on-site and off-site DM teams, preplanning of proper sequence of response actions, effective management of resources, removing arbitrary response to a disaster and having a defined response structure, allocation of responsibilities to the participating agencies.

No single agency or department can handle a disaster of any scale alone. Different departments must work together to manage the disaster to reduce its impact. Section 37(a) of the Disaster Management Act, 2005 mandates that departments prepare disaster management plans keeping mitigation, preparedness and response elements into consideration. Sections 22(2), 24, 30 and 34 of the Disaster Management Act, 2005 have laid down various duties relating to Disaster Management to be performed by various agencies.

An OFF-SITE DM Plan has been formulated and executed by the Revenue Department (DM), along with concerned departments of the State Government. The areas falling under the purview of the Off-site DM Plan include all the surrounding AF Station Yelahanka. This Plan will help reduce the time taken in mobilizing resources for an effective response and enable a harmonious relationship among all stakeholders. The Plan delineates the roles & responsibilities of all concerned departments, agencies, etc., thereby eliminating any scope for ambiguities in the roles of any stakeholder. More importantly, the Plan identifies trigger points for various response actions and integrates such actions in an appropriate response matrix as per the SOPs of the concerned department/agency.

To contain COVID-19 in the current situation, the Plan is also rigorously implementing the prevalent National Directives for containment of COVID-19. The DM plan is prepared based on the spatial analysis of the venue and the surroundings, identifying probable hazards, resource mapping, SOPs, and Incident Command Control Centre (ICCC) along with contact details of resources.

The decision support system, the first of its kind, utilizing the Karnataka Geographical Information System (K-GIS), has been used for geospatial mapping, wherein an exclusive portal and mobile application are also developed as a part of the decision support system. The Entire area of Onsite and Offsite is divided into Grids (9 nested grids of 5 x 5 km), Sub

grids (25 sub-grids of 1 x 1 km in each 5 km grid) and Micro-grids (100 micro-grids of 100 x 100 meters in each 1 km sub-grid). The grid mapping system is designed to map the resources to each grid effectively.

The following conceivable hazard and risks are likely to occur during the Aero Show 2023, namely COVID-19; Fire; Collapse of structure; Stampede; Air Crash; Radiological and Nuclear emergency; Terror attack/drone attack / cyber attack; Extreme Weather; Drinking water; Food poisoning and Others. Measures such as generic, response, mitigation, awareness, and avoiding attacks must be taken to run the Show successfully.

An Incident Command System (ICS) is a setup that provides scope to organize various functions, tasks and staffs within the overall response process while emphasizing greater coordination and communication among different organizations involved, wherein the ICS system is flexible and adaptable to suit any scale of natural as well as man-made emergency/incidents. The main intention of the ICS is to transform the confusion during the early stage of an emergency into a well-managed response process. The Incident Response System (IRS) Guidelines were issued by the National Disaster Management Authority (NDMA) under Section 6 of the DM Act, 2005, for effective, efficient and comprehensive management of disasters. Incident Commanders, Deputy Incident Commanders, Assistant Incident Commanders and sectoral officers are deputed to review the hazard-specific response plan as per the SOPs.

Standard Operating Procedures (SOPs) for various functionalities in the fields of Fire, Law & Order, Health, Evacuation, management of Injured & Dead, Staging area, Air Force station area, Electricity, BWSSB, Bando bust, Fire & Emergencies, Communication, Closure of fish ponds, Disposal of solid waste, PWD, Finance & Budgetary support, Food & Refreshments, Mobilization of vehicles, Mock drills along with functions of various departments have been fully defined to ensure smooth functioning of the Aero India Show 2023.

Integrated Communications Command Center (ICCC), the brain and nerve centre for coordinating all on-site and off-site disaster management and security activities, will be activated, enabling coordination among all stakeholders and bringing in synergy in response, invariably optimizing available resources in real time.

Media - print, voice or visual, is an organized means of reaching a large number of people quickly, effectively and efficiently. They will disseminate the correct information appropriately, ensuring a purposeful, accurate, efficient and effective implementation.

Contact details of Aero Show in terms of Senior Officers, Senior Police Officers, Senior Officers-Central services, Senior Officers-Disaster & Emergency Management, Departmental Nodal officers, Deputy Incident Commander, and Assistant Incident Commanders have been included in the Aero India Plan.



Dr. Manoj Rajan

Commissioner

KSDMA

Revenue Department (DM)

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I. AERO INDIA 2023

INTRODUCTION

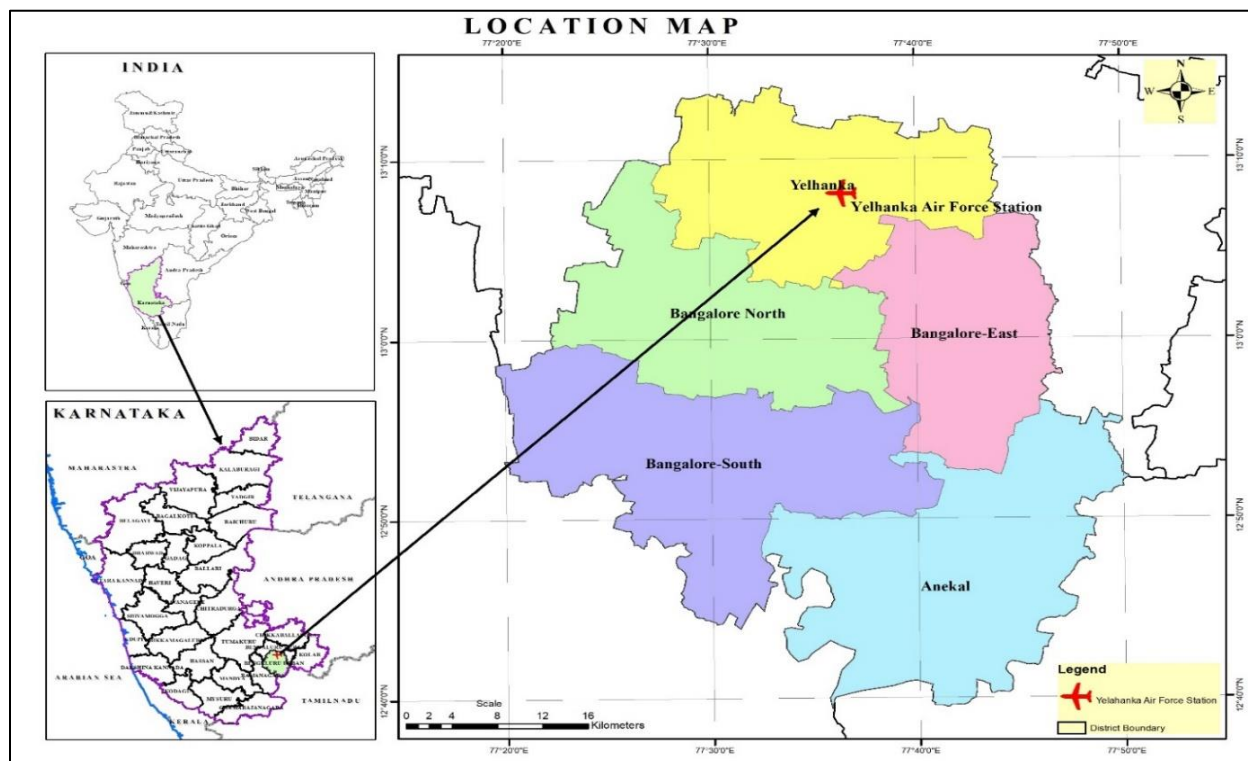
AERO INDIA exhibition is organized every alternate year. It is one of the major exhibitions for aerospace and defence industries with a public air show. It enables industry professionals to gain market insights, announce new developments and gain media coverage. Aero India offers a unique platform to the international aviation sector to bolster business.

AERO INDIA 2023 provides an opportunity to demonstrate products to potential customers and investors. In Aero India, 2023 exhibitors will likely showcase their products using the latest technologies to potential customers. This is an important international event likely to be attended by thousands of business visitors and lakh general visitors.

Aero India, the prestigious international Air show, is being held at Air Force Station Yelahanka (AFS Yel) from 13th February to 17th February 2023. Several aeronautical companies, Indian as well as foreign, are taking part in the Air Show. Various types of helicopters, fighters, and transport aircraft will be on static and flying display. Many service personnel and civilians, including various dignitaries, are expected to witness this prestigious Show. The number of daily visitors, including service personnel, will likely range from fifty to eighty thousand.

With a large crowd at the venue of the Air Show, any untoward incident like an air crash, bomb explosion, hangar collapse, stampede, and fire will lead to a disaster. To minimize the impact of any such disaster, the organizers must formulate an on-site Disaster Management (DM) Plan and be prepared for its successful execution. Off-site Disaster Management Plan will be formulated on similar lines to cater for any untoward incident outside the Air Force premises. The same will be executed by State Disaster Management Authority (SDMA).

LOCATION: AIR FORCE STATION, YELAHANKA, BENGALURU



Air Force Station, Yelahanka, Bengaluru, Karnataka, has yet again been chosen to host the 14th edition of AERO INDIA 2023 from 13th February to 17th February 2023. The Yelahanka Air Force Station (formerly RAF Yelahanka) is an Indian Air Force airfield in Yelahanka, Bengaluru, in Byatarayanapura Assembly Constituency. The primary role of this airfield is to train pilots to fly transport planes. This station also conducts type-conversion of navigators on the Antonov An-32. The station undertakes logistics support tasks allotted by Air Head Quarters.

The Yelahanka Air Force Station is close to the Kempegowda International Airport (KIA) and is distanced 20 Km running adjacent to the National Highway 7 and connecting Hyderabad.

- *Coordinates of the Station: 13°08'09"N Latitude; 77°36'27"E Longitude*
- *Elevation (Above MSL): 888 meters and Length of the Runway: 3,004 mtrs.*

Bengaluru will likely have pleasant weather with clear skies and calm winds during February. The Normal monthly rainfall is 5 mm, with average rainy days of less than two days, and the average minimum & maximum temperatures vary between 18° C to 31° C respectively. Fog/mist likely during early morning hours. Occasionally, thunder activity is likely with a 5-10% probability.



II. DISASTER MANAGEMENT PLAN

Disaster means a catastrophe, mishap, calamity or grave occurrence in any area, arising from natural or man-made causes, or by accident or negligence which results in substantial loss of life or human suffering or damage to, and destruction of, property or damage to, or degradation of, environment, and is of such a nature or magnitude as to be beyond the coping capacity of the community of the affected area.

The Disaster Management Plan (DMP) provides a framework and direction to the Government agencies for all phases of the disaster management cycle.

OBJECTIVES OF DISASTER MANAGEMENT PLAN

- A formal plan for managing Disasters and Emergencies.
- Smooth coordination between on-site and off-site DM teams.
- Preplanning of proper sequence of response actions.
- Effective management of resources.
- To remove arbitrary response to a disaster.
- Have a defined response structure and allocation of responsibilities to the participating agencies.

PREPAREDNESS AND RESPONSE

Response measures are taken immediately after receiving a warning from the relevant authority, in anticipation of an impending disaster, or immediately after an event without any warning. The primary goal of responding to a disaster is saving lives, protecting property and the environment, and meeting the basic needs of humans and other living beings after the disaster. Its focus is on rescuing those affected and those likely to be affected by the disaster. Disaster response predominantly focuses on immediate and short-term needs and is also called disaster relief. The practical, efficient and timely response relies on disaster risk-informed preparedness measures, including developing the response capacities of individuals, communities, organizations, countries and the international community. "Emergency services" are a critical set of specialized agencies with specific responsibilities in serving and protecting people and property in emergency and disaster situations. They include civil protection authorities, police and fire services, among many others.

Preparedness is based on a sound analysis of disaster risks and good linkages with early warning systems.

It includes such activities as contingency planning, stockpiling equipment and supplies, the development of arrangements for coordination, evacuation and public information, and associated training and field exercises. The related term “readiness” describes the ability to quickly and appropriately respond when required. Based on the preparedness, the response process begins as soon as it becomes apparent that a disastrous event is imminent and lasts until the disaster is declared to be over. It is conducted during periods of high stress in highly time-constrained situations with limited information and recourses. It is considered the most visible among various phases of disaster management.

The response includes activities that directly address immediate needs, such as search and rescue, first aid and temporary shelters, and rapid mobilization of various systems necessary to coordinate and support the efforts. For an effective response, all the stakeholders need to have a clear vision of hazards, and their consequences, clarity on plans of action and be well-versed in their roles and responsibilities. Any emergency requires a quick response to save lives, contain the damage and prevent secondary disasters. In most cases, the first responders, such as members of Incident Response Teams (IRT) or other agencies (medical fire, police, civil supplies, and municipalities), manage emergencies immediately at the local level. If an emergency escalates beyond their capabilities, the local administration must seek assistance from the district administration or the State Government.

No single agency or department can handle a disaster of any scale alone. Different departments must work together to manage the disaster to reduce its impact. Section 37 (a) of the Disaster Management Act, 2005 mandates that departments prepare disaster management plans keeping mitigation, preparedness and response elements into consideration. Sections 22 (2), 24, 30 and 34 of the Disaster Management Act, 2005 have laid down various duties relating to Disaster Management to be performed by various agencies.

At the State level, the state Government has assigned nodal responsibilities to specific departments for coordinating the disaster-specific response. The Department of Revenue (Disaster management) will coordinate response in the event of any disaster. The SDMA will provide the technical support needed to strengthen the response system.

ACTION PLAN

The following aspects have been considered while preparing the Disaster Management (DM) Plan for AI-2023:

- Previous experiences in handling Aero India.
- The need for a centralized command centre in case of any eventuality can be considered a disaster. There is a need to amalgamate various operating procedures to synergize the efforts of all elements of the DM team towards the common goal of minimal injuries to personnel and reduced destruction to the property during AI-23.
- The DM plan will be activated on the instructions of the OIC Operations Control Centre (OCC) and will activate the associated services in case of a disaster. The Command and control of the DM plan's activation will remain with the OIC DM, and off-site disaster will remain with SDMA.

OFF-SITE DISASTER MANAGEMENT PLAN

The Off-site Disaster Management Plan refers to a structured and planned response to any emergency/disaster outside the Indian Air Force Station premises related to AERO INDIA show. The Off-site DM Plan has been formulated and executed by the Revenue Department, DM, along with concerned departments of the State Government. The areas under the Off-site DM Plan's purview include all the surrounding AF Station Yelahanka.

The Off-site DM plan is to help reduce the time taken in mobilizing resources for an effective response and enable a harmonious relationship among all stakeholders. The Plan delineates the roles and responsibilities of all concerned departments, agencies, etc., thereby eliminating any scope for ambiguities in the roles of any stakeholder. More importantly, the Plan identifies trigger points for various response actions and integrates such actions in an appropriate response matrix as per the SOPs of the concerned department/agency.

Occasionally, an entirely new and unforeseen crisis may warrant an entirely different response, which the Plan may not have catalogued. However, experience has shown that practical and prudent DM plans backed with team building and mock drills have enabled handling such unforeseen crises with greater alacrity and impact.

PREPARATION OF OFF-SITE EMERGENCY PLAN

The process of formulation of the Off-site Emergency Plan was initiated through a Meeting chaired by Commissioner, Karnataka, State Disaster Management Authority (KSDMA), on 12-12-2022 with officers of IAF, HAL, BBMP, Deputy Commissioners Bengaluru Urban and Rural Districts, Bengaluru City Police and Fire and Emergency Services, Officers of KRSAC and KSNDMC. The approaches for integrated Plans, i.e., the convergence of On-site and Off-site plans, were deliberated and also new dimension of COVID-19 was factored in. The roles and SOPs of the department were discussed. Thereafter, it was followed by two meetings chaired by Commissioner KSDMA. Novel ideas, inputs and comments were sought from all concerned departments and agencies, which were suitably incorporated into the Plan.

In planning and managing international events like AERO INDIA, stakeholders concerned with Disaster Management (on-site and off-site) should plan for the hazard-specific worst-case scenarios. In the current situation containing COVID-19, there is a need to rigorously implement prevalent National Directives for the containment of COVID-19. The DM plan is prepared based on the spatial analysis of the venue and the surroundings, probable hazards, resource mapping, SOPs, and Incident Command Control Centre (ICCC). The resource mapping will be done based on the concerned departments' requirements, roles and responsibilities.

The Plan also helps define response structure, allocate responsibilities to the participating agencies, effectively manage resources and resource inventory, and develop codes and standard operating procedures for smooth coordination between various departments and relief agencies.

The off-site DM Plan aims to

- Prevent Disasters
- Minimize the effects of the accident on people and property
- Initiate the rescue and medical treatment of casualties
- Safeguard other people
- Evacuate people to safe areas with care
- Collaborate with statutory local and state authorities
- Provide credible information to news media
- Bring the incident under control

- Preserve relevant records and equipment for the subsequent enquiry into the cause and circumstances of the emergency
- Investigate and take steps to prevent the recurrence of similar incidents

OFF-SITE DISASTER MANAGEMENT PLAN COMPONENTS

The components of the DM plan are:

1. Spatial analysis of the venue and its surroundings
2. Identification of conceivable hazards and risks during the AERO INDIA
3. Incident Response System and responsibility matrix
4. Contact details of resources and Resource persons

DECISION SUPPORT SYSTEM THROUGH KARNATAKA GEOGRAPHICAL INFORMATION SYSTEM

Modern technologies, combined with remotely sensed data in the GIS environment, open a wide field for assisting crisis management. An emergency response plan plays a crucial role in the effective response, saving lives and property during an untoward incident. Real-time geographic data can improve the allocation of resources for response. It is also providing a decision support system in disaster management. Situational awareness is the key to disaster and emergency management during events like AERO INDIA. GIS techniques are vital in providing locational information about the event, that is, where the incident happened and what is happening in real time.

The GIS map interface is essential in handling emergency conditions. Field data is critical in GIS applications, and Mobile GIS provides crucial information. The concerned team in the field captures the field situation, so ground information useful for recognizing actual event conditions is known, and a suitable response can be planned.

Karnataka GIS (KGIS) platform is used for geospatial mapping along with an exclusive GIS-based web portal and mobile application for geographical analysis. The 5 km buffer zone from Airbase is the area of interest covered for disaster management.

GIS PORTAL AND APP FOR AERO SHOW

An exclusive GIS portal has been developed by Karnataka State Remote Sensing Application Centre (KSRSAC) <https://kgis.ksrsac.in/aeroindia/> for AERO SHOW integrated with on-site and off-site DM Plan.

The resources deployed by each department shall be geo-tagged through the Asset mapping App of developed by KRSAC. All grid maps and other customized maps shall be uploaded to this portal. The GIS maps are displayed in ICCC as a decision support system.

The deployment of teams and equipment by all concerned departments shall be uploaded in the portal for resource mapping and coordinated response. Mobile App will also be developed for field teams for incident reporting, resource mapping, and identification. Mobile App shall also be developed for visitors to identify various amenities, car parking, food courts etc.,

SPATIAL ANALYSIS OF THE VENUE AND SURROUNDINGS

The spatial analysis of the Air Force Station, Yelahanka, and its surroundings has been carried out. A base map has been generated where resources and other attributes are mapped in different layers to facilitate planning and executing the Disaster Management Plan for AERO INDIA 2023. The Entire area of Onsite and Offsite is divided into Grids, Sub grids and Micro grids.

- **Grid:** The layout map of the venue and surrounding area up to 5 km radius has been prepared as a nested grid of 5 km x 5 km Grid. There will be 9 grids starting from 1 to 9. The center grid is numbered 5.
- **Sub Grid:** Further, the 5 km x 5 km Grid is divided into 1 km x 1 km Sub-grids with appropriate markings for the users to comprehend. The sub-grids are numbered from A and are 25 in number in each 5 km x 5 km Grid.
- **Micro grids:** Further, the 1 km x 1 km sub-grids are subdivided into 100m x 100m Micro grids. The Micro grids are 100 in each sub-grid and numbered from 00-99.

As each grid, Sub grid, and Micro grids are uniquely numbered; stakeholders may map the assets and resources to each grid. The entire data will be mapped digitally on the map, which will help have a bird's eye view of the venue and help manage the resource effectively. For the first time, an exclusive GIS portal has been developed by Karnataka State Remote Sensing Application Centre (KRSAC) <http://kgis.krsac.in/aeroindia> for AERO SHOW 2023 where in on-site and off-site DM Plan are integrated. The resources deployed by each department shall be geo-tagged through the Asset mapping App of KRSAC. All grid maps and other customized maps shall be uploaded to this portal. The GIS maps are displayed in ICCC as a decision support system.



Aero India - 2023 Grid System

13 - 17 February 2023
Bengaluru



05K Grid Number System

1	2	3
4	5	6
7	8	9

01K Grid Number System

A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
F	G	H	I	J	F	G	H	I	J	F	G	H	I	J
K	L	M	N	Z	K	L	M	N	Z	K	L	M	N	Z
P	Q	R	S	T	P	Q	R	S	T	P	Q	R	S	T
U	V	W	X	Y	U	V	W	X	Y	U	V	W	X	Y
A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
F	G	H	I	J	F	G	H	I	J	F	G	H	I	J
K	L	M	N	Z	K	L	M	N	Z	K	L	M	N	Z
P	Q	R	S	T	P	Q	R	S	T	P	Q	R	S	T
U	V	W	X	Y	U	V	W	X	Y	U	V	W	X	Y
A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
F	G	H	I	J	F	G	H	I	J	F	G	H	I	J
K	L	M	N	Z	K	L	M	N	Z	K	L	M	N	Z
P	Q	R	S	T	P	Q	R	S	T	P	Q	R	S	T
U	V	W	X	Y	U	V	W	X	Y	U	V	W	X	Y

100 m Grid Number System

00	01	02	03	04	05	06	07	08	09
10	11	12	13	14	15	16	17	18	19
20	21	22	23	24	25	26	27	28	29
30	31	32	33	34	35	36	37	38	39
40	41	42	43	44	45	46	47	48	49
50	51	52	53	54	55	56	57	58	59
60	61	62	63	64	65	66	67	68	69
70	71	72	73	74	75	76	77	78	79
80	81	82	83	84	85	86	87	88	89
90	91	92	93	94	95	96	97	98	99

Partners:



Maps to be used for Official Purpose Only

Prepared by : K-GIS, KRSAC



Aero India - 2023 Grid System

13 - 17 February 2023
Bengaluru



01K Grid Number System

A	B	C	D	E	A	B	C	D	E	A	B	C	D	E					
F	1	G	H	I	J	F	G	2	H	I	J	F	G	H	3	I	J		
K	L	M	N	O	P	K	L	M	N	O	P	K	L	M	N	O	P		
Q	R	S	T	U	V	Q	R	S	T	U	V	Q	R	S	T	U	V		
W	X	Y	Z	A	B	W	X	Y	Z	A	B	W	X	Y	Z	A	B		
C	D	E	F	G	H	C	D	E	F	G	H	C	D	E	F	G	H		
I	J	K	L	M	N	I	J	K	L	M	N	I	J	K	L	M	N		
O	P	Q	R	S	T	O	P	Q	R	S	T	O	P	Q	R	S	T		
U	V	W	X	Y	Z	U	V	W	X	Y	Z	U	V	W	X	Y	Z		
A	B	C	D	E	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
F	G	H	I	J	F	G	H	I	J	F	G	H	I	J	F	G	H	I	J
K	4	L	M	N	O	K	L	5	M	N	O	K	L	M	6	N	O	P	Q
P	Q	R	S	T	P	Q	R	S	T	P	Q	R	S	T	P	Q	R	S	T
U	V	W	X	Y	U	V	W	X	Y	U	V	W	X	Y	U	V	W	X	Y
A	B	C	D	E	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
F	G	H	I	J	F	G	H	I	J	F	G	H	I	J	F	G	H	I	J
K	L	M	N	O	K	L	M	N	O	K	L	M	N	O	K	L	M	N	O
P	Q	R	S	T	P	Q	R	S	T	P	Q	R	S	T	P	Q	R	S	T
U	7	V	W	X	Y	U	V	8	W	X	Y	U	V	W	9	X	Y	Z	A
A	B	C	D	E	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
F	G	H	I	J	F	G	H	I	J	F	G	H	I	J	F	G	H	I	J
K	L	M	N	O	K	L	M	N	O	K	L	M	N	O	K	L	M	N	O
P	Q	R	S	T	P	Q	R	S	T	P	Q	R	S	T	P	Q	R	S	T
U	V	W	X	Y	U	V	W	X	Y	U	V	W	X	Y	U	V	W	X	Y

Partners:



Maps to be used for Official Purpose Only

Prepared by : K-GIS, KRSAC

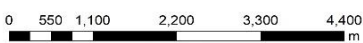


Aero India - 2023

13 - 17 February 2023
Bengaluru

**Partners:**

Karnataka State Disaster Management Authority	Karnataka State Natural Disaster Monitoring Centre	Karnataka State Remote Sensing Applications Centre	Indian Air Force	Hindustan Aeronautics Limited
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Scale = 1:16,000

Maps to be used for Official Purpose Only

The grid is a 10x10 array of cells. Each cell contains a number (1-9) and a letter (A-J). The grid is divided into four quadrants by a central 2x2 grid of cells. The central cells are shaded blue. The bottom-left quadrant is shaded red. The top-right quadrant is shaded green. The bottom-left quadrant is shaded red. The top-right quadrant is shaded green.

F	E	1	2	F	E	1	2	F	E
K	A	1	2	K	A	1	2	K	A
M	B	3	4	M	B	3	4	M	B
G	H	3	4	G	H	3	4	G	H
P	C	1	2	P	C	1	2	P	C
F	E	1	2	F	E	1	2	F	E
K	A	1	2	K	A	1	2	K	A
M	B	3	4	M	B	3	4	M	B
G	H	3	4	G	H	3	4	G	H
P	C	1	2	P	C	1	2	P	C
F	E	1	2	F	E	1	2	F	E
K	A	1	2	K	A	1	2	K	A
M	B	3	4	M	B	3	4	M	B
G	H	3	4	G	H	3	4	G	H
P	C	1	2	P	C	1	2	P	C
F	E	1	2	F	E	1	2	F	E
K	A	1	2	K	A	1	2	K	A
M	B	3	4	M	B	3	4	M	B
G	H	3	4	G	H	3	4	G	H
P	C	1	2	P	C	1	2	P	C

Legend

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Prepared by : K-GIS, KRSRAC



Scale = 1:16,000

- NMIT Bus Stop
- Campus
- DHR
- SWI
- Gates
- IAF Air Ambulance
- IAF Ambulance
- IAF TFL
- AGNI
- CPT
- FI
- GRV
- RV
- IVB
- WI
- Toilets
- Food Court
- IAF Hospitals
- ADWA Ticket C

- Chapel
- Hall
- Registration Counter
- Integrate Lounge
- Parking
- YMCA Public Housing
- Screening Lounge
- ORP Accommodation
- Conservancy Service
- Control Center
- Convention & Business Center
- Bag Squad Rooms
- Pod Court
- Smoking Booth
- IFWA
- Offloading Space Reserved for Crowd Management
- Respiral Area
- Media Pavilion
- Doctors

Prepared by : K-GIS, KRSRAC



Aero India - 2023

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Bengaluru



Partners:



0 115 230 460 690 920 m

Scale = 1:16,000

Maps to be used for Official Purpose Only

Grid Framework

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78
79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104

Legend

- NAT Bus Stop
- Campes
- CHM
- UNV
- Gate
- AF Air Ambulance
- AF Ambulance Squads
- AF HPTL
- ACN
- CPH
- CPV
- RV
- VBI
- VVI
- Takes
- FoodChart
- AF Hospitals
- ADVA Ticket Counter
- Chalet
- Hall
- Registration Counter
- Disrupt Storage
- Parking
- AUTS Public Hangar
- Aeron Losses
- CAR Accommodation
- Conservancy Service
- Control Center
- Convention & Museum Centre
- Drop Based Store
- Food Court
- Prinking Booth
- Prifix
- Hoisting Space Reserved for Crowd Management
- Religious Area
- Isola Pavilion
- Restroom
- YATTA Outside Area

Prepared by : K-GIS, KSR SAC



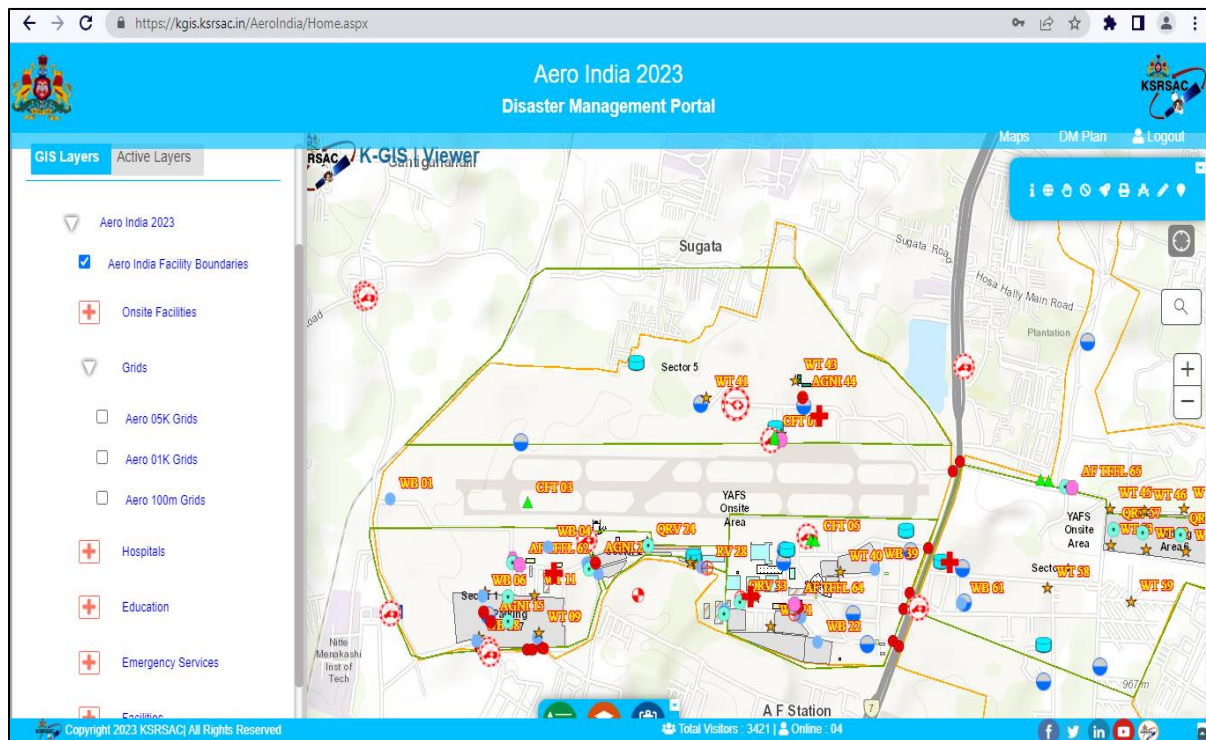
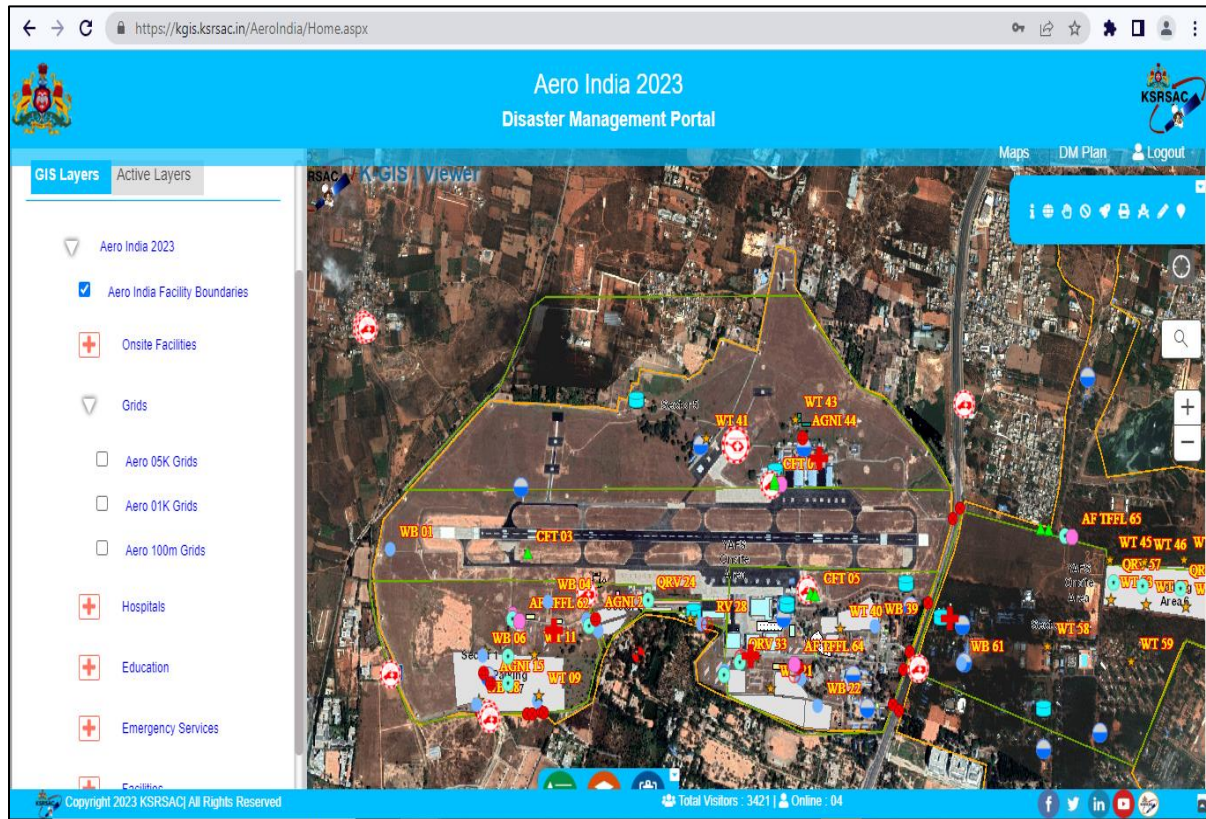
Grid Framework

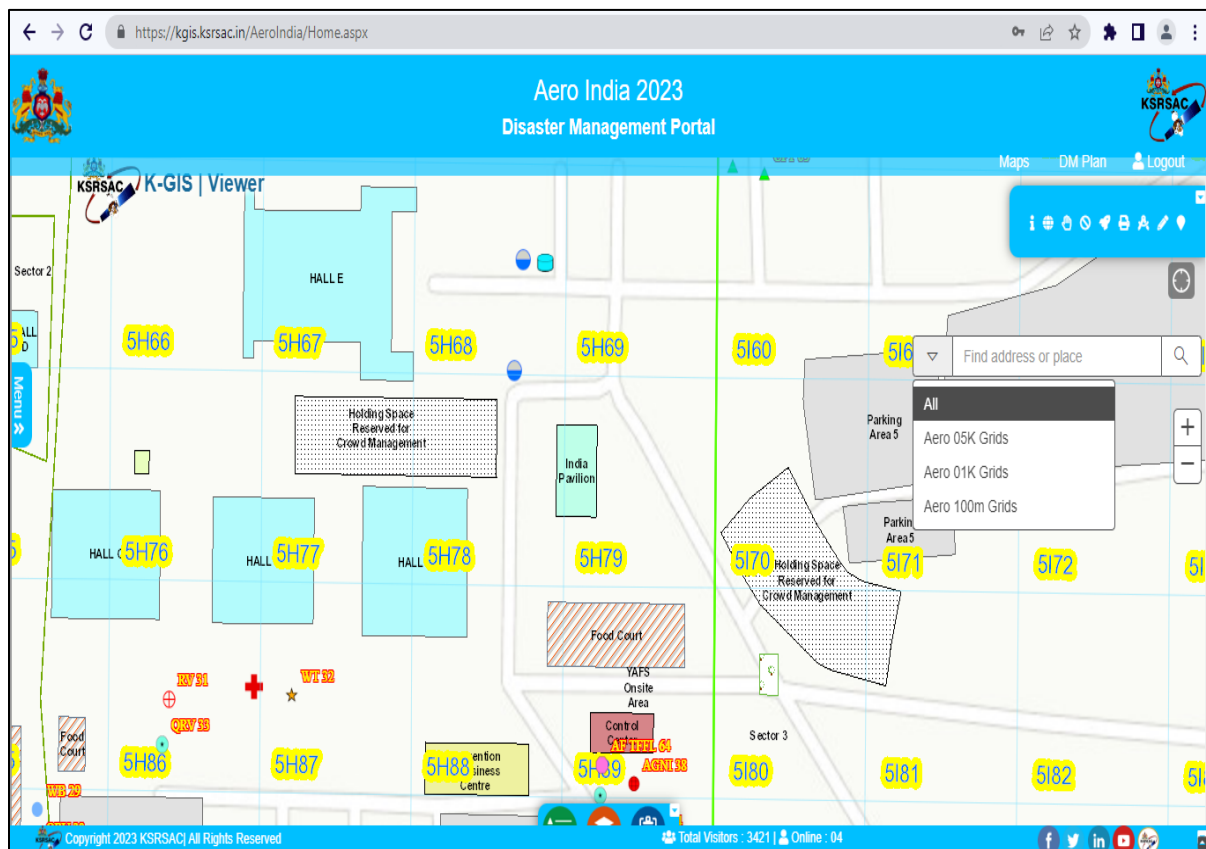
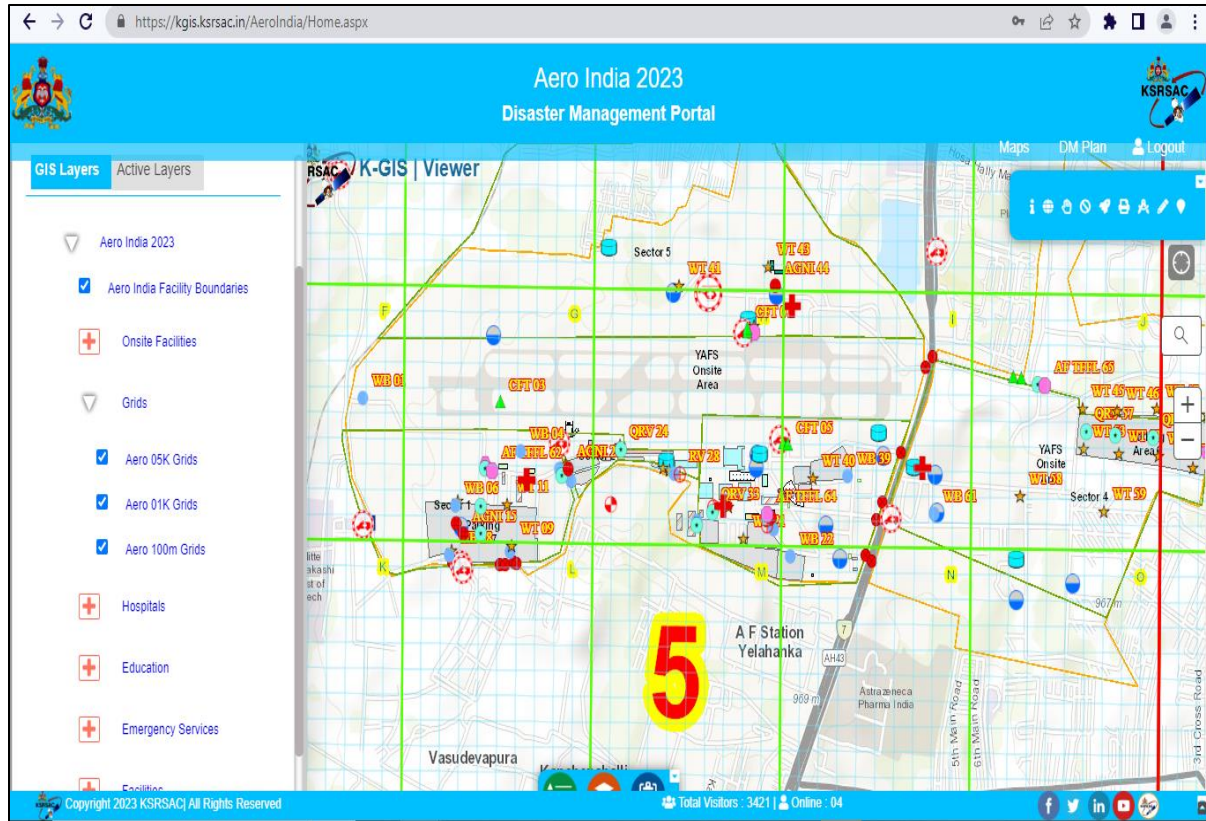
[illegible]

	OHM		Registration Counter
	SWT		Delegate Lounge
	Gates		Parking
	IAF Air Ambulance		OSB Accommodation
	IAF Airforce Squads		Parliamentary Service
	AT TITEL		Control Center
	AGN		Convention & Humans Control
	QRT		Dog Squad Room
	QRT		Food Court
	RT		Feeding Booth
	ONE		He-VIA
	WV		Holding Space Reserved for Crowd Management
	Tuilets		India Pavilion
	FoodCourt		Sections
	IAF-warehouse		WAFS Oracle Area
	Chalet		
	Full		

Prepared by : K-GIS, KRSRAC

Figure 1 Screen shot of GIS portal for AERO INDIA 2023





AeroIndia 2023
V-1.08

13.093370 N,77.561749 E 2021-11-29 16:53:05


 Facilities


 Emergency


 Hospitals


 Education

Click on the map to know the details


 Ambulance


 Fire Station


 Police Station


 Traffic Police





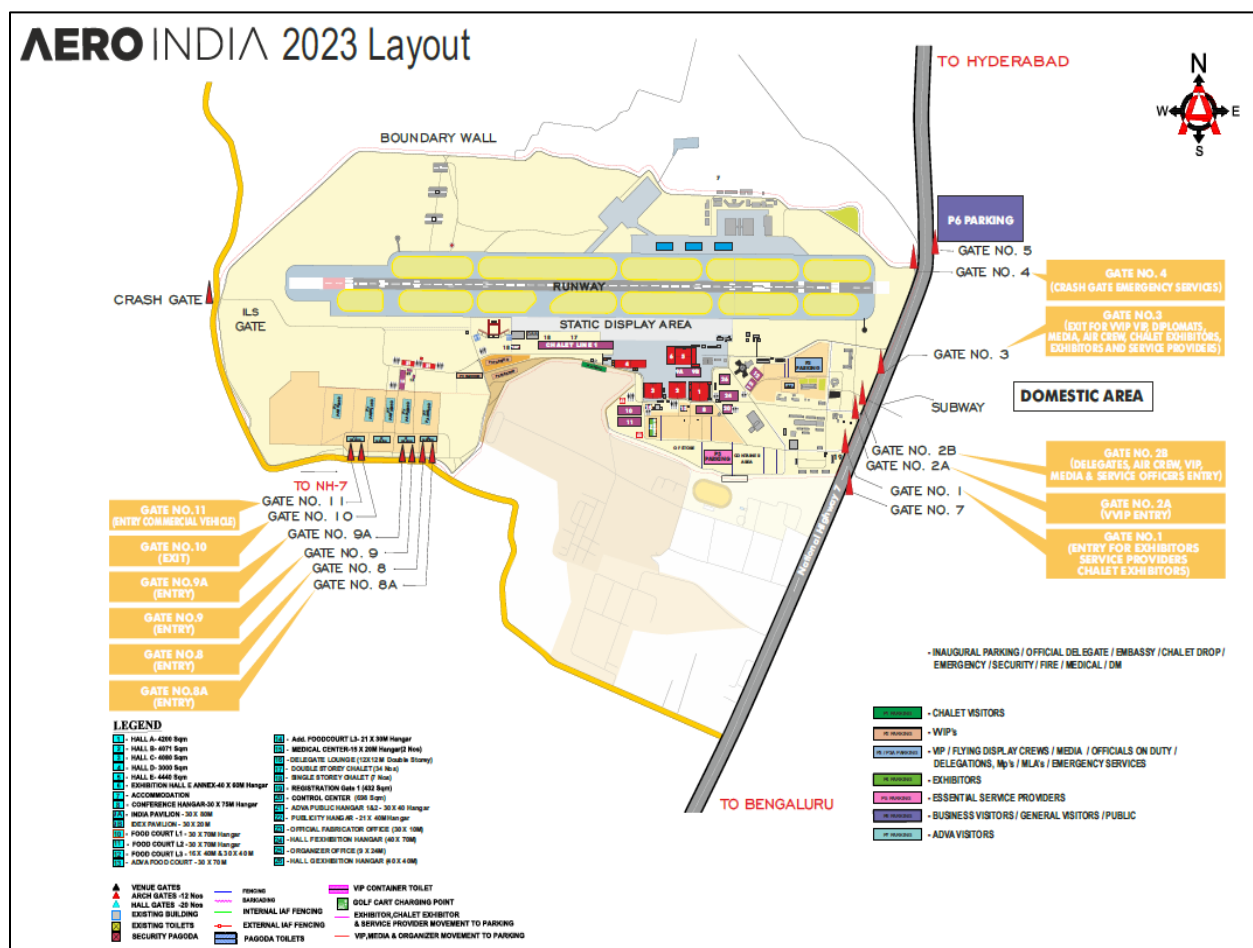



Nearest 5 Fire Station

Yelahanka Fire Station		
QRV : QRV 30		
WB : WB 10		
WB : WB 17		
WB : WB 29		

Departments and agencies shall plan the deployment of resources based on the grid maps. The deployment of response teams and equipment by all concerned departments is uploaded in the portal for resource mapping and coordinated response. A Mobile App will help field teams with incident reporting, resource mapping, and identification. Mobile App will also guide visitors to identify various amenities, car parking, food courts etc.,

The layout of the AERO INDIA is as below. The layout depicts gates (entry and exit), an exhibition area, a static display area, an aerial display viewing area, etc., The layout of the exhibition halls.



III. ONSITE DISASTER MANAGEMENT TEAM AND DEPLOYMENT PLAN

DISASTER MANAGEMENT TEAM

a. Composition

The Air Force Disaster Management team consist of 21 Officers, 48 Airmen and 10 MTDs. The DM team will be equipped with sixty walkie-talkie sets, five Hot-Line connections, two landline connections in addition to one IP phone, two LUP 322 and two I-Com. The call-signs of the team members on R/T channels will be provided on receipt of the walkie-talkies and frequencies will be allotted to the DM Cell. The DM team will also be equipped with five light vehicles, two Gypsy, two coaches and one three tonner for enabling the team to reach the site of disaster at the earliest. Additionally ATC Tower, Commentator's box, Security personnel at various points, Personnel manning TFFLs etc would be used for detection of any stampede/ bomb explosion. PA systems connected to the commentators' box and in the halls would be utilized to increase public awareness as well as for relaying instructions in case of any contingency/ disaster.

b. Assets

The assets that are part of the DM team for handling any disaster during the event are as under:

- | | |
|---|---|
| • NDRF | : 02 Platoons (92 Pers) |
| • RAF | : 02 Platoons (120 Pers) |
| • CRPF/ KSRPF | : 02 Platoons (80 Pers) |
| • Anti-sabotage squad with dogs | : 05 teams (35 Pers + 10 Dogs) |
| • Bomb detection & disposal unit (BDDU) | : 01 Army (07 Pers)
01 State (07 Pers) |
| • Bomb detection unit (BDU) | : 03 Army units (21 Pers) |

DISASTER MANAGMENT CELL

A DM Cell would be established under OIC DM during the event and will function along with OCC as the nodal centre. The Nodal Officers from all external agencies including Fire, Health and State Disaster Management Authority will be available at the OCC and the cell will work in close contact and co-

ordination with all the elements including Air Force. The DM cell will have the following information readily available: -

- Disaster Management Plan.
- Security & Evacuation plans.
- Detailed programme of the show.
- Names and Telephone numbers of Heads in charge of all essential services for DM, Medical, Fire Services, Police, PWD, Water, Electricity, Telecom etc. for both off site and on site.
- The detailed communication plan is attached as **Appendix 'D'**.

DEPLOYMENT PLAN

For ease of operation & deployment of DM resources, Air Force Station Yelahanka is divided into five sectors (attached as **Appendix 'E'**). Sector 01 and sector 04 would be subdivided due to vast areas, large parking spaces and large crowd. Each sector would be manned by a team comprising of officers and airmen who will work in cohesion throughout the period of show. There are shelters earmarked in all the sectors provided by HAL where the teams and the assets will be available for rapid action as per their roles.

The deployment of the assets are as under:

Sl. No	Asset	Sector/ Location	No. of Persons
1.	NDRF	Sector 1B	46
		OCC	46
2.	RAF	OCC	60
		KV School	60
3.	BD&DU	OCC	State unit
		Sector 1B	Army unit
4.	BDU	OCC	07
		Sector 2	07
		Sector 3	07
5.	Anti-Sabotage teams	Sector 1	07 Men and 02 Dogs in each Sectors
		Sector 2	
		Sector 3	
		Sector 4	
		Sector 5	
6.	KSRPF	ADWA	40
		KV School	40
7.	Crack Team	Gate 04	01 Officer & 07 Airmen
		Gate 12	01 Officer & 07 Airmen

The SOPs for various contingencies that could arise is attached as **Appendix 'A'**. All other assets & resources utilized under the DM like Station Fire Fighting Plan and Medical Plan are attached as **Appendix 'B'** and **Appendix 'C'** respectively.

ROLES & RESPONSIBILITIES

a. NDRF, RAF & CRPF/ KSRPF Personnel

Two platoons of NDRF and two platoon of RAF will be available during the Air Show and will be under the control of OIC DM. These 04 platoons would be available for rapid deployment, where necessary and will act as **'First Responder Teams'**. These platoons will be equipped with ropes and tapes to cordon off the disaster site and their vehicles, when mobilized, will have right of way over all traffic, both vehicular and pedestrian. In case of disaster during active flying, these vehicles will use the perimeter roads or taxi tracks, under the instructions of OIC DM.

Two platoons of CRPF/ KSRPF will be deployed to isolate the affected area and crowd management during any disaster.

b. Bomb Detection and Disposal

The BDU/ BDDU teams will carry out a 'sweep' of all areas everyday once before commencement of the event in the morning and once at the end of the event in the evening. Also, BDU teams will be carrying out reconnaissance at frequent intervals to detect Improvised Explosive Devices (IEDs)/ bombs. In case of a bomb/ explosive device, the BDDU will attempt to defuse the bomb at the site itself and/ or take it to the nearest bomb disposal site for further disposal.

Six Bomb Disposal sites will be set up in AFS Yel catering for ADVA, Exhibition Area and Northern Dispersal. Four Hundred bags of sand will be placed at each of these sites. These bomb disposal pits exist in the premises of AFS Yel. Their location was decided after co-ordination and consultation with State representatives during the previous Aero India exhibition. The clearing and re-digging of these sites is to be carried out by Rep of DM (HAL) by 25 Jan 23. The requisite number of filled sandbags (2400) is to be provided by 31 Jan 23 at bomb sites.

c. Crack Team

Two Crack Teams will be set up comprising of two Officers and 14 Airmen (augmented by Fire services team) for combating minor fire outside AFS Yel premises. These teams will be responsible for liaison with civil authorities for directing the DFTs positioned along the perimeter of Air Force Station to fight fire. Each team will be equipped with 01 three tonner (covered), 01 AGNI fire tender (Enfield motorcycle with 20Ltr Water Mist capacity), 10 fire beaters with hand held fire extinguishers (CO2/ DCP) and walkie-talkie set. The AGNI vehicle will be provided by KSF&ES. These teams are expected to fight minor fires in and around the boundary wall of AFS Yel and simultaneously co-ordinate for any additional requirement of fire-fighting resources from the State Offsite DM team.

d. Post Accident Plan (PAP)

The PAP of AFS Yel will be activated in case of any Air incident/ accident. The crash and rescue teams will be fully trained in rescue/ evacuation processes. In case of an aircraft accident On-site, OIC DM will assist SASIO who will activate the station PAP and take necessary actions as required. In case of an accident Off-site, OIC DM will activate SDMA representatives through hotline. SDMA representatives will provide all assistance as required at the crash site and function under the command and control of IAF authorities. OIC DM to also facilitate exit of convoys to the planned exit road in case of an 'Off Base' accident.

e. Salvage/ Debris Clearance

Three cranes of 10/ 20 Ton capacity each would be made available. There would be two cranes of state PWD with operating crew within the station (one of which would be positioned north of R/W at TCCF dispersal and second crane at ATC complex) while the remaining one of state PWD will be positioned close to AFS Yelahanka on call. An additional 50 Ton crane will be on stand-by at BIAL which will be summoned as and when required. Six salvage trucks and 30 men provided by State Government will be available outside AFSY for debris/ salvage clearance.

POSSIBLE CONTINGENCIES**a. Air Crash**

- On-base.
- Off-base.

b. Bomb Alert/ Blast

- In Exhibition Halls (EH) (A, B, C, D & E) including all temporary structures adjoining 'A' hangar.
- At Inauguration Site.
- In ADVA.
- In Static Display Area (SDA)/ Exhibition Area (EA).
- At the Area in front of Flight Operations Centre (FOC) and Behind Exhibition Halls.
- At ADVA parking.

c. Stampede

- In ADVA.
- In Static Display Area (SDA)/ Exhibition Area (EA).

d. Fire

- In Hangars.
- In Chalets/ Restaurants.
- In domestic area vehicle parking-Sector 4 (P-4).
- In Sector-3 vehicle parking (P-2, P-3).
- In Sector-2 parking area (P-6 Chalet Area).
- In Sector-1 parking area (P-5 ADVA Area, P-7 Inaugural area).
- In ADVA.
- In Buildings/ Installations/ Sections under Air Force/ MES.
- In Buildings/ Installations/ Sections handed over to HAL.
- At IOC/ Bulk petroleum installation.

e. Collapses

- Hangar collapse.

The DM Cell has potent but limited resources under it to cater for any eventuality of the scale envisaged and planned for. The detailed SOP for activation towards contingencies is attached as **Appendix 'A'** and evacuation plan during disaster is attached as **Annexure 'IV'**. All situations that can be countered by the DM Cell and occur within the perimeters of AFS Yel are termed as **On-Site Disasters** and those occurring

outside the perimeters of AFS Yel are termed as **Off-Site Disaster**, for which the **Management Plan** has been prepared by the Secretary, Disaster Management, Revenue Department, Govt. of Karnataka. An Off-Site Disaster Management Control Room would be established in the vicinity of AFS Yel (Ambience Dhaba) which will have a complement of one IAF officer along with State authorities for effective co-ordination between on-site and off-site cells through Hot lines and other means of communication.

There may be eventualities that could rapidly get out of hand. For example, a hangar fire may rapidly spread due to strong winds and may eventually become uncontrollable, beyond the capability of the local resources. This would again require rapid marshalling and mobilization of State Govt agencies with greater wherewithal and resources. The State DM Nodal Officer at the Off-Site Control Room will be the one point contact for facilitating all the help to cater to on-site disaster as well.

During the show, information of '**Operations Normal**' regularly is of utmost importance. The Guards at various posts, mobile patrol teams and various personnel deployed on security duty will provide regular feedback to Security Control Centre/ DM Cell on any abnormal situation/issue. In addition to this, ATC Tower, commentator's box and personnel on DFTs in respective zones will also be used to monitor crowd and provide regular updates. The PA system of commentator's box will be utilized for advisory instructions in the event of a disaster.

CONCLUSION

Any amount of strategic planning to manage a disaster would not define the action plan completely as these plans cannot be considered in isolation or act as a substitute for maintaining good safety standards. Therefore, the best way to protect against occurrence of major disaster is by maintaining very high levels of safety standards and involvement of all other associated services.

To keep the personnel abreast with the Disaster Management Plan, all the assets will be positioned by 06 Feb 23 and mock drills to combat contingencies will be conducted between 09 Feb - 11 Feb 23. The final DM plan and the Standard Operating Procedures (SOPs) in respect of various contingencies will be formalized depending upon the actual assets being provided by HAL/State and copies of the same would be distributed to the concerned agencies in time. There will be a revision in time- lines and responses to contingencies in case of any change/reduction of assets especially BDUs/ BDDUs, RAF, NDRF, CRPF/KSRPF, communication equipment and transportation.

IV. CONCEIVABLE HAZARDS AND RISKS

The following are the likely hazard during AERO INDIA 2023

1. FIRE
2. STAMPEDE-CROWD CONTROL
3. AIR CRASH
4. CHEMICAL, NUCLEAR AND BIOLOGICAL WARFARE
5. COLLAPSE OF STRUCTURE
6. RADIOLOGICAL AND NUCLEAR EMERGENCY
7. DRONE ATTACK
8. TERROR ATTACK
9. CYBER ATTACK
10. EXTREME WEATHER
11. DRINKING WATER AND FOOD POISONING
12. COVID 19
13. Others

1. FIRE

The memory of the fire accident at Gate 5 of the general parking area, which gutted over 300 vehicles, is still fresh. The lessons learnt from the past events have been imbibed and are manifested into concrete, actionable points in the Plan. Fire can start due to human activities or natural causes. Fire during the AERO INDIA can be anticipated from electrical equipment malfunction (short circuit), fuel explosion, grass fire, terror attack (Drone), flight crash, a garbage fire, etc.

First and foremost is to identify vulnerable spots for fire accidents and fire triggering factors and assess the risk from fire, i.e. the number of properties likely to be damaged, human loss, etc. Mapping the requirement of equipment and manpower to identify vulnerable spots.

Major Fire Hazard from Jet Fuel

Hazard from Aviation Turbine Fuel (Jet Fuel) (transportation, attack on storage facility leading to explosion) Synonyms Aviation Turbine Fuel (Kerosene type) A-1, Jet A-1, Aviation Turbine Jet A-1, Semi

Synthetic Jet A-1

Classification of the substance or mixture

- Flammable liquids Category 3
- Aspiration hazard Category 1
- Skin corrosion/irritation Category 3
- Long-term (chronic) aquatic hazard Category 3

Hazard pictograms



Response in case of Jet Fuel leakage or explosion

Personal precautions: Keep people away from and upwind of spills/leaks. Remove all sources of ignition.

Do not breathe vapours or spray mist.

1. Should not be released into the environment. Prevent further leakage or spillage if safe to do so.
2. Finely dispersed particles form explosive mixtures with air. Strong acids and oxidizing agents immediately take off all contaminated clothing. Rinse skin with water or shower.
3. In case of fire: Use Dry chemicals, CO₂, Water spray or fire-fighting foam to extinguish. Wear a self-contained breathing apparatus and protective suit.
4. Immediately call a doctor/ physician.
5. Do NOT induce vomiting.
6. If skin irritation occurs: Get medical advice/ attention.

Description of necessary first-aid measures

1. **Inhalation:** Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. Call a doctor immediately.
2. **Skin contact:** Wash off immediately with plenty of water for at least 15 minutes. Call a physician immediately.
3. **Eye contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Call a physician immediately.

Handling and storage

1. **Safe handling advice:** Provide good air exchange and/or exhaust in work rooms. Wear personal protective equipment.
2. **Advice on protection against fire and explosion:** Keep away from heat and ignition sources. Use explosion-proof equipment.
3. **Requirements for storage areas and containers:** Keep containers tightly closed in a dry, cool and well-ventilated place.
4. **Possibility of hazardous reactions:** Finely dispersed particles form explosive mixtures with air forming Strong acids and oxidizing agents.

Electrical Fire

A failure or malfunction within the electrical components of equipment or machinery can cause electrical fires. Electrical fires originate in electric wires, cables, circuit breakers, and within electrical components. Fires start in electrical panels from overloaded circuits or the age of the panel. The panel and circuits become overloaded when the distribution of electricity is inadequate. Occasionally, lighting equipment acts as a source of heat that is too close to easily combustible materials.

Electrical systems pose an ongoing fire risk. Hence, understanding common causes of electrical fires and following preventive measures to maintain electrical systems will mitigate the chance of a fire. The command causes of electrical fires could be poor maintenance is the leading cause of electrical fires. Regular maintenance of electrical panels will reduce the risk of fire. Maintenance includes removing dirt and dust and inspecting and replacing faulty circuit breakers. Kinks in wiring caused electrical resistance within the wire, which creates heat and could cause an electrical fire. Old equipment and appliances do not adhere to the National Electrical Code 2011 and the National Building Code provisions. Mitigation is through ensuring Electrical panels and circuit breakers.

The Karnataka State Electrical Inspectorate shall thoroughly audit electrical installation at the temporary and adjacent structures in the core area.

Mitigation Plan

Fire and Emergency Services has chalked timelines for extensive safety audits of the core and off-site areas. Mock drills will be conducted to validate the Plan. Gaps during the drills will be identified and remedial measures will be taken. Mitigation measures include ensuring the dry grass in the parking area is cut, and enough spaces are maintained between vehicles. Track for movement of fire vehicles, place

fire fighting vehicles in vulnerable points and create a water source for refilling near the parking area.

Response Plan

Fire and Emergency services have formulated extensive guidelines and SOPs for AERO INDIA 2023. The Fire and Emergency Response plan, including SOPs/guidelines, are annexed as **Annexure IV**.

2. STAMPEDE-CROWD CONTROL

As a part of the COVID-19 protocol, measures will be on-site to ensure social distancing. However, there would be crowding in off-site areas and gathering of people to watch aerial displays. The gathering could lead to stampedes and be a potential target for terror attacks. The holding area and ADVA entry should be regulated to avoid crowding.

Mass gatherings of persons can be defined by the World Health Organization as more than a specified number of persons at a specific location for a specific purpose for a defined period. Generally, a crowd comprises the clustering of spectators and participants of the event. Large crowds create annoyance and difficulties for a section of society, leading to severe traffic delays, pollution, stampede, fights among people, riots, and alteration in the landscape, ultimately becoming the source of medical emergencies and disasters.

Mitigation measures for a stampede

It is a public security practice where large crowds are managed to prevent the outbreak of crowd crushes, commotion, fights involving drunken people or riots. Crowd crushes can cause many hundreds of fatalities. Crowd control can involve police officers as well as home guards and volunteers. As crowd disasters are local events, disaster management is primarily the responsibility of the organizers and local/district administration, with support and guidelines from state and national authorities.

Simple crowd management strategies can prevent most major crowd disasters. The primary crowd management objectives are avoiding critical crowd densities and triggering rapid group movement. Although crowd management and crowd control are often used interchangeably, there are significant differences. Crowd management is systematically planning for and supervising the orderly movement and assembly of people. Crowd control is the restriction or limitation of group behaviour.

Prevention of stampedes involves assessing the people handling capabilities of space before use. It includes evaluation of projected levels of occupancy, adequacy of means of ingress and egress, processing

procedures such as ticket collection, and expected types of activities and group behaviour. Crowd control may be part of a crowd management plan or occur as an unplanned reaction to a group problem. It can include extreme measures to enforce order, such as the use of force, arrest, or threat of personal injury. It may employ barriers that alter the space available for occupancy and patterns of group movement. Inappropriate or poorly managed control procedures have precipitated crowd incidents rather than preventing them. For example, police reacting to a group of unruly persons, herded spectators into areas where there were no means of egress.

Some of the crucial causes and triggers for Crowd Disasters are a structure collapse, Fire/electricity short circuit, rumour, bomb blast, closed/locked exits or entry, unlawful behaviour/actions of any individual/group of people in the venue or surroundings or lack of coordination between various stakeholders.

While planning for crowd control following aspects should be kept in mind:

1. Deployment of the snake line approach
2. Generators, distribution boxes, and circuit breakers should be kept isolated from mischievous crowd elements.
3. Crowd Control Staff should be uniformly dressed (highly visible)
4. Crowd Control Staff should be in a position to communicate with each other and also with the crowd
5. Make sure there are ample entrances and exits (including administrative/emergency routes) at the event, and they remain unobstructed.
6. Continuous monitoring of the crowds at strategic and multiple places
7. There should be adequate fencing/barricade at necessary places
8. Electrical appliances should be protected from the crowd to avoid electric short circuits and electricity-induced fire accidents.
9. Proper Information Management systems for visitors
10. Proper briefing by the organizers
11. Displaying Event route maps with places of importance with signage
12. Typical peak times/days
13. Display emergency numbers at prominent places
14. Mode of transportation during the visit
15. Display- Do's & Don'ts to ensure smooth movement of the crowd

16. Communicate information about Food courts, water points, toilets, and police posts.
17. Ensure quick access to first-aid facilities.
18. Suitable entry/exits for emergency

3. AIR CRASH

Two Surya Kiran aircraft collided mid-air during rehearsal for Aero India 2019, leading to the death of one pilot. There is a possibility of such a mishap during such a mega event. A quick Emergency Response System comprising Air Force Fire Team, Fire and Emergency Services, and Police with appropriate equipment will be in place.

Air Crash in residential areas or debris falling in residential areas will result in property and human loss and may also cause fire incidents in the vicinity. Geospatial analysis of a 5 km buffer from the Air Force Station will be conducted to assess the risk and to stage a quick rescue team and equipment to minimize damage from an air crash. The 5 km radius is further divided into 1 km x 1 km sectors, and a group of sectors will be assigned to a team for quick response. The GIS-based maps with asset mapping are available at <https://kgis.ksrsac.in/aeroindia/>.

4. CHEMICAL, NUCLEAR AND BIOLOGICAL WARFARE

Chemical Weapons: - Citizens can identify such attacks by observing people who start coughing, vomiting or seizing—massive awareness to be created to evacuate the area immediately and dial the disaster management control room for help. If indoors, exit the building rapidly as possible. Taking out your clothes can remove 80 per cent of the contamination hazards. Look for a nearby water tap or fountain, pool or another source of water so that you can quickly and thoroughly rinse any skin part that may have been exposed. Upon arrival in the area, fire brigades may spray water on everyone affected and decontaminate. Medical attention shall be needed, and first aid to be given to seriously affected people. Evacuate the most seriously exposed individuals. You may observe birds and small animals falling to the ground in the open and outdoors due to poisonous gas. Immediately move indoors and create a physical barrier between people and toxic clouds. Building protection is preferred; however, getting inside the car will help you. Shut all doors and windows of the house and put off fans and air conditioners

5. COLLAPSE OF STRUCTURE

Many believe that adverse weather conditions or fire outbreaks result in building downfalls; however, the truth is that a lack of sound construction practices or structural defaults causes such collapses. A structural audit is essential to ensure the temporary structures are safe and adhere to the National Building Code. The prepositioning of heavy machineries like a crane, front-end loaders, JCB, Hitachi, Gas cutters, concrete cutters, and tippers in a strategic location will enable rescuers to respond swiftly to emergencies of structure collapse. Deployment of the NDRF team (collapsed structure search and rescue team) and Fire and Emergency service team shall be pre-deployed.

6. RADIOLOGICAL AND NUCLEAR EMERGENCY

Nuclear/radiological emergencies during AERO INDIA 2023 may arise due to the malevolent use of radioactive material as a Radiological Dispersal Device (RDD), also known as a "Dirty Bomb" by terrorists for dispersing radioactive material in the environment. Despite very low probability, such threats may lead to an on-site and off-site emergency. Any radiation incident resulting in or having the potential to result in exposure and/or contamination of the workers or the public above the respective permissible limits can lead to a nuclear/radiological emergency.

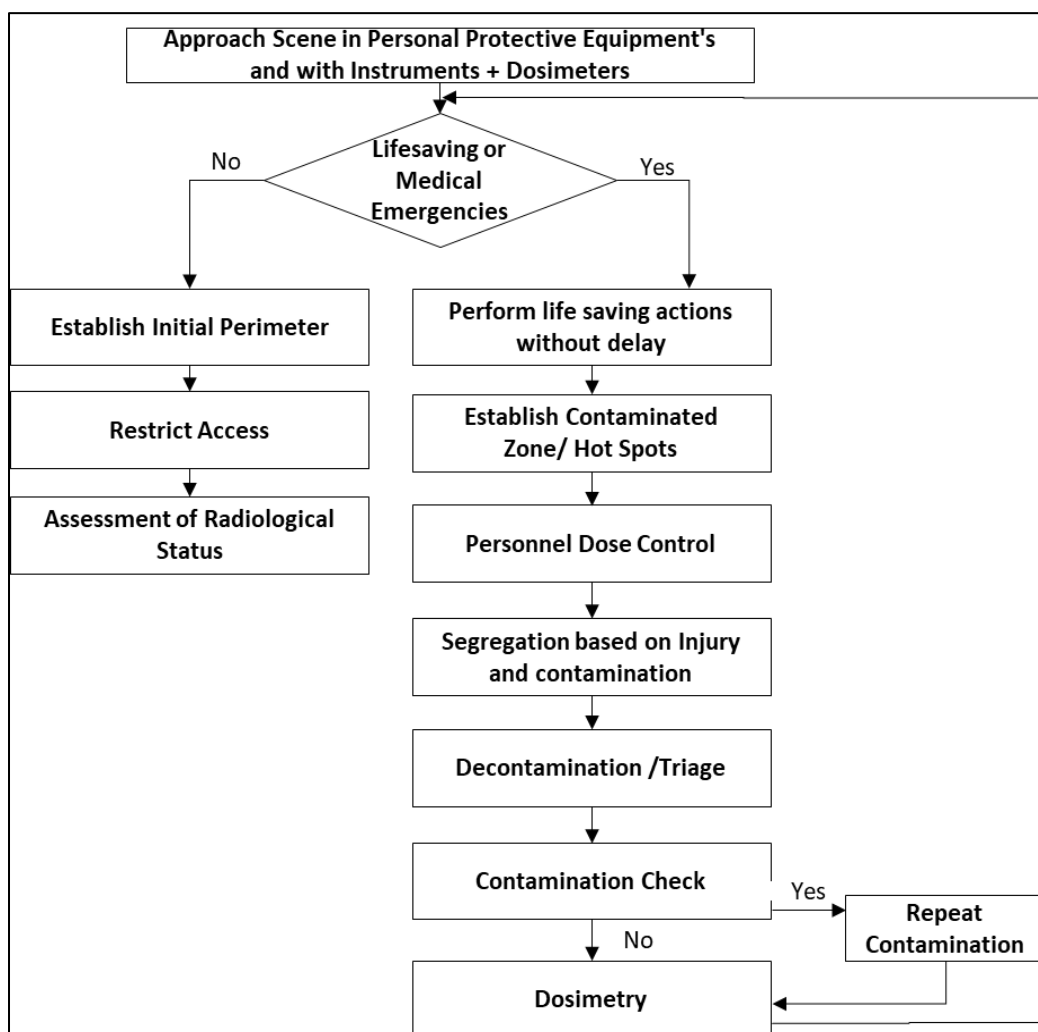
To combat this, a proper emergency preparedness plan must be in place to minimize avoidable loss of life, livelihood, property, and environmental impact. The fact that one cannot see, feel or smell the presence of radiation, coupled with a lack of credible and authentic information on radiation and radiation emergencies, there is a fear in the public mind that a minor radiological accident will lead to a situation like that at Hiroshima, Nagasaki or Chernobyl. The scope for disinformation is very high during any radiological emergency, which makes it even more challenging.

The Atomic Energy Regulatory Board is the nuclear regulatory authority in the Country. For responding to any nuclear/radiological emergency in the public domain, the Crisis Management Group of the Department of Atomic Energy activates the emergency response. It coordinates with the local authority in the affected area to provide technical inputs for effective response to such an emergency. The Bhabha Atomic Research Centre has established a network of 18 Emergency Response Centres. One such centre is located in Bengaluru to cope with radiological emergencies in the public domain, like transport accidents, handling of orphan sources, the explosion of Radiological Dispersal Devices, etc.

ERC from Bengaluru will be tasked to monitor and detect radiation sources using the latest radiation detection and monitoring instruments and provide technical advice to first responders and local authorities. NDRF deployed during AERO INDIA 2023 will provide a specialist response during nuclear/radiological emergencies. Sufficient stock of antidote medicines and specific de-corporation agents for typical radioisotopes shall be maintained.

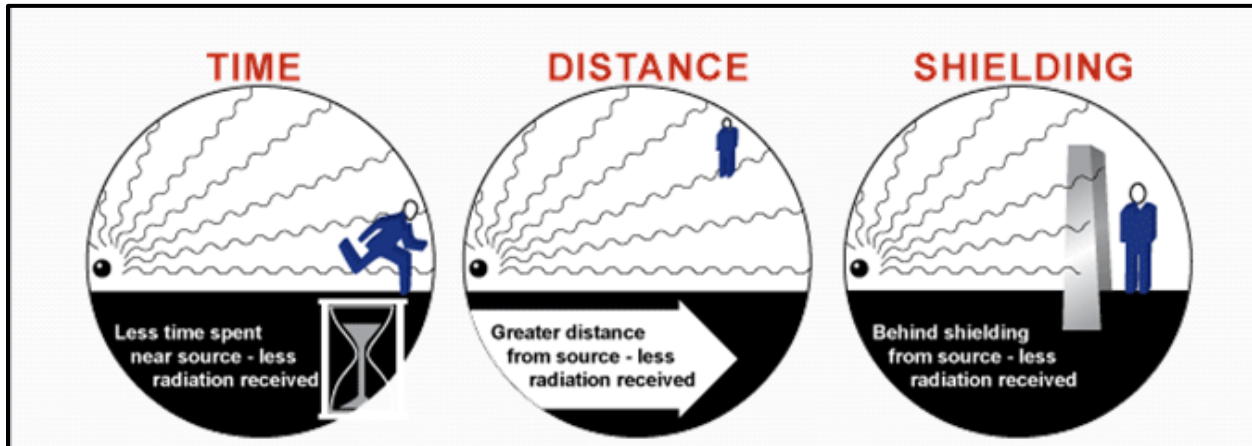
The hospitals with specialists to treat radiation exposure shall be earmarked. The hospital shall have a decontamination room with the appropriate equipment and materials. A decontamination room will have a lightweight, durable, impermeable, washable and reusable fibreglass table-top backboard with a flexible drain hose, locking straps, spray nozzle and wall mounting bracket. Two 100-litre waste collection containers must also be available. All nuclear casualties will first be brought to the decontamination room.

The triaging flow chart is as follows:



The list of hospitals and specialists and the number of decontamination rooms shall be annexed and marked as **Annexure I**.

The essence of mitigating radiation exposure is set out in the figure below. The public has to be made aware of these simple steps:



7. DRONE ATTACK

In the past several years, India has seen more use of drones—or small unmanned aerial vehicles (UAVs)—for various military and civilian purposes. These include surveillance, imaging, damage assessment, payload delivery (lethal and utilitarian) and, as seen recently amidst the COVID-19 pandemic, contactless delivery of medicines. The use of drones, however, poses threats to public security and security establishments. Analysts warn that Unmanned Aerial Systems (UAS) have become less expensive, easier to fly, and more adaptable for crime and terrorism. On 14th September 2019, drones were used to attack the state-owned Saudi Aramco oil processing facilities at Abqaiq (Biqayq in Arabic) and Khurais in eastern Saudi Arabia.

The Small Unmanned Aircraft System (UAS) technologies are continuously evolving: indeed, customized UASs—i.e., UAVs, micro UAVs, and drones with their controller stations and equipment—can operate without radio frequency (RF) command and control links and can use automated target tracking, aside from having obstacle avoidance and software-controlled capabilities. Moreover, drones have low Radar Cross Sections, slow speed and small sizes, making drone detection and identification challenging. These characteristics of drones pose a security threat during AERO SHOW. Though there will be a banning order by Police Commissioner, implementing the same without an anti-drone system will be futile.

Defeating a drone can involve a plethora of techniques. To name a few, it may involve kinetic means, electronic warfare (EW) and cyber warfare (CW) techniques, Drone vs Drone, and Directed Energy Weapons (DEW) using high-powered microwaves or LASERs. Various integrated solutions have been offered in the world market to defeat drones or UASs. The unique options include RF jamming, GPS jamming, GPS spoofing, and net guns.

Our Country has developed various approaches to detect these aerial systems. An anti-drone weapon system was installed during the Republic Day parade in 2020. DRDO may be requested to install the same during the AERO INDIA show.



The Anti-drone system shall augment the existing security system and will counter any threat from miscreants or Terrorists through drone attacks.

8. TERROR ATTACK

Major events like AERO INDIA are prime targets for Terrorists. Given that the organization inimical to our Country will attempt to disrupt this event, robust security planning, all-around surveillance and intensive

screening are needed. Awareness to the public on reporting suspicious objects and unclaimed bags in and around on-site and off-site areas. Bomb detection and disposal teams will be placed in strategic areas.

9. CYBER ATTACK

Disaster management is traditionally associated with natural and man-made disasters. However, the threats posed by cyber-attacks are growing and like to inflict enormous economic damage. A major event like AERO INDIA is vulnerable to cyber-attacks through interference in a critical system such as ticketing, website defacement, traffic management, etc., which may adversely impact the event. There is a need to have a robust cyber security plan to prevent and deal with any attack. All Websites and applications of AERO INDIA shown by the Ministry of Defence and other allied agencies and State Government/NIC shall have a Cyber-attack response plan to deal with any attack effectively.

10. EXTREME WEATHER

During February, Bengaluru will likely have pleasant weather with clear skies and calm winds- no lightning strikes or thunderstorm activities are anticipated. However, there could be poor visibility due to fog, which could delay Show and lead to unrest in the crowd. The temperature may dip below normal; in such case, a suitable advisory should be given to wear warm clothes. If an unexpected system develops, there could be lightning hazards and rainfall. Hence, lightning arrestors have been fixed on temporary structures as well. The drains around the venue are designed to prevent water logging during rainfall. Karnataka State Natural Disaster Management Center (KSNDMC), a state-of-the-art centre, has been designated by the State Government as a nodal agency to disseminate weather-related alerts and warnings. Real-time weather-related parameters and forecasts are available in the www.ksndmc.org web portal and Bengaluru Mega Sandesha App and Sidilu App developed by KSNDMC.

11. DRINKING WATER AND FOOD POISONING

Food hygiene is more than just cleanliness; it includes all practices involved in protecting food from risk of contamination, including harmful bacteria, **poisons** and foreign bodies. All vendors are to adhere to Food Hygiene and Safety Guidelines for Food Businesses during Coronavirus Disease (COVID-19) Pandemic issued by FSSAI. FSSAI and Health Inspectors should conduct regular checks. System to be put in place to ensure no unauthorized person is allowed into the cooking area.

12. COVID 19

Almost all countries of the world are affected by COVID-19. This has brought a new dimension into the formulation of On-site and Off-site Disaster Management Plans for the AERO INDIA 2023 show. Many people across India, particularly from Bengaluru, Delegates and Business Visitors from across the Globe, are likely to participate in the AERO INDIA 2023. To prevent the spread of COVID-19 infection, it is crucial to follow prevalent National Directives for COVID-19 management measures in these places.

Specific measures apart from generic preventive measures have to be adopted to prevent the spread of COVID-19. The measures will align with guidelines issued by the Ministry of Home Affairs (MHA) under the Disaster Management Act, 2005 from time to time. Department of Health and Family Welfare shall issue guidelines per the prevailing situation and assessment.

Though there is a falling trend in new cases presently, the COVID-19 situation during the AERO INDIA show will be uncertain since many countries, especially European countries, are currently seeing spikes in cases (2 or 3 waves). COVID-19 situation during the winter season will be uncertain: February also coincides with peak asthma, and another respiratory ailment season should also be factored in the response. The footfall will depend on the prevalent COVID-19 situation during the first week of February.

The COVID-19 containment Guidelines and SOPs and assets deployed by the Department of Health and Family Welfare are set-out in annexure I. The broad framework of COVID-19 containment measures is as follows:

Generic Measures

1. Use of face covers/masks to be made mandatory.
2. Practice frequent hand washing using alcohol-based hand sanitizers (for at least 20 seconds).
3. Respiratory etiquette is to be strictly followed. This involves the strict practice of covering one's mouth and nose while coughing/sneezing with a tissue/handkerchief/flexed elbow and disposing of used tissues properly.
4. Persons above 65 years of age, persons with comorbidities, pregnant women and children below the age of 10 should be advised to stay at home.
5. Before the resumption of the exhibition, public utility areas, frequently touched surfaces and open spaces shall be sanitized with 1% Sodium Hypochlorite solution. After that, this will be done regularly.
6. To the extent possible, the exhibition should be touch-free and digital.

Screening and Maintaining Healthy operations

1. Well-equipped adequate number of screening kiosks with well-calibrated thermal guns, hand sanitiser and appropriate PPEs shall be put up in strategic locations (parking lots, entry gates, etc.).
2. Medical Aid Center for providing first aid, triaging, and isolation with portable oxygen and other equipment in on-site and off-site areas. Exclusive Ambulances to be in place, including ALS ambulance. The evacuation plan route is to be marked.
3. Only asymptomatic persons (organizers, delegates/business visitors/public) are allowed inside the Air Force Station. Nobody will be allowed entry without a face cover/mask. The face cover/mask has to be worn at all times. Proper queue management shall be followed in all areas ensuring 6 feet of social distancing.
4. Provisions will be made for multiple hand sanitiser washing stations for public use. The provision of soap in toilets and hand sanitizers in other common areas in sufficient quantity must be ensured.
5. Deep cleaning of all drinking and hand washing stations and washrooms shall be ensured.
6. In food courts, no more than 50% of seating capacity is permitted in stalls. The seating arrangement should ensure adequate physical distancing.
7. Contactless modes of ordering and digital modes of payment are to be encouraged.
8. Tables to be sanitized each time customer leaves.

Physical Distancing

1. The physical distancing of at least 6 feet is to be followed as far as feasible.
2. Specific markings may be made to ensure physical distancing inside and outside the AI premises. Similarly, physical distancing shall also be maintained in common utility areas.
3. There will be queue management inside and outside the AI premises. Enough personnel will be deployed to monitor the queue and physical distancing.
4. The crowd density may not remain the same throughout all days and usually peaks on weekends (Feb 6th and 7th). Planning should specifically factor in requirements for these peak days.
5. As far as possible online tickets must be encouraged to prevent crowding at the Ticket counter.
6. Entry of visitors with tickets is to be monitored to ensure that the number of visitors inside the Exhibition area and other areas at any given time doesn't exceed the permissible limit.
7. CCTV monitoring shall be ensured to detect crowding at the exhibition area, Food Court etc.

Ensuring Ventilation

1. As far as feasible, natural ventilation must be ensured, and small enclosed spaces must be discouraged.
2. Circulation of outdoor air needs to be increased as much as possible.
3. For air-conditioning/ventilation of closed enclosures, the guidelines of CPWD shall be followed, which emphasizes that the temperature setting of all air conditioning devices should be in the range of 24-30 °C; relative humidity should be in the range of 40-70%, intake of fresh air should be as much as possible and cross ventilation should be adequate. The air handling unit needs to be cleaned before switching it on.

Ensuring COVID Related Supplies

1. Appropriate arrangements for personal protection devices like face covers/masks and other logistics like hand sanitisers, soap, and sodium hypochlorite solution (1%) shall be made available by organizers to all concerned as per requirements.
2. An adequate supply of calibrated thermal guns.
3. Availability of covered dustbins and trash cans in sufficient numbers to manage waste as per BBMP/CPCB guidelines

Creating awareness

1. The website of AERO INDIA must display preventive measures for COVID-19. The website/ Mobile application shall inform the visitors about self-monitoring of health and not visit the exhibition if suffering from symptoms of Covid-19.
2. Provisions must be made to display Posters/standees/AV media on preventive measures against COVID-19 at prominent places in the strategic location to reach the maximum number of people.
3. Recorded messages on preventive measures and COVID-appropriate behaviour may be played.
4. Display State helpline numbers and also numbers of local health authorities at prominent places.

Reporting of a suspect or confirmed case on the premises:

1. Place the ill person in a room or area isolated from others.
2. Provide a mask/face cover until a doctor examines them.
3. Immediately alert the medical team.

4. The medical team will undertake a risk assessment, and accordingly, further action is initiated regarding the management of the case, their contacts and the need for disinfection.
5. Disinfection of the premises is to be taken up if the person is found positive.

STANDARD OPERATING PROCEDURES IN CASE OF VARIOUS CONTINGENCIES

1. Various contingencies are:

- Air Crash
- Bomb Alert/ Blast
- Stampede
- Fire
- Structure Collapse

2. Manpower deployed at various sectors are as follows:

a) Manpower at Exhibition Area

- Two IAF officers
- Five DM personnel
- One platoon of NDRF
- One BDU and one BDDU

b) Manpower at Static Display Area

- Two IAF Officers
- Five DM personnel

c) Manpower at ADVA

- Five IAF Officers
- Twelve DM personnel
- One NDRF platoon
- One BDU and one BDDU team
- One CRPF/ KSRPF platoon
- One RAF platoon

d) Manpower at Domestic Area.

- Three IAF Officers
- Six DM personnel
- One CRPF/ KSRPF platoon
- One RAF platoon
- One BDU team

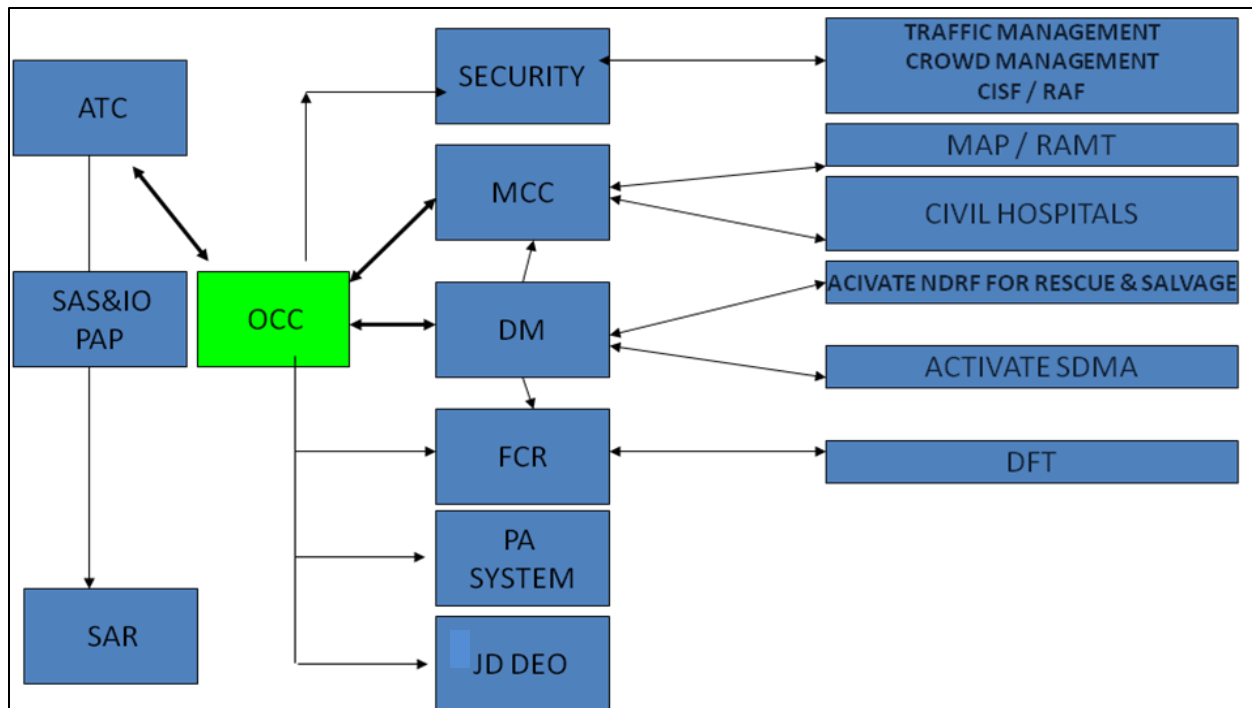
e) **Manpower at Northern Sector.**

- Two IAF Officers and Four DM personnel

1. AIR CRASH

a. Action in case of Air Crash :

Any air crash ON/OFF base, primary alarm will be initiated by ATC and secondary alarm by Base Ops Centre. In case of an On Base accident, the OIC DM will assist SASIO who will activate the station PAP and take necessary actions as required. Post Accident Plan (PAP) will be activated for off base accidents.



b. Air crash On-base:

- ATC gives out the primary alarm and Inform OCC/ MCC/ DM/ Security/ FCR
- OIC DM to activate NDRF/ RAF

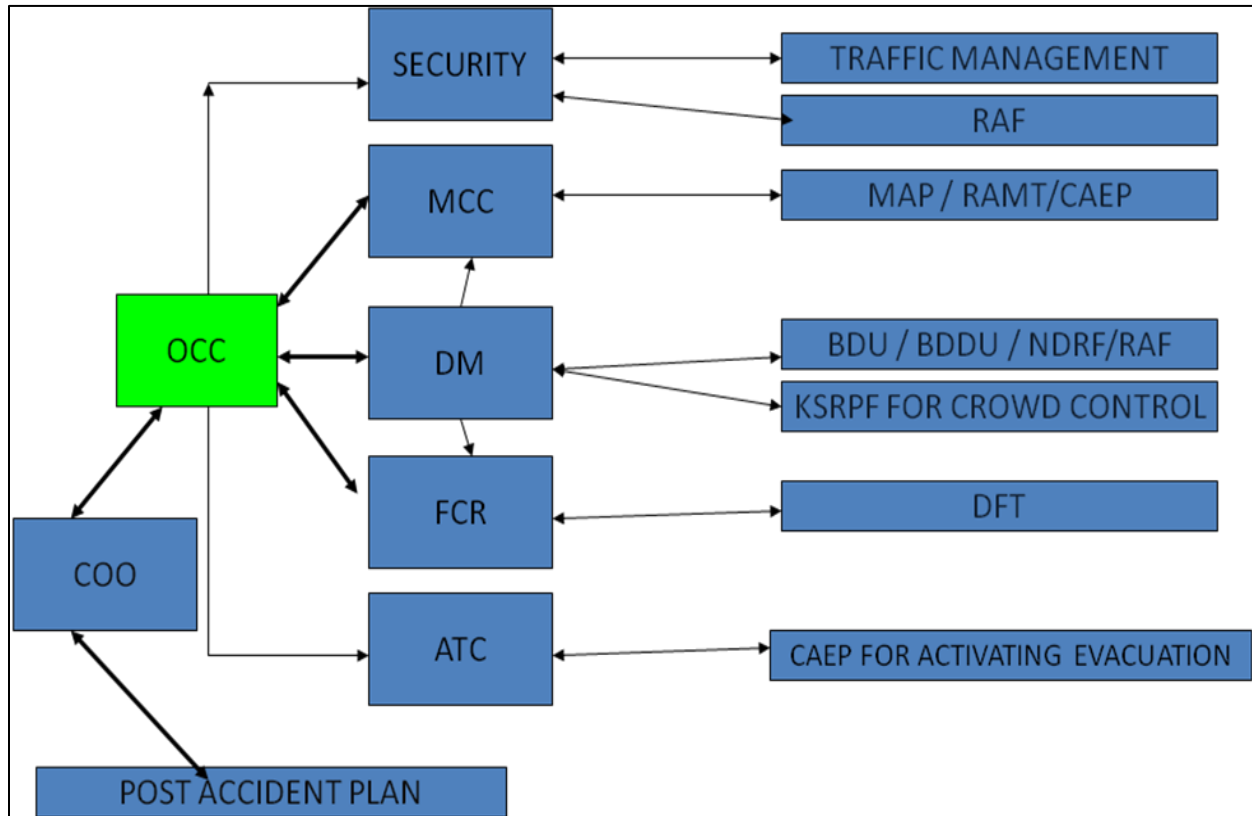
- iii. Prevent inflow of vehicles as well as pedestrians into the affected area except those belonging to DM, FCR and MCC
- iv. PAP to be activated by SASIO immediately
- v. Cordoning off the area to be done by Security/ NDRF/ RAF to isolate the area and evacuation of Public to be effected through all nearest gates (both exit and entry
- vi. Medical Team to effect medical aid immediately. Reinforcements from FAP, MAP and MCC to reach the crash site and MCC to also alert all civil hospitals
- vii. CFTs and DFTs to put-off fire if any
- viii. SAR, Ambulance ac to be ready for air evacuation
- ix. Announcement of instructions to be made on the PA system by OCC
- x. Evacuation of casualties by air (CASEVAC aircraft) to be effected through perimeter road/ runway /taxiway, further to TCCF dispersal for AN-32 and 112 HU dispersal for Mi-17 helicopters designated as air ambulances
- xi. Evacuation of casualties by road (to civil hospitals) to be effected through perimeter road/ runway /taxiway, further behind TCCF and 112 HU and via gate no 04 to the NH-7

c. Air Crash Off-base:

- i. ATC gives out the primary alarm and PAP to be activated by SASIO immediately.
- ii. ATC activates the SAR helicopter. SAR helicopter will carry SASIO, one Medical Officer with one Medical Assistant and security personnel. On reaching the crash site, the SAR helicopter will relay the position of the crash and also indicate the likely route to be followed by follow-on vehicles to reach the crash site.
- iii. ATC will simultaneously inform the Crash bay, fire fighting, rescue services and OCC for further information to OIC DM, Medical, Fire and Security.
- iv. OIC DM will activate SDMA representatives at Ambience Dhaba through hotline. SDMA rep will provide all assistance as required at the crash site and function under the command and control of AF authorities.
- v. Meanwhile OIC Fire will activate the CFTs and DFTs to put off fire at the site of crash.
- vi. On reaching site, security personnel to carry out cordoning of the area.

2. BOMB ALERT

Bomb Alert/Bomb scare is a disastrous catastrophic incident which could lead to loss of multiple lives through blast/stampede/structure collapse. Any such disaster during the Aero India if not dealt in a prompt way might result in loss of many lives and property. In case of any such scare the actions vary depending on the location and will be dealt in appropriate actions as laid down below.



1. Bomb Alert/ Blast in Exhibition Halls (EH) (A, B, C, D & E) including all Temporary structures adjoining 'A' hangar:

- a. Hall manager detailed by HAL will inform DM cell. OIC DM will inform OCC. Call will also be monitored by HAL personnel through their own internal communication channel and all entry to exhibition hall will be stopped by them with the help of Security personnel.
- b. OCC to inform CSO, FCR and MCC and simultaneously inform COO. COO to stop all flying during period of active flying and divert aircraft if required. COO is also to activate Cas-Evac ac if required.

Security personnel of the HAL at the EH and RAF augmented from OCC to take charge of crowd control and direct the crowd towards the respective emergency exits.

- c. OIC DM to activate NDRF and CRPF/ KSRPF platoon to reach in their own integral transport. These platoons will route through road behind EHs (i.e. Hangars A, B and C) towards EH 'E' and then turn right for the affected EH. DFTs behind the EH would be activated by FCR. Security manning road blocks to assist in smooth flow of the relief vehicles and also assist in directing the crowd towards ADVA area.
- d. CSO to activate Garud force (25 members) for assisting civil police in detection of miscreants/ isolation of bomb site and inform OCC. CSO will also alert inner tier of DSC and outer tier (police) through ACP at SCC. ACP to also inform traffic Police to regulate flow of traffic especially relief vehicles.
- e. DM will call in BDDU to ascertain any more number of bombs and defuse them at the nearest bomb disposal site.
- f. Medical teams to be activated by the MCC and deployed at the EH to take charge of providing immediate first aid to the injured, if any.
- g. RAF and HAL Security guards in EH to channelise the crowd out of the affected EH through the emergency exits and direct them to the car park at ADVA.
- h. Evacuation of casualties by road to the hospitals to be effected through Gate no 3 and 4 (undershoot of R/W 27) from EH. Ambulance to be routed through NH7 to Yelahanka or to Bangalore city.
- i. Hangar I/C via HAL to co-ordinate announcement on the public address system for information on emergency exits and urge crowd not to panic.
- j. The nearby hangars also to be evacuated to prevent any untoward activity such as stampede. This action is to be done by HAL.

2. Bomb Alert/ Blast at Inauguration Site:

All security measures will be undertaken by protocol. All components of OCC will provide support as and where required.

- a. Evacuate the VVIPs/ VIPs from the site.
- b. Nearby security personnel to cordon off the area and facilitate evacuation of the public towards the open area to the East of inauguration site.

- c. BDU and NDRF will be deployed by OIC DM to take the necessary action as per SOP.
- d. Inform MCC. Mobile cardiac aid post at the site to take charge of providing first aid as required.
- e. Evacuation to be coordinated by MCC and DM team in conjunction with NDRF and RAF.
- f. The DFTs at the Chalets and Hangars 'C' and 'D' should reach the site at the earliest and take actions as required.
- g. CAEP (Casualty Air Evacuation Post) to be activated if necessary.

3. Bomb Alert/ Blast in ADVA:

- a. I/C Security of IAF (P) will give a call to Chief Security Officer (CSO) at SCC on Motorola. DM Rep at ADVA to inform DM Cell. Security and RAF at the ADVA to take charge of crowd control.
- b. Entry to ADVA will be stopped. Simultaneously, IAF(P)/ NDRF personnel will cordon off blast site.
- c. CSO to activate Garud force (25 members) for assisting civil police/BDU in detection of miscreants/ isolation of bomb site and inform OCC. CSO will also alert inner tier of DSC and outer tier (police) through ACP at SCC. ACP to also inform traffic Police to regulate flow of traffic especially relief vehicles.
- d. OCC to inform DM, FCR and MCC and simultaneously inform COO. COO to stop all flying during period of active flying and divert aircraft if required and activate CASEVAC ac if required.
- e. OIC DM to activate NDRF & CRPF/ KSRPF platoons at ADVA and through the ACP ask for one reserve platoon of CRPF/KSRPF from AF Cinema Hall to reach in their own integral transport if required and tasked. Route of the CRPF/ KSRPF platoon would be through Gate No. 2 into AF Technical Area, follow road behind A, B, and C hangars and chalets to the ADVA. Same route to be followed by Fire fighting vehicles. Security manning road blocks to assist in smooth flow of the relief vehicles.
- f. Medical team to be activated by the MCC and deployed at the ADVA to take charge of providing immediate first aid to the injured, if any.
- g. OIC DM will call in BDDU to ascertain any more number of bombs and defuse them.
- h. DSC and Security guards in ADVA at the barricades to prevent spillage of crowd East and North of the ADVA and to open the Emergency gates for evacuating crowd and direct them to the car parking area.
- i. Evacuation of casualties by road to be affected from ADVA through PTT till end of R/W 27, thereafter vacate via Gate 3 & 4 onto the main highway. In case evacuation by air is to be resorted to, then the route to be followed from ADVA will be via PTT, 09 dumb- bell onto northern taxi

track leading to the air ambulance parked at TCCF dispersal. **Any movement on operating surfaces is to be undertaken only on clearance by OCC in co-ordination with COO.**

4. Bomb Alert/ Blast in Static Display Area (SDA)/ Exhibition Area (EA):

All reactions to a threat are to be assumed to be for worst case scenario.

- a. I/C Security of SDA will give a call to CSO at SCC on Motorola. DM Rep at SDA/ EA to inform DM Cell. Security at SDA to take charge of crowd control.
- b. Entry to ADVA will be stopped by them. Simultaneously, IAF (P)/ NDRF personnel will cordon off blast site with civil police.
- c. CSO to activate Garud force (25) members for assisting civil police/BDU in detection of miscreants/isolation of bomb site and inform OCC. CSO will also alert inner tier of DSC and outer tier (police) through ACP at SCC. CSO to send one Garud team to Chalet area. ACP to also inform traffic Police to regulate flow of traffic especially relief vehicles.
- d. OCC to inform DM, FCR and MCC and simultaneously inform COO. COO to stop all flying during period of active flying and divert aircraft if required and activate Casevac ac if required.
- e. OIC DM to activate RAF, CRPF/ KSRPF platoon and through the ACP ask for one reserve platoon of RAF, CRPF/ KSRPF from AF Cinema Hall to reach in their own integral transport if required and tasked. Route of the RAF, CRPF/ KSRPF platoon would be through Gate No. 2 into AF Technical Area. The RAF, CRPF/ KSRPF will then disembark and will be deployed at the site by ACP. DFTs in sector 3 & 4 will use the road between Halls 'A' and 'B' and will approach the SDA/ EA. Security manning road blocks to assist in smooth flow of the relief vehicles.
- f. MCC will activate the Medical Team for SDA/ EA and alert FAP to provide immediate first aid to the injured, if any.
- g. OIC DM will call in BDDU to ascertain any more numbers of bombs and diffuse them.
- h. DM team, DSC and Security guards in SDA/ EA will prevent spillage of crowd from SDA/EA and direct them to the exit gates.
- i. Evacuation of casualties by Medical Team by road to be affected through Gate No 4 (undershoot of RW 27) after crossing runway through Link D. Ambulances are to be routed via NH-7 Road to Yelahanka or to Bangalore city. The barricades will be cut with the help of DM assets, security and HAL personnel to make the passage clear for ambulance route for NH-7 or CAEP locations.

Any movement on operating surfaces is to be undertaken only on clearance by OCC in co-ordination with COO.

- j. I/C Static Display in co-ordination with the C Eng O/ Handling agency to ensure the tow away of nearby ac as per static display evacuation plan.
- k. The PA system to be utilized to pass instructions to the crowd as required.

5. Bomb Alert/ Blast at the Area in front of Flight Operations Centre (FOC) and Behind Exhibition Halls:

- a. I/C Security of IAF (P) will give a call to chief security officer (CSO) at SCC on Motorola.
- b. All entry into AFSY through gates 1, 2 and 3 will be stopped. CSO will direct IAF (P) personnel to stop all the vehicles by the roadside.
- c. CSO to activate Garud force (25) members for assisting civil police/BDDU in detection of miscreants/isolation of bomb site and inform OCC. CSO will also alert inner tier of DSC and outer tier (police) through ACP at SCC. ACP to also inform traffic Police to regulate flow of traffic especially relief vehicles.
- d. OCC to inform DM, FCR and MCC and simultaneously inform COO. COO to stop all flying during period of active flying and divert aircraft if required and activate CASEVAC ac if required.
- e. OIC DM to activate NDRF platoon near OCC and through the ACP ask for one reserve platoon of RAF/ KSRPF from AF Cinema Hall to reach in their own integral transport if required and tasked. Route of the RAF/ CRPF/ KSRPF platoon would be through Gate No. 2 into AF Technical Area. DFTs in Zones 3 & 4 will reach the blast site. Security manning road blocks to assist in smooth flow of the relief vehicles.
- f. Medical team to be activated by the MCC and deployed at the ADVA to take charge of providing immediate first aid to the injured, if any.
- g. OIC DM will call in BDDU to ascertain any more numbers of bombs and diffuse them.
- h. DSC and Security guards at barricades to prevent spillage of crowd into the ac maneuvering area.
- i. Evacuation of casualties by Medical Team by road to be affected through Gate No 3 & 4 (undershoot of RW 27) from parking lot. Ambulance to be routed via NH 7 towards ChikBallapur, Yelahanka or to Bangalore city. **Any movement on operating surfaces is to be undertaken only on clearance by OCC in co-ordination with COO.**
- j. Evacuation is to be coordinated by MCC and DM team in conjunction with NDRF and RAF.
- k. Further entry of vehicles into the parking area to be prevented.
- l. The PA system to be utilized to pass instructions to the crowd as required.

6. Bomb Alert/ Blast at ADVA Parking:

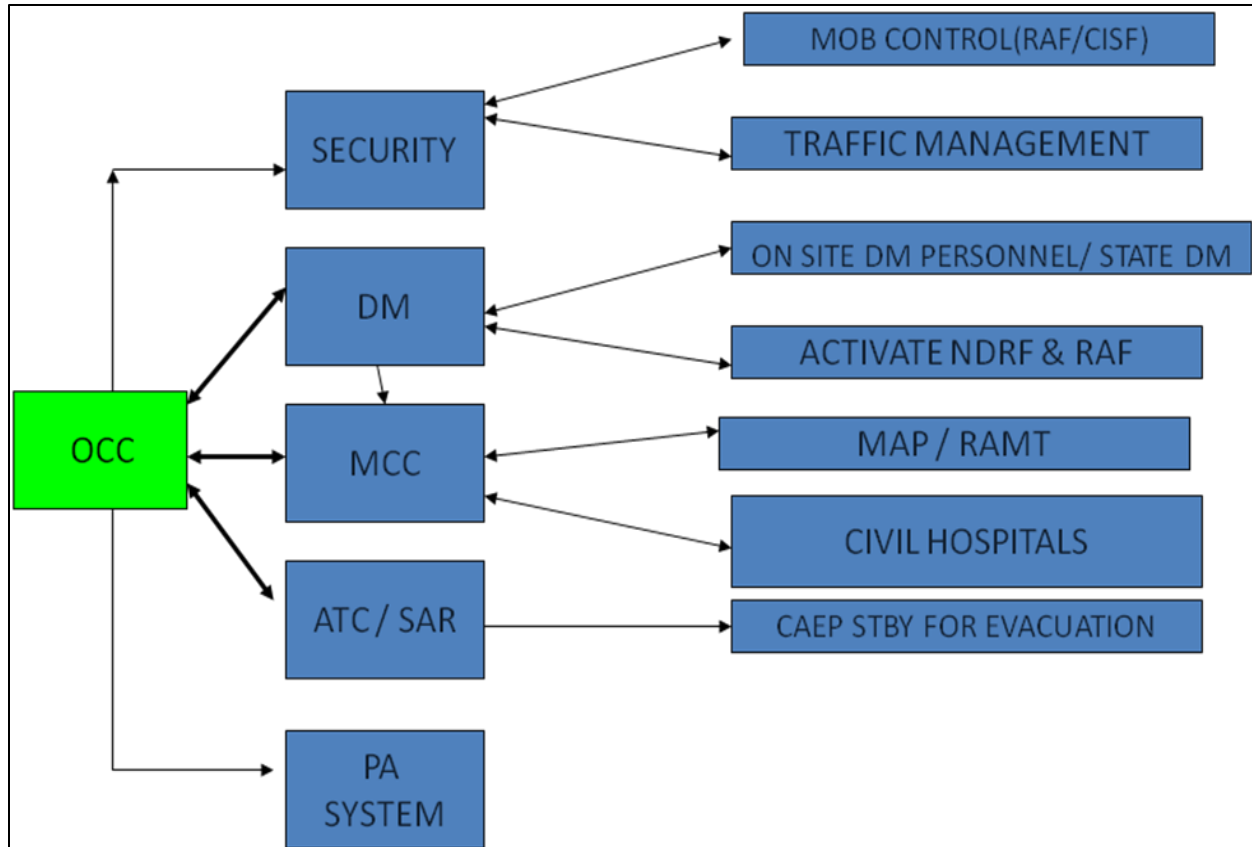
- a. I/C Security of IAF (P) will give a call to Chief Security Officer (CSO) at SCC on Motorola. All entry into AFSY through Gates 8 to 11 will be stopped. CSO will direct IAF (P) personnel to stop all vehicles in the Exhibition Area and by the roadside.
- b. CSO to activate Garud force (25 members) for assisting civil police in detection of miscreants/ isolation of bomb site and inform OCC. CSO will also alert inner tier of DSC and outer tier (police) through ACP at SCC. ACP to also inform traffic police to regulate flow of traffic especially relief vehicles.
- c. OCC to inform DM, FCR and MCC and simultaneously inform COO to stop all flying during period of active flying and divert ac and activate CASEVAC ac if required.
- d. OIC DM to activate RAF and CRPF/ KSRPF platoon at ADVA and through the ACP ask for one reserve platoons of RAF from cinema hall to reach in their own integral transport if required. Route of the RAF platoon would be from behind A, B and C hangars and chalets to the ADVA. Same route to be followed by Fire Fighting Vehicles. Security manning road blocks to assist in smooth flow of the relief vehicles.
- e. Medical Team be activate by the MCC and deployed at the ADVA to take charge of providing immediate first aid to the injured, if any.
- f. DM will call in BDDU to ascertain any more number of bombs and defuse them.
- g. DSC and Security guards at barricades to prevent spillage of crowd towards North and East of the ADVA.
- h. Evacuation of casualties by air (Cas Evac aircraft) is to be effected through perimeter road on undershoot of 09 and further to TCCF dispersal for AN-32 and 112 HU dispersal for Mi-8 designated as air ambulances.
- i. Evacuation of casualties by road (to civil hospitals) to be effected through perimeter road on undershoot of 09 and further behind TCCF and 112HU and via Gate no 04 to the NH-7. **Any movement on operating surfaces is to be undertaken only on clearance by OCC in co-ordination with COO.**
- j. Evacuation if required will be effected by the DM Team.
- k. Further entry of vehicles into the parking area is to be prevented by security personnel.
- l. The PA system to be utilized to pass instructions to the crowd as required.

7. Action in case of Bomb Alert/ Unexploded Bomb/ Bomb Blast:

- a. On receipt of information about an unexploded bomb from OCC, FCR is to direct the TFFL/ DFT positioned near to the contingency site to reach and maintain a safe distance from the unexploded bomb till the time a clearance from BDDU/ OCC is received about the bomb being diffused.
- b. Once the bomb has been ignited on impact, the fire is extremely difficult to control in the area, which is directly affected by the bomb. Very little can be done for the actual direct hit area. However, immediate action should be taken to prevent the conflagration from spreading further.
- c. All the available foam making equipment should be put into operation immediately by FCR. Water should never be used to extinguish 'incendiary bomb' fires.
- d. Immediately FCR is to inform to OCC for augmentation of CFTs as CFTs would be very effective in combating incendiary bomb fires and must be put into use.

3. STAMPEDE

Any large scale event is vulnerable for people suddenly moving uncontrollably led by a fear caused by an incident such as fire/crash/bomb alert/air crash. Stampede is a deadly and dangerous situation because in this the crowd surges beyond the capacity of a space moving in same direction at the same time. Aero India is an event where any such eventuality will have to be handled to prevent such kind of vicious outcome. A similar incident during Aero India needs careful and dedicated response from all the agencies.



1. Stampede in ADVA:

- a. I/C security of IAF (P) will give a call to Chief Security Officer (CSO) at SCC on Motorola. DM Rep at ADVA to inform DM Cell. Security at ADVA to take charge of crowd control.
- b. All entry to ADVA will be stopped.
- c. CSO/ ACP to activate RAF/ KSP for assisting civil police. I/C Security to inform OCC. CSO will also alert inner tier of DSC and outer tier (police) through ACP at SCC. ACP to also inform traffic Police to regulate flow of traffic especially relief vehicles.
- d. OCC to inform DM, FCR and MCC and simultaneously inform COO. COO to stop all flying during period of active flying and divert aircraft if required and activate Casevac ac if required.
- e. OIC DM to activate RAF & CRPF/ KSRPF platoons at ADVA and through the ACP ask for one reserve platoon of CRPF/ KSRPF from AF Cinema Hall to reach in their own integral transport. Route of the CRPF/ KSRPF platoon would be through Gate No. 2 into AF Technical Area, from behind A, B, and C hangars and Chalets to ADVA. Same route to be followed by Fire fighting vehicles. Security manning road blocks to assist in smooth flow of the relief vehicles.

- f. Medical team to be activated by the MCC and deployed at the ADVA to take charge of providing immediate first aid to the injured, if any.
- g. DSC and Security guards in ADVA at the barricades to prevent spillage of crowd East and North of ADVA and open the Emergency gates for evacuating crowd and direct them to the car park.
- h. Evacuation of casualties by road to be affected through Gate No 12 (undershoot of RW 09) from ADVA. Ambulance to be routed through via Dodda Ballapur Road to Yelahanka or to Bangalore city.
- i. The PA system to be utilized to pass instructions to the crowd as required.

2. Stampede in Static Display Area (SDA)/ Exhibition Area (EA):

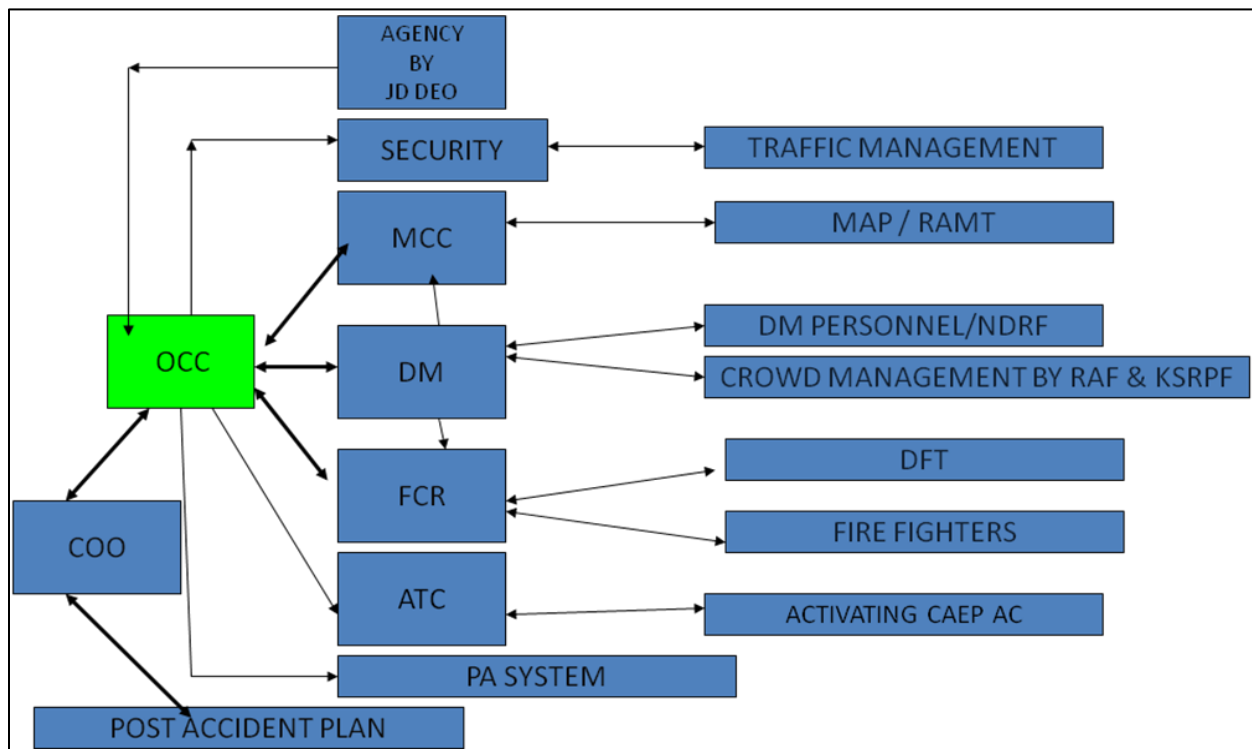
- a. Security, Patrols observers from watch towers, MAPS Commentator's box and ATC tower may be utilized to give info about stampede in any of the area.
- b. I/C Security of SDA will give a call to CSO at SC on Motorola. DM Rep at SDA/ EA to inform DM Cell. Security at SDA to take charge of crowd control. Call also monitored by D (DEO) personnel and all entry to SDA/ EA will be stopped by them.
- c. CSO to inform ACP for providing RAF from OCC and inform OCC. CSO will alert inner tier of DSC and outer tier (police) through ACP at SCC. CSO to send one Garud team to Chalet area. ACP to also inform traffic police to regulate flow of traffic especially relief vehicles.
- d. OCC to inform DM, FCR, I/C Static Display and MCC and simultaneously inform COO to stop all flying during period of active flying and divert ac and activate CASEVAC ac if required.
- e. OIC DM to activate RAF platoon through the ACP and ask for one reserve platoon of RAF from AF Cinema Hall to reach in their own integral transport if required. Route of the RAF platoon would be through Gate No2 into AF Technical Area. The RAF will then disembark behind Hall 'A' and 'B' and will be deployed at site by ACP. Security manning road blocks to assist in smooth flow of the relief vehicles. DSC and Security guards in SDA/ EA will prevent spillage of crowd from SDA/ EA and direct them to the exit gates.
- f. MCC will activate the Medical Team for SDA/EA and alert FAP to provide immediate first aid to the injured, if any. Evacuation of casualties by air (CASEVAC aircraft) to be effected through perimeter road on undershoot of 09 and further to TCCF dispersal for AN-32 and 112 HU dispersal for Mi-8 designated as air ambulances.

- g. Evacuation of casualties by Medical Team by road to be affected through Gate No 4 (undershoot of RW 27) after crossing runway through Link D. Ambulances are to be routed via nh-7 Road to Yelahanka or to Bangalore city. The barricades will be cut with the help of security and EH (DEO) personnel to make the passage clear for ambulance route for NH-7 or CAEP locations.
- h. I/C Static Display in co-ordination with the C Eng O/Handling agency to ensure the tow away of nearby ac as per static display evacuation plan.
- i. The PA system to be utilised to pass instruction to the crowd as required.

4. FIRE

1. Fire:

Due to presence of different type of equipment and material in the Aero India venues, any minute process or instance of combustion might lead to fire of uncontrollable nature. It is a necessity that all personnel participating the Aero India including the exhibitors and visitors are fire safety conscious. **FIRE SAFETY AWARENESS** is a key to prevent any untoward event. A prompt and responsible action is imperative to avoid any case of burn injuries, fatality or severe damage to property.



2. Fire in Hangar:

- a. Fire watchers in hangar to inform OCC through OIC hangar. OCC to activate DM, FCR and MCC.
- b. Hall manager to direct cut-off of power supply to the hangar to prevent spreading of fire, if fire is electrical.
- c. Fire extinguishers in the hangar to be utilized by the exhibitors and fire watchers of the HAL for firefighting till further help arrives. FCR will activate DFTs placed behind hangar A & C may be relocated to fight fire as required.
- d. MCC to activate FAP to provide necessary medical aid.
- e. Hall manager to activate PA system for giving directions to the public for exit and evacuation.
- f. Security personnel of the HAL to open Emergency exits for access to outside. DM team is to assist security for the same.

3. Fire in Chalets/ Restaurants:

- a. Fire watchers of EM in Chalets/Restaurants to inform FCR. FCR to inform OCC to activate DM, CSO and MCC.
- b. Fire watchers to cut off of power supply to the hangar to prevent spreading of fire, if fire is electrical.
- c. Hand held fire extinguishers in the Chalets/restaurants to be utilised by the fire watchers of HAL for firefighting till further help arrives. Fire points are set up outside Restaurants. These extinguishers can also be used to fight fire. Civil DFT near the Dornier DSS is to be diverted to reach the Chalet/Restaurant area. DFTs placed behind hangar A & C may be relocated to fight fire as required.
- d. MCC to activate MAP to provide necessary medical aid.
- b. Evacuation to be coordinated by Security and DM team in conjunction with NDRF and RAF.

4. Fire in domestic area vehicle parking-Sector 4 (P-4):

- a. Fire Watchers/ DM Personnel deployed at P-4 parking area are to inform the FCR/ OCC and DFT/ TFFL positioned at P-4 parking area (at the corner of walking track).
- b. At the same time Fire watchers should start fire fighting by using fire extinguishers from the nearby fire point which will be placed at P-4 parking.
- c. CC to activate DM, FCR and MCC.
- d. DFT at the P-4 parking area to reach the spot and combat fire. Additional DFTs positioned at Shopping Complex, URC including 01 CFT positioned near Gas Agency may be called for assistance by FCR, if reqd.

- e. Security at the spot to evacuate public from the area with the help of Karnataka State Reserved Police.
- f. MCC to provide first aid to the injured, if any.
- g. The nearest water resources for refilling of fire vehicles are given as follows:

SWTs-

- 1. SMQ
- 2. OMQ
- 3. SMC
- 4. URC
- 5. DSC Mandir

Over Head Refilling

- 1.OMQ
- 2. MES Pump House near SMC

5. Fire in Sector-3 vehicle parking (P-2, P-3):

- a. Fire Watchers/ DM Personnel deployed at respective parking areas are to inform the FCR/ OCC.
- b. At the same time Fire watchers should start fire fighting by using fire extinguishers from the nearby fire point placed at respective parking areas.
- c. OCC to activate DM, FCR and MCC.
- d. DFT /TFFL positioned at Sector-3 will be directed specifically to the site and combat fire. Additional fire vehicles may be called for assistance by FCR, if required.
- e. Security at the spot to evacuate public from the area with the help of Karnataka State Reserved Police.
- f. MCC to provide first aid to the injured, if any.
- g. The nearest water resources for refilling of fire vehicles are given as follows:

SWTs-

- 1. AS Sec
- 2. ATC
- 3. MT Sec
- 4. Lgs Sec

Over Head Refilling

- 1. ATC
- 2. 27 Runway End
- 3. Beside D Hangar

6. Fire in Sector-2 parking area (P-6 Chalet Area):

- a. Fire Watchers/ DM Personnel deployed at respective parking areas are to inform the FCR/ OCC.

- b. At the same time Fire watchers should start fire fighting by using fire extinguishers from the nearby fire point placed at respective parking areas.
- c. OCC to activate DM, FCR and MCC.
- d. DFT/ Water Bowser positioned at Sector-2 will be directed specifically to the site and combat fire. Additional fire vehicles may be called for assistance by FCR, if required.
- e. Security at the spot to evacuate public from the area with the help of Karnataka State Reserved Police.
- f. MCC to provide first aid to the injured, if any.
- g. The nearest water resources for refilling of fire vehicles are given as follows:

SWTs-

- 1. AS Sec
- 2. ATC
- 3. Magazine Bldg

Over Head Refilling

- 1. Beside D Hangar
- 2. ATC
- 3. 27 Runway End

7. Fire in Sector-1 parking area (P-5 ADVA Area, P-7 Inaugural area):

- a. Fire Watchers/ DM Personnel deployed at respective parking areas are to inform the FCR/ OCC.
- b. At the same time Fire watchers should start fire fighting by using fire extinguishers from the nearby fire point placed at respective parking areas.
- c. OCC to activate DM, FCR and MCC.
- d. TFFL/ Water Bowser positioned at Sector-1 will be directed specifically to the site and combat fire. Additional fire vehicles may be called for assistance by FCR, if required.
- b. Security at the spot to evacuate public from the area with the help of Karnataka State Reserved Police
- a. MCC to provide first aid to the injured, if any.
- b. The nearest water resources for refilling of fire vehicles are given as follows:

SWTs-

- 1. Magazine Bldg
- 2. 09 Runway End
- 3. ATC
- 4. AS Sec

Over Head Refilling

- 1. Beside D Hangar
- 2. ATC
- 3. 27 Runway End

8. Fire in ADVA:

- a. Information to OCC/FCR/DM cell
- b. FCR to activate DFT at the ADVA to reach the spot and fight fire.
- c. Security to evacuate public from the area.
- d. Security to keep the crowd under control and facilitate the movement of DFT in the area.
- e. Medical Team to reach the spot and provide first aid if required.

9. Fire in Buildings/ Installations/ Sections under Air Force/ MES:

- a. Any person discovering an outbreak of fire will shout '**Fire**' for assistance and at the same time try to put it out by using the available fire extinguisher from the nearest Fire Point.
- b. Notify FCR/ OCC.
- c. In case of an electrical fire cut off the main power supply to the respective building / Sec to prevent spreading of fire.
- d. OCC to activate DM, FCR and MCC.
- e. FCR is to direct the TFFL/ DFT positioned near to the fire location to reach the site and combat fire. Additional fire vehicles may be called for assistance by FCR, if required. During non working hour, FCR/ Station Fire Section is to route the TFFL available in the Fire Section to tackle fire. Activate Karnataka State Fire Services for assistance, if required.
- f. Security at the spot to evacuate public from the area with the help of Karnataka State Reserved Police.
- g. MCC to provide first aid to the injured, if any.

10. Fire in Buildings/ Installations/ Sections handed over to HAL:

- a. Any person from event management/ exhibitor/ HAL discovering an outbreak of fire will shout '**Fire**' for assistance and at the same time try to put it out by using the available fire extinguisher from the nearest Fire Point arranged by HAL/ Event Management.
- b. Notify FCR / OCC through the fire watchers positioned at the location or directly give call to FCR on Mobile No.
- c. In case of an electrical fire, cut off the main power supply to the respective building/ sec to prevent spreading of fire
- d. OCC to activate DM, FCR and MCC.

- e. FCR is to direct the TFFL/ DFT positioned near to the fire location to reach the site and combat fire. Additional fire vehicles may be called for assistance by FCR, if required.
- f. During non working hour, FCR/ Station Fire Section is to route the TFFL available in the Fire Section to tackle fire. Activate Karnataka State Fire Services for assistance, if required.
- g. Security at the spot to evacuate public from the area with the help of Karnataka State Reserved Police.
- h. MCC to provide first aid to the injured, if any.

11. Fire at IOC/ Bulk petroleum installation:

Fire at IOC will be a major fire and would require undivided attention by all fire fighting agencies in the event of an outbreak of fire.

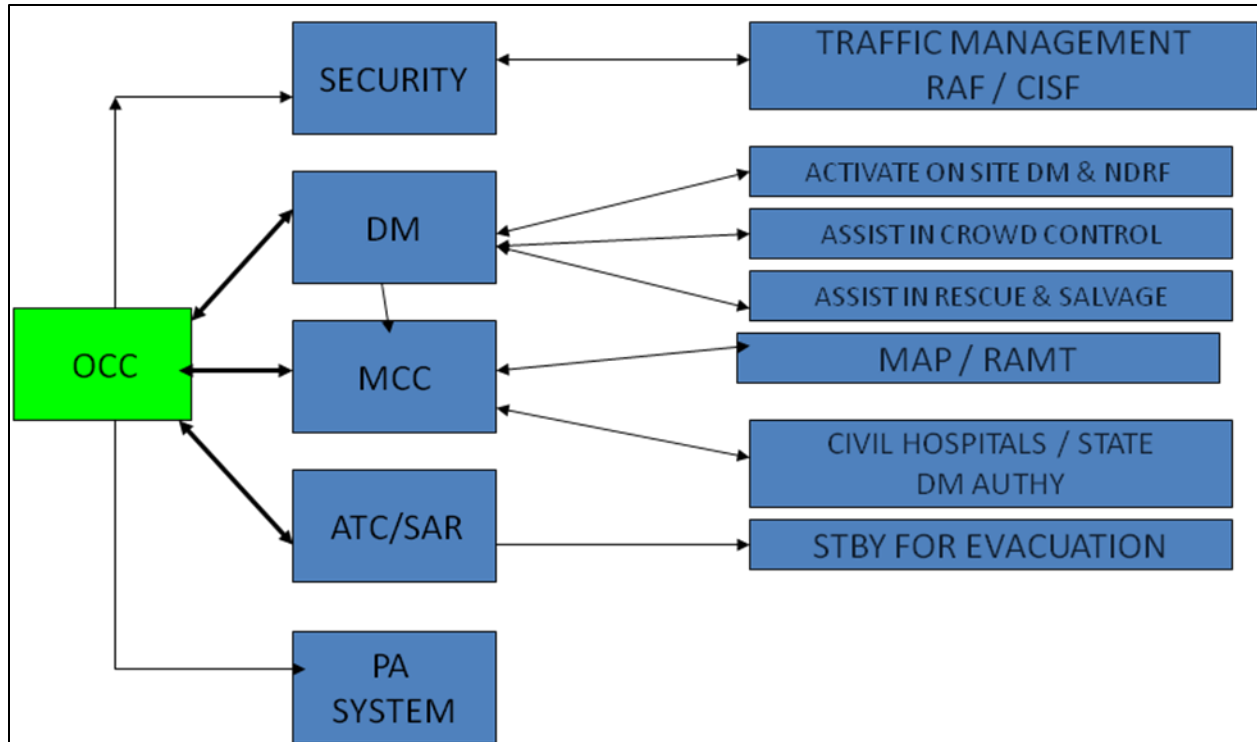
- a. Any person of IOC discovering an outbreak of fire will shout '**Fire**' for assistance and at the same time try to put it out by using the available fire extinguisher from the nearest Fire Point available at IOC.
- b. IOC Manager is to activate their fire team by blowing fire alarm and at the same time inform to FCR/OCC.
- c. IOC Manager is to detail employees to start fire fighting by using Fire Trailer Pump available in IOC.
- d. FCR is to direct the TFFL/ DFT positioned at Sector-3 near to reach the site and combat fire. Additional fire vehicles may be called for assistance by FCR, if required.
- e. Immediately FCR is to inform OCC for augmentation of CFTs as CFTs would be very effective in combating liquid fires and must be put into use.

Note: Nearest Fire hydrants may be used for fire fighting or refilling of DFTs.

5. STRUCTURE COLLAPSE

1. Structure Collapse:

The failure of integrity of any structure might lead to widespread destructions as well as multiple injuries and fatalities. There might be trapped victims and important properties. Hence the extent of damage is further aggravated by any delay in recovery and rescue. All the rescue agencies should act in the most suitable manner to reduce the casualty.



2. Hangar Collapse:

- a. HAL personnel are to inform OCC/DM/MCC
- b. Electrical supply to the Hangar to be switched off by hall I/C of HAL.
- c. Security at the hangar to evacuate public from the hangar. I/C Hangar of HAL to take charge and get all exit gates open along with security and DM team.
- d. Clear all public from the vicinity of the Hangar towards ADVA, should it start collapsing onto the public. Security and DM team is to assist in the process.
- e. Medical team from MAPs to reach the hangar and start first aid.
- f. Segregation and evacuation of injured to be effected by MCC.
- g. NDRF team to initiate salvage and restoration process.

V. INCIDENT RESPONSE MECHANISM

The Incident Command System (ICS) broadly refers to a management system for incidents of various kinds and sizes, such as earthquakes, floods, cyclones, landslides, etc., emergencies caused by train accidents, or epidemics. The system provides scope to organize various functions, tasks and staff within the overall response process while emphasizing greater coordination and communication among different organizations involved.

ICS as a system is flexible and adaptable to suit any scale of natural **and man-made emergencies/incidents**. It can be helpful in routine emergencies such as road and train accidents and large, complex multi-jurisdictional disasters such as tsunamis. As a management system, ICS draws its strengths from its applicability to different kinds of incidents/disasters of varying scales. The main intention of the ICS is to transform the confusion during the early stage of an emergency into a well-managed response process.

The Guidelines on the Incident Response System (IRS) were issued by the National Disaster Management Authority (NDMA) under Section 6 of the DM Act, 2005, for effective, efficient and comprehensive management of disasters in India. The objective of applying the principle of IRS in AERO INDIA 2023 is to standardize the disaster response mechanism under a unified command during the event and bring clarity to each stakeholder's role, thereby minimizing loss and damages in case of an untoward incident.

Unified Command is an IRS management process allowing all departments/agencies/stakeholders with jurisdictional or functional responsibility for the incident to develop a standard set of incident objectives and strategies jointly.

The overall coordinating officers of AERO SHOW Disaster Management are as follows:

Name and Designation	Contact	Area of Responsibility
Shri. Anil Kumar T K , Relief Commissioner & Principal Secretary, Revenue Department (DM), Government of Karnataka	Mob: 94484 64333	Off-site Disaster Management and coordination with On-site Disaster Management
Dr. Manoj Rajan , Commissioner, Karnataka State Disaster Management Authority, Revenue Department (DM), Government of Karnataka	Mob: 9448290282	
Shri GP Capt AR Singh, IAF	Mob: 96778 04434	On-site Disaster Management

There will be Incident Commanders each for On-site and Off-site Disaster Management. Senior Officer from IAF shall be Incident Commander for On-site. Senior Officer from Karnataka shall be Incident Commander for Off-site Disaster Management.

Incident Commander (IC) has responsibility for all functions and shall be seated in Integrated Communication Command Center (ICCC) along with Response and Planning Officers, Logistics Officers and Medical Response Officer. IC shall coordinate and issue necessary directions as the situation warrants. Incident Commander shall report to Coordinating Officers.

Deputy Incident Commanders are responsible for directing the tactical actions to meet incident objectives, collecting, evaluating, and displaying incident information, maintaining the status of resources, and preparing the Incident Action Plan and incident-related documentation in their departments.

Assistant Incident Commanders are responsible for providing adequate services and support to IC and DIC during the event needs. Identify Staging and Assembly areas and provide necessary facilities at Staging and assembly areas.

Staging Area is a temporary location for placing resources for response (men and equipment). The area should be strategically located on-site and off-site to enable the deployment of resources at the quickest possible time.

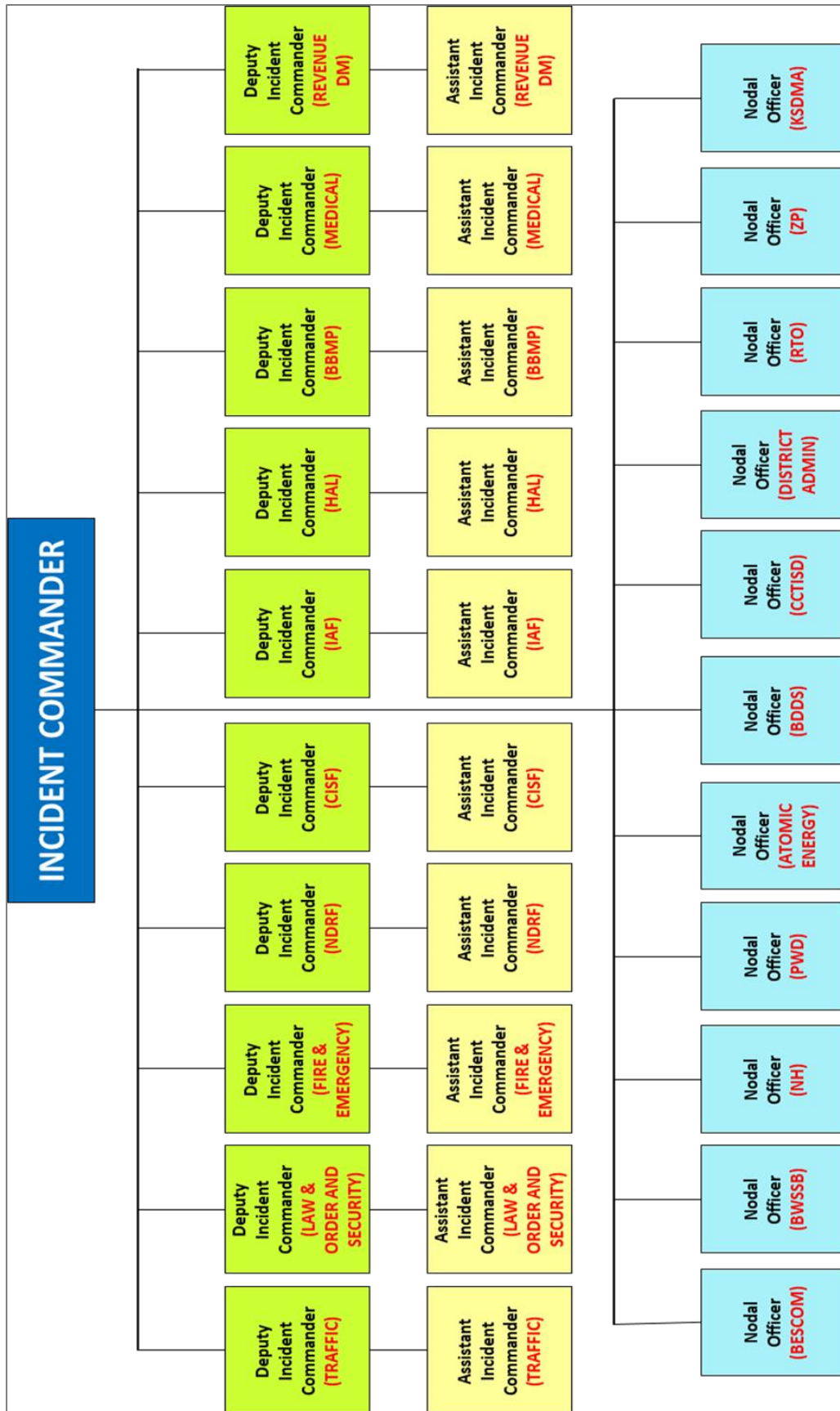
Assembly Area: An area designated to shelter people in the event of an untoward incident.

The Staging and assembly areas are marked in the KGIS portal.

Sectoral Officers: Each 5 k x 5K grid (except grid 5, which is a core area) shall have Sectoral officers, who will be designated as incident commanders for the respective sector, along with a team of incident management teams at strategic locations. Grid No.5, which is the core area, shall be under the direct supervision of the Incident Commander.

In case of an event, the Incident Commander shall activate the hazard-specific response plan as per the SOPs. IC shall take stock of the situation and deploy an appropriate response team with equipment.

THE STRUCTURE OF INCIDENT RESPONSE SYSTEM FOR OFF-SITE IS AS FOLLOWS:



INCIDENT COMMANDER

The Incident Commander (IC) would be the overall in charge of any incident or accident reported in the Off-site area. IC would take quick stock of the situation from Deputy Incident Commandants (DICs) and Sectoral Officers and deploy concerned response teams with equipment and other resources to the incident site. IC shall manage and supervise the Integrated Communication Command Center. He would report the incident to the Relief Commissioner/ Commissioner, KSDMA. The following are the main functions of IC during the event.

1. Take measures to mitigate the emergency in association with various emergency services like fire and police.
2. To keep an Inventory of resources (human and equipment) on emergency response.
3. Physically check the resources at the staging area before deploying the resources to strategic locations.
4. Keep in constant touch with the DICs and Sectoral Officers for situational awareness.
5. Request additional help like a specialized workforce or equipment to handle the emergency effectively.
6. Rescue and evacuate the people from the affected area and shift them to the Assembly area. Ensure setting up of assembly area with basic amenities.
7. Coordinating with DIC Medical to provide medical aid, triaging and shifting of injured or sick to hospitals.
8. Providing necessary support to all Emergency Support Functionaries, including timely food and refreshment.

DEPUTY INCIDENT COMMANDER (TRAFFIC)

Depending on the type of disaster, the traffic police would take control of the traffic movement and play a significant role in handling such emergencies. Their duties include stopping traffic approaching the affected area and advising the crew about impending danger. Ensure tankers containing hazardous chemicals are parked in safe places. Check for alternate routes and divert the traffic in a controlled manner to prevent congestion in diversions. Keep close liaison with other police agencies and assist in crowd control around the affected area. Make way for emergency and relief vehicles on a priority basis. Monitor the condition of the blocked road and resume regular traffic only when the affected area is declared safe.

DEPUTY INCIDENT COMMANDER (LAW & ORDER AND SECURITY)

Would be responsible for ensuring law and order and security issues in the Off-site area. Close liaisoning with Central Agencies on security issues, exchange of intel inputs, etc. Maintaining constant vigil across all sectors as per the SOPs of the department and ensuring adequate deployment of forces and resources based on the vulnerability profile of the area. Contingency planning based on anticipated threats.

DEPUTY INCIDENT COMMANDER (CISF)

Security of vital installation and other functions assigned as per security plan.

DEPUTY INCIDENT COMMANDER (NDRF)

Responsible for emergency response in case of CBRN disaster, structure collapse, and other emergencies.

DEPUTY INCIDENT COMMANDER (HAL)

Responsible for facility management and support to all emergency support functionaries.

DEPUTY INCIDENT COMMANDER (FIRE)

Responsible for fire safety and response in the off-site area. The functions will be as per the Off-site Plan of KSF & ES, which is annexed as Annexure IV.

DEPUTY INCIDENT COMMANDER (MEDICAL)

Responsible for setting up screening and triaging areas for COVID, medical aid posts off-site (staging area, assembly area), and deploying mobile medical vehicles at Incident Command Posts. Management of ambulance and other issues on medical response shall be coordinated and supervised by the Medical Response Officer. Identify the nearest hospital based on triage in the event of an untoward incident.

Creating a Database on hospitals along with contact details, number of burn wards, blood banks etc. The list of hospitals and relevant attributes will be mapped on KGIS. The list of hospitals along with contact details, blood banks along with contact details, and ambulance deployed are annexed as **Annexure I**.

DEPUTY INCIDENT COMMANDER (BBMP)

Responsible for solid waste management in on-site and off-site areas to prevent birds from flocking.

Ancillary support to emergency support functionaries.

DEPUTY INCIDENT COMMANDER (DEPUTY COMMISSIONER - REVENUE)

The responsibility includes initiating and maintaining coordination and cooperation with various agencies and providing prompt information, decisions and infrastructure facilities as requested. The main functions include declaring an emergency after confirming the magnitude of the Disaster. Activate the Emergency Control Room at Deputy Commissioner's office and make it functional. Coordinate and establish contact with all agencies involved in emergency actions. Ensure actions have been initiated to contain the Emergency. Initiate evacuation of people from the affected area with the assistance of Police, fire and other agencies. Depending on the type of Emergency, mobilize additional resources like heavy lifting gears, line cranes, and bulldozers for rescue and mitigation operations. Set up safe shelters for evacuated people and ensure they receive food and medical attention as needed. Keep the State Administration informed regarding the Disaster and the steps taken to contain the same.

VI. TRAFFIC MANAGEMENT:

Managing traffic during a major event like AERO SHOW requires continuous and effective coordination and collaboration with all stakeholders. Experts divide traffic congestion into recurring and non-recurring; recurring congestion refers mainly to relatively predictable congestion that happens periodically at certain hours due to many vehicles on the road network. On the other hand, non-recurring congestion is defined as unusual congestion caused by unpredictable incidents such as accidents, vehicle breakdowns, adverse weather conditions or planned special events. Traffic awareness can be detected using Traffic surveillance (CCTV cameras, information from the ground), crowd-sourcing (social media), etc.

The travel patterns of people attending the event differ from their daily mobility because of prevailing COVID-19 situations where people prefer commuting in their vehicles. The weekend is likely to see a surge, which will choke the traffic.

The impact of traffic during the AERO SHOW event on the performance of the transportation system is not limited to off-site areas; the congestion can also spill over to arterial roads across the city (cascading effect), which has the potential to cause major gridlock. A holistic traffic management plan is formulated by Bengaluru City Traffic Police factoring worst-case scenario.

Appropriate strategies will be formulated to encourage people to use public transport (dedicated BMTC buses to AERO SHOW), designating approach roads which have to be widely publicized to reduce the road on an arterial road. Traffic Police will firm up the traffic plan once the parking area is finalized.

Traffic Management Systems will act as Decision Support Systems (DSS) based on traffic surveillance cameras and crowd-sourced information (social media) inputs. An appropriate contingency plan will be evolved based on the situation.

The traffic management plan, routes and parking details are annexed as Annexure III. The Traffic management plan includes a transportation corridor (zero traffic) for shifting victims in case of an event.

TRANSPORTATION (REGIONAL TRANSPORT OFFICER)

The transportation department plays a vital role during any Disaster as it involves large-scale evacuation of people in the affected area. RTO/ARTO would be based at ECR and assist the District Administration in mitigating the Emergency. The main functions are,

1. Deploy the required number of buses with drivers to evacuate people to safe shelters.
2. Mobilize earthmoving equipment and other heavy machinery from different sources required for rescue operations.
3. Provide a mobile workshop if required for urgent repairs/breakdowns.
4. Assist as required and directed by the Superintendent of Police/Deputy Commissioner.

HIGHWAY / ROAD

Depending on the type and location of the Disaster, the in-charge of the PWD/Highway or Irrigation department representatives would make themselves available at the ECR and maintain close contact with their engineers who would be at the scene of the Disaster.

The main functions are

1. Help the Police to divert traffic away from the scene of the accident along all the major roads.
2. Ensure diversion routes are in good condition and traffic does not get jammed.
3. Exhibit proper diversion signs conspicuously at suitable places.
4. Provide the mobile crane/heavy earthmoving equipment for the salvage operation.

ROAD ACCIDENTS

To mitigate road accidents, the following guidelines should be followed,

1. The provisions of the Motor Vehicles Act and other related legislations and regulations are to be strictly enforced.
2. An adequate Highway and traffic Aid post will be created.
3. Trauma Care Centers shall be established every 100 KM on the State Highway.
4. Speed monitoring equipment and computerization of the movement of vehicles with adequate checkpoints on the National Highway will be introduced.

5. Fixation of timings to the passenger vehicles. Identify and designate routes and fix the time for transportation of hazardous chemicals and other materials.
6. Prohibition of parking of vehicles on National Highway and State Highway.
7. Road Excavation will be protected well, particularly at night, with barricades, fluorescent signs and red lights.
8. PWD and the National Highway department should concentrate on removing National and State Highway bottlenecks.
9. Efforts should be made to provide road dividers on National and State highways on a priority basis.
10. Arrangements should be made for adequate embankments/reflectors/proper signs on curves.
11. Arrangements should be made for information signs boards giving the local of the nearest village Police Station, Hospital, Ghat Traffic Position, Petrol pump, etc., at every traffic aid post.
12. All two-wheeler drivers, including pillion riders, must always wear the right helmet.
13. Overtaking in vehicles is regulated.
14. Frequently accidents occurring spots should be identified, and preventive measures will be taken.
15. Lanes should be marked for pedestrians/Cyclists.

DEDICATED EMERGENCY LANE

1. Hebbal, Yelahanka Junction, left service road, Ambience Restaurant.
2. Ambience Restaurant, Nitte cross, ADVA gates, Nitte College, Gantaganahalli village, MVIT, Suggatta.
3. Suggata, Gantanahalli village, NitteCollege, Nitte crossroad, ADVA gates, Ambience Restaurant.
4. Ambience Restaurant, Bellary Service Road, Gate 1, 2 & 3.
5. Ambience Restaurant, Bellary road Service Road, Under Pass before Airforce station, Cross over to Service road (Left service Road from Devanahalli to Hebbal), Service road, Domestic Gate, Airforce Station campus underpass enter AF station. .
6. Airforce station underpass inside Airforce station, Domestic area gate, enter left service road (Left service road from Devanahalli to Hebbal), Service road. Enter right under Pass (Below,

- fly over from Devanahalli to Hebbal). Enter Service road (Left service road from Hebbal to Devanahalli), Ambience Restaurant.
7. For Emergency casualty evacuation to hospitals, provide Green Corridor (Signal Free).
 8. **All Area Access: No Restriction:** No restriction or obstruction on the movement of DM official's vehicles/Ambulance/Fire Tenders both Ways (including Opposite One Way Also) with AAA No restriction Stickers.
 9. **In case of Road accidents:** An ambulance will be provided by the ICP Level I & Emergency Operation Centre.

SECURITY

There are multiple agencies, central and state agencies, involved in security during AERO INDIA. The SOPs followed by the Bengaluru City Police for Crowd Control, Anti-Terrorism measures etc., are given in Annexure II.

VII. STANDARD OPERATING PROCEDURES

FIRE FIGHTING

The Divisional Fire Officer/Station Officer will place himself in the primary Emergency Control Centre and maintain continuous contact on VHF with the Station Officer at the site. Depending on the need, the Divisional Fire Officer will place himself at the site and maintain contact with the Incident Commander in the Main Emergency Control Centre.

The Station Officer/ Sub-Officer/Asst. Sub-Officer of the fire station closest to the scene of the Disaster will direct firefighting operations at the site and keep the

The divisional fire officer/station officer is informed of the developments at the site.

The main firefighting functions are,

1. Initiate rescue and firefighting operations with available means. Ensure that all firefighters use proper personnel protective equipment while fighting a fire or controlling a gas leak.
2. Help the Administration evacuate people from affected zones using escape routes decided in advance depending on the wind direction.
3. Continuously evaluate the situation and decide whether to call in additional Fire Engines from neighbouring taluks/districts.
4. Mobilize the services of the home guards for firefighting through the Police.
5. Advice on the extent of evacuation necessary.
6. Preserve valuable evidence, which may be helpful for investigation later on.
7. Ensure availability of water and make arrangements for private water tanker carriers.
8. When the Emergency is over, carry out a joint inspection of affected areas along with the site controller and Technical experts to ensure the Emergency is under control.
9. Send the message of SAFE to enable an official call off the Emergency.

LAW AND ORDER (POLICE)

The Police are the first agency to reach the site during any emergency. The local Police should initiate the emergency action even before the declaration of Emergency and setting up of the ECR. Even though the

primary function of the Police is to maintain law and order, it is observed that most of the rescue and relief operation is initiated by the Police before the arrival of full-edged rescue teams.

Functions of the Police (at various) levels in any emergency,

1. After receiving instructions from Incident Commander, the DCP will rush to the ECR and establish contact with the local police station. He would then direct the action plan implementation through the police station nearest the disaster scene.
2. Depending on the type of Disaster, ensure cordoning off the affected area by the local Police.
3. Mobilize additional police force from various sources depending on the requirement.
4. Ensure coordination with various Police and other agencies involved in handling the Disaster.
5. If necessary, mobilize the home guards.
6. The ACP of the sub-division where the Disaster has struck would get in touch with the nearest police station and ensure the police team is rushed to the emergency scene. The SDPO's primary function would be to act as a link between the scene of the accident and the Emergency Control Room at KSDMA.
7. On receiving information from the Emergency Control Room, he would rush to the site, assess the situation, obtain first-hand information, and take control of the overall situation.
8. Alert district administration to mobilize Reserve Police personnel for deployment for traffic regulations, supervision of evacuation and security duties.
9. Alert the area District Commandant of Home Guards to mobilize home guards as necessary (and keep the IC informed).
10. Arrange for necessary vehicles for rescue operation in consultation with RTO.
11. Arrange for necessary ambulances and other medical facilities for the affected persons in coordination with various government and non-governmental agencies.
12. Arrange for the removal of the dead bodies, identifications and proper preservation.
13. Prepare a list of missing persons and take immediate steps to trace them.
14. Communicate the information to other agencies through the police control room.
15. Keep in constant touch with ECR to ascertain the latest status and intimate police personnel with upto date information regarding response actions and further instructions.
16. Arrange for relief to police officers handling the Emergency.

HEALTH DEPARTMENT (DISTRICT HEALTH OFFICER):

The DHO/AHO would be based in the ECR and assist District Administration in ensuring prompt health care to all affected people through their network in affected areas. The main functions are,

1. Upon receiving the emergency information, DHO will mobilize all available medical & para-medical Staff to handle the Emergency.
2. Rush medical teams from the nearby hospitals to the scene of the Disaster or safe shelters nearby.
3. Set up a first aid centre at the affected area and rescue shelters.
4. Mobilize all the available ambulances and assist in shifting the injured/affected persons requiring additional attention to hospitals
5. Alert all government & private hospitals to meet any emergency and line of treatment to be followed.
6. Alert blood banks to maximize their stock.
7. Set up temporary emergency wards with medical facilities to receive the affected victims.
8. Inform all the doctors/para-medicals regarding the nature of the Emergency as per the message received from the ECR and also inform about the line of treatment to be followed.
9. Ensure sufficient stock of drugs and other medical facilities are available.
10. Keep in touch with the district Emergency Control Room and appraise the situation and advice on additional help required from outside agencies.

EVACUATION

1. A quick assessment of evacuation needs, such as the number of people to be evacuated and the mode of evacuation
2. Mobilize transport and resources for evacuation
3. Identify and prepare sites for the temporary relocation of affected people
4. Identify requirements of resources for evacuation, such as helicopters, aircraft, Cars, ambulances
5. Monitor the situation
6. Earmark resources/ units/ battalions of SDRF for quick deployment
7. Prepare handbook/manuals and SOP for evacuation of people and animals
8. Prepare evacuation plan considering local conditions and periodically update

9. Undertake mock/simulation drills
10. Prepare operational checklists
11. Prepare a list of agencies/organizations who could assist in the evacuation.
12. Web-based resource inventory and its regular updates

MANAGEMENT OF INJURED & DEAD PERSONS

1. Nodal Officer in the incident Response System will activate all other stakeholders associated with the Disposal of the Dead.
2. Establish an information Centre at the site of the Disaster
3. Inform all other Stakeholders, both in the government and Non- Governmental sector, including the elected functionaries and the community.
4. Activate search and Rescue teams of Fire & Emergency Services, Police, SDRF, Civil Defence, NDRF and NGOs to retrieve the injured and the dead.
5. The injured will get the priority for First Aid and evacuation to the hospital.
6. Prepare a record of details of the bodies retrieved in the Dead Body Inventory Record Register, allocate individual Identification Numbers, photograph, and then Dead Body Identification Form initiated.
7. Associate relatives and community members for the identification of the bodies.
8. Hand over the identified bodies to the relatives or the community, and if necessary, after cross-matching Dead Body Identification Form with the Missing Person Form for the last rites as per local, cultural and religious denomination.
9. Unidentified or unclaimed dead bodies/body parts shall be transported to the mortuaries for proper preservation and storage at the designated sites.
10. Consult relatives and legal and forensic experts for identification.
11. District authorities shall do the final disposal of unidentified bodies/body parts after applying all the possible means of identification per the legal provisions.
12. The bodies of foreign nationals shall be appropriately preserved either by embalming or chemical methods and then placed in body bags or coffins with proper labelling.
13. Handing and transporting such bodies shall take place through the Ministry of External Affairs in consultation with the Consular offices of the concerned countries and other actors, such as the International Committee of the Red Cross, if necessary and possible.

The Medical teams are to be kept ready by Department:

Total Beds reserved in the Hospitals (Including Near Helipads)

Sl. No.	Details	No of Hospitals	Beds	ICU Beds	Vent	Total Beds
01	Nodal Government Hospitals	12	600	50	40	690
02	Nodal Private Hospitals	25	1225	250	150	1625
			1825	300	190	2315

Hospitals (Helipad HAL)

SL NO	Details	No of Hospitals	Beds	ICU Beds	Vent	Total Beds
01	Nodal Government Hospitals	01	50	05	5	60
02	Nodal Private Hospitals	06	450	50	50	550
		7	500	55	55	610

Hospitals (Helipad ASC Centre)

SL NO	Details	Hospitals	Beds	ICU Beds	Vent	Total Beds
01	Nodal Government Hospitals	1	50	03	03	56
02	Nodal Private Hospitals	05	335	63	45	443
		06	385	66	48	499

Total Ambulance: On-Site/Helipad/Off-site Team

SL No	Ambulance	Qty
1	Ambulance	24
2	Doctors	24
3	Para-medical/Nursing Staff	48
4	Stretcher /Attenders	96
5	Ambulance Drivers	24

Total Ambulance @ On-Site Team

Sl. No.	Ambulance	Qty
1	Ambulance	04
2	Doctors	04
3	Paramedical/Nursing Staff	08
4	Stretcher Bots/Attenders	16
5	Ambulance Drivers	04

Total Ambulance @ Helipad Team

SL No	Ambulance	Qty
1	Ambulance	04
2	Doctors	04
3	Paramedical/Nursing Staff	08
4	Stretcher /Attenders	16
5	Ambulance Drivers	04

Ambulance @ Off-Site Team

SL No	Ambulance	Qty
1	Ambulance	16
2	Doctors	16
3	Paramedical/Nursing Staff	32
4	Stretcher /Attenders	64

Incident Command Post (ICP) & Disaster Management Cell: Establishment of a Temporary Off-site Disaster Management Cell as per the procedure of setting up of Incident Command Post (ICP) near the Air Force Station in Coordination with the State Disaster Control Room.

Emergency Operation Squad	1 No.
Squad Emergency Flying Squad	1 No.
Emergency Static Squads	5 Nos
Emergency Responder Squads	5 Nos
Triage Squads	2 Nos

Grass Fire Management	8 Nos
NDRF Team (32 personnel)	1No.

STAGING AREA:

1. The deployment/allotment of the location of all vehicles will be done at the Staging Area.
2. All Emergency vehicles report at the Staging Area office.
3. All Standby vehicles will be parked here.
4. Additional water tankers / Prahari will be placed here.
5. All official private vehicles associated with Disaster/ Emergency Management must be parked here.
6. All Vehicles of Various squads except five vehicles will be parked at the staging area after duty at 6.00 PM daily.

INSIDE THE AIR FORCE STATION AT OCC:

A room has to be allotted at OCC (Inside the Airforce station) to the Emergency Coordinator (Off Site & On site), Karnataka State Disaster Management Authority, along with the following Logistics.

1. 7 Tables
2. 25 Chairs
3. 4 Computer / UPS/ Printer/ Internet facility
4. 40 Monitors
5. 3 LED TVs for GIS display
6. Conference Table
7. Telephone Landline Two Nos with internet facility (Broad Band)
8. Telephone Hotline (Facility to ICP Centre Level I & ICP Centre Level 2)
9. Two TV with Cable/ Dish (National /Kannada Channels) Network Connection
10. Display Information boards (Details will be given later)

POWER:

1. Electricity Board and Power Distribution Companies work with the logistic section of the state-level IRT to provide adequate services to the field-level IRTs for a response.
2. Pre-disaster arrangements for quick restoration of power supply with alternate mechanisms to

critical facilities usually within 6 to 12 hours of placement of order.

3. Pre-disaster agreements with ESCOMS for technical support in restoring power supply and infrastructure.
4. Mobile power supply units or other arrangements with power generation companies for quick deployment at the site during an emergency.
5. Provide coordination and support until the local authorities are prepared to handle all power-related problems.
6. Identify requirements of external equipment required such as DG sets etc.,
7. Power at the notified places is to be provided.
8. Generator sets in case of Emergency, as standby, shall be available.
9. Utilization of ASKA lights / portable inflated lighting to be used.
10. Safety of all electrical installations in and around the area.
11. All safety measures have to be ensured in and around the Aero Show.
12. In case of Emergency, suitable action is to be taken.
13. To provide Temporary wiring /equipment connection etc.,

Uninterrupted Power Supply (Regular & Stand By) - BESCO to take action on the following items of work:

- Power at the notified places is to be provided.
- Generator sets in case of Emergency, as standby shall be available.
- Utilization of ASKA lights / portable inflated lighting to be used.
- Safety of all electrical installations in and around the area.
- All safety measures have to be ensured in and around the Aero Show.
- In case of an Emergency, suitable action is to be taken.
- To provide Temporary wiring /equipment connection etc.,

BWSSB

Water Supply of Drinking Water / Sanitation/ Fire Tender

1. Portable Drinking Water facilities to the Public & Officials on duty through water tankers & small tanks with taps.
2. Water has to be supplied to the sanitation for all the officials working for Off-Site Disaster Management.

3. Refilling of recycled water will be provided to the Fire Tenders at the accident area if required.

BANDO BUST PLAN

The Deputy Commissioner of Police Bengaluru North East to prepare a Bando bust Plan for the ensuing Aero India 2023 Show. Bomb: Detection & Disposal: The bomb Detection & Disposal Team will be stationed at specific points by the Nodal Officer & DCP L&Ö (North East), Bangalore City Police. During Anti Sabotage Check or Bomb Detection or Bomb Disposal by the BDDS/ASC teams/Dog Squad, all Disaster Management teams should take the advice of the local police officers and support without any pre-conditions.

FIRE & EMERGENCY SERVICES

Karnataka State Fire & Emergency Service is one of the country's best Fire & Emergency service agencies, with immense expertise in handling disasters. It will be providing necessary Fire Tenders / Emergency Vehicles / Equipment and manpower for Offsite DM.

These vehicles are located strategically based on previous experiences and support the various Emergency Squads. The vehicle located at On-site can be used for Off-site and the Personnel to combat any eventuality in extremely critical situations decided by the Emergency Operations squad.

The Chief Fire Officer, West & RFO North, Yelahanka, will coordinate with the Emergency Coordinator (DM) for the deployment of vehicles and Manpower indicated at the designated place and will coordinate with different departments and take necessary action related to their department activities.

COMMUNICATION PLAN

Control Room / EOC Level 1: Located at an (Ambience Restaurant) place of about 1.5 Km from (Gate 1) to Coordinate with various Stakeholder / On-Site Control rooms & function effectively in case of any disaster. The location of the control room is indicated on the map.

Control Room/EOC Level 2: Located at a (CRPF Campus Doddaballapur Road) place of, about 4 Kms from (Gate I) to Coordinate with various Stakeholders / On-Site Control Room & function effectively in case of any disaster. The location of the control room is indicated on the map.

1. Wireless sets are to be provided to all team leaders on a rental basis or from the Police.

2. Police Wireless connection is to be provided to the vehicle & handset to Emergency Coordinator & Member & Incident Commander.
3. Police Wireless connection to be provided to the vehicle & 1 handset to the Dy. Emergency Coordinator.
4. Police Wireless connection is to be provided to the Level 2 ICP.
5. A Dedicated Disaster Management Channel (Delta) is Maintained and Controlled by four Communication Operators round the clock.
6. A Senior officer in charge of the Control Room coordinates with the Officer In charge at Command Centre (Level I & Level 2) to issue directions at the time of Disaster.
7. Control Room shall have the details of the Personnel, facilities available, no of Personnel, Machineries, Equipment (with Technical specifications & capacity), Medical facilities, Ambulances, Cranes etc.,
8. The Communication System should be an independent communication channel only. The information or instruction by the (Wireless) Communication users will be given directly to the Control Room, which will inform the assigned person. The assigned Officer will acknowledge the same and reply if required and vice versa.
9. Mobiles & Wireless Phones, Landline phones can be used, and in case of any disaster, normally, there will be an overloading of the system, which will end up in the total dislocation of the Mobile Phones. Radio Wireless sets can be used as the most reliable for communication.

CLOSING OF FISH PONDS

All the Illegal Fish ponds in and around the Airforce station Yelahanka have to be closed as in previous years. During the year 2016-17, the fish ponds were closed entirely. The BBMP Joint Commissioner Yelahanka, Asst. Commissioner & SDM, Deputy Director Fisheries, Tahsildar Yelahanka, Asst Police Commissioner (Yelahanka), Asst Director ZP Yelahanka to inspect & close the ponds under the guidance of Deputy Commissioner & District Magistrate, Bengaluru Urban District, Dy Commissioner of Police(L&O) Northeast, CEO Zilla Panchayat & Director Fisheries Dept.

BBMP: EFFECTIVE CLEANING & DISPOSAL OF SOLID WASTE

Joint Commissioner (BBMP Yelahanka), Tahsildar Yelahanka, Executive Engineer ZP Bengaluru Urban / Rural District shall make arrangements to avoid the Bird Hits during aircraft flying.

The main attractions to the birds are Garbage, Hotel waste, illegal butcheries, and other Solid Waste, eatables etc. Major Waste Disposal centres must be covered and sprayed with chemicals periodically to avoid bird menace. Frequent clearing of the Garbage/thrown-out eatables in and around the Airforce Station has to be organized. Ensure that Hotels/Restaurants in and around are maintained with cleanliness, and Garbage and left-out eatables are suitably disposed of frequently. Shandies are to be closed during the Aero Show days.

PWD

The Executive Engineer of PWD will provide the following items.

- **15 Tons crane:** 2 Nos (To be placed inside Airforce Station).
- **50 Tons crane:** 1 Nos (To be placed Outside the Airforce station at a strategically moveable place/ Staging Area Near ICP) can be moved only. Under the guidance of the Incident Coordinator in coordination with On-Site
- 6 Trucks with 36 workers (To be placed Outside the Airforce station at a strategically moveable place/ Staging Area Near ICP) can be moved only under the guidance of the Emergency Coordinator.

FINANCE & BUDGETARY SUPPORT:

Funds will have to be provided before 5th February 2021 to the Deputy Commissioner & Chairman, District Disaster Management Authority, Bengaluru Urban District, for planning/preparedness/prevention/mitigation, response etc. The Asst Commissioner & SDM (North Sub Division) will coordinate in preparing the budget proposal, getting a sanction of the finance and utilizing the same for the DM-related expenditure.

FOOD & REFRESHMENTS TO OFFICIALS OF OFF-SITE:

The Asst. Commissioner & SDM (North Sub Division) will arrange to provide food & refreshments for the Personnel associated with Disaster management-related duties during the Aero show. As the Aero show-related duties are from 7.30 AM to 6.30 PM during the period, the officials deputed to various assignments for off-site Disaster management are to be provided with the following items as they will not be allowed to move out from the deputed location. Expenses towards food, refreshments etc., are to be paid from the budget allotted for Off-site Disaster management for the Aero show.

MOBILIZATION OF VEHICLES FOR OFF-SITE DM PLAN:

For effective implementation of the Off-Site DM Plan, thirty-four (25) vehicles must be provided in two stages by the Transport Department & RTA, Bengaluru Urban District. The Additional Deputy Commissioner will mobilize the above vehicles under the guidance of DC & DM, Bengaluru Urban District. The fuel has to be provided at Yelahanka Fuel station, arranged by the Asst. Commissioner & SDM (North Sub Division), assisted by Tahsildar Yelahanka. The expenses towards the fuel for ambulances are to be paid from the budget allotted for Off-site Disaster management for the Aero show. The expenses towards the fuel have to be paid from the budget allotted for Off-Site Disaster management for Aero India 2022.

Vehicles required for the Aero show for the DM team

ICP Administration	1 No
Command Centre	1 No
Food In charge	1 No
Communication/Control Room In charge	2 Nos
Emergency Operation Squad	2 Nos
Emergency Flying Squad	1 No
Emergency Static Squads	5 Nos
Emergency Responder Squads	5 Nos
Triage Squads	3 Nos
Grass Fire Management	3 Nos
NDRF Team 32 personnel	1 No

MOCK DRILL / DRY RUNS:

Mock Drill or dry runs integrating On-site and Off-site shall be done during January- February 2023. The Mock Drill will be conducted as per the procedure adopted by NDMA.

A series of Mock drills on-site has been scheduled from 6th to 8th February 2023.

FUNCTIONS OF VARIOUS DEPARTMENTS

POLICE INSPECTOR:

1. He will immediately rush to the site of the incident and conduct an on-the-spot inspection. Obtain first-hand information.
2. Ensure that information is passed on to the superior officers and necessary instructions are received and adhered to.
3. Convey the message on the extent of leakage, the area affected by the ground situation, and the scenario prevailing in and around the waterworks.
4. Ensure that he and his Personnel are equipped with necessary personal protective equipment. The recommended PPE are cartridge-type respirators for short term exposure and pressurized airline respirators for long-term exposure.
5. Take immediate steps to inform the traffic police.
6. Alert all the subordinate officers and ensure their availability at the emergency site to maintain law and order, traffic, rescue, salvaging, etc. Till such time, the full emergency operation comes into action.
7. Ensure that all the anti-social elements are identified and rounded up if required

TRAFFIC INSPECTOR:

1. Traffic Commissioner will be in charge of traffic management and is assisted by DCP, Traffic, in case of an off-site Emergency.
2. Receive the communication of off-site Emergencies from IC, disseminate the information to all the functionaries, mobilize required force, and put them into action for managing various traffic points, routes, etc.
3. The Officer will be overall in charge of the parking yard and managing, controlling and arranging a sufficient number of vehicles.
4. Ensure that an adequate number of trucks, buses and other modes of transport vehicles are arranged for rescue operations in coordination with RTO.
5. For each industry, separate routes are identified as regular and Emergency routes.
6. Mobilize necessary police personnel/vehicles to man and control traffic on various roads identified as safe routes and take measures to divert regular traffic away from the emergency routes.

7. Ensure availability of adequate vehicles fitted with public address system/wireless etc., and directly supervise the manning of routes and parking yards.
8. Initiate action to ensure an adequate number of skilled drivers in consultation with RTO, KSRTC, Home guards and Truckers Association etc.
9. The SP will initiate action on his own only under exceptional circumstances; However, his action shall be communicated to his superiors and should be confirmed with IC.
10. Motor Vehicle Inspector from the MV department will assist the Inspector of Police (Traffic) in managing parking yards.
11. Assist the Police - Traffic in mobilizing an adequate number of skilled drivers in consultation with RTO, KSRTC, Truckers Associations, Home guards etc., as the case may be.

FIRE SERVICES OFFICERS:

1. The Regional Fire Officer and the Divisional Fire Officer are responsible for fighting and controlling the fire, leakage, spillage, etc., with proper instructions and guidance.
2. Rush to the site of Emergency immediately after receiving information from the site Controller or on an emergency call.
3. Establish safe routes in advance for rushing to the site and ensure the best response time to minimize damage.
4. Workout advance plan for the requirement of resources like fire tenders, trained Personnel, protective equipment and the ways to meet additional requirements, if any.
5. Assist the on-site emergency personnel in fighting Emergencies, rescuing injured/affected people trapped in dangerous zones and participating in salvage operations.
6. Assist the Police, Home guards and other Rescue Team in the evacuation of persons, salvage, etc. and assist medical/police personnel in imparting first aid.
7. Ensure availability of adequate water supply.
8. Maintain constant contact and communicate the message to the CEC concerning the control measures undertaken, salvage operation, rescue methods, etc. And any other information required by the CEC continuously.
9. Take any other appropriate actions as deemed necessary in the control of Emergency.
10. Immediately send a distress call to all other fire stations for additional reinforcement. Contacts the Divisional Fire Officer and inform him about the severity of the fire, the kind of assistance required, etc.

HEALTH AND MEDICAL SERVICES:

1. District Health Officer (DHO) will be in charge of health and medical services rendered at the emergency site or rescue shelters, affected places, hospitals, pathology laboratories, etc.
2. Upon receiving the information from CED, he will contact all Hospital Superintendents, Drug Controllers, and Blood Banks to mobilize required ambulances, Doctors, Nurses, Medicines, lifesaving drugs, blood,* etc.
3. Rush to the site, assess the extent of severity and establish adequate (Temporary Medical Centre). Ensure hygienic conditions at the rescue shelters cum rallying posts and temporary medical centres. Take appropriate action in shifting affected persons to proper hospitals in Raichur and provide appropriate treatment.
4. Arrange for removal of dead bodies after post-mortem and disposal of the same, in consultation with IC and DCP.
5. Render advice to IC on precautionary measures to be taken by the public in affected sites/villages, rescue shelters cum rallying posts to prevent the outbreak of epidemic diseases.
6. If necessary, he should undergo training to handle the wireless apparatus for effective communications.

REGIONAL TRANSPORT OFFICER:

1. The RTO will be overall in charge of providing the number of rescue vehicles like trucks, buses, cars or any other type of vehicles to emergency sites, rescue shelters cum rallying posts etc., for the transportation of human beings and animals.
2. Receive information from EC and act accordingly.
3. Mobilize all possible resources in arranging vehicles in coordination with KSRTC/BMTC, Truckers Association, Travel Agencies, etc., also ensure the availability of an adequate number of skilled drivers and advise the Inspector (Traffic).
4. Work out the requirement of heavy earth moving equipment like cranes, and mobilize the same in coordination with such agencies/parties.
5. Depute adequate numbers of Motor Vehicle Inspectors to assist the Inspector of Police, Traffic (in charge of parking yard), and Rescue Shelter cum rallying post, at the site of Emergency.

KARNATAKA STATE POLLUTION CONTROL BOARD:

1. Upon receiving information, the Environmental Officer will mobilize all possible resources and keep the laboratory functioning to analyze pollutants, emissions, etc.
2. Rush to the site, collect the samples, analyze the pollutants and the likely effect on human life/environment and inform the IC about the same and the corrective actions to prevent further damage.
3. Act as an expert and advise the IC about the kind of message to be disseminated to the public and press on pollution matters.

OFFICER I/C INFORMATION COLLECTION:

1. Will report to the Control Room and get the complete briefing from the IC on the Emergency and the situation.
2. Be familiar with the area and the agencies where the needed data is collected.
3. Keep the IC informed and suggest emergency issues and needed arrangements for evacuation, etc. Also, the details are appropriately recorded through the Officer I/C of Documentation.
4. Will brief the incoming Officer properly of the occurrence during the tenure of his duty before Handing Over the duties.

OFFICER I/C MONITORING:

1. Will report to the Control Room within 30 Minutes and get the complete briefing from the IC on the Emergency and the situation.
2. Be familiar with the area and authorities to be contacted for various issues.
3. Understand/analyze the demand and supply to the affected area.
4. The flow of men and material from/to the affected area must be constantly monitored, and the information must be appraised to the IC. Collect the info on received material/men, delivery and supply of men and material. Available stocks at various places/levels. Also, the details are correctly recorded through the Officer I/C Documentation.
5. Will brief the incoming Officer properly of the occurrence/pending issues due to actions during the tenure of his duty before handing over the duties.

VIII. INTEGRATED COMMUNICATIONS COMMAND CENTER

Integrated Communications Command Center (ICCC) will be the brain and nerve centre for coordinating all on-site and off-site disaster management and security activities. The ICCC will enable coordination among all stakeholders and brings in synergy in response, invariably optimizing available resources. The ICCC will analyze real-time data and provide actionable inputs to all concerned departments and agencies. The ICCC will be manned by Incident Commander and nodal officers from all concerned departments and agencies involved in Disaster Management and Security at the Aero Show.

Following are the essential factors regarding setting up of ICCC:

- A control room should be set up at an appropriate place which will be the nodal centre for the dissemination of alerts and the command centre during any emergencies
- Representatives from all emergency support functions will be housed in a control room (Revenue (DMO, Fire and Emergency, Police, Health, BBMP, HAL, Airforce)
- Coordinating Agency HAL to coordinate between IAF and State Govt. Authorities for setting and functioning of Integrated Control room.
- The fire control room will be co-located with the integrated control room.
- Well equipped with communication and visual equipment with good networking with all concerned departments and agencies to get a real-time situation report.

ICCC shall be equipped with screens, a terrestrial communication system, and a satellite communication system to ensure failsafe communication during the event. The response mechanism will be per the principles of the Incident Response System (IRS) based on the guidelines of the National Disaster Management Authority (NDMA). Communication standards shall be clearly defined, which is elaborated on in chapter 10.



ICCC shall have live feeds from strategic cameras and selected cameras privately in the vulnerable area to provide situational awareness. The ICCC shall have a hotline with a fire control room, police control, traffic control room and control room for other agencies.

COMMUNICATION PLAN

112 Emergency Response systems shall be synced with ICCC to attend panic calls in on-site and off-site areas.

Apart from HF/VHF wireless deployed by Police, Fire, Air Force, etc., there would be VHF sets provided by HAL on the same frequency to key Personnel. This will enable Personnel from multiple agencies to communicate in the field for better coordination. The goal is to have all field personnel be able to communicate with each other at the event to coordinate Disaster management and security activities. Communication through VSAT flyaway terminals and Satellite phones will also be enabled in ICCC.

PROCESS FOR COMMUNICATION

Establishment of a control room along with communication equipment.

1. Pre-deploying information officer to media and public as per IRS guidelines.
2. Prepare a plan for Failsafe communication with all early warning agencies
3. The logistics section of the district-level IRT coordinates with State and district agencies/departments to provide effective communication support to the field-level IRTs for a response.
4. Ensure all communication equipment, especially the V-SAT and satellite phones are in good working condition 24x7 on all days through regular testing.
5. Prepare Communication Plans for smooth coordination with the field-level IRTs.
6. Establish protocols and responsibilities for coordinating with all agencies and various service providers.
7. Have binding agreements with telecom service providers to restore damaged facilities and set up temporary facilities on an emergency basis
8. Procuring wireless communication like a walky-talky.
9. To reduce loss of life and property, to disseminate early warnings to the local authorities and the public at large in the areas likely to be affected by a disaster.
10. Dissemination of warnings and information up to the last mile
11. Ensure appropriate compilation/ analysis of received data
12. Early warning through mass media, the Internet, and Phone call.

The Key Officer's numbers will be put on **Priority Calling Routing (PCR)**, ensuring that essential calls during the disasters can be routed on a priority basis.

The list of officers in ICCC and equipment in ICCC is annexed as **Annexure XI**.

COMMUNICATION SYSTEM (PLAN):

Control Room / EOC Level I: Located at an (Ambience Restaurant) place about 1.5 Km from (Gate 1) to Coordinate with various Stakeholders / On-Site Control Room & function effectively in case of any disaster. The location of the control room is indicated on the map.

Control Room/EOC Level 2: Located at a (CRPF Campus Doddaballapur Road) place about 4 Km from (Gate I) to Coordinate with various Stakeholders / On-Site Control rooms & function effectively in case of any disaster. The location of the control room is indicated on the map.

- Wireless sets are to be provided to all team leaders on a rental basis or from the Police.
- Police Wireless connection is to be provided to the vehicle & 1 handset to Emergency Coordinator & Member & Incident Commander.
- Police Wireless connection to be provided to the vehicle & 1 handset to the Dy. Emergency Coordinator.
- Police Wireless connection is to be provided to the Level 2 ICP.
- A Dedicated Disaster Management Channel (Delta) is Maintained and Controlled by four Communication Operators round the clock.
 - A Senior most officer in charge of the Control Room coordinates with the Officer In charge at the Command Centre (Level I & Level 2) to issue directions at the time of Disaster.
- Control Room shall have the details of the Personnel, facilities available, no of Personnel, Machineries, Equipment (with Technical specifications & capacity), Medical facilities, Ambulances, Cranes etc.,
- The Communication System should be an independent communication channel only. The information or instruction by the (Wireless) Communication users will be given directly to the Control Room, which will inform the assigned person. The assigned Officer will acknowledge the same and reply if required and vice versa.
- Mobiles & Wireless Phones, Landline phones can be used, and in case of any disaster, normally, there will be an overloading of the system, which will end up in the total dislocation of the Mobile Phones. Radio Wireless sets can be used as the most reliable for communication.

IX. MEDIA MANAGEMENT

Media - print, voice or visual - is an organized means of reaching many people quickly, effectively and efficiently. The media's suggestive, informative and analytical role must form a key component of disaster education. It is the most potent way of educating the community on disaster prevention, mitigation and rehabilitation. These tasks can be carried out based on the media's dual role in imparting information and discerning disasters.

The electronic media have, during recent times, emerged as a major component of disaster management, as amply demonstrated in the aftermath of the Jammu and Kashmir earthquake in 2005. Particular emphasis is laid on the role of electronic media and information technology as it is felt that this sector needs to be integrated with the disaster response and overall disaster management strategy. The role of the print media is also essential, as this continues to be the medium of mass media in many parts of Indian society which are still unreachable by electronic media. The print media have a significant role in pre-disaster prevention, mitigation and preparedness activities through appropriate community awareness generation. Media need to be proactive rather than reactive.

They need to disseminate the correct information at the appropriate time. For instance, in India, the reach of radio and television to the masses in providing information is getting organized. However, professionals need to be included in these channels to enable easy comprehension and response to the information. For instance, the involvement of professional meteorologists or the training of media experts in providing weather-related information would impact how meteorological information is presented.

Media can be highly effective in the following areas:

Educational: Before a disaster, educating people about the hazard, prevention and self-help during the Disaster. During rehabilitation, media can be beneficial in providing accurate and unbiased coverage of post-disaster impacts and needs. Guiding: Guiding people in preparing resource disaster calendar, resource mapping and preparation of community contingency plan.

Critical: By evaluating the emergency plan and benefit from being transferred to the people. This may include a review and improvement of any existing plan.

Suggestive: Media can suggest long-term suggestions in the form of structured measures like enacting certain legislation, adopting a code of conduct, etc.

Measures to be taken by media in disaster management: Media plays an all-round role in pre, Disaster, and post-disaster stages. The media is powerful and has an inner reach to the lower and topmost tier, as it may be most beneficial for best Governance and management in the case of Disaster. However, media for such disaster situations needs to be institutionalized and made purposeful, accurate, efficient and effective.

WHERE MEDIA CAN PLAY AN EFFECTIVE ROLE:

Early warning to the people:

The community's preparedness before the Disaster, relief work during and rehabilitation after the Disaster are all equally important. The role of media in all three situations is very crucial in today's world. The early information from electronic media like television and radio about the likely disasters can save many human being and livestock. The loss of property can also be minimized to a considerable extent. The media can create awareness among the community about various types of disasters. It can also play a role in preparing the community by training them and making them aware of dos and don'ts during disasters.

Watchdog on the disaster machinery:

The response time of the relief machinery is generally very late after any disaster. The rehabilitation work after the catastrophe usually is not carried out expeditiously. The media can play the role of a watchdog, especially after the Disaster when rehabilitation work is going on. The pressure of media in a democratic set-up is tremendous, and it should be used responsibly and constructively for the benefit of society. Resources such as search and rescue team equipment, relief material and money are essential during Disaster and subsequent rehabilitation. The responsibility lies with the Govt. to make all the resources available, but sometimes the system is a little sluggish and responds a little late. In those circumstances, the media can play a vital role by being a watchdog and keeping the disaster machinery active.

Appealing to the people:

The depiction of devastation and human misery through the media appeals to the people to come forward to render help in various ways. Generally, media has a responsive image in the public eye, and this image can be utilized effectively to generate resources to help disaster management efforts.

Preventing rumour and panic management:

During a disaster, with the breakdown of communications, rumours can have a debilitating effect on the relief work. During this time, the media can monitor such rumours by relaying correct information about the measures being taken and monitoring them. In addition, the media can also help by warning the people likely to be affected or about the dos and Don'ts during a disaster. Media can also help establish contacts, identify needy spots, and focus attention on them. In addition, the media can help by assisting the authorities, voluntary organizations and volunteers in informing and assuring the affected ones of the assistance and measures taken for relief.

In controlling law and order situations:

Media can watch anti-social elements who try to take advantage of such situations. They can report such matters and highlight such situations. They can also assist the law and order machinery in restoring peace and harmony in the affected community.

As a replacement for an established communication network:

In India, a large part of the communication network is land-based: telephone and telegraph. During a disaster, this network is severely affected. District administration who need to contact agencies like Indian Air Force, Indian Navy, Army, Govt officials and other departments for relief organizations have to rely upon the network available with the media. The district administration takes the support of the media in making various announcements, releasing the list of casualties, lost people, dos and don't of the Disaster etc. Since the media network works in wireless mode, it is convenient and useful for the district administration.

Caution and Restrain necessary for media people:

The media should be cautious during reporting of disasters. It should not create excitement and an atmosphere which lead to panic, especially in today's time when there is cut-throat competition between various television channels and newspapers. It is desired that a balanced approach is taken to reporting a situation. The people should be provided with an accurate and correct picture of the Disaster, its impact, the relief arrangements and coping mechanisms. They should avoid issuing warning signals unless the government has issued them.

MEDIA RELATIONS

1. Department of Information and Public Relations works with the Command staff as Information and media officer of the state-level IRT to provide effective services.
2. Ethical guidelines for coverage of Disaster is prepared and shared with all media agencies.
3. The plan is prepared for providing/ broadcasting warnings, do's and don'ts etc., to media and ensure its dissemination.
4. To Provide and collect reliable information on the status of the Disaster and disaster victims for effective coordination of relief work at the state level;
5. Not to intrude on the privacy of individuals and families while collecting information;
6. Acquire accurate scientific information from the concerned Departments.
7. Coordinate with all TV and radio networks to send news flashes for specific needs of Donation;
8. Respect the socio-cultural and emotional state of the disaster victims while collecting information for dissemination.

X. ANNEXURES

Annexures	Subject	Department
Annexure I	SOPS for Medical Preparedness	Health and Family Welfare
Annexure II	Crowd Management	Bengaluru City Police
Annexure III	Traffic management plan, route and parking details	Bengaluru Traffic Police
Annexure IV	Fire and Emergency service response plan and SOPs	Fire and Emergency Services
Annexure V	Waste management Plan	BBMP
Annexure VI	BANDOBUST /Security related plans and SOPs/guidelines	Bengaluru Police/Intelligence/Central Agencies (Law and Order)
Annexure VII	SOPs For Pre Erection and Post Erection Of the Electrical Installation	Department of Electrical Inspectorate
Annexure VIII	SOPs For Fire Services For AI-23	IAF
Annexure IX	SOPs For Onsite Disaster Medical Management	IAF
Annexure X	Mock Drills - Disaster Management AI 23	HAL
Annexure XI	Aero India 2023 DM - Anti Drone Measures And Food And Refreshments	HAL
Annexure XII	Contact Details Of Senior Officers Pertaining To Aero Show-DM	

ANNEXURE I: SOPs MEDICAL PREPARDNESS

AERO INDIA 2023 exhibition, the 14th Edition of Aero India 2023, a Runway to a Billion Opportunities, is being organized at the Air Force Station, Yelahanka, Bengaluru, Karnataka. The Yelahanka Air Force Station is close to the Kempegowda International Airport (KIA), Bengaluru and is distanced by about 20 Km running adjacent to the National Highway 7 connecting Hyderabad. The Show is organized by the Defence Exhibition Organisation (DEO), Ministry of Defence, and Government of India. This biennial air show has been hosted since its first edition in 1996, meant for major exhibition shows for aerospace and defence industries along with a public air show. This exhibition enables industry professionals to gain market insights, announce new developments and gain media coverage.

AERO INDIA 2023 offers a unique platform to international aviation sectors to bolster business in Aerospace & Defence. It also provides an opportunity to demonstrate products to potential customers and investors, wherein 484 Indian and 33 Foreign Exhibitors from 21 Countries will be participating and exhibiting their Defence & Aviation products using the latest technologies to potential customers across the Globe. Thousands of business visitors and lakhs of general visitors will likely attend this important international event.

A Disaster Management (DM) Plan is designed to provide a framework and direction to Government agencies during all phases of the disaster management cycle. The DM plan during the Aero Show 2023 provides planning for managing Disaster and Emergencies, smooth coordination between on-site and off-site DM teams, preplanning of proper sequence of response actions, effective management of resources, removing arbitrary response to a disaster and having a defined response structure, allocation of responsibilities to the participating agencies. No single agency or department can handle a disaster of any scale alone. Different departments must work together to manage the disaster to reduce its impact. Section 37(a) of the Disaster Management Act, 2005 mandates that departments prepare disaster management plans keeping mitigation, preparedness and response elements into consideration. Sections 22(2), 24, 30 and 34 of the Disaster Management Act, 2005 have laid down various duties relating to Disaster Management to be performed by various agencies.

An OFF-SITE Disaster management Plan has been formulated and executed by the Revenue Department (DM), along with concerned departments of the State Government. The areas falling under the purview of the Off-site DM Plan include all the surrounding AF Station Yelahanka. This Plan will help reduce the

time taken in mobilizing resources for an effective response and enable a harmonious relationship among all stakeholders. The Plan delineates the roles & responsibilities of all concerned departments, agencies, etc., thereby eliminating any scope for ambiguities in the roles of any stakeholder. More importantly, the Plan identifies trigger points for various response actions and integrates such actions in an appropriate response matrix as per the SOPs of the concerned department/agency.

To contain COVID-19 in the current situation, the Plan is also rigorously implementing the prevalent National Directives for containment of COVID-19. The DM plan is prepared based on the spatial analysis of the venue and the surroundings, identifying probable hazards, resource mapping, SOPs, and Incident Command Control Centre (ICCC) along with contact details of resources.

STATE HEALTH TASK FORCE

Sl. No	Committee Members	Designation
01	Principal Secretary, Health & Family Welfare Department	Controller
02	Commissioner, Health & Family Welfare Services	Joint Controller
03	Chairman, DDMA , DC & DM ,Bengaluru District	Deputy Controller
04	Director, Health and family welfare services	Member
05	Director, Medical Education	Member
06	Project Director (RCH) Directorate of Health & Family Welfare Services	Member
07	Chairman TAC	Member
08	CHO, BBMP	Member
09	Deputy Director, EMRI	Member
10	Nodal officer- AERO SHOW-2023, Commissionerate of Health and Family Welfare services	Coordination
11	Chief Medical Superintendent , HAL	Member
12	Member Secretary, STAC, Covid 19	Member
13	Deputy Director, HET Health & Family Welfare Services	Member

Sl. No	Committee Members	Designation
14	Assistant State Nodal officer, NFDS	Member
15	DHO, Bengaluru Urban District	Member
16	DHO, Ramanagara	Member
17	DHO, Kolar	Member
18	DHO, Chikkaballapura	Member
19	DSO, Bengaluru Urban District	Member
20	District Surgeon, Bengaluru Urban	Member
21	District Surgeon, Ramanagara	Member
22	District Surgeon, Bengaluru Rural	Member
23	District Surgeon, Chikkaballapura	Member
24	District Surgeon, Kolar	Member

MEDICAL PREPAREDNESS

1. Principal Secretary, Health & Family Welfare Department will be the Controller, Commissioner, Health & Family Welfare department will be the Joint Controller & Chairman, DDMA & Deputy Commissioner & District Magistrate, Bengaluru Urban District will be the Deputy Controller for Deputation of the Medical teams and for reservation of beds.
2. The Commissioner, H & FW Services reviewed the Aero show 2023 Medical Plan and decided to reserve **2690** no of beds /ICU/ventilators and utilising the services of 60 Hospitals (13 Government & 47 Private).
3. Identified the Beds from both Government (Bengaluru urban , Bengaluru Rural and Private hospitals as done in previous years for handling victims of Disasters/ Accidents/Mass Casualty, Burns cases, CBRN (Chemical, Biological, and Radiological Cases).
4. Identified the Ambulances from both Government (Bengaluru Urban, Bengaluru Rural, Neighbouring districts and Private hospitals as done in previous years for handling victims of Disasters/ Accidents/ Mass Casualty, Burns cases, CBRN (Chemical, Biological, and Radiological Cases).

5. In case of CBRN related cases the specialised team shall do the Decontamination at the assigned place/staging area or at the identified and assigned Room/ Space in specifically identified hospital for CBRN.
6. There will be no payments for reserving beds and deputation of Doctors / Staff and ambulances from Private Hospitals as done in previous years.
7. For Symptomatic identified cases the patient has to be shifted to dedicated Covid Hospitals under Government /Private Quota.
8. To Conduct Training to all Medical Staff and familiarisation of the activities and teams during the Aero show and to train Non- Medical teams for Emergency Medical Response, Triage, Covid Protocols etc.,
9. To associate with Off Site/ On Site Disaster Management Teams during the conduct of Mock Exercise.
10. To conduct Mock exercises in Hospitals.
11. Deputed same Staff should be continued during the Aero show.
12. To effectively implement Disaster Management Act 2005 and in exercise of powers of Chairman, DDMA & Deputy Commissioner & District Magistrate Bengaluru Urban District will issue order to private hospitals based (BD) in the first Phase during the third week of January and assisted by Health Task Force, Coordinator–Aero show 2023, Emergency Coordinator, D.M. Cell, Bengaluru District & Member, State Technical Advisory Committee, Biological Terrorism.
13. To effectively implement Disaster Management Act 2005 and in exercise of powers of Chairman, State Executive Committee, KSDMA & Chief Secretary to Government, Karnataka will issue order to private hospitals based in Bengaluru Urban & Rural Districts to reserve beds and deploy Ambulances along with medical team in the Second Phase during the first week of February.
14. In case of Bomb blasts the concerned jurisdictional (Sector) Medical Squads shall take advice/ guidance from, Bomb Detection Squads, Emergency operation Squad for handling the victims.
15. Only Optimum utilisation of medical resources in case of disasters.
16. All Paramedical/ Nursing Colleges shall mobilise 500 to 1000 Paramedical / PG Students during disaster and prior direction will be given by RGUHS for preparedness.
17. Drug Controller will give direction to all Blood banks and hospitals to reserve sufficient Blood units of all Groups.

COVID 19 PROTOCOL

Preamble:

Aero India, 2023 is a premier global aviation trade fair with the theme ‘ The runway to a billion opportunities’ and is being organized at Air Force Station, Yelahanka in a total area of over 1.08 lakh square meters. As on date, over 645 exhibitors have registered for the event, with 80 countries confirming their participation. Based on the previous experience this time Aero India is held for 5 days in which first 3 days will be for the business visitors and the VIP rest 2 days are expected to be reserved for the public and up to 1 lakh visitors may attend during these 2 days.

The previous Aero India event was held in February, 2021 that was after the first wave in 2020 and before the second wave of Delta from March, 2021. It had the attendance of over 600 exhibitors physically and another 108 virtually. The event saw the participation of 63 countries and around 3,000 Business-2-Business meetings were held.

In this context, TAC reviewed the current situation of Covid -19 in January, 2023 (up to 13th) in Bangalore city (annexure -1), state (annexure -2), major cities of India (annexure -3), International arrivals at Bangalore airport (annexure-4) and the WGS report of the state (annexure-5). In this context, after detailed deliberations and recapping the 2021 experience, TAC recommends as follows:

1. International arrivals:

The guidelines of Government of India, Ministry of Health and Family Welfare, New Delhi dated 29th December 2022 shall be duly complied vide https://static.mygov.in/rest/s3fs-public/mygov_167237443751307401.pdf

2. General guidelines:

1. In indoor areas, there shall be continuous real time CCTV monitoring of the crowd and frequent announcements through public address system, shall be made to maintain the social distancing.
2. Compulsory face masking by all (except children below five years of age) at all times in the indoor areas shall be ensured. Necessary arrangements shall be made for Thermal screening for fever at the entry gates.
3. All those participating in the event shall be asymptomatic i.e. free from fever, cough, cold, running nose, etc. And those persons found with symptoms of Covid - 19 shall be advised to seek medical consultation.
4. All the officers and staff involved in organizing Aero India show shall be fully / two dose vaccinated.
5. There shall be provision of automatic dispensing of hand sanitizer at strategic places.

The concerned authorities shall therefore ensure the compliance of the above points in the larger interest of Public Health. These guidelines for containment of Covid -19 shall be a part of overall medical plan of the event that includes handling of accidents, mass casualties, and other medical emergencies.

Lastly, the situation of Covid-19 in Bangalore city, state and the country will be continually monitored and if there is a significant change, TAC will review and give further / revised recommendations.

3. Health Disaster management plan

The DHO/AHO would be based in the ECR and assist District Administration in ensuring prompt health care to all affected people through their network in affected areas. The main functions are,

11. On receiving the information about the emergency DHO will mobilize all the available medical & paramedical Staff for handling emergency.
12. Rush medical teams from the nearby hospitals to the scene of the disaster or safe shelters nearby.
13. Set up first aid centre at the affected area and rescue shelters.
14. Mobilize all the available ambulances and assist in shifting the injured / affected persons requiring the additional attention to hospitals.
15. Alert all government & private hospitals to meet any emergency and line of treatment to be followed.
16. Alert blood banks to maximize their stock.
17. Set up temporary emergency wards with medical facilities to receive the affected victims.
18. Inform all the doctors / Para-medicals regarding the nature of emergency as per the message received from the ECR and also inform about the line of treatment to be followed.
19. Ensure sufficient stock of drugs and other medical facilities are available.
20. Keep in touch with the district Emergency Control Room and appraise of the situation and advice on additional help required from outside agencies.

4. Evacuation

1. Quick assessment of evacuation needs such as the number of people to be evacuated and mode of evacuation.
2. Mobilize transport and resources for evacuation.
3. Identify and prepare sites for temporary relocation of affected people
4. Identify requirements of resources for evacuation such as helicopters, aircrafts, Cars, ambulances.
5. Monitor the situation.
6. Earmark resources/ units/ battalions of SDRF for quick deployment.
7. Prepare handbook/manuals and SOP for evacuation for people and animals.
8. Prepare evacuation plan considering local conditions and periodically update.
9. Undertake mock/simulation drills.

10. Prepare operational checklists.
11. Prepare list of agencies/ organizations that could assist in evacuation.
12. Web-based resource inventory and its regular updates.

5. Management of Injured & Dead Persons

1. Nodal Officer in the incident Response System will activate all other stake-holders associated with Disposal of the Dead.
2. Establish an information Centre at the site of Disaster
3. Inform all other Stake-holders, both in government and non-Governmental sector, including the elected functionaries and the community.
4. Activate search and Rescue teams of Fire & Emergency Services, Police, SDRF, Civil Defence, NDRF and NGOs for the retrieval of the injured and the dead.
5. The injured will get the priority for First Aid and evacuation to hospital.
6. Prepare a record of details of the bodies retrieved in the Dead Body Inventory Record Register, allocated individual Identification Number, photographed, and then Dead Body Identification Form initiated.
7. Associate relatives and community members for the identification of the bodies.
8. Hand over the identified bodies to the relatives or the community, and if necessary, after cross-matching Dead Body Identification Form with that of the Missing Person Form, for the last rites as per local, cultural and religious denomination.
9. Unidentified or unclaimed dead bodies/body parts shall be transported to the mortuaries for proper preservation and storage at the designated sites.
10. Consult relatives, legal and forensic experts for positive identification.
11. Final disposal of unidentified bodies/body parts shall be done by District authorities after applying all the possible means of identification as per the legal provisions.
12. The bodies of foreign nationals shall be properly preserved either by embalming or chemical methods and then placed in body bags or in coffins with proper labelling.
13. Handing over and transportation of such bodies shall take place through the Ministry of External Affairs, in consultation with the Consular offices of the concerned countries and other actors such as International Committee of the Red Cross, if necessary and possible.

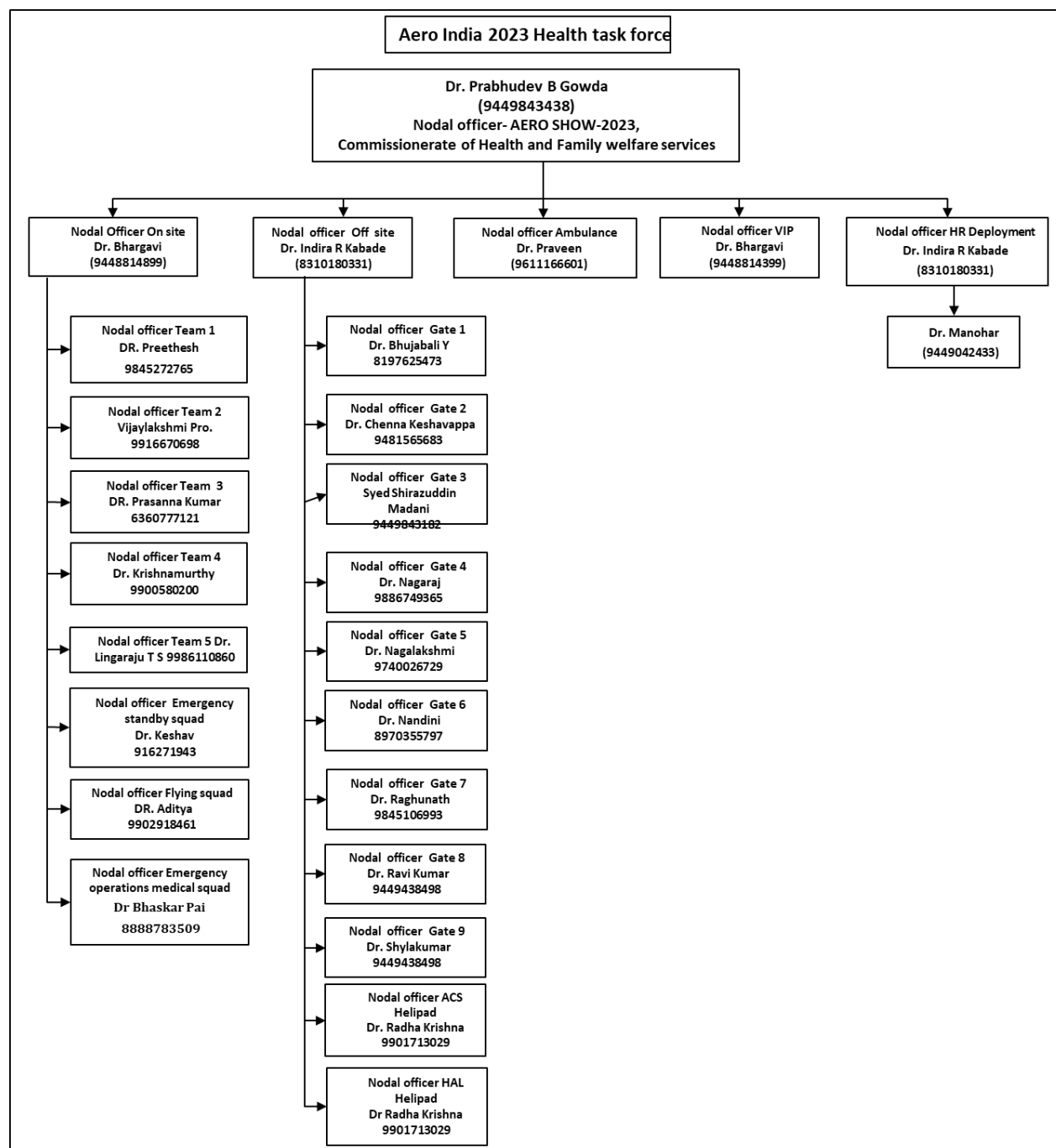
The Medical teams to be kept ready by Department

6. Health action plan for disaster management

On Site Medical Team of Government of Karnataka will work as an integrated team under the guidance of the Wing Commander Dr V L Srivastava. All medical related requirements and deployment requests will be through the Air force Medical Officer in charge at On Site.

1. Shifting of patients to hospitals should be intimated to the Offsite officials of the Health Department, Government of Karnataka by the Onsite officials of the Health Department, Government of Karnataka.
2. In case Ambulance is used for shifting of patients/victims to hospital. The Onsite & Off Site Health team in charge of Health Department, GoK should ensure an ambulance is replaced immediately from the reserved ambulances kept at Off Site.
3. In case of patients / victims is shifted to hospitals by ambulance. The Onsite & Off Site Health team in charge of Health Department, GoK, should ensure the information is intimated to the assigned hospitals for preparing to receive patients / victims at the casualty.
4. In case of Airlifting of patients / victims to hospitals. The Onsite & Off Site Health team in charges of Health Department, GoK, should ensure the information is intimated to the medical ambulance team at concerned Helipads.
5. In case of Airlifting of patients / victims to hospitals. The Onsite & Off Site Health team in charges of Health Department, GoK, should ensure the information is intimated to the assigned hospitals near the Helipads for mobilizing additional ambulances to the helipad and prepare to receive patients / victims at the casualty.
6. Triage Teams should ensure that they carry sufficient Triage bands / Ribbons.
7. Seating Arrangements for the deputed Health officials shall be arranged by the Air force & HAL Authorities.
8. Food and refreshments for the deputed Health officials at On Site should be provided by Air force & HAL Authorities.
9. Coordinator, Health Task Force, Aero show 2023 should ensure the deputed officials gets the identity cards in time after getting the list approved by the Commissioner, Health & Family Welfare Services & Chairman, Health Task Force, Aero show 2023.
10. Health kiosk shall be established at the Offsite with basic drugs.

Coordinator, Health Task Force, Aero show 2023 should coordinate with Onsite / Off Site / Hospital etc., for smooth coordination.



ROLES AND RESPONSIBILITIES

Covid 19

01	Dr. Mohammed Shariff Member Secretary, STAC, Covid 19 Ph : 9449843154	Covid 19 Preparedness
02	Dr. Balasundar Chief Health Officer, (PH) BBMP Ph : 9448140924	Team Deployment / Monitor / Operations
03	Dr. Manohar DSO , Bengaluru Urban District Ph : 9449042433	Nodal Officer : Covid 19

On site Health squad

01	Dr. Prabhudev B Gowda Nodal officer - AERO SHOW-2023 Commissionerate of Health and Family welfare services Ph : 9449843438	Coordination On Site / Off Site
02	Dr. Bhargavi, Training Officer, Health & Family Welfare Services Ph: 9448814399, 9880378717	Coordination-On Site, Team Deployment, Monitor, Operations
03	Dr. Indira M Kabade, District Health and Family welfare officer Bengaluru Urban District Ph : 8310180831	On Site In charge & Hospital Beds
04	Dr. Manohar, DSO, Bengaluru Urban District Ph : 9449042433	On Site HR Deployment
05	Dr. Archana S M Consultant ABDM PH : 9066801800	Coordination
06	K H Girish, Team Leader National Health Mission PH : 9449843435	Support staff

07	Shrinath Palled Program Manager(ASHA) PH : 9449843420	Support staff
08	Sathish N C Program Assistant Mission Director Personal Section Ph : 9449843277	Support Staff

Offsite Health squad

1	Dr. Indira M Kabade, District Health Officer, Bengaluru Urban Ph : 8310180831	Coordination, Team Deployment, Monitor, Operations
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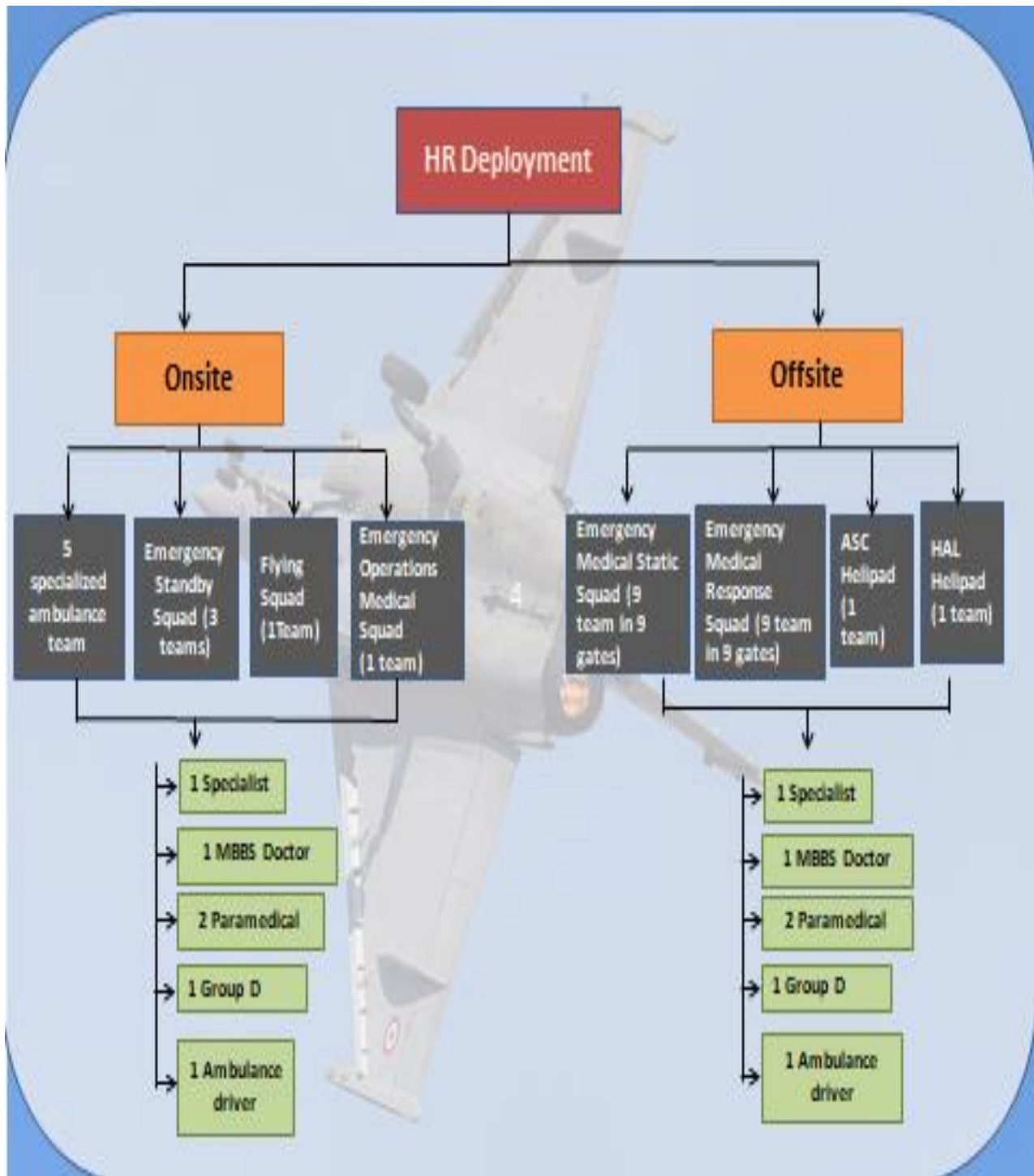
VIPS / Hotels / Enroute

01	Dr. Bhargavi, Training Officer, Health & Family Welfare Services Ph: 9448814399, 9880378717	Incharge Protocol VIPS / Hotels / Enroute /Monitoring
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Ambulance

01	Dr. Praveen Kumar Assistant State Nodal officer, NFDS PH: 9611166601	Incharge Ambulance Team
02	Dr. Ranga Reddy, Chief Medical Officer, HAL Ph: 8660518763	Coordination with Helipad Authorities / Ambulance Team / Hospital Nodal Officer / On site Medical Team.
03	Col Shivanda G Mane, DGM (Security) HAL Ph: 8861539188	Coordination with Helipad Authorities / Ambulance Team / Hospital Nodal Officer / On site Medical Team

HR DEPLOYMENT ACTION PLAN



ONSITE

1. Specialized Ambulance Teams : 5 Teams

Location – Stationed under the orders of MCC

(Details of the HR list attached as Annexure-1)

01	Specialist	1
02	MBBS Doctors	1
03	Paramedical	2
04	Attender/Group D	1
05	Driver	1

2. Emergency Standby Squad : 3 Teams

Location: Stationed at Station Medicare Centre

(Details of the HR list attached as Annexure-2)

Each team will constitute the following HR

01	Specialist	1
02	MBBS Doctors	1
03	Paramedical	2
04	Attender/Group D	1
05	Driver	1

3. Emergency Operations Medical Squad : 1 Team

Location: Stationed at Station Medicare Centre

(Details of the HR list attached as Annexure-3)

01	Specialist	1
02	MBBS Doctors	1
03	Paramedical	2
04	Attender/Group D	1
05	Driver	1

- 4. Flying Squad with Ambulances : 1 Team**
Location: Stationed at Station Medicare Centre
(Details of the HR list attached as Annexure-4)

01	Specialist	1
02	MBBS Doctors	1
03	Paramedical	2
04	Attender/Group D	1
05	Driver	1

OFFSITE

- 1. Emergency Medical Static Squad : 09 Teams (1 team at each 9 gates of event)**
(Details of the HR list attached as Annexure-5)
Each team will constitute the following HR

01	Specialist	1
02	MBBS Doctors	1
03	Paramedical	2
04	Attender/Group D	1
05	Driver	1

Sl. No.	Teams	Location	Sector Assignment
01	EMSS1 (M)	ICP : Level 1	S1 : Upto to ADVA Gate
02	EMSS2 (M)	Opposite Side : Adva Gate	S3 : In & Around ADVA Area / upto Nitte College
03	EMSS3 (M)	Nitte College	S5: Upto Ganteganhalli Village
04	EMSS4 (M)	ISRO Colony	S6: In & Around ISRO Colony
05	EMSS5 (M)	Ganteganhalli Village	S7 : In & Around Gantegnahalli Village / Doddballapur
06	EMSS6 (M)	Ganteganhalli Village	S9 : Upto MVIT College
07	EMSS7 (M)	MVIT College	S10 : Upto Bellary Main Road
08	EMSS8 (M)	Chikkajala Police Station	S11 : Upto Gate 5
09	EMSS9 (M)	Petrol Bunk - Adjacent to Domestic Parking	S12 : In and around Outside Domestic Parking upto ICP 1

2. Emergency Medical Response Squad : 09 Teams (1 team at each 9 gates of event)
(Details of the HR list attached as Annexure-5)

01	Specialist	1
02	MBBS Doctors	1
03	Paramedical / Nursing Staff	2
04	Attender/Group D	1
05	Driver	1

Sl.No.	Teams	Location	Sector Assignment
01	EMSS1 (M)	ICP : Level 1	S1 : Upto to ADVA Gate
02	EMSS2 (M)	Opposite Side : ADVA Gate	S3 : In & Around ADVA Area / upto Nitte College
03	EMSS3 (M)	Nitte College	S5: Upto Ganteganhalli Village
04	EMSS4 (M)	ISRO Colony	S6: In & Around ISRO Colony
05	EMSS5 (M)	Ganteganhalli Village	S7 : In & Around Ganteganhalli Village / Doddballapur
06	EMSS6 (M)	Ganteganhalli Village	S9 : Upto MVIT College
07	EMSS7 (M)	MVIT College	S10 : Upto Bellary Main Road
08	EMSS8 (M)	Chikkajala Police Station	S11 : Upto Gate 5
09	EMSS9 (M)	Petrol Bunk - Adjacent to Domestic Parking	S12 : In and around Outside Domestic Parking upto ICP 1

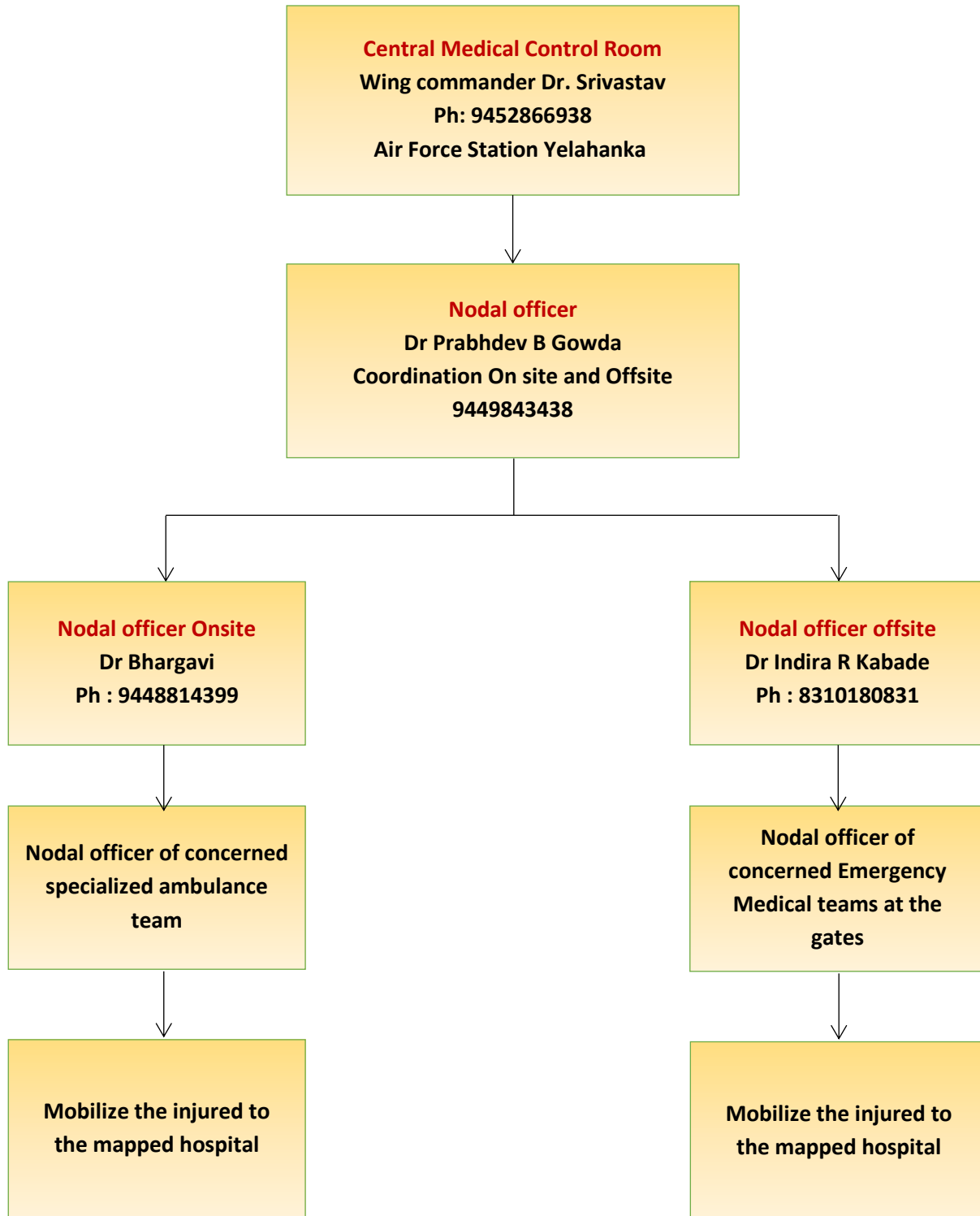
3. ASC Helipad : 1 Team**Location: Opposite Command Hospital****(Details of the HR list attached as Annexure-6)**

01	Deputy Staff - HAL 4 No's (2 x 2 Shifts) Ambulance Team 1 & 2 (Coordination)	Coordination with Helipad Authorities /Coordination with Ambulance Team / Hospitals / On site Medical Team.
02	Specialist	1
03	MBBS Doctors	1
04	Paramedical / Nursing Staff	2
05	Attender/Group D	1
06	Driver	1

4. HAL Helipad : 1 Team**Location: HAL Airport****(Details of the HR list attached as Annexure-7)**

01	Deputy Staff - HAL 4 No's (2 x 2 Shifts) Ambulance Team 3 & 4 (Coordination)	Coordination with Helipad Authorities / Coordination with Ambulance Team / Hospitals / On site Medical Team.
02	Specialist	1
03	MBBS Doctors	1
04	Paramedical / Nursing Staff	2
05	Attender/Group D	1
06	Driver	1

ACTION PLAN TO COMMUNICATE AT THE TIME OF DISASTER



Hospital mapped in case of emergency

Preferences	Name of the hospital	Name of the nodal officer	Contact number	No. of beds reserved
1	Yelahanka G H	Dr Ramakrishna	9845176662	48
2	K C general	Dr Indira R Kabade	8310180831	56
3	Bowring	Dr Mohan kumar S I	9448189250	110
4	Victoria	Dr Ramesh Krishna	9590904459	45
5	Aster CMI	Dr Hemanth	9538897501	45
6	Manipal Hebbal	Dr Mahesh	9663087621	14
7	Columbia Asia Yeshwanthapur	Dr Firoz	9008504786	14
8	Dr B R Ambedkar Medical college	Dr Prashanth K	9986263516	87
9	Sapthagiri Medical College	Dr Nagaraj	7702990688	117
10	Baptist Hospital	Dr Anjali	8411825000	10

BEDS RESERVED IN THE HOSPITALS**(Including Helipads / COVID 19 / BURNS / CBRN)**

Sl. No.	Details	Hospitals	General Beds	ICU	Vent	Total Beds
01	Nodal Government Hospitals	13	601	88	53	742
02	Nodal Private Hospitals	47	1,475	330	143	1,948
Total		60	2,076	418	196	2,690

TOTAL BEDS RESERVED IN THE HOSPITALS**Contingencies: (COVID 19 / BURNS / CBRN)**

Sl. No.	Reserved Beds	Hospitals	Beds	ICU	Vent	Total
01	Covid 19	05	65	31	26	112
02	Burns	03	45	18	14	77
03	CBRN	02	30	10	10	50
Total		10	130	59	50	239

BEDS RESERVED IN HOSPITALS NEAR HELIPADS

Sl No	Details	Hospitals	Beds	ICU	Vent	Total beds
01	Government Hospital (HAL)	01	40	03	03	47
02	Defence (Command)	01	35	15	11	61
03	Nodal Private Hospitals	08	480	98	59	637
Total		10	555	116	73	745

BEDS RESERVED IN HOSPITALS: COVID 19

Sl No	Hospitals	Nodal Officer / Asst. Nodal Officer	Beds	ICU	Vent	Total
01	Command Hospital	Gp Capt Dr Rajaram Ph : 8618704274	05	05	03	13
02	Victoria Hospital	Dr. Ramesh Krishna Ph : 9590904459 Dr. Rajesh Ph : 8747919196 Ph : 26802680	20	10	10	40

SI No	Hospitals	Nodal Officer / Asst. Nodal Officer	Beds	ICU	Vent	Total
03	Indiranagar GH	Dr. Ramesh Ph : 9481844222 Dr. Suresh.M Ph : 9449238392 Dr. Siddeshwar Ph : 9448909406	10	03		13
04	Aster Hospital	Dr. Hemanth 9538897501 Shailesh Shetty Ph : 8123485059 Ph : 9108471181 9739622225	10	03	03	16
Total			45	21	16	82

BEDS RESERVED IN HOSPITALS: BURNS

SI No	Hospitals	Nodal Officer / Asst Nodal Officer	Beds	ICU	Vent	Total
01	Command Hospital	Gp Capt Dr Rajaram Ph : 8618704274	10	05	03	18
02	Yelahanka General Hospital	Dr. Ramakrishna Ph: 9845176662 Ph : 28563977 Dr. Aishwarya Ph : 9591515113	10	03	01	14

SI No	Hospitals	Nodal Officer / Asst Nodal Officer	Beds	ICU	Vent	Total
03	Victoria Hospital	Dr. Ramesh Krishna Ph : 9590904459 Dr. Rajesh Ph : 8747919196 Ph : 26802680	25	10	10	45
		Total	45	18	14	77

Beds reserved in Hospitals: CHEMICAL / RADIOLOGICAL

SI No	Hospitals	Nodal Officer / Asst Nodal Officer	Beds	ICU	Vent	Total
01	Command Hospital	Gp Capt Dr Rajaram Ph : 8618704274	10	05	05	20
02	Yelahanka Gen Hospital	Dr. H.V.Manoj Ph : 7892865902 Dr. Harisharan Ph : 6363268338	20	05	05	30
		Total	30	10	10	50

Beds reserved in Hospitals near Helipads: HAL & ASC Centre

SI No	Hospitals	Nodal Officer / Asst Nodal Officer	Beds	ICU	Vent	Total
01	Command Hospital	Gp Capt Dr Rajaram Ph : 8618704274	31	20	10	61

SI No	Hospitals	Nodal Officer / Asst Nodal Officer	Beds	ICU	Vent	Total
02	HAL Hospital	Dr. Ranga Reddy Ph : 8660518763 Dr. Rakthim Gosh Roy Ph : 9482511937	40	03	03	46
03	Manipal Hospital	Dr. Mabel Ph : 9845932624 Mr. Subhash Ph : 9535429505	100	20	20	140
04	Chinmaya Hospital	Dr. Dakshinamurthy Ph : 9448943678 Vinay - Administrator Ph : 9901650415	30	10	02	42
05	Sakra Hospital	Dr. Deepak Balani Ph : 9916652524 Dr. Bevin Ph : 9916652524	50	10	02	62
06	Hosmat Hospital	Dr. Ajith Benedict Ph : 9449046884 Dr. Sachin Ph : 9480495338	50	20	20	90
07	St.Philomenas Hospital	Dr. Prasad Ph : 9902263224 Dr. Shivaraj Ph : 9741850812	30	10	02	42

SI No	Hospitals	Nodal Officer / Asst Nodal Officer	Beds	ICU	Vent	Total
08	St. Johns Hospital	Dr. Preetesh .R.Kiran Ph : 9845272765 Dr. Narendra Ph : 9739095051	10	06	02	18
09	Vydehi Hospital	Dr. Murali Mohan Ph : 9741166533 Dr. Uma Maheshwari Ph : 9441249655	200	20	10	230
10	Mallya Hospital	Mr. Mallikarjun Ph : 9663368109 Dr. Humera Ph : 9845092091	10	02	01	13
		Total	551	121	72	744

Nodal Government Hospitals

SI No	Hospitals	Nodal Officer / Asst Nodal Officer	Beds	ICU	Vent	Total
01	GH - Yelahanka	Dr. Ramakrishna Ph : 9845176662 Ph : 28563977 Dr. Aishwarya Ph : 9591515113	40	05	03	48
02	K.C.General Hospital	Dr. Indira R Kabade	50	04	02	56

SI No	Hospitals	Nodal Officer / Asst Nodal Officer	Beds	ICU	Vent	Total
		Ph : 8310180831				
03	Bowring Hospital	Dr. H.V.Manoj Ph : 7892865902 Dr. Harisharan Ph : 6363268338	100	5	5	110
04	GH - Indira Nagar	Dr. Ramesh Ph : 9481844222 Dr. Suresh.M Ph : 9449238392 Dr. Siddeshwar Ph : 9448909406 Ph : 25281246	10	03		13
05	GH - K.R.Puram	Dr. Ashok Reddy Ph : 7022329578 Mrs. Chenamma Ph : 8494937074	40	03	01	44
06	ESI - Rajajinagar	Dr. Mayadevi Ph : 9845218142 Dr. Rohith Ph : 9611146061	50	05		55
07	Jayadeva Hospital	Dr. S.Shankar Ph : 9845002025 Dr. Bhoopal	50	20	20	90

SI No	Hospitals	Nodal Officer / Asst Nodal Officer	Beds	ICU	Vent	Total
		Ph : 9845022281				
08	Sanjay Gandhi Hospital	Dr. Girish Ph : 9743701699 Dr. Suresh Ph : 9449323186	50	4	2	56
09	GH - Jayanagar	Dr. Hanumanthara Ph : 9740180009 Dr. Chanabasava Ph : 9448659366	50	10	02	62
10	Victoria Hospital	Dr.Ramesh Krishna Ph : 9590904459 Dr. Rajesh Ph : 8747919196 Ph : 26802680	40	03	02	45
11	Command Hospital	Gp Capt Dr.Rajaram Ph : 8618704274	31	20	10	61
12	HAL Hospital	Ranga Reddy Ph : 8660518763 Dr. Rakthim Gosh Ph : 9482511937	40	03	03	46
13	Nimhans hospital	Dr. Chandrashekar Ph : 9480829446	50	03	03	56

SI No	Hospitals	Nodal Officer / Asst Nodal Officer	Beds	ICU	Vent	Total
		Dr. Shashidhar Ph : 9844082594				
		Total	601	88	53	742

Total Beds: 601 + 88 +53 = 742

NODAL PRIVATE HOSPITALS

SI No	Hospitals	Nodal Officer / Asst. Nodal Officer	Beds	ICU	Vent	Total
1	Aster CMI Hospital	Dr. Hemanth Ph : 9538897501 Dr. Shailesh Shetty Ph : 8123485059	35	5	5	45
2	Akash Hospital Devanahalli	Dr. Kailash Ph : 9845155000 Dr. Sunil Kumar Ph : 9880729089	35	10	5	50
3	Columbia Asia Hospital Bellary Rd	Mahesh Ph : 9663087621 Dr. Ranveer Ph : 9540429106	10	2	2	14
4	M.S.Ramiah Memorial Hospital	Dr.Keshav Ph : 9986599275 Dr. Aruna Ph : 9845033079 Dr Sudhakar B N 9036647890	75	5	3	83

SI No	Hospitals	Nodal Officer / Asst. Nodal Officer	Beds	ICU	Vent	Total
5	Baptist Hospital Bellary Road	Dr : Anjali Ph : 8411825000 Dr : Sagar Ph : 9441024292	5	3	2	10
6	Sparsh Hospital Tumkur Road	Dr. Kiran Ph : 9845296640 Dr. Anand Ph : 9164623477	50	20	5	75
7	Manipal hospital Varthur	Dr. Amrutha reddy Ph : 9686917322 Amrutha.reddy@manipalhospitals.com	10	1	1	12
8	Columbia Asia Hospital Tumkur Road Yeshwanthapur	Dr. Firoz Ph : 9008504786 Dr. Ranveer Ph : 9540429106	10	2	2	14
9	Dr. B.R.Ambedkar Medical college	Dr Prashanth K Ph : 9986263516 Dr. Bharathi Raja Ph : 9758815511	75	10	2	87
10	Mahaveer Jain Hospital	Dr : Nishanth .H Ph : 9901099222 Dr. Neha Ph : 9930935994	50	10	2	62
11	East Point Medical College	Dr. Narendra Datti Ph : 9845526258 Dr. Shivakumar Ph : 9448377088	50	5	2	57
12		Dr. Sunay Mahesh	5	2	1	8

SI No	Hospitals	Nodal Officer / Asst. Nodal Officer	Beds	ICU	Vent	Total
	Fortis Hospital Cunnigham Road	Ph : 8826491649				
13	Hosmat Hospital	Dr. Ajith Benedict Ph : 9449046884 Dr. Ravi Shankar Ph : 9480495338	50	10	2	62
14	Chinmaya Hospital	Dr. Dakshina Murthy Ph : 9448943678 Mr. Vinay, Admin Ph: 9901650416	30	10	2	42
15	Specialist Hospital	Dr. Mohammed Ph : 7411404789 Dr. Loid Ph : 8722358677	5	2	2	9
16	People Tree - Tumkur	Dr. Saikiran Ph : 9886073725 Dr. Karthik Ph : 7675080341	10	2	2	14
17	Vikram Hospital	Dr. Divya Ph : 9972122225	10	3	3	16
18	Zion Hospital	Dr. Prasanna Ph : 8553905193 Smt. Celestine Ph : 9108221817	5	3		8
19	Shifa Hospital	Dr. Zameer Ahmed Ph : 6363178521 Dr. Zahid Ahmed Ph : 9886220447	20	5		25

SI No	Hospitals	Nodal Officer / Asst. Nodal Officer	Beds	ICU	Vent	Total
20	CSI Hospital	Dr. Satish Ph : 9480741407	30	5	2	37
21	St.Philomenas	Dr. Prasad Ph : 9902263224 Dr. Shivaprakash Ph : 9741850812	30	10	2	42
22	Apollo Sheshadripuram	Dr. Umesh Ph : 8660606343	10	5	5	20
23	Apollo Jayanagar	Dr. Venkatesh Ph : 9980141066 Dr. Yatheesh Ph : 9900236831	10	5	5	20
24	Apollo Bannerghatta Road	Dr. Venkatesh Ph : 9980141066 Dr. Sahana Ph : 9902522250	20	5	5	30
25	Vagus Hospital Malleswaram	Dr. Santhan Ph : 9844005335 Dr. Jagadeesh Ph : 7090600005	5	2	1	8
26	Suguna Hospital	Manju Ph : 9591177299 Dr.Rekha Ph : 9845073677	10	2	1	13
27	Mallige	Ibrahim Ph : 9738958578	10	3	2	15

SI No	Hospitals	Nodal Officer / Asst. Nodal Officer	Beds	ICU	Vent	Total
28	St Marthas Hospital	Dr. Shashikanth Ph: 9845202816 Dr. Padmalatha Ph : 9986097927	10	3	2	15
29	Manipal Hospital HAL	Dr. Mabel Ph : 9845932624 Mr. Subhash Ph : 9535429505	100	20	20	140
30	Vydehi super speciality	Dr. Humera Ph : 9845092091	10	2	1	13
31	Sakra Hospital	Dr.Deepak Balani Ph: 9916652524 Dr.Bevin Ph:3316652524	50	10	2	62
32	KIMS Hospital	Dr.Giriyana Gowda Ph:8095938103 Dr.Ramesh Masti Ph:9845759992	30	5	2	37
33	St Johns	Dr.Preetesh.R.K. Ph:9845272765 Dr.Narendra Ph:9739095051	10	6	2	18
34	Bangalore Hospital	Manjula 9972360269	10	2	2	14
35	Sagar Hospital	Dr.Major Mahendra Kumar Ph:9591991881 Dr.W.D.Mohan Ph:9538352116	20	5	5	30

SI No	Hospitals	Nodal Officer / Asst. Nodal Officer	Beds	ICU	Vent	Total
36	Ramakrishna Hospital	Dr.Reshma Ph:8197662329 Dr.Vijaya Ph:9449461261	10	5	5	20
37	RV Aster Hospitals	Dr.Harish Ph:8884356359 Dr.Chaithra A Ph: 9449461261	10	5	2	17
38	Vydehi Medical College	Dr.UmaMaheshw Ph:9441249655 Dr.Murali Mohan Ph:9741166533	200	20	10	230
39	Oxford Medical College	Dr. Sanikop Ph : 8971172337 Dr. Girish Ph : 8105499689	100	20	5	125
40	Fortis Hospital Bannerghatta	Dr. Sunay Mahesh Ph : 8826491649 Dr. Ravi Shankar Ph : 8310779453	20	5	2	27
41	Narayana Hrudayalaya	Dr. Nathan manjunath Ph : 9740265227	40	20	10	70
42	Sapthagiri Medical College	Dr. Nagaraj Ph : 7702990688 Dr. Prashanth Ph : 7907827286	100	15	2	117
43	RR Nagar Medical College	Dr. Amith Jain Ph : 9731717134	50	15	5	70

SI No	Hospitals	Nodal Officer / Asst. Nodal Officer	Beds	ICU	Vent	Total
44	BGS Hospital	Dr. mani Ph : 9845900051	25	15	3	43
45	MVJ Medical College	Dr. Pramod Ph : 9980830292 Dr. Anjana Reddy Ph : 9060589717	25	5	2	32
46	Sparsh Hospital Tumkur Road	Dr. Kiran Ph : 9845296640 Dr. Anand Ph : 9164623477	50	20	5	75
47	Manipal Hospital Whitefield	Dr. Aditya bharath Ph : 9600411911 Dr. Vignesh Ph : 8884444308 9902582318	10			10
Total			1,475	330	143	1,948

Total Beds: 1,475 +330+143=1,948.

NODAL HOSPITALS (GOVERNMENT & PRIVATE)

SI No	Hospitals	Nodal Officer / Asst Nodal Officer	Beds	ICU	Vent	Total
1	GH – Yelahanka	Dr. Ramakrishna Ph : 9845176662 Ph : 28563977 Dr. Aishwarya Ph : 9591515113	40	5	3	48
2	K.C.General Hospital	Dr. Indira R Kabade Ph : 8310180831	50	4	2	56
3	Bowring Hospital	Dr. Mohan kumar s l Ph : 9448189250	100	5	5	110

SI No	Hospitals	Nodal Officer / Asst Nodal Officer	Beds	ICU	Vent	Total
		Dr. Mohan kumar g Ph : 9845636045 Dr Yashovardhan 7892622654				
4	GH - Indira Nagar	Dr. Ramesh Ph : 9481844222 Dr. Suresh.M Ph : 9449238392 Dr. Siddeshwar Ph : 9448909406 Ph : 25281246	10	3		13
5	GH - K.R.Puram	Dr. Yogesh gowda Ph : 9886058883	40	3	1	44
6	ESI - Rajajinagar	Dr. Mayadevi Ph : 9845218142 Dr. Rohith Ph : 9611146061	50	5		55
7	Jayadeva Hospital	Dr. S.Shankar Ph : 9845002025 Dr. Bhoopal Ph : 9845022281	50	20	20	90
8	Sanjay Gandhi Hospital	Dr. Girish Ph : 9743701699 Dr. Dharini Chitra Ph : 9449676102	50	4	2	56
9	GH - Jayanagar	Dr. Hanumanthara Ph : 9740180009 Dr. Chanabasava Ph : 9448659366	50	10	2	62
10	Victoria Hospital	Dr.Ramesh Krishna Ph : 9590904459 Dr. Rajesh Ph : 8747919196 Ph : 26802680	40	3	2	45
11		Gp Capt	31	20	10	61

SI No	Hospitals	Nodal Officer / Asst Nodal Officer	Beds	ICU	Vent	Total
	Command Hospital	Dr Rajaram Ph : 8618704274				
12	HAL Hospital	Dr.Ranga Reddy Ph : 8660518763 Dr. Rakthim Gosh Ph : 9482511937	40	3	3	46
13	NIMHANS Hospital	Dr. Chandrashekar Ph : 9480829446 Dr. Shashidhar Ph : 9844082594	50	3	3	56
14	Aster CMI Hospital	Dr. Hemanth Ph : 9538897501 Dr. Shailesh Shetty Ph : 8123485059	35	5	5	45
15	Akash Hospital Devanahalli	Dr. Kailash Ph : 9845155000 Dr. Sunil Kumar Ph : 9880729089	35	10	5	50
16	Columbia Asia Hospital Bellary Rd	Mahesh Ph : 9663087621 Dr. Ranveer Ph : 9540429106	10	2	2	14
17	M.S.Ramiah Memorial Hospital	Dr.Keshav Ph : 9986599275 Dr. Aruna Ph : 9845033079 Dr Sudhakar B N 9036647890	75	5	3	83
18	Baptist Hospital Bellary Road	Dr : Anjali Ph : 8411825000 Dr : Sagar Ph : 9441024292	5	3	2	10
19	Sparsh Hospital Tumkur Road	Dr. Kiran Ph : 9845296640 Dr. Anand Ph : 9164623477	50	20	5	75

SI No	Hospitals	Nodal Officer / Asst Nodal Officer	Beds	ICU	Vent	Total
20	Manipal hospital Varthur	Dr. Amrutha reddy Ph : 9686917322 Amrutha.reddy@manipalhospitals.com	10	1	1	12
21	Columbia Asia Hospital Tumkur Road Yeshwanthapur	Dr. Firoz Ph : 9008504786 Dr. Ranveer Ph : 9540429106	10	2	2	14
22	Dr. B.R.Ambedkar Medical college	Dr Prashanth K Ph : 9986263516 Dr. Bharathi Raja Ph : 9758815511	75	10	2	87
23	Mahaveer Jain Hospital	Dr : Nishanth .H Ph : 9901099222 Dr. Neha Ph : 9930935994	50	10	2	62
24	East Point Medical College	Dr. Narendra Datti Ph : 9845526258 Dr. Shivakumar Ph : 9448377088	50	5	2	57
25	Fortis Hospital Cunnigham Road	Dr. Sunay Mahesh Ph : 8826491649	5	2	1	8
26	Hosmat Hospital	Dr. Ajith Benedict Ph : 9449046884 Dr. Ravi Shankar Ph : 9480495338	50	10	2	62
27	Chinmaya Hospital	Dr. Dakshina Murthy Ph : 9448943678 Mr. Vinay, Admin Ph: 9901650416	30	10	2	42
28	Specialist Hospital	Dr. Mohammed Ph : 7411404789 Dr. Loid Ph : 8722358677	5	2	2	9
29	People Tree – Tumkur	Dr. Saikiran Ph : 9886073725	10	2	2	14

SI No	Hospitals	Nodal Officer / Asst Nodal Officer	Beds	ICU	Vent	Total
		Dr. Karthik Ph : 7675080341				
30	Vikram Hospital	Dr. Divya Ph : 9972122225	10	3	3	16
31	Zion Hospital	Dr. Prasanna Ph : 8553905193 Smt. Celestine Ph : 9108221817	5	3		8
32	Shifa Hospital	Dr. Zameer Ahmed Ph : 6363178521 Dr. Zahid Ahmed Ph : 9886220447	20	5		25
33	CSI Hospital	Dr. Satish Ph : 9480741407	30	5	2	37
34	St.Philomenas	Dr. Prasad Ph : 9902263224 Dr. Shivaprakash Ph : 9741850812	30	10	2	42
35	Apollo Sheshadripuram	Dr. Umesh Ph : 8660606343	10	5	5	20
36	Apollo Jayanagar	Dr. Venkatesh Ph : 9980141066 Dr. Yatheesh Ph : 9900236831	10	5	5	20
37	Apollo Bannerghatta Road	Dr. Venkatesh Ph : 9980141066 Dr. Sahana Ph : 9902522250	20	5	5	30
38	Vagus Hospital Malleswaram	Dr. Santhan Ph : 9844005335 Dr. Jagadeesh Ph : 7090600005	5	2	1	8
39	Suguna Hospital	Manju Ph : 9591177299	10	2	1	13

SI No	Hospitals	Nodal Officer / Asst Nodal Officer	Beds	ICU	Vent	Total
		Dr.Rekha Ph : 9845073677				
40	Mallige	Ibrahim Ph : 9738958578	10	3	2	15
41	St Marthas Hospital	Dr. Shashikanth Ph: 9845202816 Dr. Padmalatha Ph : 9986097927	10	3	2	15
42	Manipal Hospital HAL	Dr. Mabel Ph : 9845932624 Mr. Subhash Ph : 9535429505	100	20	20	140
43	Vydehi super speciality	Dr. Humera Ph : 9845092091	10	2	1	13
44	Sakra Hospital	Dr.Deepak Balani Ph: 9916652524 Dr.Bevin Ph:3316652524	50	10	2	62
45	KIMS Hospital	Dr.Giriyana Gowda Ph:8095938103 Dr.Ramesh Masti Ph:9845759992	30	5	2	37
46	St Johns	Dr.Preetesh.R.K. Ph:9845272765 Dr.Narendra Ph:9739095051	10	6	2	18
47	Bangalore Hospital	Manjula 9972360269	10	2	2	14
48	Sagar Hospital	Dr.Major Mahendra Kumar Ph:9591991881 Dr.W.D.Mohan Ph:9538352116	20	5	5	30
49	Ramakrishna Hospital	Dr.Reshma Ph:8197662329 Dr.Vijaya Ph:9449461261	10	5	5	20

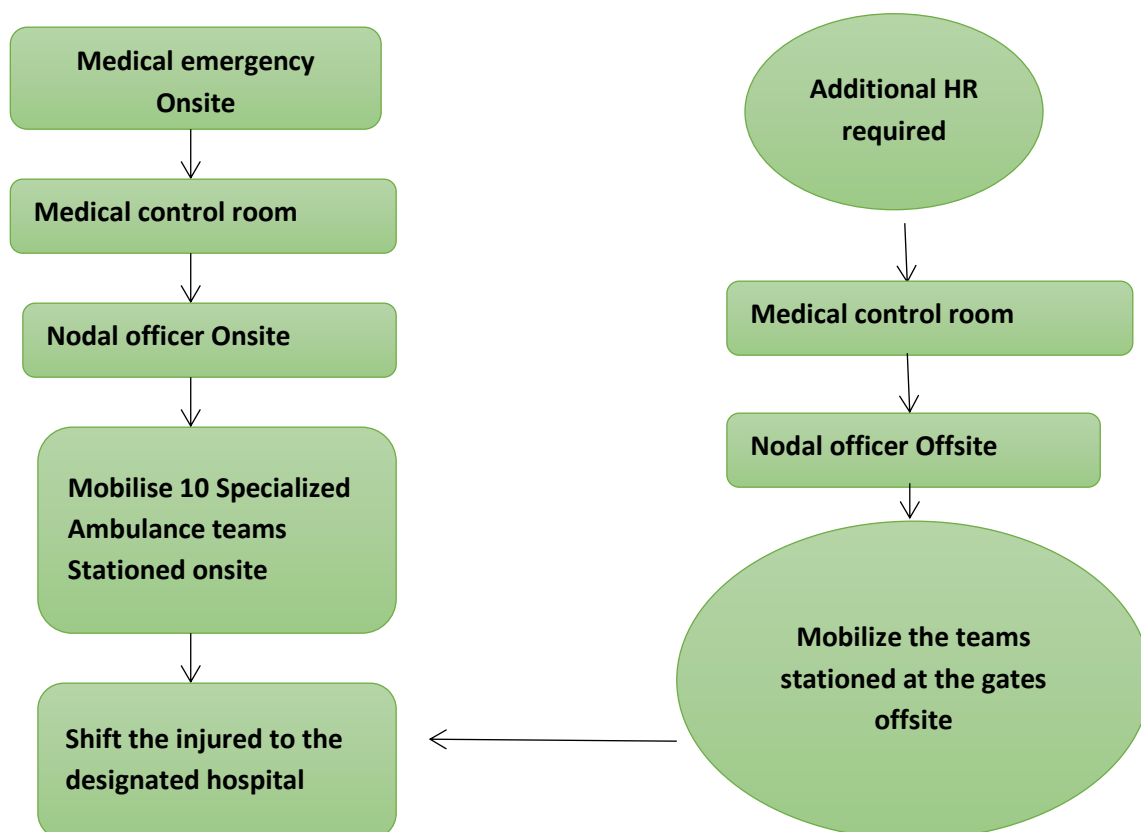
SI No	Hospitals	Nodal Officer / Asst Nodal Officer	Beds	ICU	Vent	Total
50	RV Aster Hospitals	Dr.Harish Ph:8884356359 Dr.Chaithra A Ph: 9449461261	10	5	2	17
51	Vydehi Medical College	Dr.UmaMaheshw Ph:9441249655 Dr.Murali Mohan Ph:9741166533	200	20	10	230
52	Oxford Medical College	Dr. Sanikop Ph : 8971172337 Dr. Girish Ph : 8105499689	100	20	5	125
53	Fortis Hospital Bannerghatta	Dr. Sunay Mahesh Ph : 8826491649 Dr. Ravi Shankar Ph : 8310779453	20	5	2	27
54	Narayana Hrudayalaya	Dr. Nithin manjunath Ph : 9740265227	40	20	10	70
55	Sapthagiri Medical College	Dr. Nagaraj Ph : 7702990688 Dr. Prashanth Ph : 7907827286	100	15	2	117
56	RR Nagar Medical College	Dr. Amith Jain Ph : 9731717134	50	15	5	70
57	BGS Hospital	Dr. mani Ph : 9845900051	25	15	3	43
58	MVJ Medical College	Dr. Pramod Ph : 9980830292 Dr. Anjana Reddy Ph : 9060589717	25	5	2	32
59	Sparsh Hospital Tumkur Road	Dr. Kiran Ph : 9845296640 Dr. Anand Ph : 9164623477	50	20	5	75

SI No	Hospitals	Nodal Officer / Asst Nodal Officer	Beds	ICU	Vent	Total
60	Manipal Hospital Whitefield	Dr. Aditya Bharath Ph : 9600411911 Dr. Vignesh Ph : 8884444308 9902582318	10			10

Total Beds: 2,076 +418 +196 = 2,690

SCALE UP PLAN

At the Air Force station Yelahanka, AERO INDIA 2023 is expected to draw 30,000–50,000 spectators each day. Consequently, in case of any Medical Emergency that can arise for around 50 to 100 persons during the Aero show Onsite, 10 Specialised Ambulance teams that have been stationed Onsite will respond immediately to assist the injured. The Emergency Medical Response Squads, which will be stationed at the 9 gates Offsite, will arrive on the scene and be used accordingly in the meantime if additional HR is necessary. Further support can be drawn from neighbouring districts in case of need.



DIRECTORY: STATE HEALTH TASK FORCE - AERO INDIA 2023

01	Shri. Anil Kumar T.K, IAS Principal Secretary to Government, Department of Health & Family Welfare	9448464333
02	Shri. Randeep D, IAS, Commissioner, Health & Family Welfare services	9449843003
03	Dr. K V. Trilok Chandra, IAS Special Commissioner Health BBMP	9448050320
04	Dr. Naveen Bhat Y, IAS Mission Director, National Health Mission, Department of Health & Family Welfare services.	9449843002
05	Shri. K.A. Dayananda, IAS, Chairman, District Disaster Management Authority, Deputy Commissioner & District Magistrate, Bengaluru Urban District	9449649019
06	Dr. Indumathi M Director, Directorate of Health & Family Welfare Services. Government of Karnataka	9449843004
07	Dr. Sujatha Rathod, Director, Directorate of Medical Education,	9448081108
08	Dr. Srinivas G N Project Director (RCH) Directorate of Health & Family Welfare Services	9449843005
09	Dr. M.K. Sudarshan, Chairman TAC, Covid 19, Government of Karnataka.	9481778364
10	Dr. Mohammad Shariff, Member Secretary, STAC, Covid 19	9449843154
11	Dr. Prabhudev B Gowda, Nodal officer- AERO SHOW-2023, Commissionerate of Health and Family welfare services	9449843438
12	Dr. Ranga Reddy, Chief Medical Superintendent , HAL	8660518763
13	Dr. Indira R Kabade, District Health and Family welfare officer, Bengaluru Urban District	8310180331
14	Dr Manohar N, District Surveillance Officer, Bengaluru Urban District	9449042433
15	Dr Praveen Kumar H, Assistant State Nodal officer, NFDS	9611166601
16	Dr. Jagadish, District Health and Family welfare officer, Kolar	9449843057
17	Dr. Mahesh Kumar, District Health and Family welfare officer, Chikkaballapura	8310180831

18	Dr. Kantharaju, District Health and Family welfare officer, Ramanagara	9449843061
19	Dr. Suresh, District Surgeon, Bengaluru Urban	9845194251
20	Dr. G.L Padma, District Surgeon, Ramanagara	9845144452
21	Dr. Ramesh, District Surgeon, Bengaluru Rural	9480231664
22	Dr. Raja Reddy, District Surgeon, Chikkaballapura	9845880969
23	Dr. Vijaya Kumar, District Surgeon, Kolar	9986311843
24	Dr. N. Manohar, District Surveillance Officer, Bengaluru Urban District	9449042433
25	Dr. Muruli Mohan, District Surveillance Officer, Bengaluru Rural District	7795432264
26	Dr. Krishna Prasad, District Surveillance Officer, Chikkaballapura	9845077871
27	Dr. Charini, District Surveillance Officer, Kolar	9449843262
28	Dr. Kiran , District Surveillance Officer, Ramanagara	8252794241

ACTION PLAN FOR HEALTH DISASTER MANAGEMENT FOR AERO INDIA 2023

ANNEXURE 1

ONSITE PLAN

Specialized ambulance teams Stationed as per the orders of Medical Controller, Air Force, Yelahanka

TEAM 1	
Hospital/ Nodal Officer	St Johns Medical college DR. Preethesh RK 9845272765
Specialist	DR. Mevin 7559849936
Doctor	Dr Aneesh Dahanga 97939532679
Staff Nurse	Jeethu 7907551465
Paramedic	Vaishnavi 9025810436
D Group	Bhagya 9008627036
Ambulance Driver	St Johns MC Mahesh 9632346043
Ambulance NO	KA 01 AM 4201

TEAM2	
Hospital/ Nodal Officer	Vydehi Medical College Hospital Smt Vijaylakshmi PRO VIMS 9916670698
Specialist	Dr.Pradeep.B.A Orthopedics 8197977702
Doctor	Dr.Sam Koshy 7403302109
Staff Nurse	Ajith kumar 6369688623
Paramedic	Nalina.G.S 9480105310
D Group	Harish 6363536070 Ashok 7075580559
Ambulance Driver	Vydehi MCH Manjunath 8970212320
Ambulance NO	KA-53 AA-3946

TEAM 3	
Hospital/ Nodal Officer	Manipal Yashwanthpur DR PRASANNA KUMAR 6360777121
Specialist	DR PRASANNA KUMAR Orthopedics 6360777121
Doctor	Dr Ravishankar 9108938731
Staff Nurse	OBALESHA 8073524259
Paramedic	SANDEEP 8494949108
D Group	Ashwath C A 9738738998
Ambulance Driver	Manipal Yashwanthpur SHANKAR 9902117466
Ambulance NO	KA-03-AV-7506

TEAM 4	
Hospital/ Nodal Officer	Jayadeva Hospital Dr Krishna Murthy 9900580200
Specialist	Dr Nagaraju A S Cardiologist 8872262555
Doctor	
Staff Nurse	Sri Chandramouli 8217294850
Paramedic	
D Group	Sri Praveen Kumar 9663601436
Ambulance Driver	Jayadeva Hospital Shri Satish 9611383380
Ambulance NO	KA51AG0911

TEAM 5	
Hospital/ Nodal Officer	NIMHANS Dr Lingaraju T S Ph .9986110860
Specialist	Dr Lingaraju T S Ph .9986110860
Doctor	Dr Roopesh Ph. 8618708433
Staff Nurse	Harsha Ph. 9844678789
Paramedic	Prasanna Ph. 8971133444
D Group	SURESH KUMAR Ph.9738109071
Ambulance Driver	NIMHANS WAHEED Ph. 9845635096
Ambulance NO	KA-51-AG-3560

ANNEXURE 2

Emergency Standby Squad**Team:** Emergency Standby team

TEAM 1	
Hospital/ Nodal Officer	Manipal Hebbal Dr Mahesh Mylarappa 9663087621
Specialist	Dr Keshav 9916271943
Doctor	Dr Manjunath 9902157157
Staff Nurse	Avinandan 7003218655
Paramedic	Pushpalatha 7406163811
D Group	Sumalatha 7411039174
Ambulance Driver	Manipal Hebbal HANUMANTHAPPA 9731498562
Ambulance NO	KA 03 AB 7507

TEAM 2	
Hospital/ Nodal Officer	Mallige Hospital Mr Ibrahim 9738958578
Specialist	DR MUTHU 9845044889
Doctor	DR PRAMILA 9738860093
Staff Nurse	JYOTHI 8867046535
Paramedic	MAMATHA K R 9901293258
D Group	DEVRAJ 9738958578
Ambulance Driver	Bangalore Rural GH Devanahalli Rajshekar 8618360297
Ambulance NO	KA 43 G 0219

TEAM 3	
Hospital/ Nodal Officer	Mallige Hospital Mr Ibrahim 9738958578
Specialist	DR VENKATRAJU 9845216775
Doctor	DR KEVIN 8281292919
Staff Nurse	RAJINI 9742142580
Paramedic	MANJUNATH 9738958578
D Group	VINOD 9738958578
Ambulance Driver	Bangalore Rural GH Hoskote Sri Ganesh 9035021439
Ambulance NO	KA 53-G 0046

ANNEXURE 3

Emergency Operations Medical Squad

Team	Emergency Operations Medical Squad
Hospital/ Nodal Officer	Apollo SSP Road Dr Bhaskar Pai 9845055626
Specialist	Dr ANMOL 8888783509
Doctor	Dr.ELDO 8151017563
Staff Nurse	Mr Suyol 6366194327
Paramedic	Mr .Shiva 9986666119
D Group	Ranjit 8296990085
Ambulance Driver	Apollo Hospital SSP Rd Arun C Ph : 9449328901
Ambulance NO	KA-51D3876

ANNEXURE 4

Flying Squad

Team	Flying Squad Helipad Team
Hospital/ Nodal Officer	Bowring Hospital DR ADITYA 9902918461
Specialist	DR ADITYA 9902918461
Doctor	DR SATHYAPRASAD 9916474662
Staff Nurse	DAYANAND HIRAMAT 9096188264
Paramedic	ERANNA MANNWAR 9535270143
D Group	SEENA S 9341144918
Ambulance Driver	Chikkaballapura , PHC Ellodu , Gudibande Taluk Lakshmipathi 9008946958
Ambulance NO	KA-40-G-0624

ANNEXURE 5

Action plan for health disaster management for Aero India 2023**Off site plan: Emergency Medical Static Team and Emergency Medical Response Squad****1. Gate 1****Location** - ICP : Level 1, **Sector Assignment** - S1 : Upto to ADVA Gate**Nodal Officer**- Dr Bhujabali, DMO, Bangalore Urban, Contact- 8197625473**NEAR APTS** : <https://goo.gl/maps/DNQSPRZwaGseLz396>

OFF SITE TEAM DETAILS	EMERGENCY STATIC TEAM	
Ass Nodal Officer	Dr Anita(CMO KCG) 8073859935	
Name of the hospital /Hospital Nodal officer	Apollo Specialty Jayanagar	Dr. Shiv Kumar 9902720265
Specialist	Dr Rohan Nambiar 9880608259	
MBBS Doctor	Dr Rehman 8861016389	
Staff nurse	Mr Ayush 9380651283	
Paramedic	Mr Vali Basha 8722300088	
Attender	Mr Umashankar 6362930904	
Ambulance driver	Apollo Jayanagar Yogesh Kumar 9448259460	
Ambulance Number	Apollo Jayanagar -ALS : KA51AA2999	

OFF SITE TEAM DETAILS	EMERGENCY RESPONSE SQUAD	
Ass Nodal Officer	Dr Anita(CMO KCG) 8073859935	
Name of the hospital /Hospital Nodal officer	Apollo Specialty Jayanagar	Dr. Shiv Kumar 9902720265
Specialist	Dr Shivakumar B 9902720265	
MBBS Doctor	Dr Nikhil Reddy 8073255822	
Staff nurse	Mr Sachin 7892132427	
Paramedic	Mr Saleem S 9886157988	
Attender	Mr Naveen 8192221757	
Ambulance driver	Apollo Jayanagar	Deve Gowda 9741212211
Ambulance Number	Apollo Jayanagar - ALS: KA51A4147	

2. Gate 2

Location: Opposite Side : ADVA Gate **Sector assignment S3 :** In & Around ADVA Area / upto Nitte college

Nodal Officer- Dr Chenna krishnappa, DFW, Bangalore Urban,
Contact- 9481565683

NEAR CHAI ADDA: <https://goo.gl/maps/PXL6zhjDQgoBQxM59>

OFF SITE TEAM DETAILS	EMERGENCY STATIC TEAM	
Ass Nodal Officer	Dr Sanjeev kumar K C GH 9980390518	
Name of the hospital /Hospital Nodal officer	Aster RV	Dr. Harish KS 8884356359
Specialist	Dr Wasim Akram 9448214609	
MBBS Doctor	Dr Kanika 9845300222	
Staff nurse	Br. Albert Anthony 9544789698	
Paramedic	Br Shaheem Mohammed 7025122829	
Attender	Mr Manjappa 8453733327	
Ambulance driver (Hosp)	Aster : Mr Ravindra 9880900529	
Ambulance details (Hosp)	Aster - ALS: KA-50-A-4079	

OFF SITE TEAM DETAILS	EMERGENCY RESPONSE SQUAD	
Ass Nodal Officer	Dr Sanjeev kumar K C GH 9980390518	
Name of the hospital /Hospital Nodal officer	Aster RV	Dr. Harish KS 8884356359
Specialist	Dr Ramanaiah Yadavally 6364043573	
MBBS Doctor	DR Siju Saidu 9495218607	
Staff nurse	Br. Sridhar 9060891454	
Paramedic	Br. Pavan 706159967	
Attender	MR Chow Reddy 9380882517	
Ambulance driver (Hosp)	Narayana Hrudayalaya Mr.Santhosh 8050716777	
Ambulance details (Hosp)	Narayana Hrudayalaya ALS: TS09 UC 7931	

3. Gate 3

Location: Nitte College , **Sector assignment :** S5 Upto Ganteganhalli Village

Nodal Officer- Dr Syed Shirazuddin Madani, RCH, Bangalore Urban

Contact- 9449843182

NEAR NITTE MEENAKSHI ENGINEERING COLLEGE: <https://goo.gl/maps/1HH8B594h9V6bs9A8>

OFF SITE TEAM DETAILS	EMERGENCY STATIC TEAM
Ass Nodal Officer	Dr Pankaja K C General 9886679759
Name of the hospital /Hospital Nodal officer	CSI Hospital Dr.Satishkumar 9480741407
Specialist	Dr.Sathis kumar 9480741407
MBBS Doctor	Dr. Samual 9916929590
Staff nurse	Sr. Rita 9945701244
Paramedic	Sr. Nambike 9945580181
Attender	Mrs. Lakshmi 7411314814
Ambulance driver (Hosp)	CSI Hospital Suresh 9739666894
Ambulance details (Hosp)	CSI Hospital BLS: KA 03 AA 5747

OFF SITE TEAM DETAILS	EMERGENCY RESPONSE SQUAD
Ass Nodal Officer	Dr Pankaja K C General 9886679759
Name of the hospital /Hospital Nodal officer	People Tree Yashwanthpur Dr.Rizwan PTH 9886153534
Specialist	Dr Rizwan Ali Khan 9886153534
MBBS Doctor	Dr Jeet Kapupara 8238022364
Staff nurse	Br.Ali Imran
Paramedic	LT. Pawan Kumar
Attender	Mr Ebinezzer 9901646440
Ambulance driver (Hosp)	People Tree Krishna Gowda 8088888629
Ambulance details (Hosp)	People Tree - ALS: KA-04-AA-2711

4. Gate 4

Location : ISRO Colony , **Sector assignment :** S6 In & Around ISRO Colony

Nodal Officer- Dr Nagraj, RCH, Bangalore Urban
Contact- 9886749365

GANTIGANAHALLI AYURVEDIC HOSPITAL:

<https://goo.gl/maps/rTdU65GoxYQm2sMa9>

TEAM	EMERGENCY STATIC TEAM
Assistant Nodal officer	Dr Suresh G H Jaynagar 9845571756
Name of the hospital /Hospital Nodal officer	Bhagawan Mahaveer Jain Dr.Nishanth 9901099222
Specialist	Dr Aditya Manjunath 9448478792
Specialist/MBBS Doctor	Dr Girish 9964300372
Staff nurse	RENUKA 9632073709
Paramedic	JOHNSON 8553375795
Attender	KRISHNA 8259876852
Ambulance driver (Hosp)	B MVJ -YESHWANTH 9743777767
Ambulance details (Hosp)	B MVJ - ALS: KA 51 AG 9824

TEAM	EMERGENCY RESPONSE SQUAD
Assistant Nodal officer	Dr Suresh G H Jaynagar 9845571756
Name of the hospital /Hospital Nodal officer	Chinmaya hospital Dr.Dakshina Murthy 9448943678
Specialist	Dr Gopinath Orthopedic 9606612727
Specialist/MBBS Doctor	Dr Mary 9164023328
Staff nurse	Ms Vinutha 8618762872
Paramedic	Mr suresh kumar 9738122818
Attender	Mr Vajramurthy 9164455101
Ambulance driver (Hosp)	Manipal Millers Rd Shivanand 9686698738
Ambulance details (Hosp)	Manipal Millers Rd - ALS: KA01 09408

Gate 5

Location : Gantegnahalli Village , **Sector assignment** - S7 : In & Around Gantegnahalli Village / Doddballapur

Nodal Officer- Dr Chetana, Medical Officer
Konnappana Agrahara, Contact-9980207472

GOVT METRIC BOYS HOSTEL NEAR ISRO LAYOUT:

<https://goo.gl/maps/dMV7pLQ7Xh25ivjn7>

Team	Emergency Static team
Assistant Nodal officer	Dr Dinesh G H Jaynagar 9731331795
Name of the hospital /Hospital Nodal officer	KIMS Dr.Madhava Reddy 9379094790
Specialist	Dr. Amith Kamath 9972110625
MBBS Doctor	Dr. Mrunalini 8792560702
Staff nurse	Smt. Suma GM 9901575352
Paramedic	Mangala M 9901940997
Attender	S. Jayaram gowda 9980192374
Ambulance driver (Hosp)	KIMS : Hanumanthappa 9945794395
Ambulance details (Hosp)	KIMS - ALS : KA-02-AC-2238

Team	Emergency Response squad
Assistant Nodal officer	Dr Dinesh G H Jaynagar 9731331795
Name of the hospital /Hospital Nodal officer	Manipal Hospital Hebbal Dr.Mahesh Mailarappa 9663087621
Specialist	Dr. Teju Dasari 9642548664
MBBS Doctor	Dr. Kiran 8904025011
Staff nurse	Jayanta 7063184662
Paramedic	Sandhya 9123504720
Attender	Soniya 9108704276
Ambulance driver (Hosp)	Chikkaballapura , PHC Sadali , Shidlaghatta Taluk Manjunath V 9480912260
Ambulance details (Hosp)	Chikkaballapura , PHC Sadali KA-40-A-6068

Gate 6**Location:** Ganteganaahalli Village , **Sector assignment:** S9 : Upto MVIT College**Nodal Officer:** Dr Nandini, THO, Bangalore South

Contact-8970355797

NEAR MVIT ENGINEERING COLLEGE:<https://goo.gl/maps/P7x1G4kkHLg1rmsj8>

TEAM	EMERGENCY STATIC TEAM
Assistant Nodal officer	Dr Mahesh G H Jaynagar 9845118664
Name of the hospital /Hospital Nodal officer	Chinmaya Hospital Dr.Dakshina Murthy 9448943678
Specialist	Dr Pavithra Gen Surgeon 8660374299
Specialist/ MBBS Doctor	Dr Bharathi 7019392867
Staff nurse	Gayathri Ms 9535504651
Paramedic	Sajina 97358174079
Attender	Mr Ashok 9108256114
Ambulance driver (Hosp)	Chikkaballapura , PHC Irangapalli , ChinthamaniTaluk Praksh 8553536006
Ambulance details (Hosp)	Chikkaballapura , PHC Irangapalli , ChinthamaniTaluk KA- 40-G-0620

TEAM	EMERGENCY RESPONSE SQUAD
Assistant Nodal officer	Dr Mahesh G H Jaynagar 9845118664
Name of the hospital /Hospital Nodal officer	Chinmaya Hospital Dr.Dakshina Murthy 9448943678
Specialist	Dr Supriya 9741135459
Specialist/ MBBS Doctor	Dr Sunehana 702213882
Staff nurse	Ms Bhavani 8762584761
Paramedic	Ms Rupa kumari 9066443252
Attender	Mr Anand 9902143580
Ambulance driver (Hosp)	St Marthas Hospital : Sebastian 8762945846
Ambulance details (Hosp)	St Marthas Hospital BLS: KA51AG2585

Gate 7

Location: MVIT College , **Sector assignment :** S10 : Upto Bellary Main Road

Nodal Officer: Dr Raghunath, THO, Bangalore East

Contact-9845106993

NEAR SAMMY'S DREAM LAND: <https://goo.gl/maps/WTToad3S2mDprjoJA>

TEAM	EMERGENCY STATIC TEAM
Assistant Nodal officer	Dr Rosy C V Raman 9945689617
Name of the hospital /Hospital Nodal officer	Dr Ambedkar MC Dr.Prashanth 9986263516
Specialist	Dr syed Adeeda Nousheen 8897888298
Specialist/ MBBS Doctor	dr Md Ruhan zama 9148045009
Staff nurse	vinod kumar m 7795417282
Paramedic	sunil c 6362575913
Attender	Solomon 9148190434
Ambulance driver (Hosp)	Shifa Hospital IBRAHIM 8197993583
Ambulance details (Hosp)	Shifa Hospital - ALS: KA 51 AF 8814

TEAM	EMERGENCY RESPONSE SQUAD
Assistant Nodal officer	Dr Rosy C V Raman 9945689617
Name of the hospital /Hospital Nodal officer	Dr B R Ambedkar MC Dr.Prashanth 9986263516
Specialist	Dr ANIL KUMAR 8123179290
Specialist/ MBBS Doctor	Dr om Shiva ST 7353534654
Staff nurse	SridharaMurthy B 7975293295
Paramedic	Chandrashekar J 6364454236
Attender	Nagesh B 9901042333
Ambulance driver (Hosp)	Dr BR Ambedkar Nagendra Swamy 9916146660
Ambulance details (Hosp)	Dr BR Ambedkar - ALS : KA-01-AB-9312

Gate 8**Location:** Chikkajala Police Station, **Sector assignment:** S11 : Upto Gate 5**Nodal Officer:** Dr Ravi Kumar, THO, Anekal, Bangalore Urban

Contact-9449438498

NEAR CHIKKAJALA POLICE STATION: <https://goo.gl/maps/2bH47KEzE65TAUen6>

TEAM	EMERGENCY STATIC TEAM
Assistant Nodal officer	Dr Sangeetha C V Raman 7259278796
Name of the hospital /Hospital Nodal officer	KIMS Dr.Madhava Reddy 9379094790
Specialist	Dr.Veeresh 9738029625
Specialist/MBBS Doctor	Dr. Manjunath 8970726382
Staff nurse/Paramedic	Smt Padmashree K 9980664386
Paramedic	Ramesh L K 9008408666
Attender	Purandra TM 9342033679
Ambulance driver (Hosp)	Sagar Hospital SWAMY 9066486642
Ambulance details (Hosp)	Sagar Hospital - ALS : KA-05-AC-4566

TEAM	EMERGENCY RESPONSE SQUAD
Assistant Nodal officer	Dr Sangeetha C V Raman 7259278796
Name of the hospital /Hospital Nodal officer	Sakra Hospital Dr.Deepak Balani 9341960717
Specialist	Dr Venkatesh Ortho 9036688426
Specialist/MBBS Doctor	Dr Abin H Augustin 8111951410
Staff nurse/Paramedic	Robin 9916613625
Paramedic	Mahesh 9844409100
Attender	Manikanta 8722326976
Ambulance driver (Hosp)	Sakra Bhiman Gowda 8951386961
Ambulance details (Hosp)	Sakra - ALS : KA 01 AC 4753

Gate 9**Location:** Petrol Bunk - Adjacent to Domestic Parking ,**Sector assignment:** S12: In and around Outside Domestic Parking upto ICP 1**Nodal Officer:** Dr Shylakumar, THO, Bangalore North (Yelahanka)**Contact-**9740026729**(RESERVED) Cytecure Cancer Hospitals Bangalore :**<https://goo.gl/maps/f3q96bn9DMzggWZ26>

TEAM	EMERGENCY STATIC TEAM
Assistant Nodal officer	Dr Sushma C V Raman Hospital 9019109855
Name of the hospital /Hospital Nodal officer	KIMS Dr.Madhava Reddy 9379094790
Specialist	Dr.Saba moossraza 9663175047
Specialist /MBBS Doctor	Dr.Gautham 9611277602
Staff nurse/Paramedic	Smt Manjula 9845814576
LT	Girish CN 9741100858
Attender	Channe Gowda 9964493622
Ambulance driver (Hosp)	Specialist Hospital Kanthraj 7899336997
Ambulance details (Hosp)	Specialist Hospital -BLS: KA-51-MF-8523

TEAM	EMERGENCY RESPONSE SQUAD
Assistant Nodal officer	Dr Sushma C V Raman Hospital 9019109855
Name of the hospital /Hospital Nodal officer	Suguna Hospital Mr.Manju 9591177299
Specialist	Dr. Chandrashekar Anasthesia 9900092423
Specialist /MBBS Doctor	Dr. Suresh Babu 9964432229
Staff nurse/Paramedic	Anindita Pramanick J 7595882685
LT	Ananda 8105465110
Attender	Falaksha 9535339702
Ambulance driver (Hosp)	Suguna Hospital G Manjunatha 9900874175
Ambulance details (Hosp)	Suguna - ALS: KA-04-AC-5547

ANNEXURE 6**TEAM : ACS HELIPAD TEAM****NODAL OFFICER: Dr Radha Krishna, Medical Sup. CVR Hospital. Ph.9901713029**

TEAM	ACS HELIPAD 12 SEATER HAL RD
Assistant Nodal Officer	CV Raman Hospital Dr Ganesh Pathologist CVR Hospital Ph.9480718451
Hospital Details	CV Raman Hospital
Specialist	Dr Raghunath Anasthesia 8095611205
MBBS Doctor	Dr Kanchana 8217861568
Staff nurse	Rajeshwari 9731119550
Paramedic	Br. Naveen Raj 9986241735
Attender	Kantharaju 9611254698
Ambulance driver (Hosp)	Sparsha - Saravana 6361015896
Ambulance details (Hosp)	Sparsha - ALS: KA04AC5340

ANNEXURE 7**TEAM : HAL HELIPAD TEAM****NODAL OFFICER: Nodal Officer Dr Radha Krishna, Medical Sup. CVR Hospital. Ph.9901713029**

TEAM	HAL HELIPAD TEAM- 24 SEATER- HAL ROAD
Assistant Nodal Officer	CV Raman Hospital Dr Ganesh Pathologist CVR Hospital Ph.9480718451
Hospital Details	CV Raman Hospital
Specialist	Dr Hemaraju Anasthetist Ph.9886094233
Specialist /MBBS Doctor	Dr Suresh 9449065059
Staff nurse	Sr. Hema 9535205672
Paramedic	Br. Satish 9845398667
Attender	Kenadi 9538928857
Ambulance driver (Hosp)	Sanjay Gandhi LINGARAJU 7483834428
Ambulance details (Hosp)	Sanjay Gandhi - ALS: KA-01-AF-4341

Hospital Mapping for Off Site Helipad Teams (Annexure 6 & 7)

1. CV Raman Hospital
2. Manipal HAL Rd
3. Victoria Hospital

STAND BY MEDICAL TEAMS FOR AERO INDIA-2023

Institute/ Mailid	St Philomenas doyesp@gmail.com	St Johns kiranpretesh@gmail.com
Nodal Officer	Dr Shankar Prasad 9972400908	DR PRETESH KIRAN 9845272765
Orthopedics	DR J B Venkatesh Prasad 9611131735	Dr Joseph Francisc
Anesthetist	Dr.Ramashankar	
Internal Medicine	Dr B Y Amaranath	
MBBS		Dr Anshika Gupta
Nursing		Sr Bhavya
Paramedic		VijayKumar
D Group		Geetha

Institute/ Mailid	Hosmat Hospital	Manipal Millers Road wecare@manipalhospitals.com
Nodal Officer	DR AJITH 9449046884	Dr. Divya 9972122225
Orthopedics	DR KRISHNA KUAMR 7411295438	Dr.Amrithal
Anesthetist	DR SANTHOSH	Dr. Kiran
Internal Medicine	DR PRADEEP 9972881188	Dr.Harshitha 9900037000
MBBS		
Nursing		
Paramedic		
D Group		

Institute/ Mailid	Republic Hospital republichospital@hotmail.com	St Marthas Hospital shashikanthramachandra@gmail.com
Nodal Officer	MR BICRAM DAS 8095464742	Dr. Shahshikanth 9845202816
Orthopedics	DR SHIVA RUDRESH	Dr. Jayanth 9686800261
Anesthetist	DR SURAJ	Dr. Praveen 9789623160
Internal Medicine	DR ARJUN	Dr. Ramkumar 9880917253
MBBS	DR REVATHY	Dr. Ekta 6396948361 Dr. Shefeek 9744685159
Nursing	SRI ANNA MARY	Thapas 8660045255 Anish 6369732213
Paramedic	MR JAYARAM	
D Group	MRS SHYLAJA	Sathish 8147733408

Institute/ Mailid	Shifa Hospital shifaa.hospital@gmail.com	Sagar Hospital md@sagarhosoit.in
Nodal Officer	DR ZAMEER RMO 6363175821	Dr MAHENDRA KUMAR 9591991881
Orthopedics	Dr Shaib Khan 9901711315	Dr Naga charan 8317314625
Anesthetist	Abdul Khadir 8667459957	Dr Harish 9986866332
Internal Medicine	Dr Zikiya 9741267634	Dr PRATYUSH 9901045078
MBBS		
Nursing	Jeelani 9535663060	
Paramedic	Zaimuddin 9632599572	
D Group	Mustafa 7002164917	

Institute/ Mailid	Sanjay Gandhi	Specialist Hospital admin@specialisthospital.co.in
Nodal Officer	Dr Dharini 9449676102	MOHAMAD KHURAN 7411404789
Orthopedics	DR NEETHU 7892101752	DR NITHIN PATEL 9845511982
Anesthetist	DR TEJESWINI 9742022452	
Internal Medicine		DR NOORDDIN 9886775266
MBBS	DR GIRISH 9343701699 DR SURESH 9449323186	DR ROHINI 7760278180
Nursing	RAJESH 9972920064 PAVAN KUMAR 7411039422	VINOD 9113968688 SAM
Paramedic	PRASHANTH 7975602127	LAKSHMAN 7339650206
D Group		RAJU 9036139545 RAJESH 9901201208

Institute/ Mailid	Oxford Med College mail2aqp@gmail.com	Bangalore Hospital bangalorehospital@gmail.com
Nodal Officer	Dr. Abdul Qadeer Patwegar 9902772885	MANJULA 9972360269
Orthopedics	Dr. Sandeep Lkkappa Wadeyar 7411372642	DR H S SHETTY 9900109893
Anesthetist	Dr. Tasmina Nureen Huma 9739634104	Dr Srinivas Babu 9886055413
Internal Medicine	Dr. Rakesh Maheshwarappa P 9738725815	Dr Amith Basu 7406521406
MBBS	Dr Venkatesh M 9042622912 Dr Vishnuram S 8870114655	

Nursing	Sachin Kumar 9110246520 Anish D 7619175142	sudha rani 8088756011
Paramedic	Ashiwin Setu Vishwan 6282727575 Charumathi 6369266723	Acha sanil 9986497583
D Group	Venkatesh 9740742892 Amar 9071395650	

Institute/ Mailid	Narayana Hrudayalaya mail2aqp@gmail.com	13
Nodal Officer	Dr. Abdul Qadeer Patwegar 9902772885	13
Orthopedics		12
Anesthetist	Dr. Harish 9837498374	11
Internal Medicine		10
MBBS	Dr. Pramathkala 9837498374	7
Nursing	Sis. Asunta	9
Paramedic		7
D Group	Nagendra S	7

Standby Ambulances details

Sl No	Inst	Nodal Officers	Phone	Type	Ambulance Reg	Driver Name	Mobile Number
1	GH KR Puram	Dr Yogesh Gowda	9886058883	BLS	K-53-G-0024	Manjunath R	9741878455
2	GH Yelahanka	Dr. Ganesh B.H AMO	9980025323	BLS	KA-42-G-660	Prakash G.A	9060599729
3	GH Yelahanka	Dr. Ganesh B.H AMO	9980025323	BLS	KA-50-G-0200	Iliyaz .M	7996080266
4	KCG H	Dr. Renukaprasad	9448200298	BLS	KA02G3839	Somashekar. N	9986464595
5	KCG H	Dr. Renukaprasad	9448200298	BLS	KA04G1095	Raju.S	9945391730
6	KCG H	Dr. Renukaprasad	9448200298	BLS	KA42G0633	Purushothama Jetty	9449714233

108 Ambulance Details							
1	BTM LAYOUT	Dr Praveen DD NFDS	9611166601	BLS	KA51G5229	Shekarappa/ Pradeep	9154249392
2	CHIKKA JALA	Dr Praveen DD NFDS	9611166602	BLS	KA51G5221	Abhshek / Appaya	9154249465
3	AAVALAHALLI	Dr Praveen DD NFDS	9611166603	BLS	KA01G6713	Rudresh /Arun	9154249417
4	RAJAJI NAGAR	Dr Praveen DD NFDS	9611166604	BLS	KA01G6693	Veerendra hegade / Manjunath	9742047108
5	YESHWANTHPURA	Dr Praveen DD NFDS	9611166605	BLS	KA51G5254	Sannappa / Bheemanna	9154249407
6	Kolar Phc Kyalanur	Dr Praveen NFDS	9611166601	BLS	KA07G0863	Vijaykumar	9880455355/
7	Kolar GH Bangarpete	Dr Praveen NFDS	9611166601	BLS	KA08G0176	TV Ramappa	9535186688

CHECKLISTS

Checklist for preparedness of Health Disaster Management Plan Execution

Sl No.	Activities	Yes/No/NA	Remarks
1	Team constituted		
2	Ambulance designated		
3	Training of deputed staff		
4	Reservation of beds		
5	Route map drawn		
6	Hospital mapped as per accessibility and availability of beds		
7	Logistic arrangements		
8	ID Cards for staff		
9	Coordination meetings a) Private and Government hospitals		

	b) Review with DC and DHO Bengaluru Urban c) Review with Nodal Officers of teams		
10	Mock drill		

Checklist for monitoring the preparedness at field level

Sl No.	Activity	Yes/No/NA	Remarks
1	Draft action plan		
2	Formation of Teams		
3	Deployment of teams		
4	Deployment of Ambulances		
5	Trainings		
6	Health Kiosk installation		
7	Logistic arrangements a) Food b) Canopy c) Drinking water d) Drugs		
8	Mock drill (Health)		
9	Reservation of beds in Government and Private hospitals		

ANNEXURE II: SOPS OF BENGALURU CITY POLICE

1. CROWD MANAGEMENT:

As the event sees large number of visitors, they are allowed entry strictly through the different access gates. Aero India 2023 is a biennial air-cum-defense expo which attracts giants of the industry from all over the world and thousands of people from across the country and overseas. The event sees large number of visitors and they are allowed to enter strictly through different access gates. The following SOP is made for the access control and crowd management for the visitors to this event.

Exhibitors and service provider's entry Gate No-1:

The first point of entry to the event is for the Entry and Exit of exhibitors, service providers and organizers (Heavy vehicles). Around 500 heavy vehicles use this gate in a day. Large number of heavy vehicles will be parked in front of this gate waiting for clearance to enter inside. Officers should ensure quick clearance from the air force authorities so that there should not be any traffic jam and inconvenience for the movement of vehicles.

No public is allowed to enter through this gate.

All the exhibitors/Service providers coming through this gate will be frisked and checked by the CISF staff and jurisdictional Police will assist in the crowd control at this gate.

The exhibitors/Service provider passes and the vehicle passes are to be checked thoroughly.

Exhibitors/Service providers Entry and Exit are only through this gate.

Entry for VVIPs & VIPs Gate-2A:

Since the event has large number of VVIP, VIP and special invitees from State, Central other countries, their entry will be through this gate. Approximately 15-20 thousands will enter through this gate in a day. As mentioned above the VIPs will be allowed through this gate. Their movement follows VVIPs protocol. Since the number of entry and their vehicles have already been vetted by the VVIP security wing of the city police they will be allowed to enter through this gate.

- The VIPs vehicle is to be checked properly by the staff deployed along with the Air force and CISF officials while entering through this gate.
- One DCP rank officer is to made in-charge of this gate.
- All the duty staff should display their duty passes upon them.
- The entry is to be made free for VVIPs' movement.
- A regulatory bundobust is to be ensured instead of Law & order bundobust.

Entry for Business visitors & media entry-Gate 2B:

All the business visitors coming through this gate will be frisked and checked by the Air force staff.

- The media persons will be allowed inside after a thorough check of the accredited ID card issued by the information department along with Air force entry pass.
- The passes and the stickers for the vehicles will also be checked.
- Once allowed through this gate, their exit will be only through the next dedicating exit gate which is gate no. 3

Entry for general public Gate No. 5:

This is main public entry gate to the event. Large number of visitors with entry passes and ticket holders will enter through this gate to the exhibition area. Around 80-90 thousand people will enter in a day and in the last 2 days around 1.5-2 lakh people will enter in a day. Once allowed through this gate they will be allowed to exit only through the next dedicated exit gate.

Entry/Exit for service personnel residing in camp area: Gate 6

- This shall be entry and exit only for IAF Personnel to domestic area.
- Men will be deployed by Air force station along with civil police.

ADVA (Aerial Display Visual Area) entry : Gate No.s 8 & 8A as also 9 & 9A.

This is the area where general public and school children will be seated for the aerial show. Around 1.5 lakh people will enter through these gates in a day and in the last 2 days 2.5-3 lakh people will enter in a day.

SOP for ADVA (Aerial Display Visual Area) entry & exit.

- Entry to for pass and ticket holders and even vehicles.
- Every visitor entering through gate has to go through the mandatory pass / ticket checking by the Air force officials.
- Once allowed through ADVA gate they will be allowed to exit only through gate no 10 & 11 which are dedicated exit gates.
- More vehicles and public will pass through these gates and to be regulated properly.
- Smooth public and vehicular movement are to be ensured.
- No vehicles are to be parked on either side of the road and no public gathering should be allowed on the road.

General guidelines to control public who arrive at the Aero Show:

- Signages with route map and directions from Hebbala flyover to Airforce and from Chikkajala upto Air force to be installed.
- Signages to show parking places 5 Kms from Air force to be created to control and curb the crowd and traffic jam.
- Signages to create alternative routes for vehicles passing through Air force Station towards Devanahalli.
- Signages to indicate arrangements made for shifting vehicles parked with repairs or unnecessarily parked around the access roads.
- Signages with P.A (Public announcement) system to give directions to public who come to visit the air show.
- Children below the age of 12 years and aged above 55 years are to be restricted.
- Barricades should be created near air force gate to control crowd.
- Directions to be issued to traffic police that no parking of vehicles should be done around air force gate.
- Use barricades to ensure queues for public to enter the air show.
- Announcement through P.A (Public announcement) system should be done to maintain social distance and regulate public movement.
- Any other action as deemed necessary based on the situation will follow.

2. DRONE OPERATION REGULATION (NPNT) THWARTING DRONE ATTACK

Aero India besides showcasing aerospace products and technologies by Indian and overseas firms, will also have static and aerial display of fighters, helicopters, civil aircraft and aerobatics by IAF teams and ace pilots of combat aircraft from global aerospace majors like Lockheed Martin, Boeing, Dassault, Gripen and Euro fighter.

The area surrounding the Air force station Yalahanka is having a compound wall of 10 feet height with barbed fencing on top. Gantiganahalli, Suggatta, Hunasamaranahlli, Bharati nagar, Vinayaka nagar are the surrounding villages. Nitte Meenakashi college road is also an important route to be watched.

Bangalore city police has no capabilities in handling the drones. If air force personnel's are deployed for aerial vigilance and counter measures police assistance will be provided to them.

Therefore, all the flying objects like Para gliders, Balloons, UAVs/RPA including drones need to be banned within Bengaluru city from 10.02.2023 to 18.02.2023 an account of Aero India-2023. You are requested to take up for issuance of prohibitory orders on the same. The restriction on RPA (Robotic Process Automation) and Drone operation to be given in local media to ensure wide publicity in civil population.

3. INTEGRATED CONTROL ROOM OPERATIONS

As the Integrated Communications Command Center (ICCC) will be the brain and nerve center for coordinating all activities pertaining to on-site and off-site disaster management and security at the Aero Show.

- Representative from police who is Well equipped with communication, visual equipment, good networking with all concerned department and agencies to get real time situation report will be housed in control room and also for dissemination of alerts and command center during any emergencies

4. MOCK DRILLS / DRY RUNS

- Mock Drills or dry runs integrating On-site and Off-site shall be done during January- February -2023
- The Mock Drill will be conducted as per the procedure adopted by NDMA, MHA, GoI
- A series of Mock drills at on-site and off-site to be scheduled

SOP (Standard Operating Procedures)

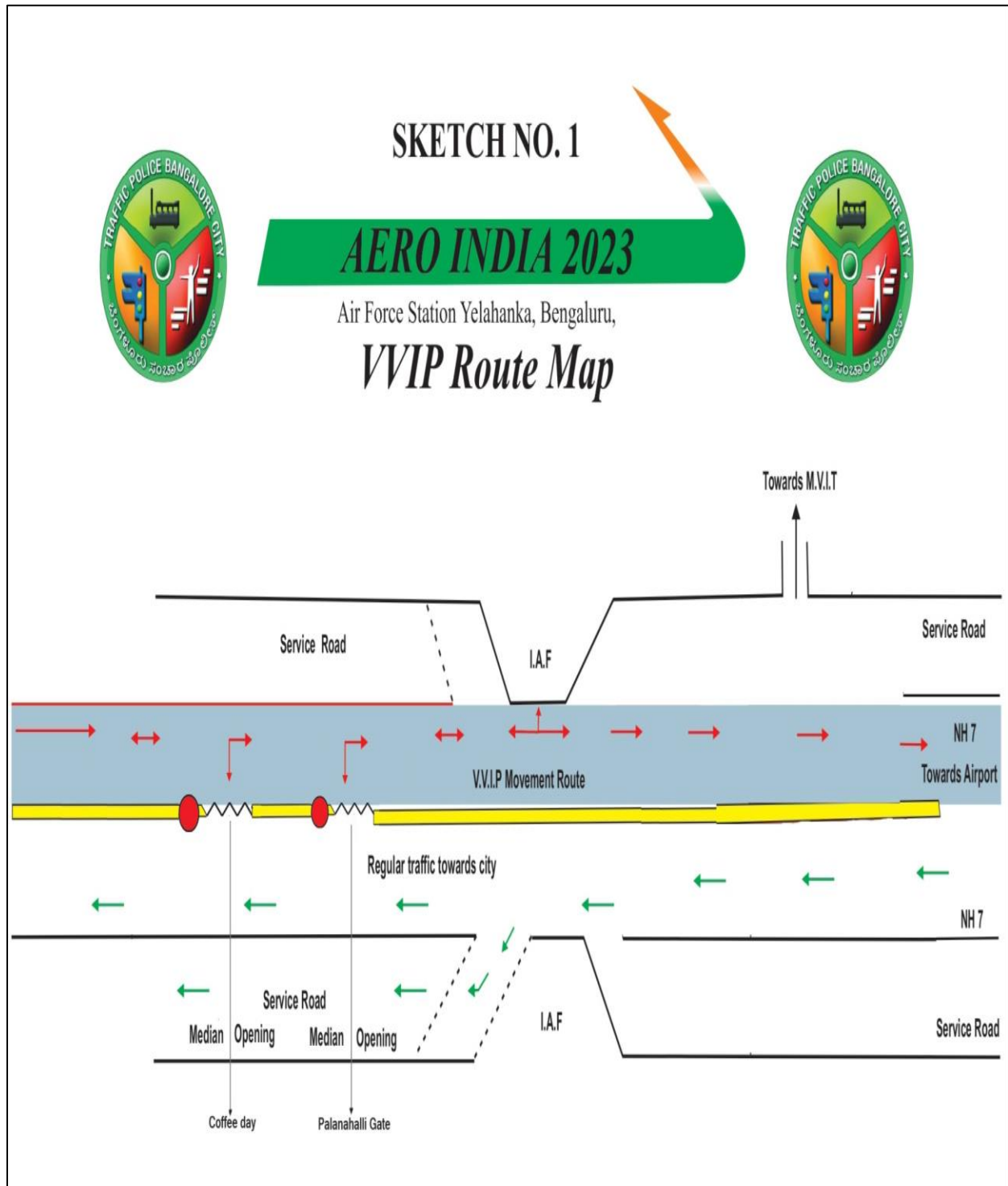
- Bengaluru International Airport will be closed during the Aero show timings.
- ATC (Air Traffic Controller) will be on alert regarding any unauthorized aircraft flying in its coverage.
- Radar surveillance is made round the clock.
- Unmanned helipads within a radius of 80 kms will be guarded by Police staff.
- Around 35 tents outside the peripheral area will be installed with deployment of armed officers/men round the clock in three shifts.
- Officers of the rank of ACP & PIs will be in patrolling round the clock outside peripheral area.
- Sky sentries with armed officers/men will be deployed in different vital places outside the peripheral area.
- A joint recce will be conducted by civil Police, ISD, State intelligence and Airforce officials.
- Inside and outside the peripheral area, security is taken care of by Air defense teams with snipers round the clock.
- Garuda force (ISD) will be deployed on rounds in the outer peripheral area and other important places to check anti terrorist activities.
- Officers/men deployed in the outer peripheral area and demographic statistics will focus on the area surrounding air force station.
- Officers/men of local police station and Hoysala/Cheethas are instructed to concentrate on anti social and other criminal elements'.
- Any important observation shall be intimated to senior officers.
- Dog squad & Anti Sabotage Check (ASC) will be conducted twice a week and more frequently before one week of the commencement of the show.
- In case of crisis the disaster management team headed by officer of the rank of DCP for the quick response will communicate along with District administration.
- Ambulance and hospital services are ear-marked to meet emergencies.
- Civil defense services are also utilized.
- All parking places are managed and secured by Air force staff.
- During the Aero India 2023 an order will be issued to ban flying of drones, UAV (unmanned aerial vehicle) and flying objects.

- DCP will be deployed as in charge of Operation Command Centre (OCC) which is posted in the Air force Station.
- Deployment of 2-officers of the rank of ACP for the night security during the Aero India 2023.
- Providing bullet proof vehicles and jammer vehicles by State intelligence.

The concerned officers will implement not only the above directions, but also the other related directions of State and Central Government for the safe and peaceful conduct of Aero-India-2023.

ANNEXURE III: TRAFFIC MANAGEMENT PLAN

ROUTE FOR VVIP MOVEMENT



VVIP MOVEMENT

1. VVIP to Aero-India should travel in contra flow from Hebbala-Coffee Day till IAF gate no 2A and enter IAF gate no 2A.
2. VVIPs have to exit IAF through gate No-2A only and enter the main road to travel further towards city or International Airport.
3. For the VVIP movement from City to KIAL lane of NH 7 Will be reserved.

4. From City to KIAL.

Bengaluru city – Windsor manor – Mekhri circle – Hebbala Flyover – Yelahanka By pass on Flyover – Kogilu cross on Flyover — Air Force Station (AERO INDIA-2023) –Hunasamaranahalli – Chikkajala – Sadahalli Gate – KIAL.

From KIAL to City – Via B B Road

1.

KIAL – Sadahalli Gate – Chikkajala on Flyover – Hunasamaranahalli – Air Force Station gate (AERO INDIA-2023)– Bagalur cross on Flyover – Yelahanka By pass on Flyover – Hebbala Flyover –Mekhri circle – Windsor manor – Bengalure city.

AIR FORCE GATES DETAILS.

- **Gate No-1:** is reserved for the entry of vehicles belonging to exhibitors of Aero show and service providers. They should travel from Yelahanka Coffee day and enter inside IAF.
- **Gate No:-2A and 2B:** Media persons, foreign delegates and those who have got passes to enter through this gate are to travel from Yelahanka Coffee day and enter IAF.
- **Gate No:-3:** vehicles which have gained entry through gate-1, 2A and 2B should exit through this gate and travel towards Hunasamaranahalli and from there they can further travel towards Devanahalli or towards city as the case may be.
- **Gate No:-4:** this gate is meant to be used only during emergencies.
- **Gate No:-5:** vehicles coming from Hunasamaranahalli service road and main carriage way to enter through this gate and reach DAP parking area.

- **Gate No:-5A:** vehicles parked at DAP Parking area should exit through this gate and travel towards different parts of the city.
- **Gate No:-6:** this gate is reserved for the use of IAF officers and personnel only.
- **Gate No:-7:** this gate is exclusively for the use of school children inside IAF campus.
- **Gate No:-8 & 8A:** these gates are reserved for BMTC Buses going towards ADVA area.
- **Gate No:-9 & 9A:** BMTC Buses shall exit through these gates from ADVA area towards

SKETCH – 2: PARKING ENTRY & EXIT



PRIME AREA ROUTES WITH DIVERSION POINTS AND DIRECTIONS THROUGH OUT CITY



1. Vijaya Nagar – Rajaji Nagar – Malleshwaram – Yashwanthpura And Surrounding Areas:

Towards KIAL

Via – Mathikere – Gokula – Kuvempu circle – Gangammagudi circle – M S palya – Mother dairy junction – Sandeep Unnikrishnan junction left turn – Puttenahalli – Nagenahalli gate – Singanayakanahalli –

Rajaanukunte Right turn on flyover-Thimmasandra Right turn– Stonehill School– MVIT junction left turn (BB road) – Vidya Nagar Cross flyover – Chikkajala – Meenukunte Hosur Flyover – Sadahalli Gate – Airport Toll – 1st Circle – 2nd Circle – KIAL

Towards Aero show

A) ADVA Parking

Via – Mathikere – Gokula – Kuvempu circle – Gangammagudi circle – M S palya – Mother dairy junction – Sandeep Unnikrishnan junction left turn – Doddaballapura Road – Nagenahalli Gate right turn – Harohalli – Gantiganahalli – ADVA parking.

B) DAP Parking

Via – Mathikere – Gokula – Kuvempu circle – Gangammagudi circle – M S palya – Mother dairy junction – Sandeep Unnikrishnan junction left turn – Doddaballapura Road – Nagenahalli gate – Singanayakanahalli - Rajanukunte - Stone hill Junction - MVIT Cross left - Vidyangara Cross U turn - Hunasamarnahalli - DAP Parking.

C) GKVK Krushimela Parking.

Via- Mathikere –Gokula – Kuvempu circle – Gangammagudi circle –M S palya –Mother dairy junction– Sandeep Unnikrishnan junction Right turn–Yelahanka Circle Right turn– Allalasandra Bridge-Yelahanka Bypass-Jakkur Cross-Byatarayanapur U turn-GKVK Main Gate-Left turn-Krushimela Ground parking And then go to Aero Indian show in BMTC Buses

D) Jakkur Aerodrum Parking.

Via -Mathikere –Gokula – Kuvempu circle – Gangammagudi circle –M S palya –Mother dairy junction– Sandeep Unnikrishnan junction Right turn – Yelahanka Circle Right turn– Allalasandra Bridge-Yelahanka Bypass-Jakkur Main Road- Left turn -Entry Gate Aerodrum area parking And then go to Aero Indian show in BMTC Buses

2. Banashankari – Kumaraswamy layout – Uttarahalli – Kengeri and surrounding areas:

Towards KIAL

Via – Nayandahalli ring road junction – Nandini layout – Rajkumar Samadhi – Gorugunte palya – Kuvempu circle – Gangammagudi circle – M S palya – Mother dairy junction – Sandeep Unnikrishnan junction left

turn – Doddaballapura Road – Nagenahalli gate– Singanayakanahalli – Rajanukunte Right turn on flyover-
Thimmasandra Right turn– Stonehill – MVIT junction left turn (BB road) – Vidya Nagar Cross flyover –
Chikkajala – Meenukunte Hosur Flyover – Sadahalli Gate – Airport Toll – 1st Circle – 2nd Circle – KIAL.

Towards Aero show

A) ADVA Parking

Via – Nayandahalli ring road junction – Nandhini layout – Rajkumar Samadhi – Gorugunte palya – Kuvempu circle – Gangamma circle – M.S. Palya – Mother dairy junction – Sandeep Unnikrishnan junction left turn – Doddaballapura Road – Nagenahalli gate Right turn– Harohalli – Gantiganahalli – ADVA parking.

B) DAP Parking

Via – Nayandahalli ring road junction – Nandhini layout – Rajkumar Samadhi – Gorugunte palya – Kuvempu circle – Gangamma circle – M.S. Palya – Mother dairy junction – Sandeep Unnikrishnan junction left turn – Doddaballapura Road – Nagenahalli gate – Singanayakanahalli – Rajanukunte Right turn on flyover-
Thimmasandra Right turn - Stone hill Junction - MVIT Cross left - Vidyangara Cross U turn -
Hunasamarnahalli - DAP Parking.

C) GKVK Krushimela Parking

Via – Nayandahalli ring road junction – Nandhini layout – Rajkumar Samadhi –Gorugunte palya – Kuvempu circle – Gangammanagudi circle – M.S. Palya – Mother dairy junction–junction–Sandeep Unnikrishnan junction Right turn – Yelahanka Circle Right turn– Allalasandra Bridge-Yelahanka Bypass-Jakkur Cross-
Byatarayanapur U turn-GKVK Main Gate-Left turn-Krushimela Ground parking and then go to Aero Indian show in BMTC Buses

D) Jakkur Aerodrum Parking

Via – Nayandahalli ring road junction – Nandhini layout – Rajkumar Samadhi – Gorugunte palya – Kuvempu circle – Gangammanagudi circle – M.S. Palya – Mother dairy junction–junction–Sandeep Unnikrishnan junction Right turn – Yelahanka Circle Right turn– Allalasandra Bridge-Yelahanka Bypass-
Jakkur Main Road- Left turn -Entry Gate Aerodrum area parking And then go to Aero Indian show in BMTC Buses

3. **Electronic city – Silk board – HSR layout – Koramangala – J.P Nagar – Jayanagar and surrounding areas:**

Towards KIAL

Via – Marthahalli Ring road – Tin factory – Ramamurthy nagar – Hennur Cross right turn – Hennur Main road – Hennur Bande – Agara Horamavu Cross – Geddalahalli – Kothanur –Byrathi cross– Gubbi Cross – Byrathi Bande – Kannur – Hosuru Bande – Chagalahatti – Bagaluru Village right turn – Bagaluru Village Bus Stop left turn – Bagaluru Police Station – Bandikodigehalli – Mylanahalli Cross left turn – Chikkanahalli- Beguru-Beguru power station right turn – Airport back gate – 1st Circle – 2nd Circle – KIAL .

Towards Aero show

A) ADVA Parking

Via – Marthahalli ring road – Tin factory – Ramamurthy nagar – Hennur cross - Nagavara Junction right turn - Thanisandra main road - Narayanapura cross lefr turn - Jakkur Junction right turn - Allalasandra railway bridge - Yelahanka Cirlce - NES junction - Sandeep Unnikrishnan junction left turn – Doddaballapura Road – Nagenahalli gate right turn– Harohalli – Gantiganahalli – ADVA parking.

B) DAP Parking

Via – Marthahalli ring road – Tin factory – Ramamurthy nagar – Hennur cross right turn – Hennur Main road – Hennur Bande – Agara Horamavu Cross – Geddalahalli – Kothanur – Gubbi Cross – Byrathi Bande – Kannur – Hosuru Bande – Chagalahatti – Bagaluru Village Gundappa Circle right turn – Bagaluru Village Bus Stop left turn – Bagaluru Police Station – Razak Palya Cross left turn – Razak Palya Road – Razak Palya – Uttanahalli Cross – JPN Youth Sports Centre right turn – Venkateshwara Eng. College – Vidya Nagar Cross (B.B Road) left turn – MVIT junction BB road – Hunasamaranahalli – DAP parking.

C) GKVK Krushimela Parking

Via – Marthahalli ring road – Tin factory –Ramamurthy nagar – Hennur cross - Nagavara Junction right turn - Thanisandra main road - Narayanapura cross lefr turn - Jakkur Junction Left turn -Byatarayanapur

U turn-GKVK Main Gate-Left turn-Krushimela Ground parking And then go to Aero Indian show in BMTC Buses

D) Jakkur Aerodrum Parking

Via – Marthahalli ring road – Tin factory –Ramamurthy nagar – Hennur cross - Nagavara Junction right turn - Thanisandra main road - Narayanapura cross lefr turn - Jakkur Junction U turn -Entry Gate Aerodrum area parking And then go to Aero Indian show in BMTC Buses

4. White Field – Kadugudi – Mahadevapura – K R Puram and Surrounding Areas:

Towards KIAL

Via – Budigere cross – Budigere village – Bettakote – Agalkote cross-Devanahalli New bus stand left turn – Devanahalli Bypass-BB road N.H-7 – Chikkasanne – Yarthaganahalli cross– Airport Toll – 1st Circle – 2nd Circle – KIAL

Towards Aero show

A) ADVA Parking

Via – Tin factory – Ramamurthy nagar – Hennuru cross - Nagavara Junction right turn - Thanisandra main road - Narayanapura cross lefr turn - Jakkur Junction right turn - Allalasandra railway bridge - Yelahanka Cirlce - NES junction - Sandeep Unnikrishnan junction– Doddaballapura Road – Nagenahalli gate right turn– Harohalli – Gantiganahalli – ADVA parking.

B) DAP Parking

Via – Tin factory – Ramamurthy nagar – Hennuru cross right turn – Hennur Main road – Hennur Bande – Agara Horamavu Cross – Geddalahalli – Kothanur--Byrathi cross– Gubbi Cross – Byrathi Bande – Kannur – Hosuru Bande – Chagalahatti – Bagaluru Village Gundappa Circle right turn – Bagaluru Village Bus Stop left turn – Bagaluru Police Station – Razak Palya Cross left turn – Razak Palya Road – Razak Palya – Uttanahalli Cross – JPN Youth Sports Centre right turn – Venkateshwara Eng. College – Vidya Nagar Cross (B.B Road) left turn – MVIT junction– Hunasamaranahalli – DAP parking.

C) GKVK Krushimela Parking

Via – Tin factory – Ramamurthy nagar – Hennuru cross - Nagavara Junction right turn - Thanisandra main road - Narayanapura cross left turn - Jakkur Junction Left turn - Byatarayanapur U turn - GKVK Main Gate - Left turn - Krushimela Ground parking And then go to Aero Indian show in BMTC Buses

D) Jakkur Aerodrum Parking

Via – Tin factory – Ramamurthy nagar – Hennuru cross - Nagavara Junction right turn - Thanisandra main road - Narayanapura cross left turn - Jakkur Junction Left turn - Cross - Byatarayanapur U turn – Jakkur Main Road Left – Jakkur Aerodrum Parking And then go to Aero Indian show in BMTC Buses.

5. Shivaji Nagar – Indira Nagar – Ulsuru – Banasawadi And Surrounding Areas:**Towards KIAL**

Via – Hennuru cross – Hennur Cross right turn – Hennur Main road – Hennur Bande – Agara Horamavu Cross – Geddalahalli – Kothanur – -Byrathi cross--Gubbi Cross – Byrathi Bande – Kannur – Hosuru Bande – Chagalahatti – Bagaluru Village Gundappa Circle right turn – Bagaluru Village Bus Stop left turn – Bagaluru Police Station – Bandikodigehalli – Mylanahalli Cross left turn - Chikkanahalli - Beguru – Beguru power station right turn – Airport back gate - 1st Circle - 2nd Circle – KIAL.

Towards Aero show**A) ADVA Parking**

Via – Hennuru cross - Nagavara Junction right turn - Thanisandra main road - Narayanapura cross left turn - Jakkur Junction right turn - Allalasandra railway bridge - Yelahanka Circle - NES junction - Sandeep Unnikrishnan junction – Doddaballapura Road – Nagenahalli gate Right turn – Harohalli – Gantiganahalli – ADVA parking.

B) DAP Parking

Via – Hennuru cross right turn – Hennur Main road – Hennur Bande – Agara –Horamavu Cross – Geddalahalli – Kothanur –Byrathi cross– Gubbi Cross – Byrathi Bande – Kannur – Hosuru Bande – Chagalahatti – Bagaluru Village Gundappa Circle right turn – Bagaluru Village Bus Stop left turn – Bagaluru Police Station –Razak Palya Cross left turn – Razak Palya Road – Razak Palya – Uttanahalli Cross – JPN Youth Sports Centre right turn – Venkateshwara Eng. College – Vidya Nagar Cross (B.B Road NH-7) left turn – MVIT junction BB road – Hunasamaranahalli – DAP parking.

C) GKVK Krushimela Parking

Via – Hennuru cross - Nagavara Junction right turn - Thanisandra main road - Narayanapura cross lefr turn - Jakkur Junction left turn-Byatarayanapur U turn-GKVK Main Gate-Left turn-Krushimela Ground parking And then go to Aero Indian show in BMTC Buses.

D) Jakkur Aero drum Parking.

Via–Hennuru cross -Nagavara Junction right turn - Thanisandra main road - Narayanapura cross lefr turn - Jakkur Junction left turn-Byatarayanapur Uturn-Jakkur Main Road Left –Jakkur Aerodrum Parking And then go to Aero Indian show in BMTC Buses.

6. Basavanagudi – City Market – Majestic – Chamarajpete And Surrounding Areas :**Towards KIAL**

Via – Basaveshwara circle – Mekhri circle – Hebbala PS – Hebbala Up Ramp – Hebbala On Fly Over – Left Curve – Veerannapalya – Manyatha Tech Park – Nagavara Up Ramp left Service road – Thanisandra Main road – Narayanapura Cross Signal – Hegde Nagar Main road – Haj Bhavan – Bellahalli Bridge – Reva University – Reva college Junction Take right turn – Bagaluru Main road – Country Club –Srinivasapur-Sathanuru – Bagaluru Village Bus Stop left turn – Bagaluru Police Station – Bandikodigehalli – Mylanahalli Cross left turn – Beguru – Beguru power station right turn- Airport back gate – 1st Circle – 2nd Circle – KIAL.

Towards Aero show**A) ADVA Parking**

Via – Basaveshwara circle – Mekhri circle – Hebbala PS – Narrow Bridge – Towards Tumkur – Badrappa layout flyover – BEL Circle right turn –Kuvempu circle – Gangammagudi circle – M S palya – Mother dairy junction – Sandeep Unnikrishnan junction left turn – Doddaballapura Road – Nagenahalli – Harohalli – Gantiganahalli – ADVA parking.

B) DAP Parking

Via – Basaveshwara circle – Mekhri circle – Hebbala PS Narrow Bridge – Towards Tumkur – Badrappa layout flyover – BEL Circle right turn –Kuvempu circle – Gangammagudi circle – M S palya – Mother dairy junction – Sandeep Unnikrishnan junction left turn – Doddaballapura Road – Nagenahalli gate – Singanayakanahalli - Rajanukunte - Stone hill Junction - MVIT Cross left – Bettalasuru U turn - Hunasamarnahalli - DAP Parking.

C) GKVK Krushimela Parking.

Via – Basaveshwara circle – Mekhri circle – Hebbala PS - Hebbala On Fly Over-Kempapura (Esteem mall) Service Road –Kodigehalli gate– Bytarayanapura Service Road-GKVK Main Gate-Krushimela Ground Parking Area And then go to Aero Indian show in BMTC Buses.

D) Jakkur Aero drum Parking.

Via-Basaveshwara circle – Mekhri circle – Hebbala PS - Hebbala On Fly Over-Kempapura (Esteem mall) Service Road –Kodigehalli gate– Bytarayanapura-Jakkur Cross-Right turn-Jakkur Main Road-Left Turn-Entry Gate-Aerodrum Parking Are And then go to Aero Indian show in BMTC Buses.

CONTINGENCY ROUTES TO KEMPEGOWDA INTERNATIONAL AIRPORT:

For vehicles coming from Vijayanagara, Rajajinagara, Malleshwaram, Yeshwanthapura and surrounding areas:

Mattikere- BEL Circle- MS Palya- Unnikrishnan Road- Doddaballapura road- Puttenahalli- Rajanukunte right turn- stone hill junction- MVIT junction left turn- BB road –Vidyanagara cross- Chikkajala- Meenakunte Hosuru- Sadahalli gate- toll- Airport.

- **For vehicles coming from Banshankari, K S Layout, Uttarahalli, Kengeri side of the City-**

Nayandahalli Ring Road-Sumnahalli-Rajakumar Samadhi-Goragunte Palya - BEL Circle-Gangamma circle-MS Palya-Mother Dairy-Unnikrishnan road Left turn - Doddaballapur Road-Nagenahalli- Singanayakanahalli -Rajanukunte right turn- stone hill junction- MVIT junction left turn- BB road – Vidyanagara cross- Chikkajala- Meenakunte Hosuru- Sadahalli gate- toll- Airport.

- **For vehicles coming from Electronic City, Silk board, HSR Layout, Koramangala, JP Nagara, Jayanagara and surrounding areas of the city-**

Maratahalli ring road- Tin Factory - Ramamurthy Nagar- Hennuru cross right turn- Hennuru Main road- Hennuru Bande- Agara horamavu Cross- Gaddalahalli- Kothanuru- Byrathi Cross- Gubbi cross- Byrathi Bande- Kannuru- Hosuru Bande- Chagalatti- Bagaluru Bus stop left turn- Bagaluru Police Station- Bandi Kodigehalli – Mylanahalli left turn- Beguru Power station right turn – Airport Back gate.

- **For vehicles coming from Whitefield, Kadugodi, Mahadevapura, KR Puram and surrounding areas of the city-**

Boodigere cross- Boodigere Village - Bettakote- Agala kote cross- Devanahalli new bus stop left turn- Devanahalli Bypass – BB road - Chikkasanne- Ertiganahlli- Airport toll-1st Circle- 2nd Circle- Airport.

- **For vehicles coming from Shivajinagar, Indirangara, Ulsuru, Banasavadi and surrounding Areas of the city-**

Hennuru cross right turn- Hennuru Main road- Hennuru Bande- Agara Horamavu Cross- Geddalahalli- Kothanuru- Byrathi Cross- Gubbi cross- Byrathi Bande- Kannuru- Hosuru Bande- Chagalatti- Bagaluru Bus stop left turn- Bagaluru Police Station- Bandi Kodigehalli – Mylnahalli left turn- Beguru Power station right turn – Airport back gate.

- For vehicles coming from Basavanagudi, City Market, Majestic, Chamrajapete and surrounding areas of the city-

Basaveshwara Circle- Mekhri Circle- Hebbala PS- Hebbala up ramp- Hebbala flyover right turn- Manyata tech park- Nagavara Upramp service road left turn- Thanisandra main road- Narayanpura cross- Heggade nagara- Bellahalli bridge- Reva collage junction right turn- Bagaluru main road- country club- Srinivasapura – Satanuru- Bagaluru Bus stop left turn- Bagaluru Police Station- Bandi Kodigehalli- Mylanahalli Cross left turn- Beguru Power Station right turn – Airport back gate.

TRAFFIC RESTRICTIONS AND DIVERSIONS:

- One way Traffic arrangements at the time of AERO Show to be made Scientifically wherever required only after thorough discussion.
- One way Traffic arrangements to be given wide publicity by social media platforms.
- Suitable contingency route for the traffic towards Devanahalli/Airprt from Bengaluru City side to be decided.
- Suitable contingency route for the traffic towards Bengaluru City from Devanahalli side to be decided.
- Smooth traffic shall be ensured on the contingency routes planed by erecting traffic sign boards and also by deploying staff wherever necessary so that any inconvenience is not caused to the general public.
- Movement of the HTV vehicles shall be restricted on BB road at the schedule time of AERO Show.
- Diversion of all HTV Vehicles shall be ensured at Devanahalli, K R Pura, Nelamangala -Nice Road, G G Palya, CMTI Junction so that they travel on alternate routes.
- Traffic sign boards regarding diversions shall be installed wherever necessary in such a way that they are easily visible to public.

Traffic Control Room:

1. Separate temporary control room will be setup at Yelahanka and also line repeater will be installed at Devanahalli for clear communication.
2. Channel no-12 will be excluding dedicated to Aero India.

3. Walkie Talky will be issued to the officers and staff at important point/junction.
4. Officers deputed to traffic control will co-ordinate with disaster management control.
5. During emergency period traffic control will co-ordinate between the sectors officers deputed to Aero India, ensure to smooth traffic and green corridor.

Barricades:

We are going to use 600 more Barricades to ensure smooth traffic regulation and green corridor wherever and whenever needed.

4. Towing Vehicles.

- 40 Towing vehicles will be reserved to tow the vehicle unnecessary parked in the route of green corridor.
- Officer and men will be deputed to ensure the road clearance pertaining to green corridor for disaster management and emergency vehicles.

5. Installation Of Traffic Sign Boards.

- Enough number of traffic sign boards shall be installed on of all contingency routes planned towards AERO Show and towards Devanahalli/Airport.
- Traffic sign boards shall be installed indicating 'One way traffic' 'No parking zone' 'VVIP route' & "Vehicle directions" etc at the places so designated.
- A proposal should be sent to the concerned regarding the requirement of traffic sign boards and they shall be installed after procuring them at the places required.

6. Identification Of Major Choking Points

- Jakkur Cross.
- Rythar Santhe
- Yelahanka Circle
- Ambiance Dhaba
- Bagaluru Cross Underpass
- Coffee Day
- IN Front of IAF

- Nagenahalli
- NES Junction
- Unnikrishnan Junction
- Sheshadripuram College Junction
- Kogilu Cross
- Yelahanka Bypass
- Santhe Circle
- Anantapur Gate
- BSF Service Road
- Hebbala Junction
- Hunasamaranahlli.
- Gubbi Cross

7. Operation Of Exclusive Buses By BMTC For The Event

If the public coming to watch the Aeroshow are allowed to park their vehicles at Jakkuru aerodrome and GKVK Krushimela ground. BMTC will arrange buses to take them from the side parking places to the place where the aero show will be held.

- By providing the facility of BMTC buses in large number from the important places of the city like Kengeri, Yeshwanantapur, Banashankari, City Market KR Puram etc. And encouraging the public to use public buses instead of cars to watch the Aero Show, this can reduce the traffic congestion.

8. Devices and Equipment required for the smooth traffic flow.

- A proposal should be sent to the concerned regarding the devices necessary for ensuring smooth traffic flow and they shall be used at the time and places required after procuring them.
- Towing vehicles shall be used efficiently.

9. Establishing communication system required for bandho bust arrangements.

- A temporary control room should be setup for communication at on appropriate place.
- Control room should be provided with all the necessary facilities.

10. Co-ordination team with Disaster management

- A team of traffic officers and staff will be formed to co-ordinate with Disaster Management team. A team consist one Police Inspector, Police Sub Inspector and others staff.
- A co-ordination team will co-ordinate between police control, Disaster Management, police officers deputed to aero show and other departments.

DISASTER MANAGEMENT UNIT REQUIRED:

Emergency trauma center or Disaster Management unit need to be setup at following places.

- Ambience Dhaba
- Gantaganahalli
- Near Gate No:6
- Near ADVA
- MVIT junction
- Coffee day Yelahanka
- DAP Parking
- GKVK Krushimela Ground

1. Traffic staff will be deputed at every Disaster management unite to co-ordinate.

Jurisdiction traffic Police officers will assist and co-ordinate with disaster management team whenever they need assistance.

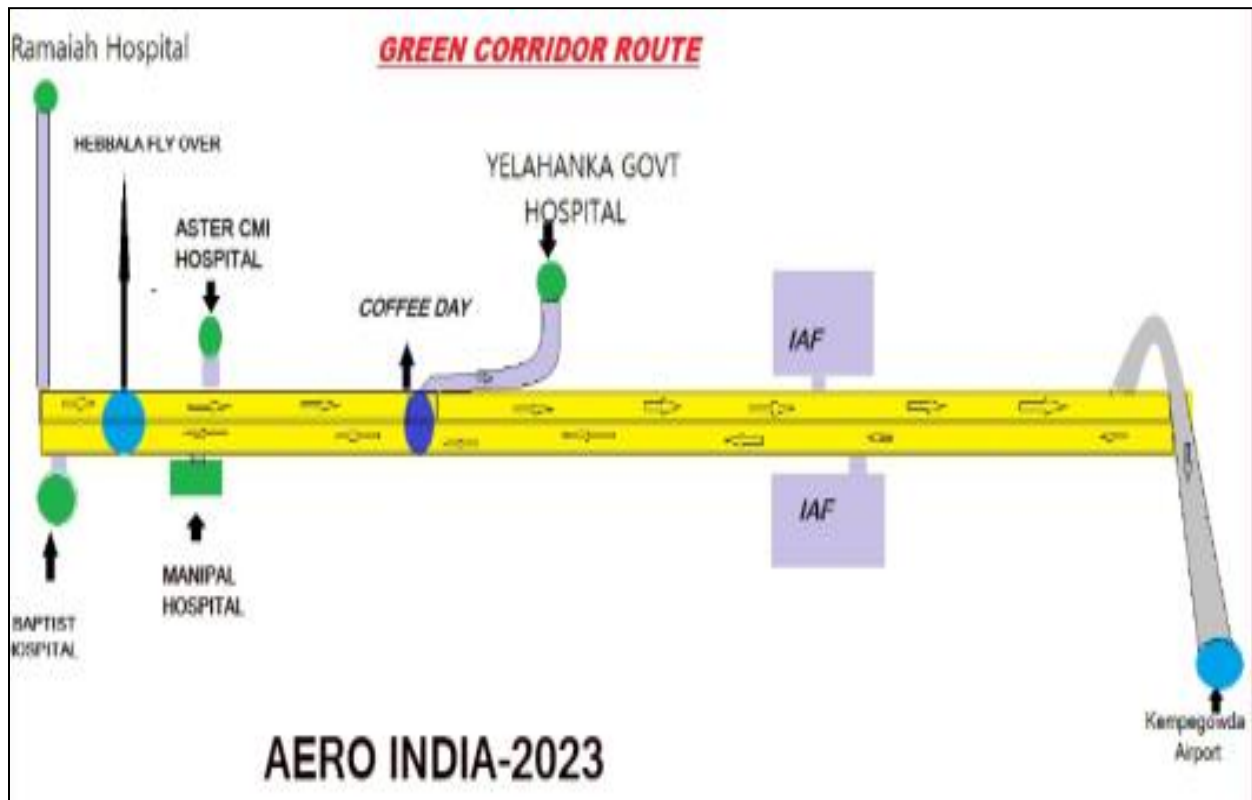
Note:

- Pending demolish and clearance of IAF Compound wall gate No 08, 8A, 9 & 9A, Regarding Vehicle going to ADVA Parking Entry and Exit.
- Pending demolish and clearance of Gate No: 5A as for IAF to facilitate exit of vehicles parked in Domestic Parking lot.
- If Parking of vehicles is allowed at Jakkuru aerodrome, the compound wall of Jakkuru aerodrome should be demolish on both sides of facilitate entry and exit of vehicles going to park at Jakkuru Aerodrome.

- Clearing of grass in parking lots such as ADVA, DOMESTIC, JAKKUR AERODROME And GKV Krushimela Ground parking lot to avoid fire hazards.

POINT-2:-MASS CASUALTY MANAGEMENT AND OTHER RELATED ISSUES

GREEN CORRIDOR ROUTE OPTIMIZATION



- Green corridor facility will be provided during emergency and whenever needed.
- Separate men and officer will be deputed to ensure green corridor.
- Contra-flow route will be formed and use for VVIP and also to green corridor during emergency.

Green Corridor will connect to selected nearby major hospitals:

1. Yelahanka Govt Hospital Distance from Aeroshow-2.1 km
2. Manipal Hospital-distance from Aeroshow-7.2 km
3. Aster CMI Hospital distance from Aeroshow- 8.1 km
4. Bangalore Baptist Hospital-9 km
5. Ramaiah Hospital-11 km

GREEN CORRIDOR HOSPITALS ROUTES:

1. Yelahanka Govt Hospital

Main Route:

From IAF Bagaluru Cross-Kogilu cross-Service Road-Rythara Santhe Right turn- Santhe Circle -Yelahanka Govt Hospital.

Contingency Route:

From IAF Gate No 8, 8A, 9, & 9A to Gantiganahalli-Nagenahalli Gate left turn-Unnikrishnan Junction-Yelahanka Circle left turn-Santhe Circle left turn-Yelahanka Govt Hospital.

2. Manipal Hospital

Main Route:

From IAF Bagaluru Cross-Coffe day-Vidyashilpa Up ramp on flyover Jakkur cross-Sanjivininagara Cross-Temporally Barricade Should be open in front of Manipal Hospital toward City side.

Contingency Route:

From IAF Gate–Bagaluru Cross left turn-Reva college Junction-Bellahalli bridge-Heggadenagara-Narayanapura Cross right turn-Telecom layout under railway bridge right turn-Jakkuru main road-Jakkuru Cross Junction left turn Service road-Byatarayanapura Junction-Kodigehalli Junction- Manipal Hospital

3. Aster CMI Hospital

Main Route:

From IAF Bagaluru Cross-Coffe day-Vidyashilpa Up ramp on fly over Jakkur cross-Kempapura Cross-Hebbala flyover Loaf road U turn-Kempapura Cross towards Airport-Aster CMI Hospital.

Contingency Route:

From Gate No 8, 8A, 9, & 9A to Gantiganahalli-Nagenahalli Gate left turn-Unnikrishnan Junction-Right turn-Mother dairy Junction-GKVK Double Road left turn-Thindlu railway gate-Kodigehalli main road-Kodigehalli Junction-Service road right turn-Aster CMI Hospital.

4. Bangalore Baptist Hospital

Main Route:

From IAF Bagaluru Cross-Coffe day-Vidyashilpa Up ramp on flyover Jakkur cross-Kempapura Cross-Hebbala fly over –Hebbal PS Junction-Service Road-Bangalore Baptist Hospital.

Contingency Route:

From IAF Gate –Bagaluru Cross left turn-Rava college Junction-Bellahalli bridge-Heggadenagara-Nagavara Junction right turn-Hebbala ring road-Hebbala flyover left turn- Hebbal PS Junction-Service Road-Bangalore Baptist Hospital.

5. Ramaiah Hospital

Main Route:

From IAF Bagaluru Cross-Coffee day-Vidyashilpa Up ramp on fly over Jakkur cross-Kempapura Cross-Hebbala fly over –Hebbal PS Junction-CBI Junction left service road-Under Magic Box right turn-Sanjayangara cross- 80 feet Road-Ramaiah Junction-M.S Ramaiah Hospital.

Contingency Route :

From Gate No 8, 8A, 9, & 9A to Gantiganahalli-Nagenahalli Gate left turn-Unnikrishnan Junction-Right turn-Mother dairy Junction-M.S Palya Junction-Gangamma gudi Circle-BEL Junction left turn-Kuvempu Circle Right turn-New BEL road-M.S Ramaiah Hospital.

Co-ordination team with Disaster management:

1. A team of traffic officers and staff will be formed to co-ordinate with Disaster management team. A team consist one Police Inspector, Police Sub Inspector and others staff.
2. A co-ordination team will co-ordinate between police control, disaster management , police officers deputed to aero show and other departments.

Disaster Management Unit required.

Emergency trauma center or Disaster management unit need to be setup at following places.

- Ambience Dhaba
- Gantaganahalli
- Near Gate No:6
- Near ADVA
- MVIT junction
- Coffee day Yelahanka
- DAP Parking
- GKV Krushimela Ground

1. Traffic staff will be deputed at every Disaster Management unit to co-ordinate.
2. Jurisdiction traffic Police officers will assist and co-ordinate with disaster management team whenever they need assistance.

ANNEXURE IV- FIRE AND EMERGENCY SERVICES DEPARTMENT SOPS

PURPOSE:

This standard operating procedure (SOP) establishes the requirements for the safe management of fire prevention, detection, firefighting and mitigation at Onsite and offsite of Aero India 2023. In particular it:

1. Sets out the requirements and procedures for protection of people and assets against fire in all area under the control of Air Force.
2. Details the risk assessment process and compliance requirements to eliminate or minimize potential fatalities, injuries and incidents arising from risks related to unplanned or uncontrolled fire

SCOPE:

This standard operating procedure (SOP) applies to all of the fire force staff, workforce and other persons on Air Force Controlled worksites in the event of fire related emergency situations.

ORGANISATION STRUCTURE:

Karnataka State Fire and Emergency Service Organization structure include following Officers and Staff

SL NO	OFFICERS	DESIGNATION
1	Sri. Dr. Alok Mohan, IPS	DGP & DG
2	Sri. P Harishekar, IPS	ADGP & ADG
3	Sri. Balakrishna K.T, IPS	DIGP
4	Sri. K Shivakumar	Director
5	Sri. T.N Shivashankar	Dy. Director (Administration)
6	Sri. Yunus Ali Kauser	Dy. Director (Fire Prevention)
7	Sri. C Gurulingaiah	Dy. Director (Training & SDRF)
8	Sri. Eshwar Nayak	Dy. Director (Technical)
9	Sri. Ravi Prasad	Chief Fire Officer, East Zone

Nodal Officer: Shri R.Mahesh, Chief Fire Officer, Bengaluru West Zone

Assistant/Deputy Nodal officers:

- 1) RFO North
- 2) RFO West

Additional Onsite/Offsite Officers and staff as follows:

- 1) RFO (East & South)
- 2) DFO
- 3) FSO
- 4) AFSO
- 5) LF
- 6) DM/FD
- 7) FM

1) COMMUNICATION SYSTEM:

- a. State control Room and overall control unit for any emergency communication by dialling 101, 22971500/550/571/600/654/655/656., Hotline, Wireless and 112.
- b. For Air show onsite/offsite emergency one control unit headed by inspector of wireless followed by sub-inspector and Assistant staff. It includes communication system like control panel, GPS, Tab, Wireless, Walkie Talkie, Mobiles, Etc.,
- c. Each communication system is directly connected to all vehicles of onsite and offsite, monitored by the Chief Nodal officer followed by All Officers.

2) FIRE FIGHTING SYSTEMS:

Karnataka State Fire and Emergency Services have well equipped fire fighting vehicles such as WATER TENDER, WATER BOWZER, WATER LORRY, FOAM TANKER, RV, QRV, VARUNA, AGNI and portable firefighting extinguishers ABC/DCP, CO2 and Foam water types.

3) SOP FOR CAR PARKING:

- a. Clear Driveway of 06.00 mtrs for onsite and offsite car parking area and 3.5 mtrs gangway between each parking line shall be provided for every 1320Sq.mtrs (50 Cars Slot) of each car parking Area and peripheral field car parking area shall be clear and kept free for easy movement

of fire service vehicles in case of any emergency. (The approximate No. of Cars to be parked as per the above mentioned parameters in the parking slot P1 to P7 is enclosed)

- b. Barbered wire fencing shall be avoided all around for all car parking & truck parking area for both onsite and offsite with clear passage for easy movement of Fire Service vehicles in case of any emergency.
- c. **Dry grass management:** On dated 23/02/2019 Fire accident occurred in the Domestic car parking area where nearly 300 cars were burnt. The intensity of fire was heavy due to the dry grass grown in the parking area. Dry grass shall be removed by the concerned authorities at all the parking areas provided on Onsite (P1 to P7) & Offsite (Jakkur Aerodrome, GKVK etc.) before commencement of Aero India 2023.
- d. Cars should normally not be parked on dry grass ground. Instead of that it should be on clean hard surface.
- e. Concerned authorities should provide 4 Nos. of Temporary water storage tanks, each of 40,000 ltrs capacity in different prominent places in the domestic car parking area.

4) **MOCK DRILL**

Mock drill will be conducted during the preliminary stage of air show. Department of fire & emergency services and other emergency department will jointly conduct mock drills for onsite and offsite emergency in accordance with Fire risk areas such as landing, parking, people gathering areas. During mock drill all emergency fire vehicles will be deployed in accordance with hazardous and risk area. The mock drill concludes with vehicle approach time, extinguishing the fire and procedure followed by the vehicle in charge officer.

5) **EVACUATION PLAN**

All the vehicles and staff who participate in the mock drill will get clear idea about evacuation procedure including vehicle approach time extinguishing the fire and procedure followed by the vehicle in charge officer. Finally it concludes with nearest escape route, exits, and safe assembly point.

6) **WATER SOURCES:**

Karnataka State Fire Services have sufficient water source in fire fighting vehicles such as

Type of vehicle	Water tender	Water Lorry	Water Bowser	QRV	Foam tanker	Agni
Water capacity (In ltrs)	4500	9000	16000	550	3000	18 ltrs

Additional requirement of water source to be taken by BWSSB, Air Force, Yelahanka.

7) SAFE ASSEMBLY POINT FOR ONSITE AND OFFSITE EMERGENCY.

Each Fire risk areas such as landing, parking, and people gathering areas should have safe assembly point and it should clearly mention about markings of escape route and exits.

8) CLARITY ON JURISDICTION

Clarity on accessible/non accessible areas for the Karnataka State Fire & Emergency Services shall be informed well in advance by the IAF authorities.

KARNATAKA STATE FIRE & EMERGENCY SERVICES: ON SITE

1. OCC (Fire Control Room)

Water Bowser	Water Tender	Qrv	Rv	Agni	Total Vehicles
01	01	01	01	01	05

2. ADVA (Aviation Display View Area)

Water Bowser	Varuna	Foam Tanker	Total
02	01	01	04

2 (A). ADVA Parking area

Water Bowser	Water Tender	Qrv	Agni	Total
04	04	04	04	16

3. Sector – 2 : Behind Chalets (Temporary accommodation lounges – made of wooden portion for VVIP & VIP's)

Water Bowser	Water Tender	Rescue Van	Varuna	Total
02	01	01	01	05

3 (A). VVIP Parkin Area

Water Bowser	Water Tender	Qrv	Agni	Total
02	02	02	02	08

4. Sector – 3 : B & C Hanger (Exhibition stalls, food court, Office controlling centre (Fire control room)).

Water Bowser	Water Tender	Rescue Van	Qrv	Varuna	Total
01	01	01	02	01	06

5. Sector – 4 : Domestic Area (Office block, CSD canteen, air force staff quarters, Hospitals, gas agency building & Schools).

Water Tender	Water Bowser	QRV	Total
02	01	01	04

Sector – 4(A) : Domestic parking Area

Water Bowser	Water Tender	QRV	Foam tanker	Total
04	04	04	01	13

6. Sector – 5 :Northern Dispersal (Training Command Controlling & Training Centre)

Water Bowser	Water Tender	Agni	Total
01	02	02	05

KARNATAKA STATE FIRE & EMERGENCY SERVICES : OFF SITE

Point 01	Water Tender	Agni	Total
Gantiganahalli	01	01	02

Point 02	QRV	Agni	Total
Suggatta	01	01	02

Point 03	Water Tender	Agni	Total
Hunasamaranahalli Lake	01	01	02

Point 04	QRV	Agni	Total
Bharathinagar Layout	01	01	02

Point 05	Varuna	Agni	Total
Near Gate – 01, 02 & 03.	03	03	06

Point 06	RV	Agni	Total
NITTE Meenakshi College	01	01	02

Point 07	QRV	Agni	Total
Near Railway Gate	01	01	02

Point 08	Water Tender	Total
Sathanur (Eastern side of domestic parking outside IAF boundary)	01	01

ON SITE (Vehicles Abstract)

SI No	Area	Water Tender	Water Bowser	Rv	Qrv	Varuna	Foam Tanker	Agni	Backpack	Total
1.	OCC	1	1	1	1	-		1	-	5
	(Fire Control Room)									
2	Sector – 1 ADVA	-	2	-	-	1	1	-	-	4
	(Aviation Display View Area)									
	Sector 2(A). ADVA Parking area	4	4	-	4	-	-	-	-	12
3.	Sector – 2 : Behind Chalets	1	2	1	-	1		-	15	5
	(Temporary accommodation lounges – made of wooden portion for VVIP & VIP's)									
	Sector – 2A : VVIP Parking Area	2	2	-	2	-	-	-	-	6
4.	Sector – 3 : B & C Hanger	1	1	1	2	1		--	15	6
	(Exhibition stalls, food court, Office controlling centre (Fire control room).									
5.	Sector – 4 : Domestic Area	2	1	-	1	-		-	-	4
	(Office block, CSD canteen, air force staff quarters, Hospitals, gas agency building & Schools).									
	Sector – 4A : Domestic Parking Area	4	4	-	4	-	1	-	-	13
6.	Sector – 5 :Northern Dispersal	2	1	-	-	-		2	-	5
	(Training Command Controlling & Training Centre)									
TOTAL		17	18	3	14	3	2	3	30	60

OFF SITE (vehicles Abstract)

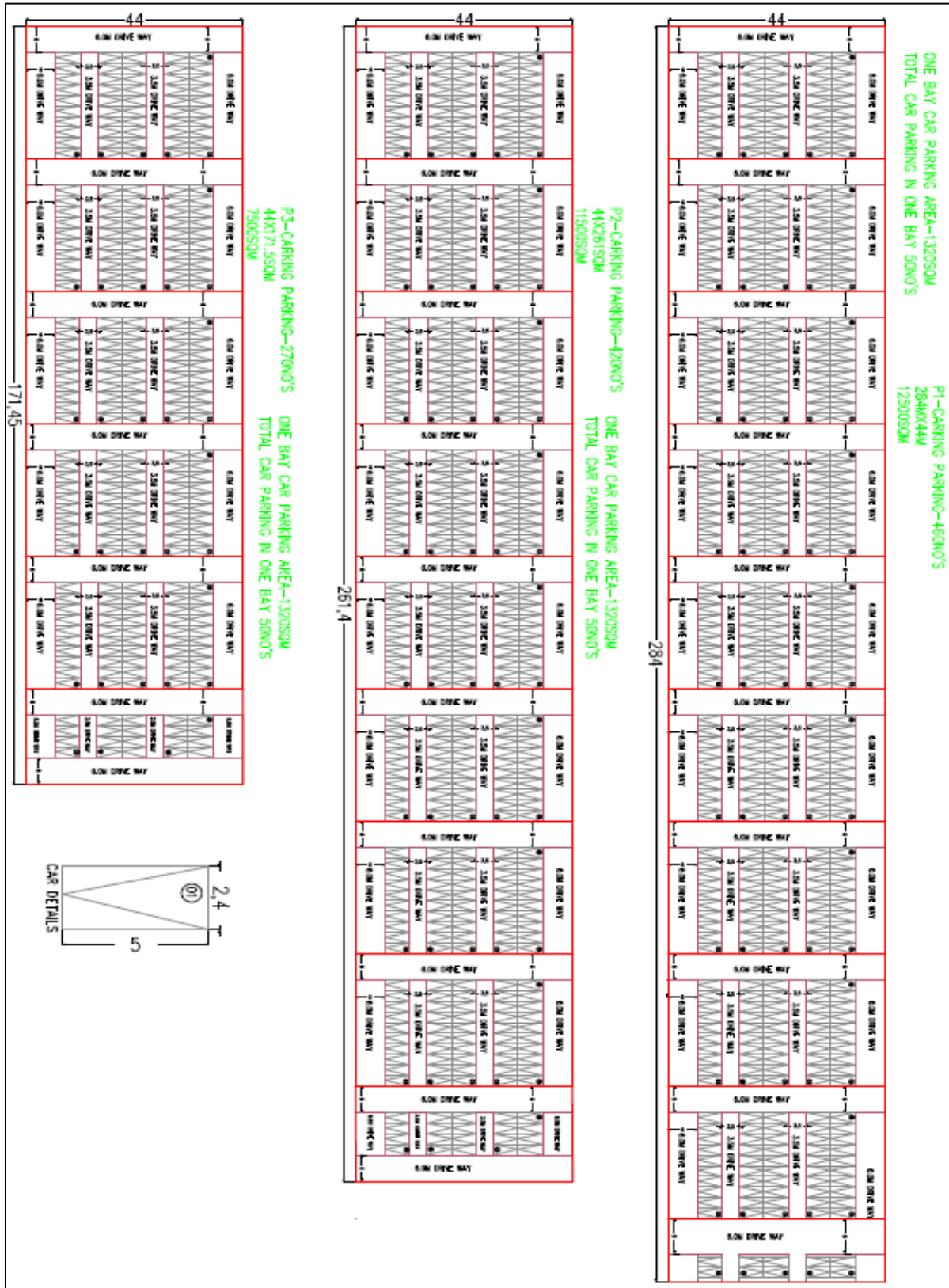
SI No	Area	Water Tender	Water Bowser	RV	QRV	Varuna	Agni	Total
1	Point 01 – Gantiganahalli village	01	-	-	-	-	01	02
2	Point 02 - Suggatta village	-	-	-	01	-	01	02
3	Point 03 - Hunasamaranahalli Lake	01	-	-	-	-	01	02
4	Point 04 - Bharathinagar Layout	-	-	-	01	-	01	02
5	Point 05 – Near Gate – 01, 02 & 03 of air force station	-	-	-	-	03	03	06
6	Point 06 - NITTE Meenakshi College	-	-	01	-	-	01	02
7	Point 07 - Near Railway Gate	-	-	-	01	01	-	02
8	Point-8 Sathanur (Eastern side of domestic parking outside IAF boundary)	01	-					
	TOTAL	03	-	01	03	04	08	19

Nodal Officer from Karnataka State Fire and Emergency Service Department:

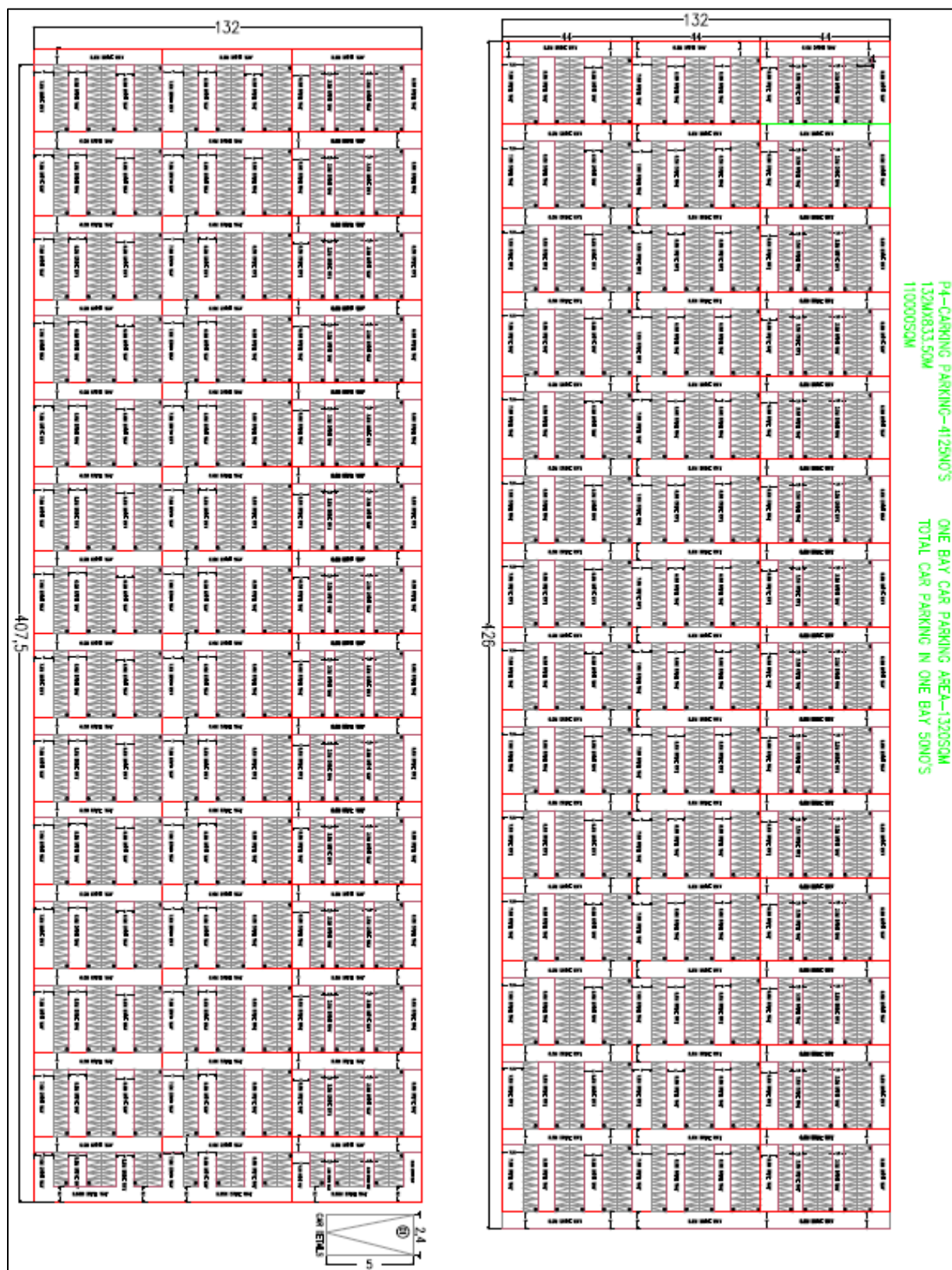
Nodal Officer	Alternate Nodal Officer
Sri. R Mahesh, Chief Fire Officer, Bengaluru West Zone Address: Office of the Chief Fire Officer, Bengaluru West Zone, High Ground Fire Station Premises, Sheshadri Road, Bengaluru – 560009 Mobile no: 9449478178 Telephone no: 080- 22971523 E-mail: cfobngwestksfes@gmail.com	Sri. B M Thirumalesh, Regional Fire Officer, Bengaluru North Range Address: Office of the Regional Fire, Officer, Bengaluru North Range, Hebbal Fire Station Premises, Nagavara Ring Road, Near IBM, Bengaluru – 560045 Mobile no:9343776119 Telephone no: 080- 22971581 E-mail: rfoblnorth@gmail.com

PARKING LAYOUT PLAN FOR THE PARKING 1 TO 7

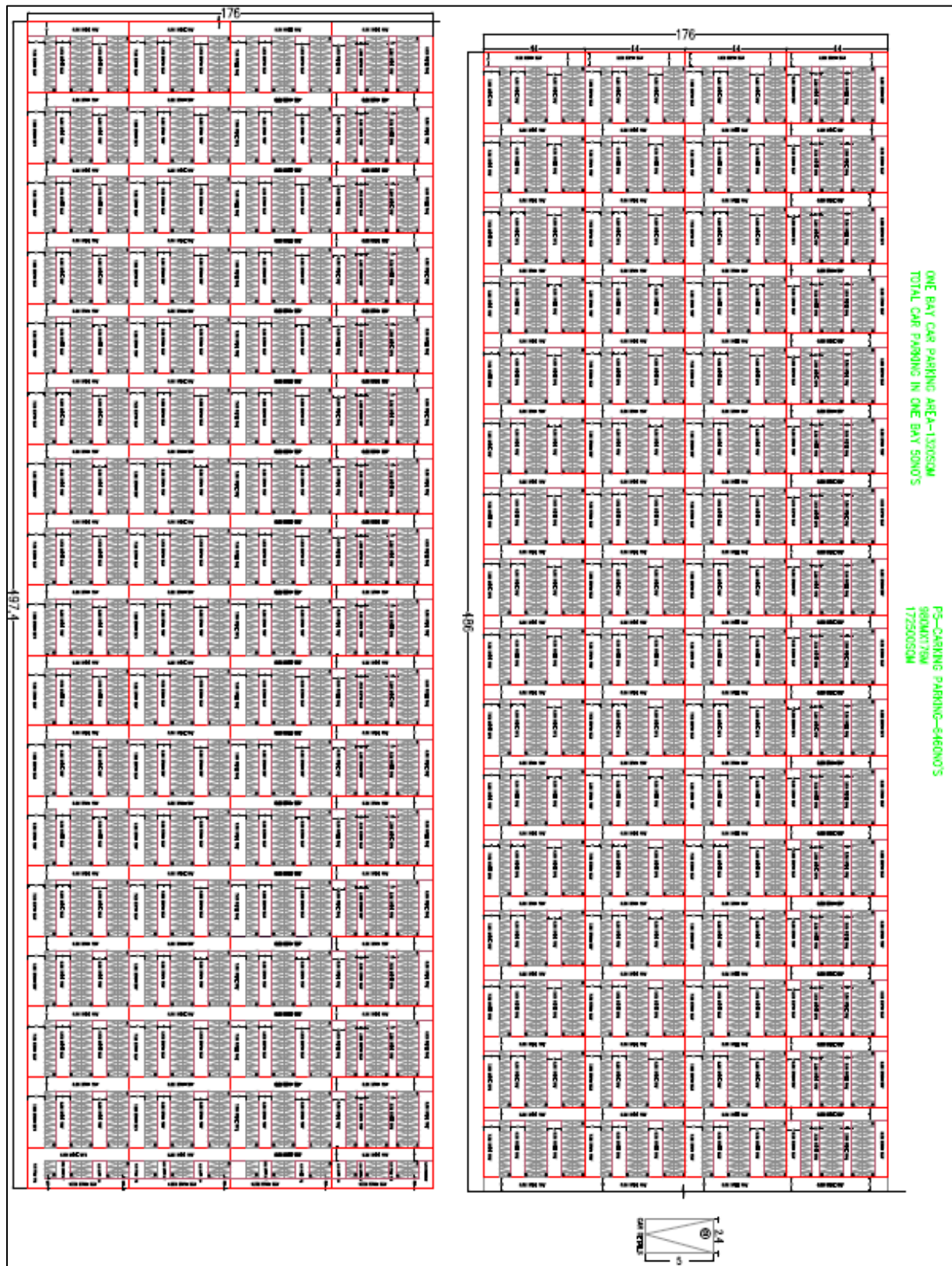
Parking areas from 1, 2 & 3



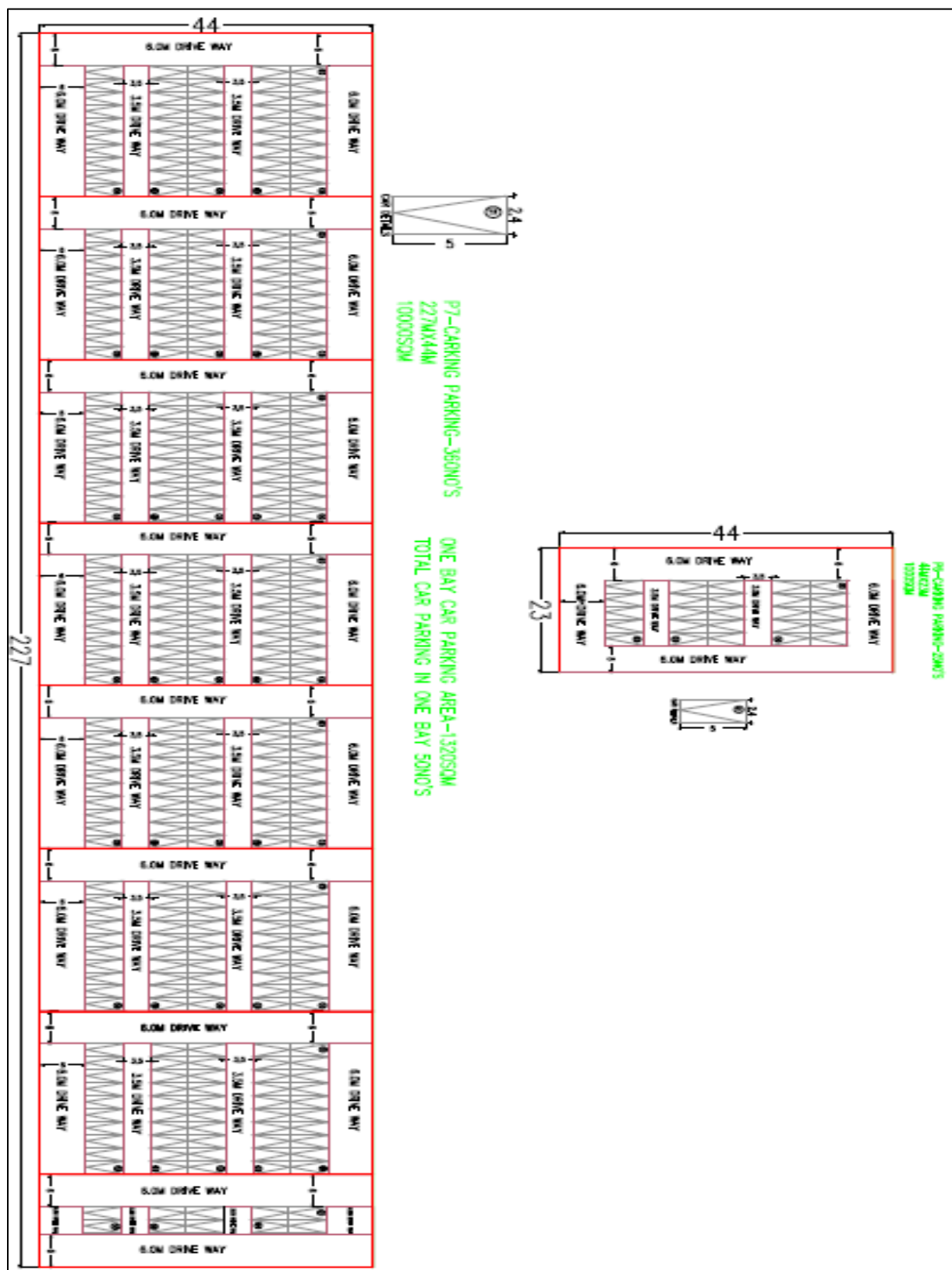
Parking – 4



Parking – 5



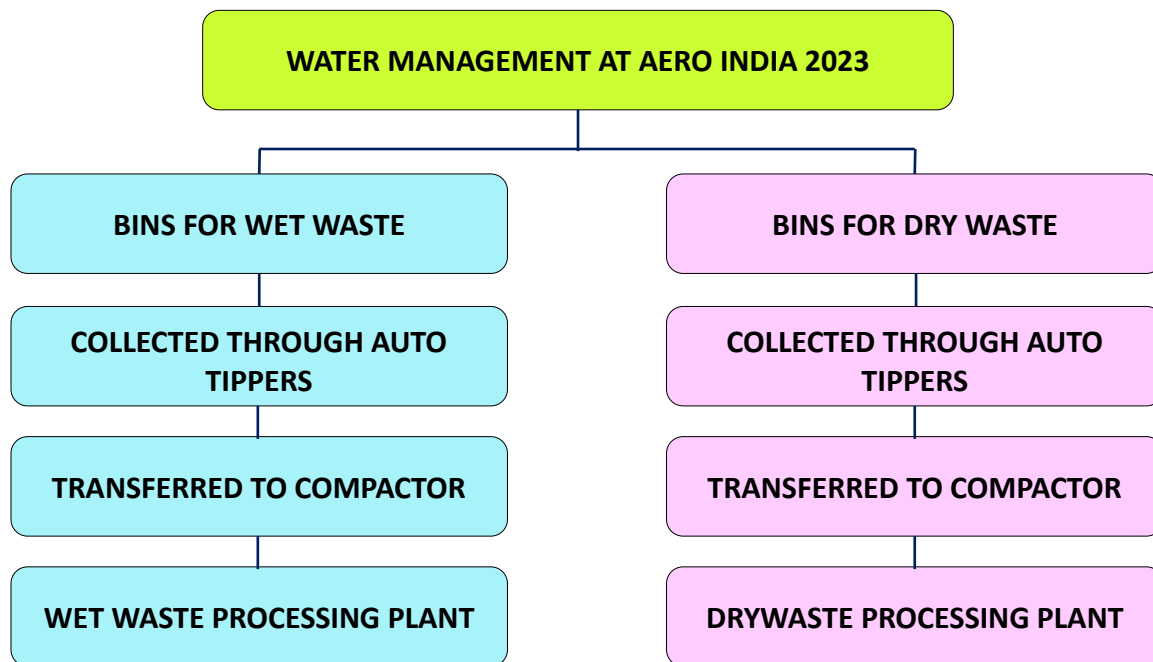
Parking – 6 & 7



ANNEXURE V – WASTE MANAGEMENT PLAN – BBMP

SOP FOR THE WASTE MANAGEMENT FOR AERO INDIA 2023

- The separate set of bins shall be kept for the collection of wet and dry waste generated at the parking lots.
- The separate Auto tippers shall be deployed for the collection of wet and dry waste from the bins.
- The segregated waste collected from the auto tippers shall be transferred to the compactors and the wet waste shall be sent wet waste processing plant and dry waste to the Dry waste collection Centre(DWCC) for further processing.
- The temporary public toilets in the clusters shall be established at the parking areas.
- The drinking water points shall established at the regular intervals in the parking areas.



Note:

1. The single use plastic carry bags and Non-woven poly propylene (NWPP) bags are banned and not to be used or sold at the venue.
2. The garbage bin liners are banned and not to be used by organisers.
3. It is requested to avoid use of single disposables.
4. In case of plastic water bottles and paper cups (without plastic lining) are used, the same shall be collected as dry waste without any spillage.

ANNEXURE VI – BANDOBUST/SECURITY PLAN - BANGALORE CITY POLICE – LAW AND ORDER

The prestigious Aero-show is held once in every two years. The last aero-show was held from 3rd to 5th Feb' 2021. Aero india-2023 will be held from 13rd to 17th Feb' 2023 at air force station, Yelahanka, Bengaluru.

Security arrangements for inauguration ceremony, exhibition halls and general security of equipments displayed, access control, crowd control, security of VVIPs and internal security of air craft, security inside the perimeter of air force will be the exclusive responsibility of air force authorities along with CISF.

A large number of VVIPs and foreign dignitaries along with huge number of public gathering is expected during the days of show. Keeping this in view and also the threat perception an elaborate Bandobust scheme has been prepared.

Air force station, Yelahanka is responsible for all the internal security arrangements for Aero India –2023 and it will be assisted by Bangalore city police. The peripheral security outside the perimeter of air force station, Yelahanka and other security arrangements including road Bandobust is the responsibility of Bangalore city police.

BANDOBUST PLAN

Scheme is Divided into 8 Sectors from A TO H and also further divided in to sub-sectors

- 1 **Sector-A** This Sector is meant for Perimeter Security around IAF Compound and Consists of 35 Tents and 10 Hoysala Mobile Patrolling Vehicles work for 24 Hours in Three shift.

DCP	ACP	PI	PSI	ASI	HC	PC
1	3	11	62	105	125	230

- 2 **Sector- B** Bandobust at 12 Access gates of Air force Station Yelahanka

DCP	ACP	PI	PSI	WPSI	ASI	HC	PC	WPC	PLATON		
									KSRP	CAR QRT	RAF
01	04	14	25	13	0	82	130	38	08	02	01

3 Sector C: Bandobust arrangements enroute sub divided into 4 sub sectors and 05 Route Mobile Patrolling Vehicles

DCP	ACP	PI	PSI	WPSI	ASI	HC	PC	WPC	PLATON		
									KSRP	CAR QRT	RAF
03	05	07	27	0	31	113	292	0	11	03	0

4 Sector D: Bandobust arrangements inside Air force Station campus.

DCP	ACP	PI	PSI	WPSI	ASI	HC	PC	WPC	KSRP	CAR
2	3	6	13	2	3	40	80	8	3	1

5 Sector E: Bandobust at Parking Area.

ACP	PI	PSI	WPSI	ASI	HC	PC	WPC	KSRP	CAR
01	2	5	-	5	10	15	10	2	0

6 Sector F: Ancillary/supportive duties sector

Further divided into 7 sub sectors

DCP	ACP	PI	PSI	WPSI	ASI	HC	PC	WPC	Platoon		
									KSRP	CAR	RAF
1	4	10	22	6	21	63	131	31	2	0	3

7. Sector –G: Sky Sentries

PI	PSI	ASI	HC	PC
2	4	2	22	44

8. Sector H- Food & Passes distribution

ACP	PI	PSI	HC	PC
1	2	4	20	40

TOTAL DEPLOYMENT OF OFFICERS AND MEN FOR AERO INDIA-2023

ABSTRAT												
Particulars	DCP	ACP	PI	PSI	WPSI	ASI	HC	PC	WPSI	Platoon		
										KSRP	CAR	RAF
Total no. of staff required for bundobast duty	8	21	54	162	21	177	475	862	87	26	6	2
	443						1424					

SECTOR-A

Security outside the Air force station perimeter will be provided by the Bengaluru City police. The Perimeter Bandobust will be activated 2 days in advance. i.e. from 11st Feb to 17th Feb 2023. It consists of 35 Tents and 10 Hoysala Mobile Vehicles Patrolling round the clock in three shifts. **1st Shift: 8.00 AM to 2.00 PM. 2nd Shift: 2.00 PM to 08.00 PM and 3rd Shift 08.00 PM to 8.00 AM.**

SL. No.	Places	DCP	ACP	PI	PSI	ASI	HC	PC
1.	Tent No -1 (Near service provider gate)	1	1	3	3	3	3	6
2.	Tent No -2 (Near Gate No-02)					3	3	6
3.	Tent No -3 (Near Gate No-03)				3	3	3	6
4.	Tent No -4 (Near Gate No-04)					3	3	6
5.	Tent No -5 (Opposite to gate No-05)				3	3	3	6
6.	Tent No-6(Hunasamaranahalli lake near IAF guard room)					3	3	6
7.	Tent No -7 Hunsamaranahalli lake center outside IAF compound				3	3	3	6
8.	Tent No – 8 Hunsamaranahalli lake west side					3	3	6
9.	Tent No – 9 (Near Ashram)				3	3	3	6
10.	Tent No -10 (Near Chiranjeevi building)					3	3	6
11.	Tent No -11 (Chiranjeevi building west side)				3	3	3	6

SL. No.	Places	DCP	ACP	PI	PSI	ASI	HC	PC
12	Tent No -12 (Near Radar station east side suggatta road	1	1	3		3	3	6
13	Tent No -13 (Near radar station west side suggatta road				3	3	3	6
14	Tent No -14) (after radar station cross suggatta road)					3	3	6
15	Tent No -15 (After radar station near Suggatta village)				3	3	3	6
16	Tent No -16 (Srinivasa garden East side)					3	3	6
17	Tent No -17 (Srinivasa garden people tree)				3	3	3	6
18	Tent No 18 (Suggatta village border)					3	3	6
19	Tent No -19 (Near railway under pass)				3	3	3	6
20	Tent No – 20 (Gantiganahalli lake east side)					3	3	6
21	Tent No -21 (Gantiganahalli lake)					3	3	6
22	Tent No – 22 (Near railway gate Gantiganahalli					3	3	6
23	Tent No – 23 (Near Gate No-12)		1	3	3	3	3	6
24	Tent No – 24 (Near Gate No-11					3	3	6
25	Tent No – 25 (Near Gate No-10					3	3	6
26	Tent No – 26 (Nitte Parking)					3	3	6
27	Tent No – 27 (Near Nitte college cross)				3	3	3	6
28	Tent No – 28 (before Century Artizan)					3	3	6
29	Tent No – 29 (Century Artizan entry)					3	3	6
30	Tent No –30 (Near Gate No-8)					3	3	6
31	Tent No –31 (Near Gate No-08)				3	3	3	6
32	Tent No – 32 Opposite to Nagarjuna House					3	3	6
33	Tent No – 33 Behind Ryan School					3	3	6
34	Tent No – 34 (Near Ambience Dhaba)				3	3	3	6
35	Tent No – 35 (Near BSF)					3	3	6
	Total	1	3	9	42	105	105	210

Mobile Patrolling Vehicles Around the Perimeter

(Hoysala /Jeep)

PI's Day and Night

SL No	Particulars	PI	PSI	HC	PC
1	IAF Gate No-1 to Gate No-5 Airport Road		2	2	2
2	IAF Gate No-5 to Hunsamaranahalli Lake		2	2	2

SL No	Particulars	PI	PSI	HC	PC
3	Hunsamaranahalli lake west side to Chirangeevi building Sughatta road	2	2	2	2
4	Chirangeevi building to Near radar station west side Sughatta road		2	2	2
5	Near radar station west side to Skandha layout Sughatta village South		2	2	2
6	Sughatta village border to Gantiganahalli lake		2	2	2
7	Sughatta village to Gantiganahalli via VIT college		2	2	2
8	Gantiganahalli village to Nitte college		2	2	2
9	Nitte college to Ryan School		2	2	2
10	Ryan School to BSF Gate No-1		2	2	2
Total		2	20	20	20

	DCP	ACP	PI	PSI	ASI	HC	PC
TENT	01	03	09	42	105	105	210
HOYSALAS	-	-	2	20	-	20	20
TOTAL	01	03	11	62	105	125	230

INSTRUCTIONS:

1. The Purpose is to see that no unauthorized person move near the Air force station, Compound and Curb any type of sabotage.
2. The men posted should be extremely vigilant round the clock.
3. The officers and men posted at the periphery should have Arms. Officers should carry Service revolvers/pistols.
4. Mobile party will Cover between one point to the other point.
5. Adequate number of Torch-lights and Walkie-talkies should be given to all tents.
6. The Sector Incharge DCP, ACPs, and PIs Are Responsible for Briefing and Deputing men properly.
7. The ACPs in charge should see that men should report in time for every shift duties and maintain sentry book at each Tent post and ensure proper & timely entries about the duties.
8. The Officers and men posted shall not leave the place of posting until the reliever officers/men come to reliever them from the duty. and men are instructed strictly to adhere the Shift Timings
9. Officers should ensure each tent should consist of one Table, 4 chair, one torch light , water facility, mobile toilets which are provided by HAL

SECTOR-B**Bandobust at Access gates of Air force Station Yelahanka.****From 11.02.2023 to 17.02.2023 and work between 07-00 AM****To 08-00 PM in single shift**

SI No	Places	DCP	ACP	PI	PSI	WPSI	HC	PC	WPC	Platoon		
										KSRP	CAR QRT	RAF
1.	Gate No-1		1	1	1	1	2	10	4	1	-	-
2.	Gate No-2 A		1	2	1	2	10	15	5	2	2	1
3.	Gate No-2 B			1	1	1	8	12	5	-	-	-
4	Gate No-3		1	1	1	1	5	10	2	-	-	-
5	Gate No-4 Crash Gate			-	2	-	6	10	-	-	-	-
6	Gate No-5			2	4	2	5	5	4	-	-	-
7	Gate No-6			-	1	-	2	2	2	-	-	-
8	Gate No -7		1	-	1	-	2	2	-	-	-	-
9	Gate No-8 and 8 (a)			2	2	2	10	10	4	1	-	-
10	Gate No-9 and 9 (a)	1		2	2	2	10	10	4	1	-	-
11	Gate No-10			1	2	1	5	10	4	1	-	-
12	Gate No 11			1	2	1	5	10	4	1	-	-
13	Gate No 12			-	1	-	2	4	-	1	-	-
14	Under Bridge (sub way)				1	-	2	4	-	-	-	-
15	Between Gate No-1 & 2 On NH-7			1	1	-	2	4	-	-	-	-
16	Between Gate No-2 & 3 On NH-7				1	-	2	4	-	-	-	-
17	Between Gate No-4 & 5				1	-	4	8	-	-	-	-
	Total	01	04	14	25	13	82	130	38	08	02	01

Places	DCP	ACP	PI	PSI	WPSI	HC	PC	WPC	Platoon		
									KSRP	CAR QRT	RAF
Bandobust at outer gates	01	04	14	25	13	82	130	38	08	02	01

INSTRUCTIONS:

There will be security teams consisting of officers and personnel from IAF/CISF and PDSC guard, who would be responsible for manning gates and crowd control within their jurisdiction. The Air force authorities will be responsible for checking, verification and registration of entry of vehicles, pass holders, invitees and other VIPs. CISF will be responsible for frisking using HHMDs to ensure that the visitors are not in possession of any prohibited materials. Coordination between Air force authorities and the event manager is necessary to ensure smooth movement of the visitors and smooth flow of the vehicles. Access control will be the responsibility of CISF/Air force.

Gate No-1. Exhibitors and Service providers entry:

It is the entry and Exit to the exhibitors, service providers and organizers (Heavy vehicles). Around 500 heavy vehicles use this gate in a day. Large number of heavy vehicles will be parked in front of this gate waiting for clearance to enter inside. Officers should ensure quick clearance from the air force authorities so that there should not be any traffic jam and inconvenience for the movement of vehicles on airport road.

- No public is allowed to enter through this gate.
- All the exhibitors coming through this gate will be frisked and checked by the CISF staff will deploy at gate No.1 and jurisdictional Police will support them in crowd control at this gate.
- Compulsory masks, social distance and other Covid-19 related safety measures will be ensured.
- The passes and the stickers for the vehicles are to be checked properly
- Once allowed the entry through this gate, they will be allowed to exit only through the next dedicated exit gate, in gate no-1 only .
- In this gate Duty passes are issued to all the departments for their entry inside. Large number of officials will be gathered in front of this gate to collect duty passes. They are to be lined up properly by following Covid-19 norms.

Gate-2A Entry For VVIPs & VIPs:

- The event has large number of special invitees from India and other countries. The Central government, State government ministers, VVIPs and VIPs will be allowed through this gate along with protocol Vehicles. The numbers of persons and their vehicles have already been vetted by

the VVIP security wing of the city police. Only such vehicles will be allowed to enter through this gate.

- The VIPs vehicles to be checked properly by the staff deployed along with the Air force officials while entering through this gate.
- In charge DCP should ensure Proper security arrangement in this gate.
- All the duty staff should display their duty passes upon them.
- The entry is to be made free for VVIPs' movement.
- A regulatory bundobust is to be ensured instead of Law & order bundobust.

Gate 2B. Entry for Business visitors & media entry:

- All the business visitors coming through this gate will be frisked and checked by the Air force staff.
- The media persons will be allowed inside after a thorough check of the accredited ID card issued by the information department along with Air force entry pass.
- Compulsory masks and social distance will be ensured.
- The passes and the stickers for the vehicles will also be checked.
- Once allowed through the entry gate, they will be allowed to exit only through the next dedicated exit gate, which is gate no.3

Gate No -5 :Entry for general public:

This is main public entry gate to the event. Visitors with entry pass and ticket holders will enter through this gate to the exhibition area.

- Every visitor entering through this gate has to go through the mandatory pass /ticket checking and will be frisked by the Air force staff.
- Compulsory masks and social distance will be ensured.
- Once allowed entry through this gate they will be allowed to exit only through the next dedicated exit gate-5A.

Gate 6: Entry and Exit for service personnel residing in Air force camp area:

This is entry and exit only for IAF Personnel to domestic area.

Men will be deployed by Air force station along with civil police.

Gate No.s 8 & 8A as also 9 & 9A:



ADVA (Aerial Display Visual Area) entry & exit:

- This is the area where general public enter and exit for the air show
- Entry only to ADVA for pass and ticket holders and vehicles.
- Every visitor entering through this gate has to go through the mandatory pass / ticket checking by the Air force officials.
- Compulsory masks and social distance will be ensured.
- Once allowed entry through this gate they will be allowed to exit only through gate no 10 & 11 which are dedicated exit gates.
- More vehicles and public with pass through this gate are to be regulated.
- Smooth public and vehicular movement are to be ensured.
- No vehicles are to be parked on either side of the road and no public gathering should be allowed on the road.
- Covid-19 norms are to be strictly followed.

SECTOR C:**Enroute Bundobust arrangements****(Divided into 5 sub sectors)****Sub Sector C-1**

Route Bundobust from Hebbal Fly over to Bagaluru Cross

From : 07.00 AM to 08.00 PM.

SL No	Places	DCP	ACP	PI	PSI	ASI	HC	PC	KSRP	CAR
1	Hebbal Fly over	1	2	1	1	1	1	5	-	1
2	Ring Road				1	-	2	5	-	-
3	Kempapura Cross				-	-	1	5	-	-
4	Kodigehalli Gate				1	-	2	5	-	-
5	Sahakaranagar Cross				-	-	2	5	-	-
6	Byatarayanapura				1	1	2	5	-	-
7	Jakkur Cross				-	-	1	5	-	-
8	Jakkur Aerodrome				-	-	2	5	-	-
9	Bypass Road, Near Rly. Bridge				1	-	1	5	-	-
10	Allalasandra Railway Gate				1	1	2	5	-	-
11	Opp Vidya Shilpa Academy				1	-	2	5	1	-

SL No	Places	DCP	ACP	PI	PSI	ASI	HC	PC	KSRP	CAR
12	Near Railway Bridge			1	-	-	1	5	-	-
13	Coffee day					1	2	5		
14	Kogilu Cross				1	-	2	5	1	-
15	Venkatala				1	-	2	5	-	-
16	Ambience Cross				-	1	1	5	-	-
17	Bagaluru Cross				1	1	2	5	1	-
	Total	1	2	2	10	6	28	85	3	1

Sub Sector C-2**Route Bundobast from Bagaluru Cross to MVIT Cross****From : 07.00 AM to 08.00 PM**

SL No	Places	DCP	ACP	PI	PSI	ASI	HC	PC	KSRP	CAR
1	BSF Campus front Fly over Top		1	1	-	-	2	5	--	-
2	Air Force Station Gate				1	1	2	5	-	-
3	Bharathi nagara cross				1	-	2	5	-	-
4	Hunasamaranahalli				1	1	2	5	1	-
5	MVIT Cross				1	1	2	5	1	-
6	Near Hunasamaranahalli lake				1	1	3	10		-
7	Hunasamaranahalli lake to MVTY Building adjacent to Airforce Compound				1	5	10	10	-	-
	Total	0	1	1	6	9	23	45	2	-

INSTRUCTIONS:

1. Men & Officers posted will ensure smooth movement of the vehicles in coordination with the Traffic staff posted at the Points.
2. DCP is overall in charge of the sector.

Sub Sector-C 3**Route Bundobust from Ambience Dhaba to Gantiganahalli from: 07.00 AM to 08.00 PM**

SL No.	Places	DCP	ACP	PI	PSI	ASI	HC	PC	KSRP	CAR
1	Ambience Dhaba				1	1	2	5	-	1
2	APTS Gate						2	5	-	-
3	Opp Ryan School						2	5	-	-

SL No.	Places	DCP	ACP	PI	PSI	ASI	HC	PC	KSRP	CAR
4	Between Ryan School and Nagarjuna building	1	1	1	1		2	5	-	-
5	Near Nagarjuna Building					1	2	5	-	-
6	Super Nova Parking Area					1	2	5	1	-
7	Opp Gate No 10						2	5	-	-
8	Nitte college turning					1	2	5	-	-
9	Nitte college gate					1	2	5	-	-
10	Gantiganahalli railway gate						2	5	-	-
11	Gantiganahalli Tank Bund						2	5	1	-
Total		1	1	1	2	5	22	55	2	1

INSTRUCTIONS:

1. Men & Officers posted will ensure smooth movement of the vehicles in coordination with the Traffic staff posted at the Points.

Sub Sector C-4

Route Bundobust- Hunsamaranahalli via Gantiganahalli to BDK Circle Yelahanka from :07.00 AM to
08.00 PM

SL No.	Places	DCP	ACP	PI	PSI	ASI	HC	PC	KSRP	CAR
1	Hunasamaranahalli Sugatha Cross	1	1	1	1	2	6	15	1	
2	Near Srinivasa Enclave					1	5	5	-	
3	Akshya Contraction Godown Near Radar .						1	6		
4	Gantiganahalli village					1	2	4	-	
5	Near Ashathosh Estate						1	5	-	
6	Isro layout Turning						1	5	-	
7	Harohalli village						2	5	-	
8	Nagenahalli railway gate					1	1	5	-	
9	Nagenahalli			1	1	1	2	6	-	
10	Nagenahalli gate				1		1	4	-	
11	C.R.P.F						1	4	1	
12	Kenchenahalli gate					1	2	4	-	
13	Puttenahalli Village						1	6	-	

SL No.	Places	DCP	ACP	PI	PSI	ASI	HC	PC	KSRP	CAR
14	Wheel & Axel Bus Stop				1	1	2	6	-	
15	Sandeep unnikrishnan road Junction					1	2	4	-	
16	N.E S Bus stop					1	1	6	-	
17	Yelahanka P.S Circle						2	6	1	
18	B.D.K Circle					1	2	6	1	
Total		1	1	2	4	11	35	102	4	

INSTRUCTIONS:

1. Men & Officers posted will ensure smooth movement of the vehicles in coordination with the Traffic staff posted at the Points.

Sub sector C-5:**Route Mobile Patrolling**

PI Sri.....

SL No	Particulars	PI	PSI	HC	PC
1	Hebbal flyover to Yelahanka Bypass (Hoysala /Jeep)	1	1	1	1
2	Yelahanka Bypass to Bagaluru Cross (Hoysala /Jeep)		1	1	1
3	Bagaluru Cross to MVIT Cross. (Hoysala /Jeep)		1	1	1
4	Ambience Dhaba To Nagenahalli Cross (Hoysala /Jeep)		1	1	1
5	Yelahanka Kogilu cross to Rajankunte (Hoysala /Jeep)		1	1	1
Total		1	5	5	5

INSTRUCTIONS:

The men and officers posted for patrolling should look after the safety and security.

Places	DCP	ACP	PI	PSI	ASI	HC	PC	KSRP	CAR
C-1	1	2	2	10	6	28	85	3	1
C-2	0	1	1	6	9	23	45	2	-
C-3	1	1	1	2	5	22	55	2	1
C-4	1	1	2	4	11	35	102	4	1
C-5	0	0	1	5	0	05	05	0	0
Total	3	5	7	27	31	113	292	11	3

SECTOR D**Sub Sector D-1****Bundobust arrangements inside Air force Station campus (Day)**

SL No.	Places	DCP	ACP	PI	PSI	WPSI	ASI	HC	PC	WPC	KSRP	CAR
1	Public View Area ADWA	1	1	1	2	1	2	5	10	2	0	1
2	Registration office.		0	1	2	1	1	5	10	4	1	0
3	Mufti officers & staff		0	0	1	0	0	10	20	2	0	0
	Total	1	1	2	5	2	3	20	40	8	1	1

INSTRUCTIONS:

1. A close look out for possible presence of any undesirable person in the vicinity of the VVIP at the venue should be ensured.
2. Purity and hygiene of food and beverages given to the VVIP should be ensured as per norms/laid down procedures.
3. Proper fire safety arrangements should be made at the venue.
4. Arrangements for stand by generator/battery backup should be ensured at all venues.
5. Adequate plain clothes men deployment should be made at the place of function.
6. Special emphasis should be given to the A S checks of mementos, garlands and bouquets.

Sub Sector D-2:**NIGHT PATROLLING IN SIDE**

Places	DCP	ACP	PI	PSI	HC	PC	KSRP
INSIDE	1	2	4	8	20	40	2

They Should look after Safety and security in all the areas of inside IAF during night between 08-00 PM TO 07-00 AM.

Sector D Total Deployment

SL No.	DCP	ACP	PI	PSI	WPSI	ASI	HC	PC	WPC	KSRP	CAR
D-1	1	1	2	5	2	3	20	40	8	1	1
D-2	1	2	4	8	0	0	20	40	0	2	
Total	2	3	6	13	2	3	40	80	8	3	1

SECTOR E

Bundobust at Parking Place (Domestic Area)

ACP	PI	PSI	WPSI	ASI	HC	PC	WPC	KSRP	CAR
1	2	5	-	5	10	15	10	2	-

INSTRUCTIONS:

Parking Arrangement responsibly is of HAL. The staff deployed should see the Smooth Moment of persons and vehicles.

SECTOR F:

Ancillary/supportive duties.

(Sub divided into 8 sub sectors.)

Sub sector F-1 : Disaster management

ACP	PI	PSI	WPSI	ASI	HC	PC	KSRP
1	2	6	1	8	16	30	2

Sub Sector F-2 : Interrogation Cell at Chikkajala Police Station.

PI	PSI	HC	PC	WPC
1	2	5	10	5

Sub Sector F-3 Control Room (Wireless Staff)

	ACP	PI	PSI	WPSI	ASI	HC	PC	WPC	RAF
Inside the IAF Campus	1	2	2	1	5	10	15	05	1
Outside the IAF Campus	1		2			2	4	2	
Total	2	2	4	1	5	12	19	7	1

Sub Sector F-4 : Anti Demonstration Squad

PI	PSI	WPSI	PC	WPC
1	2	2	10	5

Sub Sector F-5 : Women/Child Helpline Centre.

WPSI	PC	WPC
1	2	4

Sub Sector F-6 : CRISIS MANAGEMENT TEAM

ACP	PI	PSI	WPSI	ASI	HC	PC	WPC	KSRP
1	4	8	1	8	20	40	10	2

ACP Sri.....

SI No	Place	PI	PSI	WPSI	ASI	HC	PC	WPC	KSRP
Team-01	Gate No- 8 & 9	1	2	0	2	5	10	2	
Team-02	Hunsamaranahalli lake	1	2	1	2	5	10	2	1
Team-03	opposite to gate No-2A & 2B	1	2	0	2	5	10	3	
Team-04	Bagalur cross	1	2	0	2	5	10	3	1
	Total	4	8	1	5	20	40	10	2

Sub Sector F-7 : Platoon In charge officers.

	ASI	HC
KSRP	10	20
CAR		

Sector-F Total Deployment

	DCP	ACP	PI	PSI	WPSI	ASI	HC	PC	WPC	KSRP	RAF
F-1	1	1	2	6	1	8	16	30	-	2	-
F-2		-	1	2	-	-	5	10	5	-	-
F-3		2	2	4	1	5	12	19	7	-	1
F-4		-	1	2	2	-	-	10	5	-	-
F-5		-	-	-	1	-	-	2	4	-	-
F-6		1	4	8	1	8	20	40	10	-	2
F-7		-	-	-	-	-	10	20	-	-	-
Total	1	4	10	22	6	21	63	131	31	2	3

SECTOR-G

Sector-G is divided into 2 sub-sectors

One ACP Incharge of G-1 and G-2**Subsector-G-1 : Sky Sentry.**

SL No.	Places	PI	PSI	ASI	HC	PC
1	Big Mart at Kattigenahalli	1	1		1	2
2	Nitesh Apartment Building at Bagaluru Cross				1	2
3	Ecopolis building				1	2
4	Ryan School Top.			1	1	2
5	Fire Station Building Top				1	2
6	Nagarjuna House Watch men Quarters Top		1	1	1	2
7	Nitte Meenakshi College New Building Top				1	2
8	Gantiganahalli village Nanjappa House Top				1	2
9	Gantiganahalli village T.S.Murthy House (Yellow Colour Building) Top opp to Garage				1	2
	Total	1	2	2	9	18

Subsector-G-2 : Sky Sentry

SL No.	Places	PI	PSI	HC	PC
1	Suggatta Village Chairmen Ramachandrappa House Top	1	1	1	2
2	Suggatta Circle Munegowda House Top			1	2
3	Krishnamurthy house Top Srinivasa Enclave Suggatta road			1	2
4	Near Elegant E Zone Pink Building			1	2
5	VIT College Building Top			1	2
6	Basava Krupa Mini Party hall Top			1	2
7	Manjunatheshwara Juice Center Top			1	2
8	Sri Vithal. PSI House suggatta Road Hunasamaranahalli			1	2
9	Sri Subramani building Suggatta Road Hunasamaranahalli		2	1	2
10	Lawyer Timmarayappa Building (near old ege home) Hunasamaranahalli			1	2
11	Ananad Building Hunasamaranahalli			1	2
12	Pratiksha café Building Hunasamaranahalli			1	2
13	land of beds and king coin Building Hunasamaranahalli			1	2
Total		1	2	13	26

Sector-G total deployment

	ACP	PI	PSI	ASI	HC	PC
G-1	1	1	2	2	9	18
G-2		1	2	0	13	26
Total	1	2	4	2	22	44

Sector-H

Sub Sector H-1 - Food distribution

Sub Sector H-2 - Passes distribution

Sector H Total Deployment

ACP	PI	PSI	HC	PC
1	2	4	20	40

Platoon Incharge officers should carry the Walkie-talkie, one extra battery & Mobile Phones also.

- **COMMUNICATION:** ACP Control room may be directed to install a control room at the Air force station Yelahanka two days earlier to the Aero show and which will be continued till the last day of the show. 1 static set will be installed at the main guard room of Air force station, Yelahanka and one static set near gate No.8, 9, 10. 60 walkie-talkies with chargers, should be provided.
- **POLICE OUT POSTS (CONTROL ROOM) :** Police outposts will be operational during Aero India-2023 which will function from 13rd - 17th Feb 2023, 1 Police Inspector, 2 PSIs, 6 HCs, 9 PCs & 2 WPCs will be deployed round the clock for interrogation and for attending to complaints around Air force station Yelahanka during the Aero show which will also function, as Help Desk.
- **JOINT INTERROGATION CELL:** There will be a joint interrogation cell formed to interrogate any suspect. Along with personnel from IB, AFLU and IAF/P, one PI from the Central Crime Branch along with two policemen will be detailed to perform these duties.

General guidelines to control public who arrive at the AeroShow:

- Signages with route map and directions from Hebbala flyover to Airforce and from Chikkajala upto Air force to be installed.
- Signages to show parking places 5 Kms from Air force to be created to control and curb the crowd and traffic jam.

- Signages to create alternative routes for vehicles passing through Air force Station towards Devanahalli.
- Signages to indicate arrangements made for shifting vehicles parked with repairs or unnecessarily parked around the access roads.
- Signages with P.A (Public announcement) system to give directions to public who come to visit the air show.
- **Children below the age of 12 years people above 55 years are to be restricted.**
- Barricades should be created near air force gate to control crowd.
- Directions to be issued to traffic police that no parking of vehicles should be done around air force gate.
- Use barricades to ensure queues for public to enter the air show.
- Announcement through P.A (Public announcement) system should be done to maintain social distance and regulate public movement.
- Any other action as deemed necessary based on the situation.

ANTI TERRORISM MEASURES:

Aero India besides showcasing aerospace products and technologies by Indian and overseas firms, will also have static and aerial display of fighters, helicopters, civil aircraft and aerobatics by IAF teams and ace pilots of combat aircraft from global aerospace majors like Lockheed Martin, Boeing, Dassault, Gripen and Euro fighter. To ensure safe flying and guard the Air Force station Yalahanka against any kind of attacks the following anti terrorism measures are made.

The area surrounding the Air force station Yalahanka is having a compound wall of 10 feet height with barbed fencing on top. Gantiganahalli, Suggatta, Hunasamaranahlli, Bharati nagar, Vinayaka nagar are the surrounding villages. Nitte Meenakashi college road is also an important route to be watched.

OTHER INSTRUCTIONS

- Bengaluru International Airport will be closed during the Aero show timings.
- ATC (Air Traffic Controller) will be an alert regarding any unauthorized aircraft flying in its coverage.
- Radar surveillance is made round the clock.
- Unmanned helipads within a radius of 80 kms will be guarded by Police staff.

- Around 35 tents outside the peripheral area will be installed with deployment of armed officers/men round the clock in three shifts.
- Officers of the rank of ACP & PIs will be in rounds round the clock outside peripheral area.
- 17 sky sentries with armed officers/men will be deployed in different vital places outside the peripheral area.
- A joint recce will be conducted by civil Police, ISD, State intelligence and Airforce officials.
- Inside and outside the peripheral area, security is taken care by 15 Air defense teams with snipers round the clock.
- Garuda force (ISD) will be deployed on rounds in the outer peripheral area and other important places to check anti terrorist activities.
- Officers/men deployed to recce the outer peripheral area and demographic statistics will focus on new entrants to the area surrounding air force station.
- Officers/men of local police station and Hoysala/Cheethas instructed to concentrate on anti social and other criminal elements' along with daily duties.
- Any important observation shall be intimated to senior officers.
- Dog squad & Anti Sabotage Check (ASC) will be conducted twice a week and more frequently before one week of the commencement of the show.
- In case of crisis the disaster management team headed by officer of the rank of DCP for the quick response will communicate along with District administration.
- Ambulance and hospital services are ear-marked to meet emergencies.
- Civil defence services are also utilized.
- All parking places are managed and secured by Air force staff.
- During the Aero India 2023 an order will be issued for the ban flying of drones, UAV (un manned aerial vehicle) and flying objects.
- 1 DCP will be deployed as in charge of Operation Command Centre (OCC) which is posted in the Air force Station.
- Deployment of 2-officers of the rank of ACP for the night security during the Aero India 2023.
- Providing bullet proof vehicles and jammer vehicles by State intelligence

The concerned officers will implement not only the above directions, but also the other related directions of State and Central Government for the safe and peaceful conduct of Aero-India-2023.

ABSTRACT OF OFFICERS AND MEN DRAFTED FOR BANDOBUST DUTY

Sl. No	Particulars	DCP	ACP	PI	PSI	WPSI	ASI	HC	PC	WPC	Platoon		
											KSRP	CAR	RAF
1	Sector-A Perimeter Security & Perimeter Mobile Patrolling	1	3	11	62	0	105	125	130	0	0	0	0
2	Sector-B Security at Gates.	1	4	14	25	13	0	82	130	38	8	2	1
3	Sector-C Route Bundobust.	3	5	7	27	0	31	113	292	0	11	3	0
4	Sector-D Bandobust Inside Campus.	2	3	6	13	2	13	40	80	8	3	1	0
5	Sector-E Bandobust Parking Place Domestic Area.	0	1	2	5	0	5	10	15	10	2	0	0
6	Sector –F Ancillary/ supportive duties	1	4	10	22	6	21	63	131	31	2	0	1
7	Sector –G Sky sentry	0	0	2	4	0	2	22	44	0	0	0	0
8	Sector-H Food & Pass distribution	0	1	2	4	0	0	20	40	0	0	0	0
	TOTAL	8	21	54	162	21	177	475	862	87	26	6	2

TOTAL DEPLOYMENT OF OFFICERS AND MEN DRAFTED FOR BANDOUST FOR AERO INDIA-2023

A B S T R A C T													
Sl. No.	Particulars	DCP	ACP	PI	PSI	WPSI	ASI	HC	PC	WPC	Platoon		
											KSRP	CAR	RAF
1	Total no. of staff required for Bundobast duty	8	21	54	162	21	177	475	862	87	26	6	2
		443						1424					

DEPLOYMENT OF PLATOONS

KSRP

SL No	Particulars	KSRP Platoons
1	Registration Office	1
2	Gate No-2 A Gate No-2 B	2
3	Gate No-8 and 8 (a)	1
4	Gate No-11	1
5	Gate No-12	1
6	Opp Legacy Apartment (old Vidyashilpa)	1
7	Kogilu Cross	1
8	Bagaluru Cross	1
9	Hunasamaranahalli	1
10	MVIT Cross	1
11	Gantighalli Tank	1
12	supernova Parking Place	1
13	CRPF	1
14	STATION CYRCAL	1
15	BDK	1
16	SRINIVASA ENCLAVE	1
17	CRISIS MANAGEMENT TEAM	2
18	INSIDE	2
19	Outside the IAF Campus	2
20	Disaster management	2
21	Domestic Area	2
	Total	26

CAR Platoon

SL No	Particulars	CAR Platoons
1	Public View Area ADWA	1
2	Sandeep Unnikrishnan junction	1
3	Ambiyans Dabha	1
4	Hebbala flyover	1
	Total	4

RAF

SL No	Places	Platoons
1	Gate No 2	1
2	Inside IAF campus	1
	Total	2

ACP control room may please be directed to send 6 CAR, 2 RAF, 24 KSRP platoons for day and 2 KSRP platoons for every night for crowd control and other BUNDOBUST duties during AERO INDIA- 2023.

LIST OF IMPORTANT TELEPHONE NUMBER OF POLICE OFFICERS

Sl. No	Police officers	Telephone numbers	Mobile phone numbers
1	Commissioner of Police. Bengaluru City	22260707	9480801001
2	Addl. Comm. Of Police (Admn), Bengaluru City	22268374	9480801003
3	Addl. Comm. Of Police (L & O), East Bengaluru City	22200902	9480801010
4	Addl. Comm. Of Police (Traffic & Security), Bengaluru City	22863928	9480801006
5	Addl. Comm. Of Police (CAR), Bengaluru City	22200924	9480801004
6	Help line O/O Commissioner of Police. Bengaluru City	22943226	
7	Deputy Commissioner of Police, North east division, Bangalore city.	23632002 22943676	9480801064
8	Deputy Commissioner of Police, Traffic North division, Bengaluru City.	23362771	9480801133
9	Deputy Commissioner of Police, Intelligence, Bengaluru City.	22200920	9480801032

LIST OF IMPORTANT TELEPHONE NUMBER OF POLICE OFFICERS			
Sl. No	Police officers	Telephone numbers	Mobile phone numbers
10	Deputy Commissioner of Police, VVIP, Security, Bengaluru City.	22263875	9480801022
11	Deputy Commissioner of Police, PRO, Bengaluru City.	22259590	9480801092
12	Assistant Commissioner of Police, Yelahanka sub-Dn. Bengaluru City.	22943734	9480801070
13	Assistant Commissioner of Police, Sampigehalli sub-Dn. Bengaluru City.	22943690	9480801069
14	Assistant Commissioner of Police, International Airport sub-Dn., Bengaluru City.	27680111	9480801071
15	Assistant Commissioner of Police, Control room. Bengaluru City.	22943322	9480800905
16	Assistant Commissioner of Police, Traffic northeast Dn. Bengaluru City.	22943708	9480801073
17	Police Inspector, Yelahanka P.S. Bengaluru City.	22942536	9480801415
18	Police Inspector, Yelahanka Newtown P.S. Bengaluru City.	22942537	9480801416
19	Police Inspector, Kodigehalli P.S. Bengaluru City.	22943703	9480801422
20	Police Inspector, Amruthalli P.S. Bengaluru City.	22943644	9480801417
21	Police Inspector, Sampigehalli P.S. Bengaluru City.	22799545	9480801424
22	Police Inspector, Kotnoor P.S. Bengaluru City.	22943694	9480801423
23	Police Inspector, Baglur P.S. Bengaluru City.	28469100	9480801418
24	Police Inspector, Devanahalli P.S. Bengaluru City.	27683820	9480801420
25	Police Inspector, Chikkajala P.S. Bengaluru City.	28467200	9480801419
26	Police Inspector, International Airport P.S. Bengaluru City.	22001102	9480801421
27	Police Inspector, Chikkajala traffic P.S. Bengaluru City.	28467200	9480801934
28	Police Inspector, R.T.Nagar traffic P.S. Bengaluru City.	22942813	9480801932
29	Police Inspector, Devanahalli Traffic P.S. Bengaluru City.	-	9480801074
30	Police Inspector, Yelahanka traffic P.S. Bengaluru City.	22943024	9480801933

ANNEXURE VII : SOPS FOR PRE AND POST-ERECTION OF THE ELECTRICAL INSTALLATION

To cope up with the fastest socio-economic growth of the country, Electrical sector is also growing at same pace to cater the demand and bridge the gap between demand and supply. It is paramount important to ensure safety by enforcing electrical safety measures by observing the provisions of the Central Electricity Authority(Measures relating to Safety & Electric Supply) Regulation 2010, Electricity Act 2003 & Karnataka Lifts, Escalators and Passenger Conveyors Act 2012 and Rules 2015 with intention of minimizing the danger to human beings, damage to the property.

Enforcement of electrical safety measures is important to avoid any kind of Electrical mishap which may likely result in disaster. In view of Aero India show-2023, following measures has to be taken to avoid/ manage any kind of Disaster resulting from Electrical Generation (DG sets), distribution and utilization.

SOP's for Pre-Erection of the Electrical Installation

1. Suitable current carrying capacity of cables, wires & protection equipment's (MCB/MCCB/ELCB/ELR) as per IS Standards shall be provided in the electrical system.
2. 30mA sensitivity ELCB's shall be provided in each LT circuits.
3. In the electrical circuit, loads shall be properly ascertained and arrangements shall be made for suitable source to feed the loads.
4. Proper earthing arrangements shall be made as per IS 3043-2018.
5. Balanced load sharing on each phase shall be ensured.
6. Laying of UG Cables shall be as per IS-1255-1983
7. No overhead lines/bare conductors/loose wires shall be drawn inside the proposed premises.
8. As per CEA (Measures relating to safety & electric supply) Regulations 2010 authorized persons shall be appointed to operate & maintain electrical installations & details shall be displayed near the switch gear rooms.
9. Alternate Power supply arrangements shall be made to ensure uninterrupted power supply.
10. All metallic structures shall be properly earthed at opposite ends.
11. No fire catching materials shall be stored near the Electrical panels/ Apparatus/ Equipments
12. Electrical Danger Board shall be displayed at conspicuous place.

13. Instruction chart for restoration of person suffering from electric shock shall be displayed at conspicuous places near Electrical panels/Apparatus/ Equipments
14. Industrial type power sockets/connectors shall be used during electrical wiring.
15. Suitable fire extinguishers shall be placed near the Electrical apparatus.
16. Suitable barricade shall be made all around electrical apparatus.
17. Drawing approval shall be obtained for the temporary electrical installation from Department of Electrical Inspectorate/Competent authority, showing complete details of Electrical schematic to ensure electrical safety and work shall be carried out as per the approved drawings.

SOP's for Post Erection of Electrical installations

1. Electrical Safety commissioning approval shall be obtained for the temporary electrical installation from Department of Electrical Inspectorate/Competent authority to ensure Electrical safety.
2. All lift installations shall be maintained in condition free from danger as per The Karnataka Lift, Escalators and Passenger Conveyors Act- 2012 and The Karnataka Lift, Escalators and Passenger conveyors Rules-2015
3. Any addition/Alteration shall be brought to the notice of the approving authority after approval.
4. DG set's Diesel tanks shall be ensured always full by topping up on regular basis.
5. First Aid boxes shall be kept at Electrical control rooms.
6. Electrical Single line diagram shall be displayed at the Electrical control room.
7. Direction of flow current and size of the HT/LT cable shall be marked.
8. 660V grade rubber mat shall be provided in front of all LT Panels.

ANNEXURE VIII : SOP FOR FIRE SERVICES FOR AI-23

1. A Fire Control Room (FCR) will be functioning under OIC Sub-committee fire at the OCC to cater for all eventualities of fire during the Air Show. The assets under FCR are as follows :-

- a) Crash Fire Tenders (CFTs) : 06 (04 by AFS Yelahanka and 02 augmented by HQ TC)
- b) Truck Fire Fighting Large (TFFLs) : 02 (AFS Yelahanka)
- c) Water Tenders (DFTs) : 17 (KSF & ES)
- d) Water Browsers : 18 (KSF & ES)
- e) QRVs (Quick Reaction Vehicles) : 14 (500 litre water & 50 Ltr foam capacity) (KSF&ES)
- f) AGNIs (Motorcycle) : 09 (Water Mist 25X2 litres
a. capacity) (KSF&ES)
- g) Foam Tanker : 02 (KSF&ES)
- h) Varuna : 03
- i) Backpack : 30
- j) Rescue Van: 03 along with 04 portable water pumps and equipped with equipment for metal cutting, concrete cutting, draggers, lifters and other equipment essential for salvage and rescue operations.
- k) One Regional Fire Officer (RFO) each from KSF&ES (Karnataka State Fire and Emergency Services) and HAL will be available at the Station Fire Control Room to co-ordinate these resources.

2. The Station area is divided into five fire zones coinciding with DM sectors. Operational control of CFTs will be with ATC which will be catering primarily for aircraft fire fighting. These CFTs will be augmented to FCR in case required. The planned positioning of TFFLs and CFTs are as placed below:-

TFFLs : 01 at ADVA

01 near Walking track to cater for Domestic Parking area

CFTs : 01 at 09 Dumbbell

01 at Gas Agency

02 at Crash Bay

02 at Northern dispersal

3. A total of **16 Static Water Tanks (SWTs)** comprising **15 SWTs** each having a capacity of 45000 Ltr and **01 SWT** having 25000 Ltr capacity are available in the station. Of these, 10 are located in the technical area and 06 are located in the domestic area. All these static water tanks would be replenished with water supply from MES. In addition, there are 09 overhead water filling points (06 in technical area and 03 in domestic area) which can also be used for re-filling of DFTs. All water supply connections are checked and found serviceable.

4. Rep of HAL (DM) will be overall responsible for firefighting inside the exhibition areas/ hangars. As per the Hangar Fire Safety Plan, approximately 135 fire points will be set up in exhibition area, chalets and any other temporary structure built. Fire watchers (15-20 per structure) will be available in the hangars throughout the day. Six Emergency Exits are available per hangar for emergency evacuation in case of fire. DM team will render assistance as and when called upon by Rep of HAL (DM) in these areas.

5. Crack Team

- Two Crack Teams will be set up comprising two Officers and 14 airmen (augmented by Fire services team) to combat minor fire outside station premises. One team would be positioned near gate no. 04 (undershoot of Runway 27) while the other would be placed near crash gate no. 12 (near undershoot of Runway 09). These teams, in liaison with civil authorities, are responsible for directing the DFTs positioned along the perimeter of AF Stn to fight fire. These teams will be equipped each with one three ton vehicle (covered), one AGNI fire tender (Enfield motorcycle with 20 Ltr water mist extinguisher), 10 fire beaters, few hand held fire

extinguishers (CO2/ DCP), hand gloves, smoke masks and walkie talkie set. The fire extinguishers like AGNI will be provided by KSF&ES. They will also be equipped with one light vehicle each for easy access to confined areas. These teams are expected to fight minor fires in and around the boundary wall of AFS Yelahanka and, simultaneously, co-ordinate for any additional requirement of firefighting resources from the offsite State DM team.

- A detailed Fire Plan has been placed as Appendix.

6. Fire in Hangar

- Fire watchers in hangar to inform OCC through OIC hangar. OCC to activate DM, FCR and MCC.
- Irrespective of type of fire, the hall manager to ensure cut-off of power supply to the hangar to prevent spreading of fire.
- Fire hydrants and fire extinguishers in the hangar are to be utilized by the exhibitors and fire watchers of the HAL for firefighting till further help arrives. FCR will activate DFTs placed behind hangar A & C may be relocated to fight fire as required.
- MCC to activate FAP (First Aid Post) to provide necessary medical aid.
- Hall manager to activate PA system for giving directions to the public for exit and evacuation.
- Security personnel of the HAL to open emergency exits to access outside. DM team is to assist security for the same.

7. Fire in Chalets/Restaurants

- Fire watchers of HAL in Chalets/Restaurants to inform FCR. FCR to inform OCC to activate DM, SCC and MCC.
- Irrespective of type of fire, fire watchers to cut off of power supply to the hangar to prevent spreading of fire.
- Hand held fire extinguishers in the Chalets/restaurants are to be utilized by the fire watchers of HAL for firefighting till further help arrives. Fire points which are set up outside restaurants can also be used for fire fighting. DFT near the Dornier DSS is to be diverted to reach the Chalet/Restaurant area. DFTs placed behind hangar A & C may be relocated to fight fire as required.
- MCC to activate MAP to provide necessary medical aid.

- (e) Evacuation to be coordinated by Security and DM team in conjunction with NDRF and RAF.

8. Fire in domestic area vehicle parking-Sector 4 (P-4).

- (a) Fire Watchers/ DM Personnel deployed at P-4 parking area are to inform the FCR/ OCC and DFT/ TFLL positioned at P-4 parking area (at the corner of walking track).
- (b) At the same time Fire watchers should start fire fighting by using fire extinguishers from the nearby fire point which will be placed at P-4 parking.
- (c) OCC to activate DM, FCR and MCC.
- (d) DFT at the P-4 parking area to reach the spot and combat fire. Additional DFTs positioned at Shopping Complex, URC including 01 CFT positioned near Gas Agency may be called for assistance by FCR, if reqd.
- (e) Security at the spot to evacuate public from the area with the help of Karnataka State Reserved Police.
- (f) MCC to provide first aid to the injured, if any.
- (g) The nearest water resources for refilling of fire vehicles are given as follows:

SWTs-

Over Head Refilling

- | | |
|--------------------------------|--------------------------------|
| 1. SMQ P 33 (Near Shiv Mandir) | 1. OMQ |
| 2. OMQ P- 64 | 2. MES Pump House near SMC |
| 3. SMC | 3. SMQ P 33 (Near Shiv Mandir) |
| 4. URC | |
| 5. DSC Mandir | |
| 6. Old Transmitter | |

9. Fire in Sector-3 vehicle parking (P-2, P-3)

- (a) Fire Watchers/ DM Personnel deployed at respective parking areas are to inform the FCR/ OCC.
- (b) At the same time Fire watchers should start fire fighting by using fire extinguishers from the nearby fire point placed at respective parking areas.
- (c) OCC to activate DM, FCR and MCC.
- (d) DFT /TFLL positioned at Sector-3 will be directed specifically to the site and combat fire. Additional fire vehicles may be called for assistance by FCR, if required.

- (e) Security at the spot to evacuate public from the area with the help of Karnataka State Reserved Police.
- (f) MCC to provide first aid to the injured, if any.
- (g) The nearest water resources for refilling of fire vehicles are given as follows:

SWTs-

- 1. AS Sec
- 2. ATC
- 3. MT Sec
- 4. Lgs Sec

Over Head Refilling

- 1. ATC
- 2. 27 Runway End
- 3. Beside D Hangar

10. Fire in Sector-2 parking area (P-6 Chalet Area).

- (a) Fire Watchers/ DM Personnel deployed at respective parking areas are to inform the FCR/ OCC.
- (b) At the same time Fire watchers should start fire fighting by using fire extinguishers from the nearby fire point placed at respective parking areas.
- (c) OCC to activate DM, FCR and MCC.
- (d) DFT/ Water Bowser positioned at Sector-2 will be directed specifically to the site and combat fire. Additional fire vehicles may be called for assistance by FCR, if required.
- (e) Security at the spot to evacuate public from the area with the help of Karnataka State Reserved Police.
- (f) MCC to provide first aid to the injured, if any.
- (g) The nearest water resources for refilling of fire vehicles are given as follows:

SWTs

- 1. AS Sec
- 2. ATC
- 3. Magazine Bldg

Over Head Refilling

- 1. Beside D Hangar
- 2. ATC
- 3. 27 Runway End

11. Fire in Sector-1 parking area (P-5 ADVA Area, P-7 Inaugural area).

- (a) Fire Watchers/ DM Personnel deployed at respective parking areas are to inform the FCR/ OCC.
- (b) At the same time Fire watchers should start fire fighting by using fire extinguishers from the nearby fire point placed at respective parking areas.
- (c) OCC to activate DM, FCR and MCC.
- (d) TFFL/ Water Bowser positioned at Sector-1 will be directed specifically to the site and combat fire. Additional fire vehicles may be called for assistance by FCR, if required.
- (e) Security at the spot to evacuate public from the area with the help of Karnataka State Reserved Police.
- (f) MCC to provide first aid to the injured, if any.
- (g) The nearest water resources for refilling of fire vehicles are given as follows:

SWTs

- 1. Magazine Bldg
- 2. 09 Runway End
- 3. ATC
- 4. AS Sec

Over Head Refilling

- 1. Beside D Hangar
- 2. ATC
- 3. 27 Runway End

12. Fire in ADVA

- a. Information to OCC/FCR/DM cell.
- b. FCR to activate DFTs at the ADVA to reach the spot and fight fire.
- c. Security to evacuate public from the area.
- d. Security to keep the crowd under control and facilitate the movement of DFTs in the area.
- e. Medical Team to reach the spot and provide first aid if reqd.

14. If the situation so warrants, firefighting from helicopters, using Bambi bucket operation, may be coordinated with DM.

Appendix

(Refers to para 6 of SOP for Fire Services)

FIRE SERVICES PLAN

1. The responsibility of fire fighting during Aero India 2023 within the AF Station Yelahanka excluding exhibition halls and chalets has been entrusted to Station Fire Section of AF Station Yelahanka and KSF&ES. In case of air crash ARFF is the responsibility of Crash Bay, AF Station Yelahanka. HAL is responsible for fire safety within exhibition halls and chalets till the time Disaster Management team arrives upon which the responsibility, command & control shifts to OIC Disaster Management.

2. To fulfill the above responsibility, AF Station Yelahanka has made the following arrangements with available major and minor fire fighting appliances:-

(a) Fire Control Room (FCR):

A fire control room will be set up at OCC to cater for all the fire related emergencies. The control cell with OIC DM will be manned round the clock and will be in constant communication with DFTs/CFTs, Crack teams and IC Fire watchers. Telephone Extn No: 7222 will be available at the FCR. The reps of HAL, KSF&ES and IAF will be available for smooth coordination and prompt response in case of fire.

(b) Major Fire Fighting Appliances:

Two TFFLs will be positioned at Air Force Station Yelahanka during the show. Also, eight hydrants are installed in various hangars and ATC building for fire fighting. In addition, 24 water tenders, two foam tankers, five agni (motorcycle), 13 QRVs, three rescue vans and 14 water bowzers will be provided by KSF&ES (Karnataka State Fire & Emergency Services). All the major fire fighting appliances of KSF&ES will be manned by their own personnel and escorted by an IAF personnel for better coordination during the event.

(c) Minor Fire Fighting Appliances:

232 fire points in the station have minor fire fighting appliances as per the scale laid down in IAP 1503 Part B. All fire points have full compliments of appliances like CO2, foam, DCP and water CO2 fire extinguishers. One additional fire point at every exhibition hall emergency exits will be installed and manned by HAL(DM) team and would function under the DGQA. These additional fire points would be manned by HAL(DM) personnel. However, the fire points in the station and various buildings and installation will not be manned by fire personnel as they are looked after by the particular section

where fire point is placed. All air warriors are conversant with the handling of fire extinguishers placed at various fire points.

(d) Static Water Tanks (SWTs)/Overhead Filling Points:

There are 10 SWTs in tech area and six in domestic area. The water capacity of all SWTs is 45,000 Ltrs except one SWT at technical area which has a capacity of 25000 Ltrs. All SWTs are accessible by DFTs. In addition, there are nine overhead filling points (six in technical area and three in domestic area) for DFT/CFT water replenishment. Overhead filling points located at 'A' Well (near TCCF) and beside 'D' hangar will be operated and controlled by MES. The various locations of all fire fighting resources are as mentioned below :-

LOCATIONS OF SWTs

TECHNICAL AREA

SWT No	Location
01	AOC's Lawn
02	27 dumbbell
03	09 dumbbell
04	112 HU, AF
05	TCCF
06	ATC Complex
07	Stn Lgs sec
08	MT section
15	Magazine buiding (Armoury)
16	Aero safety section

DOMESTIC AREA

SWT No	Location
09	CSD canteen
10	SMC
11	Near OMQ P-64
12	Near SMQ P-33
13	DSC mandir
14	Old transmitter
-	-
-	-
-	-
-	-

DETAILS OF OVER HEAD FILLING POINT

TECHNICAL AREA

SL No	Location
01	ATC complex

DOMESTIC AREA

SL No	Location
01	Pump house near SMC

SL No	Location
02	Beside 'D' Hanger(Operated by MES)
03	'A' Well near TCCF (Operated by MES)
04	112 HU, AF
05	27 dumbbell
06	27 dumbbell

SL No	Location
02	Officer Mess
03	SMQ(P-33), Near Shiv Mandir

(e) **Hydrant And Fire Alarm System.** Station is equipped with fire alarm system and hydrant for effective detection and fire fighting. The details are as mentioned below:-

FIRE ALARM AND HYDRANT SYSTEM

SI No	Location	SI No	Location
01	'A' Hangar	05	'E' Hangar
02	'B' Hangar	06	112 HU (All three Hangar)
03	'C' Hangar	07	Media Hall
04	'D' Hangar	08	ATC

(f) **Co-ordination.**

(i) The fire services will be under the direct command of FCR (Fire Control Room) which will be activated by OIC DM. FCR will be co-located with OCC. FCR will initiate emergency action and ensure that all concerned are informed of the disaster.

(ii) Station Security Officer is to augment security forces at the earliest to meet the contingency and to disperse others who are not required at the fire site.

(iii) OIC Medical Services is to augment medical personnel in case of injuries/ eventualities at the site of fire incident.

(iv) If situation warrants, the services of CFTs will also be utilized to augment the DFTs in coordination with ATC for Disaster Management.

(v) In case of major fire outside the premises of AFS Yelahanka, action will be taken as per SOP in coordination between FCR, DM and Offsite State DM Cell.

(g) **Manning.** Each fire fighting vehicle of KSF&ES will be provided with one air warrior for route familiarization and IAF TFFs will be manned by air warriors as per the requirement (minimum 05 air warriors for each TFF).

(h) All actions during response to actual fires (including simulated exercises) will be carried out in coordination with DM cell, SMC, Fire section, Security section and ATC.

3. **Action in case of Air Crash.** In the event of air crash ON/OFF base, primary alarm will be initiated by ATC and secondary alarm by Base Ops Centre. Post Accident Plan (PAP) will be activated for off base accidents. CFTs supplemented by DFTs will reach the scene for Aircraft rescue and Fire Fighting (ARFF) in consultation with DATCO. OIC DM will reach the scene of accident for mob control and evacuation, if any. Operational Control Centre (OCC) would also be informed.

4. The proposed plan for parking of fire vehicles is as mentioned below:-

PROPOSED PLAN FOR PARKING OF FIRE VEHICLE OF KSF & ES

Area	Description of vehicles	Call sign
Fire Control Room (OCC)	Water Tender-01	To Be Decided
	QRV-01	
	Rescue van-01	
	Agni (2 wheeler)-01	
	Water Bowser-01	
Sector 1: ADVA	Water Bowser -02	
	Varuna-01	
	Foam Tanker-01	

Area	Description of vehicles	Call sign
Sector 2(A): ADVA Parking area	Water Tender-04 Water Bowser-04 QVR-04 Agni (2 wheeler)-04	
Sector 2: behind chalets	Water Tender-01 Water Bowser-02 Varuna-01 Rescue van-01 Backpack-15	
Sector 2(A): VVIP Parking Area	Water Tender-02 Water Bowser-02 QVR-02 Agni (2 wheeler)-02	
Sector 3: B & C Hangar	Water Tender-01 Water Bowser-01 QVR-02 Rescue van-01 Varuna-01 Backpack-15	
Sector 4: Domestic Area	Water Tender-02 Water Bowser-01 QVR-01	
Sector 4(A): Domestic Parking Area	Water Tender-04 Water Bowser-04 QVR-04 Foam Tanker-01	
Sector 5: Northern Dispersal	Water Tender-02 Water Bowser-01 Agni- 02	

ANNEXURE IX : SOPS FOR ONSITE DISASTER MEDICAL MANAGEMENT

On receiving the information regarding disaster, the following actions will be taken.

1. All medical, paramedical staff and stretcher bearers available at MAP-I, MAP-II & MAP-III, barring one paramedical person in their respective establishments will move to the site of disaster with available ambulance vehicles and emergency medical aids.
2. On arrival to the site of disaster, MOs will examine the casualties to assess their condition for treatment and evacuation.
3. After first aid and triage, arrangement will be made for speedy evacuation to SMC/ CAEP/ CHAFB/ designated Civil Hospitals depending on seriousness of the case for treatment.
4. Seek additional assistance in terms of ambulance vehicles, patients carrying vehicles (GS Tpt), manpower and medical equipment if required from SMC / HQ TC, IAF (Medical section)
5. On arrival of cases at medical center, the patients will be examined, provided expert treatment, triaged, provided expert treatment and evacuation done as required.
6. Life saving surgery, if required, will be performed at OT established at SMC.
7. All available transport such as ambulance vehicles (both service and civil coaches), GS Tpt and MI-17 helicopters and AN-32 will be used for casualty evacuation in consultation with controlling agencies.
8. The List of contact numbers of key officials and various departments of CHAFB associated with medical cover for Aero India 2023 is attached as **Annexure-I**.
9. Cases requiring air evacuation will be sent to CAEP to be evacuated to HAL/ ASC Helipad for treatment at Manipal/ CHAFB or to any other designated Civil Hospital. Cases requiring evacuation by road will be sent either to SMC or designated Civil hospitals/ CHAFB. Casualties at HAL airport will be received by IAM & at ASC Helipad by CHAFB. Both units are to prepare SOP for the same.
10. O I/C MCC will regulate the function of medical establishments in the technical area and domestic area and supervise speedy evacuation of casualties, in liaison with State Disaster Management Cell.

SOP FOR POLYTRAUMA

1. Polytrauma means a syndrome of multiple injuries with systemic traumatic reactions which may lead to dysfunction or failure of remote organs and vital systems.
2. In case the patient is in the domestic area, he/she should be immediately brought to SMC.
3. If the patient is in technical area, he/she should be brought to the nearest medical echelon i.e., MAP 1, MAP 2, MAP-III etc.
4. Patient will be treated according to the latest ATLS Guidelines

SOP CHEST PAIN

Chest pain could happen due to any number of reasons from as benign as dyspepsia to as severe as myocardial infarction.

1. In case the patient is in the domestic area, he/she should be immediately brought to SMC.
2. If the patient is in technical area, he/she should be brought to the nearest medical echelon i.e., MAP 1, MAP 2 etc.
3. On arrival immediately place the patient in propped up position, check vitals and
4. Start iv line.
5. Do 12 lead ECG and Trop-T card test.
6. Give Ecosprin 325 mg chewable tablets stat, Clopidogrel 325 mg stat
7. Transfer to nearest higher center depending upon the individual situation

SOP FOR UNCONSCIOUS PATIENT

1. In case the patient is in the domestic area, he/she should be immediately brought to SMC.
2. If the patient is in technical area, he/she should be brought to the nearest medical echelon i.e., MAP-I/ MAP-II/ MAP-III etc.
3. Patient will be managed according to the latest ACLS Guidelines.
4. Check BP, PR, TEMP, SPO2, RBS.
5. Check for central pulse, if no pulse, immediately start CPR.
6. Continue CPR until revived or transferred to higher centre.

SOP FOR SNAKE BITE

1. In case the patient is in the domestic area, he/she should be immediately brought to SMC.
2. If the patient is in technical area, he/she should be brought to the nearest medical echelon i.e., MAP-I/ MAP-II/ MAP-III etc.
3. Wash the affected area with soap and water.
4. Reassure the patient.
5. Immobilize and elevate the limb. DONOT apply tourniquet.
6. On arrival at the health center, check the vital signs and signs of envenomation.
7. Establish an intravenous access for fluids and anti snake venom.
8. Give injection TT.
9. Give test dose of Anti snake venom before administering.
10. Keep the anaphylaxis tray handy in case of any reaction.

SOP FOR SEVERE BURNS

1. In case the patient is in the domestic area, he/she should be immediately brought to SMC.
2. If the patient is in technical area, he/she should be brought to the nearest medical echelon i.e., MAP-I/ MAP-II/ MAP-III etc.
3. Quickly assess the percentage of burns and volume of fluids needs to be given.
4. Establish INTRAVENOUS access using wide bore needle and give fluids using Parkland formula.
5. Give analgesics to relieve the pain.
6. Apply clean wraps around the burned area to prevent systemic heat loss and hypothermia.
7. Give injection TT as prophylaxis
8. Gently scrub the loose necrotic tissue and apply a thin layer of SSD.
9. Transfer the patient to nearest burns unit.

SOP FOR HEAT EXHAUSTION

1. In case the patient is in the domestic area, he/she should be immediately brought to SMC.

2. If the patient is in technical area, he/she should be brought to the nearest medical echelon i.e., MAP-I/ MAP-II/ MAP-III etc.
3. Move the patient to a cool place to lie down and rest.
4. If conscious give water and electrolyte fluid.
5. If unconscious, elevate the feet above the head to increase blood flow to the brain.
6. Cool the patient as rapidly as possible by removing clothes, wrapping him or her in wet towels, sheets, etc. and pouring cool water over the person.
7. Fan to increase evaporative heat loss.
8. Place ice packs under the armpits, behind the knees and on each side of the neck.
9. Monitor the vital signs and urine output.
10. Transfer to higher echelon if required.

SOP FOR FOOD/WATER POISONING

1. In case the patient is in the domestic area, he/she should be immediately brought to SMC.
2. If the patient is in technical area, he/she should be brought to the nearest medical echelon i.e., MAP-I/ MAP-II/ MAP-III etc.
3. Check the vital signs of the patient.
4. Look for signs of dehydration (Sunken eyes, loss of skin turgor, dry and coarse tongue)
5. Give ORS for mild dehydration cases and establish intravenous access for moderately and severely dehydrated cases.
6. Carry out a detailed epidemiological investigation to establish the cause.

SOPS FOR ON-BASE AND OFF-BASE A/C ACCIDENTS (AI-23)

1. SMO is to ensure that **one Medical Officer** is available in the **crash ambulance** and **SAR** during the period of Aero India-2023. **Medical Officer** will always carry the Motorola set issued to him for instant communication. SMO is to detail **one Medical Officer**, who will always be **Stand-by for SAR duties** during the period of Aero India2023.

ON BASE ACCIDENT

On receiving any message of a/c accident from **ATC/ OCC**. Medical Officers and

Medical Assistants and ME Scale AF-12, Cervical Collars, stretchers and splints, from ATC and SAR will reach the accident site in ambulance under the guidance of DATCO/ SAS&IO /Crash Crew are to reach. They will approach the aircraft **only after** getting clearance from rescue party. They will then provide necessary medical aid to the casualties.

OFF BASE ACCIDENT

1. **SAR Effort.** On receiving any message of a/c accident from **ATC/ OCC**, one MO and two Med Assts along with **SAR medical equipment** are to reach **N- Dispersal**. **They will board the SAR helicopter** to reach the accident site. In case of Chetak aircraft performing duties of **SAR**, Only MO will board the aircraft.
2. **Ground Effort (Ground Convoy).** If SAR helicopter is unable to make access to the crash site, it will return to base. Thereafter, medical personnel along with their medical equipment will leave SAR helicopter and board the ambulances and will **become a part of Ground Convoy near ATC**.
3. Casualties will be resuscitated and evacuated from **crash site to MAP-I/ MAP-II/ SMC or CHAF'B** by **aircraft /SAR ambulance as per casualty evacuation plan**.
4. **OIC MCC will activate CAEP** according to the number of lying/ sitting casualties to be air evacuated keeping in mind the carrying capacity of the air ambulances.
5. SMO will inform **DMO at CHAF'B** about the number and expected time arrival of casualties at **CHAF'B**.
6. In case of a large number of casualties, **SMO in co-ordination with OIC Disaster Management** will seek necessary assistance from **SMO, Jalahalli (E), CHAF'B, BSF Hospital and Civil hospitals** in the vicinity, for expected number and type of casualties.
7. He is to ensure that **Ambulance MTDs** are conversant with the routes to be followed

MEDICAL CONTINGENCY PLAN FOR TRANSPORT AIRCRAFT ACCIDENT CONSISTING OF LARGE NUMBER OF OCCUPANTS

1. On receipt of message of transport aircraft accident with large number of occupants, the ATC is to initiate the primary alarm and inform **O IC MCC** (AFNET No/ Motorola/ Mobile Numbers. (**Telephone Numbers will be intimated after allotment**)) and inform the following: -

- a. Type of aircraft.
- b. Nature of emergency (Brief description of accident as CFIT, explosion, impact, post impact fire etc).
- c. Location of accident.
- d. Personnel on board.
- e. Accessibility to the site.

2. The secondary alarm is to be immediately raised, as ground effort forms an important part of the crash and rescue procedure for any aircraft accident.

ACTIONS BY O IC MCC /DMA

3. **OIC MCC/Duty Med Asst at MCC**, on receipt of primary alarm is to immediately take the following actions: -

- a. Inform DMO, **SMO, SMC, MAP-I, MAP-II and MAP-III on Motorola/ mobiles** and activate for mass casualty medical plan.
- b. **Ambulances along with DMO, medical team (04 med assts) and ME Scale AF-12**, Priority Tags, cervical collars, splints, stretchers (incl crammer wire splints and Thomas leg splints, Scoop stretcher and spinal board), sufficient blanket/ bedsheets, bandages/ crepe bandages, dressing material, communication sets, torches drinking water, and body bags **will proceed to ATC** (for on base) **& 112 HU dispersal via ATC** (for off base accident).
- c. Depending upon expected No. of casualties, **one 3 Toner or more vehicle and stretcher bearers will be part of medical team.**

4. **The SMO is to ensure that SMC is prepared for: -**

- a. Casualty Treatment Centre (CTC), which is to act as Medical Control Centre with AFNET (4318102) and DMA (7338009821). Senior most medical staff will act as IC CTC.
- b. Reception of casualties – Medical team at SMC will prepare the 08 + 07 beds if the situation demands for reception of casualties.
- c. Inform CHAF and Civil hospitals in vicinity for receiving expected number of casualties.
- d. Instruct IC CTC/SMC to contact hospitals and ascertain the max number of beds which can be provided.
- e. Ensure documentation for submission of report to higher authorities.

ACTION AT SITE

5. The DMO along with his team is to:

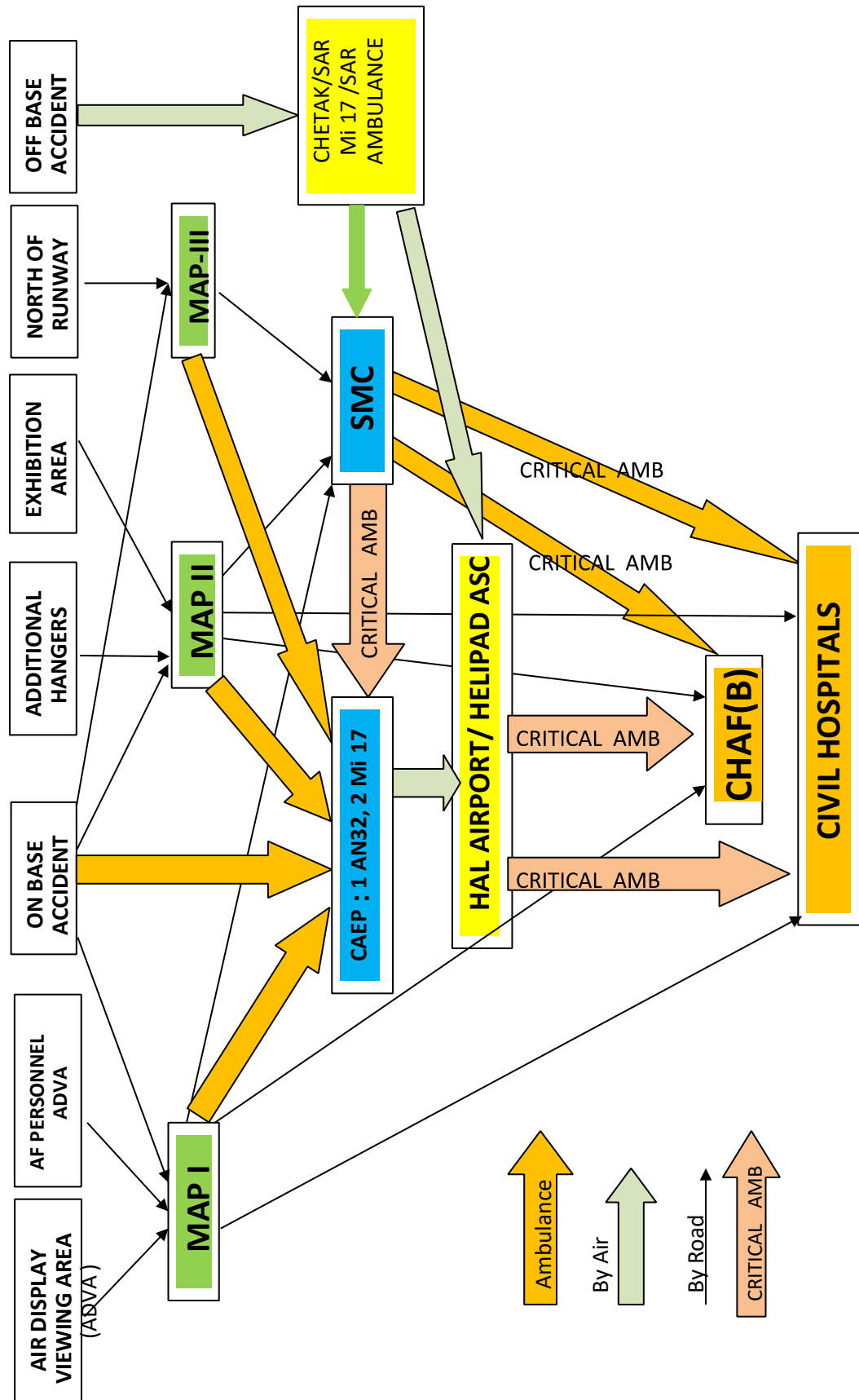
- a) Help in extricating the casualties from the Debris.
- b) Segregate all the affected casualties to a safe site (mark area as medical post) with stretcher bearers and bystanders.
 - I. Ensure **TRIAGE** and **Prioritize** the casualties
 - II. **P1 (Red Tag)** Serious Thoraco-abdominal & head injuries
 - III. **P2 (Yellow Tag)** Lying casualties as # & burns
 - IV. **P3 (Green Tag)** Minor injuries & walking wounded
 - V. **P4 (Black Tag)** Dead
- c) Render immediate urgent life saving treatment on the site only.
 - i. (Resuscitation / Maintain airway / IV life line/ Arrest bleeding/ pain killers)
 - ii. *(Note: Injections given are to be written on a piece of sticking plaster & stuck on the IV bottle if being given in drip and on the forearm if given i/m or i/v bolus along with dose and time)*

- d) Field Medical Card is to be carefully filled. Ensure that time is not to be wasted in taking the particulars of the casualties/ identify them.
- e) Once declared dead (with no sign of life) by medical officer, the dead bodies are to be put in body bags. SWO staff on site is responsible for retrieval, identification, transportation of dead bodies.

EVACUATION OF CASUALTIES (AS PER CHAIN OF EVACUATION)

1. The chain of evacuation is from the accident site to **SMC** for secondary treatment and **further to CAEP for evacuation** or directly to **HAL /ASC by helicopters** for further transfer to CHAF'B/Civil Hospitals.
2. Shifting of dead bodies is to be done with due care by **SWO** and Station **administration**.
3. Mobile communication sets as Motorola/ICOM/AFCEL/Mobile phones are to be used for communication between ATC, accident site (if nearby), Ambulance and CTC.
4. MI-17 Helicopter (SAR) is to be used for evacuating P1 casualties and ambulances used for evacuating P2 and P3 casualties. Alternatively, MI-17 Helicopter can make trips for evacuating the casualties.
5. 3 ton is to be used for transporting the dead bodies.
6. Surgical team, Physician and ORAs of CHAF are to be positioned at SMC for prompt primary care of casualties and transfer the deserving casualties to CHAF'B/Civil hospitals on required basis.
7. One MI-17 Helicopter is to be kept standby for Cas Evac to ASC helipad for CHAF'B for casualties with serious head injuries which require super specialist treatment and CT scans. One MO and 02 Med Asst. is to accompany the casualties to CHAF.
8. All the documentation and case sheets are to be filled by SNCO IC documentation under the guidance of SMO/ DMO.
9. SMO is to ensure availability of list of agencies required to be contacted in case of requirement of additional (05/10/15/20 ambulances) as per priority. He is also to inform MT section for any additional requirement of MT vehicles.
10. COO in coordination with CO, 112 HU is to ensure availability of max no of helicopters possible, in case of any contingency requiring mass casevac.

CHAIN OF EVACUATION OF CASUALTIES



6. The details of the nearby hospitals along with their contact info are placed below:

Sl No	Hospital Name	Medical Officer In Charge/Tele No.		Casualty Numbers	Distance
1.	Baptist Hospital	Resident Administrator (Available 24x7)	9448496615	080-22024334 080-22024633 080-22024416 080-22024508	11 kms
2.	Bowring Hospital Shivaji Nagar	Dr Sis Khadri	9844059212	080-25327712	22 Kms
3.	Manipal Hospital (Hebbal)	Dr. Mahesh Mylarappa	9663087621	080-41791743 080-30123700 080-30123701 080-30123702	13 Kms
4.	General Hospital Yelahanka	Dr. Ganesh Bh	9980025323	080-28563977	4.5 Kms
5.	Kc General Hospital Malleshwaram	Dr Venkateshaiah Dr Mohan (Rmo)	9844163041 9945975470	080-23568937	18 Kms
6.	St Philominas Hospital Vivek Nagar	Emergency	080-40164639	080-40164365-639 080-40164425	22 Kms
7.	Ms Ramaiah Hospital Mathikere	Emergency		080-22183333	18 Kms
8.	Nimhans	Emergency		080-26995500 080-26995513	27 Kms
9.	Manipal Hospital Old Airport Road	Dr. Mabel Vasnaik	9845932624	080-25023249 080-25023260	28 Kms
10.	Sanjay Gandhi Hospital Jayanagar	Dr. Kk Girish	9343701699	080-26564516 080-26566000 080-26562500	29 kms
11.	Hosmat Hospital Richmond Town	Emergency	9108450310	080- 25593796/97	21 Kms
12.	VICTORIA HOSPITAL MYSORE ROAD	DR. SHIVA KUMAR	9060102094	080-26701150	25 Kms
13.	Hal Hospital Vimanpura	Dr. Ravichander Dr. Ranga Reddy	9845459590 8660518763	080-22314281 080-22328040	30 Kms
14.	Chinmaya Hospital Indira Nagar	Dr. Anuradha	9844479442	080-25026100	24 Kms
15.	Sakra Hospital Marathahalli	Dr. Deepal Balani Dr. Bevin D Silva	9341960717 9916652524	74068 00426 080-496244962	33 kms
16.	Chafb	Emergency		4125-7242/102	25 kms
17.	Jayadeva Hospital Marathahalli	Dr. Ts Bhoopal	9845022281	080-22977202	27 Kms

SI No	Hospital Name	Medical Officer In Charge/Tele No.		Casualty Numbers	Distance
18.	Mallya Hospital Ashok Nagar	Dr. Humera	9845092091	080-22242325	20 Kms
19.	St John Medical College Koramangala	Dr. Pretesh Kiran	9845272765	080-22065122 080-22065001	26 Kms

IMPORTANT TELEPHONE NUMBERS

SI No.	Subscriber	Office Contact No.	AFCEL /EPAX	Res.	mobile
01	AVM Sadhana S Nair, VSM PMO, HQ TC	4111-7550	--	--	8130965984
02	AVM S Shankar Commandant, CHAF'B	4125-7200	--	--	8971880033
03	Air Cmde Sachin Shouche Dy Commandant CHAF'B	4125-7207	--	--	9686463122
04	Air Cmde CM Satheesh Cmde Adm & Cdr Tps CHAF'B	4125-7275	--	--	8473907417
05	Gp Capt G Rajaram Staff Surgeon CHAF'B	4125-7240/7244	--	--	9663144932
06	CHAF'B (MI Room)/DMO	4125-102/7244	--	--	
07	Gp Capt Gauri Ravi SMO, HQ TC (Unit)	4111-7640	--	--	9916200070
08	Gp Capt Srikanth Bangehra SMO AF Stn Jalahali	41187240	--	--	8130741888

CASUALTY EVACUATION PLAN (AI-23)

The casualty evacuation routes that will be followed from various Sectors of AFS Yelahanka are in conjunction with State Disaster Management Cell. (Chain of evacuation of casualties is placed as Annexure –I)

DETAILED PROCEDURE OF CASEVAC:

- a) In the event of a disaster, all medical and paramedical personnel (except 01 each from MAP I, MAP II, MAP III and SMC) will proceed to the site of disaster. After carrying out **triage at the site**, the patients will be evacuated from the disaster site to the nearest MAP / SMC via ambulances/Airlift as required.
- b) Casualties will be re-examined and re-triaged at MAPs/ SMC. After initial stabilization, all **Priority-I** and **Priority-II** will be evacuated by air ambulances or road to CHAFB/ Civil Hospitals for specialized management under intimation to O IC MCC.
- c) If required, MAPs will refer the patients to SMC. In case of need for specialized management, the patients will be transferred to hospitals either by road or air depending on the urgency and nature of case.
- d) **Priority-III** and **Priority IV** casualties will be handled by MAPs/SMC. Disposal of Dead cases will be carried out by SWO/Station Administrative Authorities.
- e) (i) **The nominal roll (Format is placed as Annexure 'II')** of all the casualties to be evacuated will be prepared in seven copies. Disposal – 01 Copy MAPs/SMC,
01 Copy Patient (for service /civil hospital),
03 Copy Aircraft & Ambulance (for road ambulance-02 Copy)
01 Copy receiving airfield
01 Copy O IC MCC

(ii) **Field Medical Card (Format is placed as Annexure 'III')** in three copies, One at SMC/MAPs, Two with patient.
- f) The selected cases will be kept ready to move at short notice. Unidentified casualties shall be documented as **UNIDENTIFIED**. Each shall be numbered and location of the evacuating Medical Post will be written clearly.
- (d) Details of all casualties evacuated **from SMC, MAP I, MAP II and MAP III** will be notified to OIC MCC at the earliest along with **nominal roll**.
- (e) **MOIC MCC will activate CAEP** according to the number of lying/ sitting casualties to be air evacuated keeping in mind the carrying capacity of the air ambulances. When the aircraft is ready, the cases to be evacuated by air will be sent to air ambulance with medical attendants.

- (f) The receiving air field will be activated by DATCO. The civil ambulances at the receiving air fields and the civil hospitals nearer to the air fields will be activated by State Disaster Management Cell. The medical attendants will return to the disaster site in the air /road ambulances to assist any further air evacuations.
- (g) For any additional requirement of manpower and ambulance MAP I, MAP II, MAP III and SMC will project to OIC MCC who will further notify the requirement to State Disaster Management Cell.

Note (i) Casualties from within AFS Yelahanka to be evacuated by road will be sent directly from MAP I, MAP II, MAP III and SMC in the ambulances to designated hospitals.

- (ii) State Disaster Management Cell will further activate the offsite resources and civil hospitals. Stand by coach at ADVA area will be activated for evacuating sitting patients out of disaster site if required.
- (iii) For the casualties from outside the AFS Yelahanka would be evacuated by civil ambulances to civil hospitals as directed by State Disaster Management Cell.

TRIAGE

- (1) The priority of patients will be determined as per the following guidelines:
 - (a) **Priority-I (RED BADGE)** Those requiring immediate resuscitation and urgent surgery.
 - (b) **Priority-II (YELLOW BADGE)** Those requiring early surgery and possible resuscitation.
 - (c) **Priority-III (GREEN BADGE)** All the other wounded and sick.
 - (d) **Priority-IV (BLACK BADGE)** Dead and Moribund casualties. The disposal of dead casualties will be carried by SWO and Station admin Authorities.
- (2) **Classification for Casevac by Air:** Patients are classified, for medical care during air evacuation. Details are placed as Appendix
 - (a) **Class 1.** Neuropsychiatric (Mental) Patients:

- (i) **Class 1A/1B.** Patients who are frankly disturbed and inaccessible and require the use of restraint, sedation and close supervision. OR Patients who do not require the use of restraint at the moment but may commit acts likely to endanger themselves or the safety of the aircraft and its occupants
- (ii) **Class 1C.** Patients who are co-operative and have proved reliable under observation.
- (b) **Class 2.** Stretcher Patients (Other than psychiatric).
 - (i) **Class 2A/2B.** Patients who are unable to move about on their own volition in any circumstances. OR the Patients who in an emergency, will be able to move themselves.
 - (c) **Class 3.** Walking patients (other than psychiatric) who need treatment enroute and are physically able to travel unattended.

Note: Air evacuation would normally be resorted to only for class 2A patients. Other classes of patients may be considered (space permitting), for transport by air at the discretion of SMO AFS Yelahanka (OIC Medical Services).

Coordination with Civil Agencies.

Close coordination will be maintained by station admin authorities with civil agencies responsible for offsite disaster. Necessary medical aid will be provided as and when tasked by the MCC.

List of Hospitals.

Besides Medical Agencies (MAP-1, MAP-II, MAP-III, SMC, CHAFB) of the AF Station Yelahanka, and Units of TC AOR, Disaster Management Cell, Govt of Karnataka will designate various **Civil/ Private Hospitals** to provide medical support for Disaster Management during AI-2023. These hospitals will be kept as standby with all emergency components. Designated hospitals will be established with hotlines for effective communication. **List of such hospitals** (To which hot lines are to be established is placed as **Annexure-IV**) will be forwarded by Disaster Management Cell, Govt of Karnataka.

Annexure 'II' to

Casualty Evacuation Plan

The format for **Nominal Roll of casualties** is as given below:-

Reg No. given by MCC	Name of the patient.	Relation	Service No./ AI-23 Regn No / UNIDENTIFIED	Name of serving personnel/ NOK (civilians only)	Age/ Sex	Trade	Unit.	Address of next of kin with Contact No
Diagnosis			Priority	Sitting/Lying	Referred to hospital :	Transferred by : Road/Air	Date	Time

Casualty Evacuation Plan The format for **Field Medical Card** is as follows :

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ANNEXURE X : MOCK DRILLS - DISASTER MANAGEMENT AERO INDIA 23

1. Disaster means a catastrophe, mishap, calamity or grave occurrence in any area, arising from natural or manmade causes, or by accident or negligence which results in substantial loss of life or human suffering or damage to, and destruction of, property or damage to, or degradation of, environment, and is of such a nature or magnitude as to be beyond the coping capacity of community of the affected area. The Disaster Management Plan provides a frame work and direction to the Government agencies for all phases of disaster management cycle.
2. Any amount of strategic planning to manage a disaster would not define the action plan completely as these plans cannot be considered in isolation or act as a substitute for maintaining good safety standards. Therefore the, the best way to protect against occurrence of major disaster is by maintaining very high levels of safety standards and involvement of all other associated services.
3. During Aero India, Temporary Off Site Disaster Management Cell is established as per the procedure of setting up of Incident Command Post (ICP) near the Air Force Station in coordination with State Disaster Control Room / Bengaluru District Disaster Management Cell/ Bengaluru District Disaster Control Room. To prepare for actions to be taken by various agencies during AI-23, the DM plan has standard operating procedures.
4. Mock drills covering important contingencies shall be conducted between 06 Feb 23 to 12 Feb 23 in respect of selected two contingencies using actual assets of centre, State and HAL. Details of assets available are given in succeeding paragraphs
5. Objectives of Mock Drills- DM Plan:-
 - a. A formal planning for managing Disaster and Emergencies
 - b. Smooth coordination between on-site and off-site DM teams
 - c. Preplanning of proper sequence of response actions
 - d. Effective management of resources
 - e. To remove arbitrary response to a disaster
 - f. Have a defined response structure, allocation of responsibilities to the participating agencies
6. State Departments which are part of Offsite DM

- a. Karnataka state police
- b. Bangalore city Police
- c. State Intelligence
- d. State Disaster management authority
- e. Medical , health safety
- f. BBMP
- g. BWSSB

7. Deployment Strength and Period by Various Security Agencies :-

Sl.No	Type of Forces	Requirement of Manpower	Period	Role / Remarks
1	NDRF	02 Platoons (92 Personnel)	8 Days	For assistance towards Disaster Relief
2	RAF	02 Platoons (120 Personnel)	8 Days	For Crowd Control
3	CRPF	02 Platoons (80 Personnel)	8 Days	control. smooth access to relief and emergency vehicle
4	BDDU (IA)	01 team (7 Personnel)	8 Days	For diffusion of explosive
5	BDU (IA)	21 Personnel	8 Days	Sanitization, anti-sabotage checks of incoming consignments received from abroad
6	PARA(SF)	04 Squads	8 Days	For Security and CI duties
7	CISF	500 Personnel	8 Days	scanning, boot check of vehicles at gates, manning of morchas
8	NSG	101 Personnel	6 Days	For VVIP Security

8. Communication:

- a. Loud Hailers
- b. Trolley type portable PA system
- c. Walkie Talkie
- d. Dragon Lights

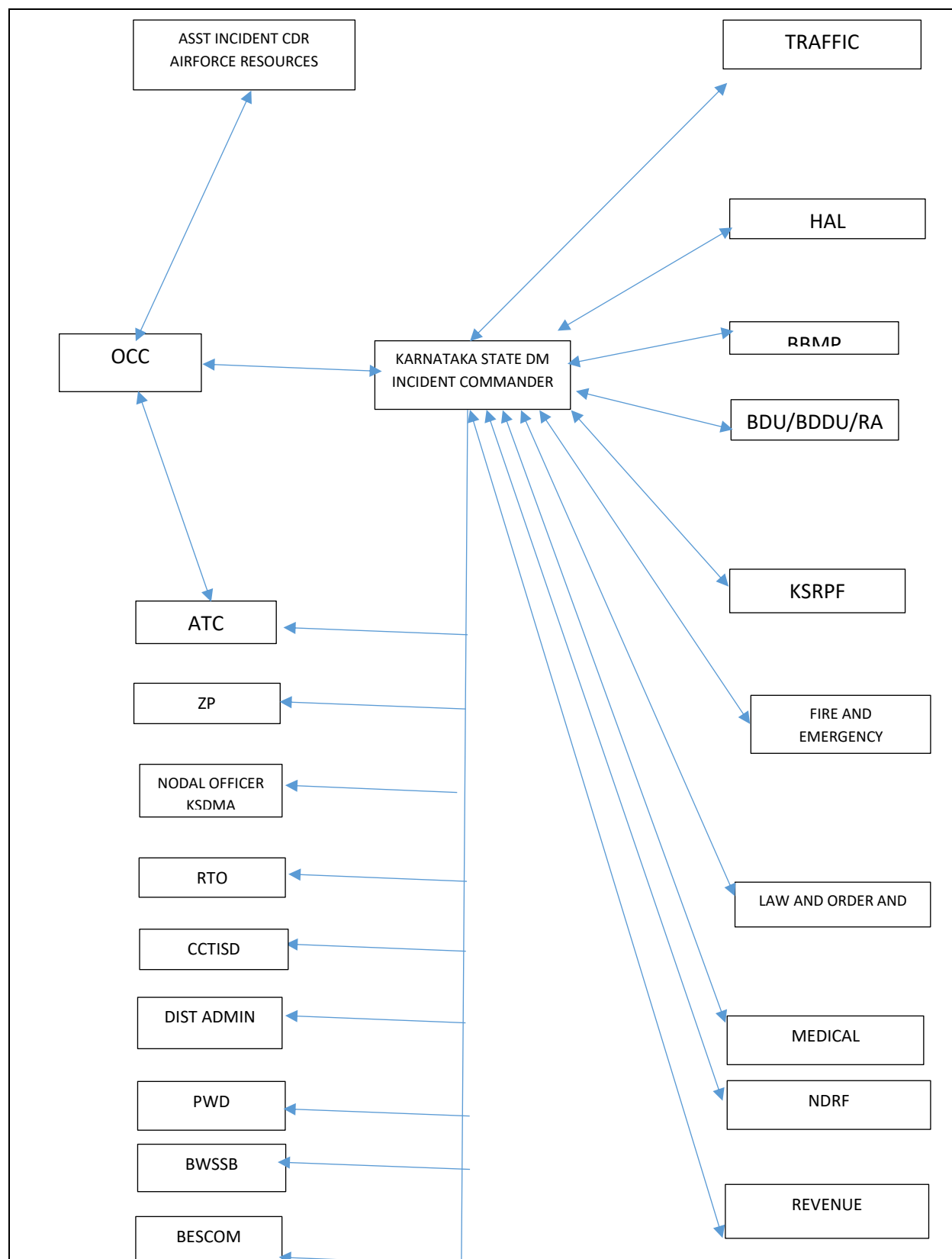
9. Contingencies:

- a. Fire
- b. Stampede
- c. Structural Collapse
- d. Plane Crash
- e. Chemical, Biological, Radiological (CBR) etc.
- f. Bomb (Blast, Identified , Hoax)
- g. Terrorism(Terror attack/ Drone attack/ Cyber-attack)
- h. Extreme weather
- i. Drinking water and food poisoning
- j. COVID 19
- k. Others

10. Location of various teams is as under:

- | | | |
|--------------------------------|---|---------------------------------|
| a. ADVA | - | State BDDU, BDU |
| b. Exhibition area | - | Army BDDU, BDU |
| c. Domestic area | - | Army BDU |
| d. State Police Reserve Police | - | KV School AF Stn Yelhanka, ADVA |
| e. RAF | - | Onsite DM Cell |
| f. NDRF | - | Onsite DM Cell |
| g. Fire & Emergency Resources | - | State, IAF, HAL |
| h. Medical & other Equipment's | - | State, IAF, HAL |

11. MOCK DRILL -1 Bomb blast outside and along perimeter wall on Nitte Meenakshi Road.



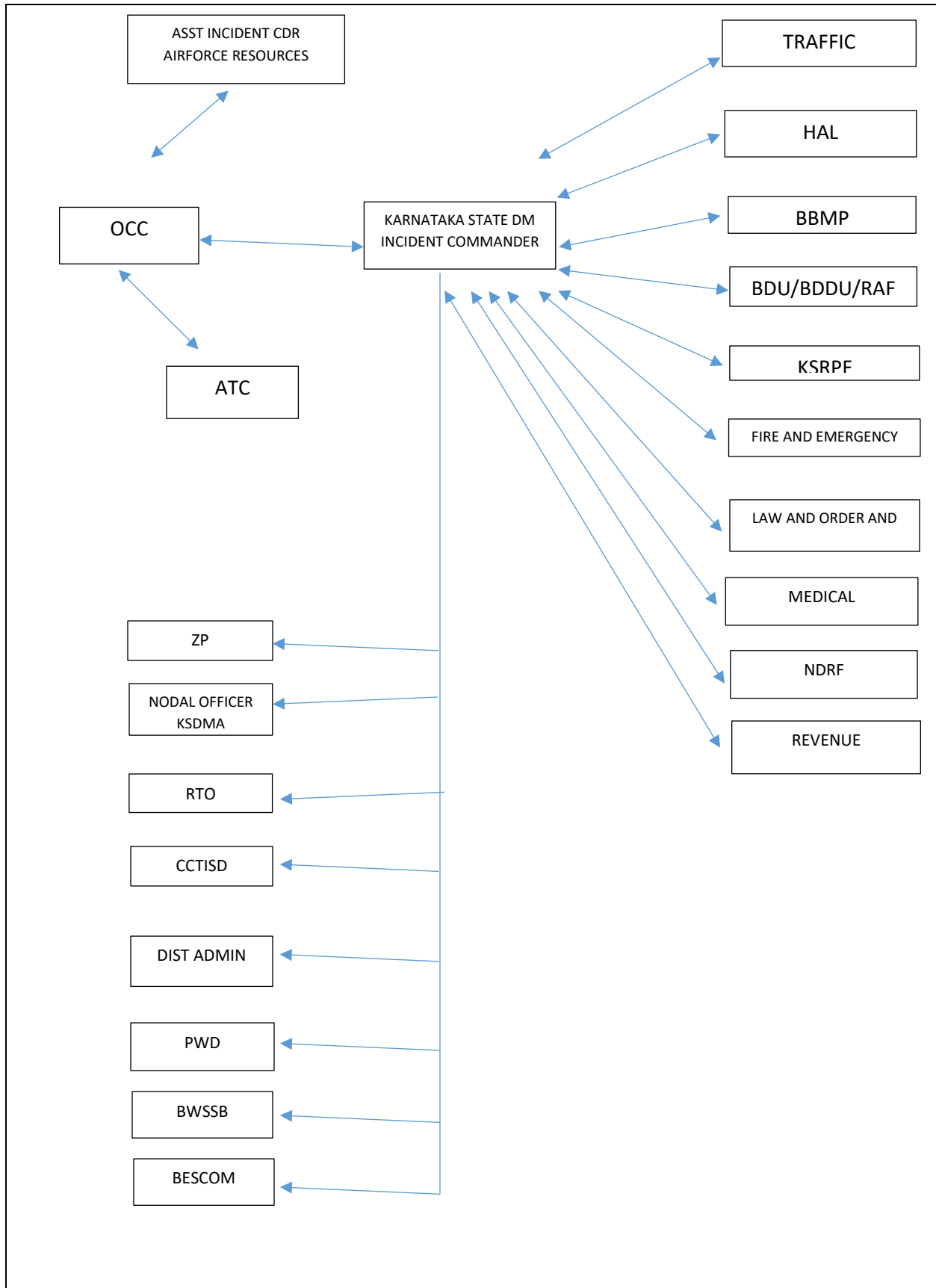
12. All reactions to a threat area to be assumed to be for worst case scenario.

- a. Traffic police will give a call to Incident cdr State on walkie talkie (Motorola) and inform
- b. State DM Cell to inform AF OCC asking for AF Resources at point of incident.
- c. State DM Cell to inform all deputy incident cdrs informing point of incident. Actions thereof at point of incident
- d. BDU and BDDU teams to detect and diffuse bombs as per laid down procedures and at fixed sites.
- e. Fire and emergency services of state, HAL and AF to carryout fire fighting duties under the supervision of state services.
- f. State Police to carryout crowd control, detection of miscreants / isolation of bomb site
- g. OCC to inform inform COO to stop all flying during period of active flying and divert aircraft if required.
- h. State DM incident cdr to activate Commando, RAF, CRPF / KSRPF platoon to reach spot of incident in their own integral transport if required and tasked. Route of the RAF, CRPF / KSRPF platoon to be along highway, right turn along NTTE Meenakshi upto point of incident. The RAF, CRPF / KSRPF will then disembark and will be deployed at the site.
- i. Alert Medical team to provide immediate first aid to the injured, if any. Evacuation of casualties by Medical Team by road to be affected Ambulances are to be routed via NH-7 road to Yelahanka or to Bangalore city. The barricades will be cut with the help of DM assets, security and HAL personnel to make the passage clear for ambulance route number NH-7
- j. BDDU to ascertain any more number of bombs and diffuse them.
- k. DM team, DSC and Security Guards in SDA / EA will prevent spillage of crowd from the exit gates.
- l. The PA system to be utilized to pass instructions to the crowd as required.

13. MOCK DRILL -2 Stampede outside Gate no 1 on NH-7

- a. Traffic police/CISF Guards at Gate no 1 to give information about stampede outside Gate no 1 to OCC who inturn shall inform State Incident cdr and Chief Security Officer (CSO) AF on Motorola..
- b. Incident Cdr to activate RAF / KSP for assisting civil police and reach Gate no 1 in their own integral transport.

- c. ACP to also inform traffic police to regulate flow of traffic including relief vehicles.
- d. OCC to inform COO who shall stop all flying during period of active flying and divert aircraft if required and activate Casevac ac if required.
- e. Incident Cdr State to activate Medical teams and deploy them at the Gate no 1 to take charge of providing immediate first aid to the injured, if any.
- f. Evacuation of casualties by road to be effected Ambulance to be routed through through NH 7 to Yelahanka or to Bangalore City.
- g. Traffic police to control and regulate traffic along NH 7. State Police to carryout crowd control
- h. Fire and emergency services of state, HAL and AF to carryout duties under the supervision of state services.
- i. The PA system to be utilized to pass instructions to the crowd as required.



ANNEXURE XI : AERO INDIA 2023 DM - ANTI DRONE MEASURES AND FOOD AND REFRESHMENTS

ANTI DRONE MEASURES

1. There is a high possibility of threat from no state actors, terrorists etc using sub conventional platforms. The aerial threats include Para gliders, micro light aircraft, balloons, UAV's, drone etc. This necessitates coordinated plan of action by IAF, and state Police forces.
2. The above flying objects do not make much noise and fly at the attitude. They cannot be detected by aeronautical radars and can be a serious threat. Hence detection can be by following:-
 - i. Visual means.
 - ii. Electronic means if possible.
3. IAF shall make arrangements for countering threat from drones/sub conventional aerial platform. This includes detection and engagement. Police Control Room Bangalore shall inform IAF Control Room on priority about all such aerial objects such as drones for further necessary action by IAF.
4. Area coverage in terms of radius shall be laid down in IAF SOP on the subject.
5. To facilitate reporting of drone related incidents ground map as prepared by State Govt shall be used.

FOOD AND REFRESHMENTS

1. AI 23 is for period 12 Feb 23 to 17 Feb 23 @ AF Stn Yelahanka Bangalore. Though the Airshow is for 05 days, catering stores shall be provided for days prior to and after the Airshow.

Food and Refreshments

2. Asst Commissioner and SDM (North Sub Division) shall make arrangements for food and refreshments for officials of State Govt Disaster Management. Coffee/Tea, Break Fast, Snacks coffee/tea and Safe drinking water arrangements are to be made by HAL through external agency.
3. With bar, buffet & Ala carte service at exhibition site. Food courts serving different types of fast food in medium range category Food courts and moderately priced restaurants serving standard Indian food. Only approved works will be accorded to provide catering facilities on the chalets and

pavilions for the event. List of service providers shall be notified on the website. Various Food courts available are as under:

Catering Support

4. Various categories of Food Courts

- L1(5 Star)
- L-2(4/3 Star)
- L3(Normal food joints) Food Courts for various class of Visitors and Food Supplies at Chalet and Stall

5. Arrangements by HAL through external agency shall be made for personnel as under:-

	01 Jan -15 Jan 23	16 Jan 23 - 03 Feb 23	03- Feb- 23	04- Feb- 23	05- Feb- 23	06- Feb-23	07- Feb- 23	08- Feb- 23	09- Feb- 23	10- Feb- 23
CISF	0		152	152	152	152	152	152	152	588
IAF	0	0	0	0	0	0	0	0	0	0
IB	0	0	0	0	0	0	0	0	0	0
KSF&ES	5	20	150	150	150	150	150	150	150	150
NDRF	0	0	0	0	0	72	72	72	72	72
RAF	0	0	0	0	0	11	11	11	11	11
BDU	0	0	0	0	0	0	0	45	51	51
	11- Feb-23	12-Feb- 23	13- Feb- 23	14- Feb- 23	15- Feb- 23	16- Feb-23	17- Feb- 23	18- Feb- 23	19- Feb- 23	20- Feb- 23
CISF	588	588	588	588	588	588	588	346	346	0
IAF	2600	2600	2600	2600	2600	2600	2600	2600	2600	0
IB	0	50	70	70	70	70	70	0	0	0
KSF&ES	150	150	425	425	425	425	425	20	20	20
NDRF	72	72	72	72	72	72	72	0	0	0
RAF	87	87	87	87	87	87	87	0	0	0
BDU	51	51	51	51	51	51	51	0	0	0

	Timings		
Prior to air show	Break fast	0830hrs	0900hrs
	Lunch	1200 hrs	1300
	Snacks	150hrs0	1530
	Coffee/tea & biscuits	1500	1530
Air show	Break fast	830	900
	Lunch	1200	1300
	Snacks	1500	1530
	Coffee/tea & biscuits	1500	1530
Post Air show	Break fast	830	900
	Lunch	1200	1300
	Snacks	1500	1530
	Coffee/tea & biscuits	1500	1530

ANNEXURE XII : CONTACT DETAILS OF SENIOR OFFICERS PERTAINING TO AERO INDIA 2023 – DM

SENIOR OFFICERS - AERO INDIA 2023

SL. NO.	DESIGNATION	CONTACT DETAILS
01	Smt. Vandita Sharma Chief Secretary, Government of Karnataka	Off: 22252442/ 22033300 E-mail: cs@karnataka.gov.in officeofcs@gmail.com
02	Dr. Rajneesh Goel Additional Chief Secretary, Home Department Government of Karnataka	Off: 22258830/ 22033456 E-mail: prs-home@karnataka.gov.in
03	Sri. I.S.N. Prasad ACS – cum Development Commissioner Government of Karnataka	Off: 22250715 E-mail: devcom@karnataka.gov.in
04	Sri. Gaurav Gupta Additional Chief Secretary, IDD, Government of Karnataka	Off: 22035085 E-mail: idd.prs@gmail.com
05	Sri. Tushar Giri Nath BBMP Chief Commissioner, Government of Karnataka	Off: 22221286 Mob: 9741288825 E-mail: comm@bbmp.gov.in
06	Sri. Anil Kumar T K Principal Secretary, Revenue Department (DM) & Health & Family Welfare, Government of Karnataka	Off: 22032995 Mob: 9448464333 E-mail: Secy.dm@gmail.com
07	Dr. Manoj Rajan Commissioner KSDMA, Revenue Department (DM), Government of Karnataka	Mob: 9448290282 E-mail: manoarya@gmail.com
08	Sri. Dayananda K A Deputy Commissioner & District Magistrate, Bengaluru District	Off: 2211292 Mob: 9449649019 E-mail: deo.bangaloreu@gmail.com
10	Sri. Veerabhadra Hanchinal Additional Secretary, State Protocol Government of Karnataka	Off: 22033321 Mob: 9844065685 E-mail: stateprotocolofficer@gmail.com

SENIOR POLICE OFFICERS

SL.NO	DESIGNATION	CONTACT DETAILS
01	Sri. Praveen Sood Director General & Inspector General of Police, Bengaluru, Government of Karnataka	Off: 22211803/ 22942999 E-mail: police@ksp.gov.in
02	Dr. Alok Mohan Director General of Police, Director General, Karnataka State Fire & Emergency Services, Government of Karnataka	Off: 22971501 Mob: 9480823601 E-mail: dgp.ksfes@ka.gov.in
03	Sri. C H Pratap Reddy Incident Commander, Commissioner of Police, Bengaluru City Police Bengaluru, Government of Karnataka	Off: 22942215/ 22260222 Fax: 22374022 Mob: 9480801001 E-mail: compolbcp@ksp.gov.in
04	Sri. B Dayananda Addl. Director General of Police (Intelligence & BDDS), Bengaluru, Government of Karnataka	Off: 22213495 Mob: 9449878500 E-mail: director.in@ksp.gov.in
05	Sri. Alok Kumar Addl. Director General of Police (L & O), Bengaluru, Government of Karnataka	Off: 22211834/ 22942103 Mob: 9480800005 E-mail: adgplo@ksp.gov.in
06	Sri. R Hitendra Addl. Director General of Police KSRP, Bengaluru, Government of Karnataka	Off: 22213351/ 22942104 Mob: 9480800007 E-mail: adgpkgrp@ksp.gov.in
07	Sri. P Harishekaran Addl. Director General of Police KSF& ES, Bengaluru, Government of Karnataka	Off: 22971567 Mob: 9448386750 E-mail: adgp.ksfes@ka.gov.in
08	Sri. Vipul Kumar Addl. Director General of Police, Internal Security Division, Bengaluru, Government of Karnataka	Off: 25304575/ 22943816 Mob: 9480800601 E-mail: adgpis@ksp.gov.in
09	Sri. Chandra Shekar Addl. Commissioner of Police (L & O) East, Bengaluru, Government of Karnataka	Off: 22200904 Mob: 9480801010 E-mail: addlcpeast@ksp.gov.in

SL.NO	DESIGNATION	CONTACT DETAILS
10	Sri. Sandeep Patil Addl. Commissioner of Police (L & O) West, Bengaluru, Government of Karnataka	Off: 22200902/ 22942259 Mob: 9480801002 E-mail: addlcpwest@ksp.gov.in
11	Dr. B R Ravikanthe Gowda Joint Commissioner of Police (Traffic), Bengaluru, Government of Karnataka	Off: 22862222/ 22942276 Mob: 9480801006 E-mail: addlcptraffighbcp@gmail.com
12	Sri. K.T Balakrishna DIGP, KSF& ES, Government of Karnataka	Off: 22971567 Mob: 82778333999 E-mail: digp.ksfes@ka.gov.in
13	Sri. Anup A Shetty DCP (L&O) North East Bengaluru City Police Government of Karnataka	Off: 23632002 Mob: 9480801064 E-mail: dcpnortheast@ksp.gov.in
14	Sri. Sachin Ghorpade DCP (Traffic) North Bengaluru City Police Government of Karnataka	Off: 22942411 Mob: 9480801133 E-mail: dcptraffcnorth@gmail.com
15	Sri. K P Ravikumar DCP (Intelligence) Bengaluru City Police Government of Karnataka	Off: 22200920 Mob: 9480801032 E-mail: dcpintbcp@ksp.gov.in
16	Sri. H Manjunath Babu DCP (VVIP Security) Bengaluru City Police Government of Karnataka	Off: 22280020 Mob: 9480801022 E-mail: dcpvipsec@ksp.gov.in
17	Sri. Yuva Kumar Senior Commandant, KSRP 11 th Battalion	Off: 08172 - 250019 Mob: 9480805811
18	Sri. K Ramachandra DCP, (Control Room), Bengaluru City Police Government of Karnataka	Off: 22942338 Mob: 9480801004

SENIOR OFFICER CENTRAL SERVICES

SL NO	NODAL OFFICER	ALTERNATE NODAL OFFICER
1	Sri. Mayank Agarwal Regional Director, Atomic Centre (Emergency Response Centre) Mob: 8987571609	Sri. Mukesh Kumar Scientific Officer Mob: 7022775494
2	Sri. Mahesh Chandra Ladha IG, KK Sector, CRPF Hyderabad Mob: 9493799335	Sri. Himanshu Kumar DIG, Group Centre, CRPF, Bengaluru Mob: 8917292663
3	Sri. Padmanand Thakur DIG, CISF, Bengaluru Mob: 7338444820	Dr. C Dhananjay Nayak Senior Commandant, CISF Mob: 932349934
4	Sri. Zahid Khan Senior Commandant, NDRF 10 th Battalion, Guntur Mob: 7382299621	Sri. Niranjana Singh 2IC Dy Commandant, NDRF 10 th Battalion, Guntur Mob: 8860008024
5	Sri. Chandrashekar Sreenivas VSM General Manager – Operations (Airsides, AOCC and Baggage) Bangalore International Airport Mob: 8106266672	

DISASTER / EMERGENCY MANAGEMENT

SL. NO.	DESIGNATION	CONTACT DETAILS
1	Smt. Vandita Sharma Chief Secretary, Government of Karnataka	Off: 22252442/ 22033300 E-mail: cs@karnataka.gov.in officeofcs@gmail.com
2	Dr. Rajneesh Goel Additional Chief Secretary, Home Department Government of Karnataka	Off: 22258830/ 22033456 E-mail: prs-home@karnataka.gov.in

SL. NO.	DESIGNATION	CONTACT DETAILS
3	Sri. Anil Kumar T K Principal Secretary, Revenue Department (DM), Government of Karnataka	Off: 22032995 Mob: 9448464333 E-mail: Secy.dm@gmail.com
4	Sri. C H Pratap Reddy Commissioner of Police, Bengaluru City Police Bengaluru, Government of Karnataka	Off: 22942215/ 22260222 Fax: 22374022 Mob: 9480801001 E-mail: compolbcp@ksp.gov.in
5	Sri. Tushar Giri Nath BBMP Chief Commissioner, Government of Karnataka	Off: 22221286 Mob: 9741288825 E-mail: comm@bbmp.gov.in
6	Dr. Manoj Rajan Commissioner KSDMA, Revenue Department (DM), Government of Karnataka	Mob: 9448290282 E-mail: manoarya@gmail.com
7	Sri. Dayananda K A Deputy Commissioner & District Magistrate, Bengaluru District	Off: 22211292 Mob: 9449649019 E-mail: deo.bangaloreu@gmail.com

NODAL OFFICERS & ALTERNATE NODAL OFFICERS

SL. NO.	DEPARTMENT	NODAL OFFICER	ALT NODAL OFFICER
1	District Administration	Sri. Dayananda K A Deputy Commissioner, District Magistrate, Chairman DDMA Off: 22211292 Mob: 9449649019	Sri. Krishnamurthy T N Addl. Deputy Commissioner Off: 22211106 Mob: 9448482970 & Sri. Shivanna Asst. Commissioner & SDM, North Subdivision Bengaluru Urban District Mob: 9513513156
2	Police	Sri. Anoop Shetty Deputy Commissioner of Police, Bangalore North East Division Mob: 9480801064	Sri. Manjunath Asst. Commissioner of Police, Yelahanka Sub Division Mob: 9480801070

SL. NO.	DEPARTMENT	NODAL OFFICER	ALT NODAL OFFICER
3	Police Traffic	Sri. Sachin Ghorpade Deputy Commissioner of Police Traffic North Division Mob: 9480801133	Sri. Panduranga D Asst. Commissioner of Police, Traffic Yelahanka Sub Division Mob: 9480801073
4	CRPF	Dr. S K Mishra DIG Medical Mob: 9480388674	Sri. Murali Krishna 2IC Range CRPF Mob: 7587323014
5	BBMP	Smt. P.V Poornima Joint Commissioner Yelahanka Mob: 8296870597	Sri. S. P. Ranganath Chief Engineer Yelahanka Mob: 9480684473
6	BDDS State Intelligence	Sri. Thomas Mathew SP BDDS Mob: 9449878566/ 9945935932	Sri. Mallkajappa Sub Inspector (Intelligence Officer) BDDS Mob: 7795791961
7	Fire Services	Sri. R Mahesh Chief Fire Officer, Bengaluru West Zone. Mobile no: 9449478178	Sri. B M Thirumalesh Regional Fire Officer North Zone Mob: 9341776119
8	Sub Division (North) Administration	Sri. Shivanna AC & SDM North Sub Division Mob: 9513513156	Sri. Anil Kumar Tahsildar Yelahanka Taluk Mob: 9845149689
9	Sub Division (South) Administration	Sri. Raghunandhan AC & SDM South Sub Division Mob: 8867788454	Sri. Dinesh Tahsildar South Taluk Mob: 9845411333
10	Atomic Energy	Sri. Mayank Agarwal Regional Director Mob: 8987571609	Sri. Mukesh Kumar Scientific Officer Mob: 7022775494
11	CCT-ISD	Lt. Conl Rohith Nayak Dy Director CCT Mob: 9797593504	Sri. Jagadish Rao B.B Inspector CCT Mob: 8147734808

SL. NO.	DEPARTMENT	NODAL OFFICER	ALT NODAL OFFICER
12	Health	Dr. M Chalvaraj Dy Director Medical Mob: 9945240013	Dr. Indhira Khabade DHO Mob: 8310180831
13	NDRF	Sri. Senthil Kumar Asst Commandant Mob: 7995497907	Sri. Harish Chand Pandey Inspector Mob: 7091770510
14	Information & Public Relation	Smt. Pallavi Honnapur Deputy Director Mob: 9480841219	Smt. Sowmya Information Asst Mob: 9845411051
15	BESCOM	Sri. Chan Kesha Murthy Executive Engineer Mob: 9449844607	Sri. Putta Shamaya Asst Executive Engineer Mob: 9448279084
16	BWSSB	Sri. Bharath Kumar Executive Engineer North Circle Mob: 9845444139	Sri. Ramesh Asst Executive Engineer North Circle -2 Mob: 9740984163
17	PWD	Sri. Yathiraj C S Executive Engineer Mob: 9448174090	Sri. Prasad Asst Executive Engineer Mob: 9844207079
18	RTO	Sri. Chandrashekar RTO Yelahanka Mob: 9448864050	Sri. Srinivas IMV Mob: 9036820339
19	Zilla Panchayath	Sri. Ramesh.D.O Executive Officer, Taluk Panchayath, Bengaluru North Mob: 9880539643	Sri. Amaraiah Asst. Director Yelahanka Bengaluru North Mob: 7892687924
20	Fisheries	Sri. Chikkanna Deputy Director Mob: 9972189781	Smt. Reena Asst Director Mob: 9590135993
21	NHAI	Col. Janbhez Project Director Mob: 9945131911	Sri. Mayur Manager Technical Mob: 9405604823
22	Electrical Inspectorate	Sri. Bhima Shankar Chief Inspector Mob: 9886459789	Sri. K Nagaraj Addl Chief Inspector Mob: 9972002324

DEPARTMENTAL NODAL OFFICERS FOR OFF-SITE DISASTER MANAGEMENT

SL. NO	NAME OF THE OFFICER AND DESIGNATION	DEPARTMENT
1	Sri. M. Chandra Sekhar Addl. Commissioner of Police - East, Bengaluru City Mob: 9480801010	Police - Law & Order & Traffic
2	Dr. Harish Kumar K Special Commissioner (Admin), BBMP Mob: 9448549197	BBMP
3	Smt. R Latha Deputy Commissioner, Bengaluru Rural District, Mob: 9483546898	Revenue - Bengaluru Rural
4	Sri. K Shivakumar Director, Fire & Emergency Services Mob: 9448233955	Fire & Emergency Services
5	Ms. S. Emily Prabha Jr. Scientific Officer KSNDMC Revenue Department (DM) Mob: 97420 58508	KSNDMC
6	Sri. Nagoor Kani Group Head KSRSAC E- Governance Dept. Mob: 9591377744	KSRSAC
7	Wing Commander Kalan Shakti AI 2023- AERO Cell AF Station Yelahanka, Bengaluru Mob: 9878322126	IAF
8	Wing Commander Lahane Security, AF Station Yelahanka, Bengaluru Mob: 9405589648	
9	Group Captain Ankit Raj Singh OIC DM Air Force Station Yelahanka Mob: 9677804434	
10	Squadron Leader Senin Basheer 2IC DM Air Force Station Yelahanka 7259203661	
11	Sri. Prabath Shah AGM (Security) Hal Mob: 9480809130	HAL

List of Deputy Incident Commander & Assistant Incident Commander

SL. NO	DEPARTMENT	DEPUTY INCIDENT COMMANDER	
		NAME AND DESIGNATION	MOBILE NO.
1	Police Law & order	Sri. Anoop Sheety Deputy Commissioner of Police, Bangalore North East Division	9480801064
2	Police Traffic	Sri. Sachin Ghorpade DCP, North Traffic Division	9480801133
3	Fire & Emergency Services (Including SDRF & Civil Defence QRT)	Sri. R Mahesh Chief Fire Officer, Bengaluru West Zone.	9449478178
4	NDRF	Sri. Sukhendu Dutta Deputy Commandant	7003982093
5	Health and Family Welfare	Dr. Randeep D Commissioner Health & Family Welfare	9449843003
6	BBMP	Smt. P.V Poornima Joint Commissioner, Yelahanka Zone.	8296870597
7	Revenue Department (DM)	Sri. Dayananda K A Deputy Commissioner, Bengaluru District	9449649019
8	HAL	Sri. Prabath Shah, AGM	9480809130

SL. NO	DEPARTMENT	ASSISTANT INCIDENT COMMANDER	
		NAME AND DESIGNATION	MOBILE NO.
1	Police Law & order	Sri. Balaji Yelahanka Inspector	9480801415
2	Police Traffic	Sri. Panduranga Rao ACP Yelahanka	9480801073
3	Fire & Emergency Services (Including SDRF & Civil Defence QRT)	Sri. B M Thirumalesh Regional Fire Officer North Zone	9341776119

SL. NO	DEPARTMENT	ASSISTANT INCIDENT COMMANDER	
		NAME AND DESIGNATION	MOBILE NO.
4	NDRF	Sri. J Senthil Kumar Assistant Commandant	9482978719
5	Health and Family Welfare	Dr. Indhira Khabade DHO	8310180831
6	BBMP	Smt. Swayam Prabha Superintendent Engineer (SWM) Yelahanka Zone	9480688293
7	Revenue Department (DM)	Sri. Krishnamurthy T N Addl. Deputy Commissioner, Bengaluru Urban	9448482970
8	HAL Fight Safety	Sri. Mallikarjun Chief Manager	9480809113

SL.NO.	DEPARTMENT	FIRST ALTERNATIVE	
		NAME AND DESIGNATION	MOBILE NO.
1	Police Law & order	Sri. Anand Nayak Yelahanka New Town Inspector	9480801416
2	Police Traffic	Sri. Raghavendra Babu Police Inspector	9480801933
3	Fire & Emergency Services (Including SDRF & Civil Defence QRT)	Sri. Maruthi Regional Fire Officer, Bengaluru West Zone.	7411610241
4	NDRF	Sri. Harish Chand Pandey Inspector	7091770510
5	Health and Family Welfare	Dr. Manohar N DSO, Bengaluru Urban	9449042433 9449843037
6	BBMP	Sri. Shivegowda Deputy Commissioner, (Revenue)	9480685227
7	Revenue Department (DM)	Sri. Shivanna Assistant Commissioner, North Sub-Division, Bengaluru Urban District.	9513513156
8	HAL	Sri. S G Mane Lt Col Retd) DGM(S)	9480809003

NODAL OFFICER DETAILS

SL. NO	DEPARTMENT	NODAL OFFICER	
		NAME AND DESIGNATION	MOBILE NO.
1	BWSSB	Sri. Vageesh Addl. Chief Engineer, North	9740984170
2	RTO	Sri. Chandrashekar RTO Yelahanka	9448864050
3	ZP (Urban)	Sri. Sangappa CEO, Zilla Panchayath, Bangalore Urban	9480852000 9731930970
4	ZP (Rural)	Sri. Srinath Gowda Executive Officer, Doddaballapur Taluk Panchayath	9964798713
5	Bengaluru Urban	Sri. Shivanna Assistant Commissioner, North Sub-Division, Bengaluru Urban District.	9513513156
6	Bengaluru Rural	Sri. Tejas Assistant Commissioner, Doddaballapur Sub-Division	7899899444

SL. NO	DEPARTMENT	FIRST ALTERNATIVE OFFICER	
		NAME AND DESIGNATION	MOBILE NO.
1	BWSSB	Sri. Bharath Kumar Executive Engineer North Circle	9845444139
2	RTO	Sri. Srinivas, IMV	9036820339
3	ZP (Urban)	Dr. N. Nomesk Kumar DS, Zilla Panchayath, Bangalore Urban	9986251669

SL. NO	DEPARTMENT	FIRST ALTERNATIVE OFFICER	
		NAME AND DESIGNATION	MOBILE NO.
4	ZP (Rural)	Sri. Vasanth Executive Officer, Devanahalli Taluk Panchayath	9663045369
5	Bengaluru Urban	Sri. Anil Kumar Tahsildar Yelahanka Taluk Bengaluru Urban District	9845149689
6	Bengaluru Rural	Sri. Shivaraj Tahsildar, Devanahalli Taluk, Bengaluru Rural District.	9448670134

SL. NO	DEPARTMENT	SECOND ALTERNATIVE OFFICER	
		NAME AND DESIGNATION	MOBILE NO.
1	BWSSB	Sri. Ramesh Asst. Executive Engineer North Circle -2	9740984163
2	RTO	Sri. Srinivasa PV RTO	9036820339
3	ZP (Urban)	Smt. Apurva K Kulkarni Executive Officer Yelahanka Taluk Panchayath	8197928808
4	ZP (Rural)	Sri. Lakshminarayan Executive Officer, Nelamangala Taluk Panchayath	9148980393
5	Bengaluru Urban	Sri. Shivakumar Spl. Tahsildar, Yelahanka Taluk, Bengaluru Urban District	9620657641
6	Bengaluru Rural	Smt. Mohana Kumari Tahsildar, Doddaballapur Taluk, Bengaluru Rural District	9008404949