

MINISTRY OF LABOUR & EMPLOYMENT
CRISIS MANAGEMENT PLAN-2023 FOR DEALING WITH DISASTER IN
METALLIFEROUS MINES (EXCEPT ATOMIC MINERAL MINES)

Definition – Metalliferous mine includes every mine other than a coal or an oil mine (as per the Metalliferous Mines Regulations, 1961).

Abbreviations - PM: Prime Minister; MOLE: Ministry of Labour Employment; MOM: Ministry of Mines; IBM: Indian Bureau of Mines; DGMS: Directorate General of Mines Safety; NZ, DGMS: Northern Zone, Directorate General of Mines Safety; CNM: Central Nodal Ministry; CMP: Crisis Management Plan; NCMC: National Crisis Management Committee; MHA: Ministry of Home Affairs; MOD: Ministry of Defence; I&B: Information and Broadcasting; IB: Intelligence Bureau; R&AW: Research & Analysis Wing, NSA: National Security Advisor; NDMA: National Disaster Management Authority; CG: Controller General; RCOM: Regional Controller of Mines:

1. APPLICABILITY

This Crisis Management Plan (CMP) of the Ministry of Labour and Employment (MoLE) shall be applicable in the event of disaster in metalliferous mines except Atomic Mineral mines (i.e., this CMP is not applicable for Coal mines, Oil mines and Atomic Mineral mines). For this purpose, any incident originating out of following events shall be termed as DISASTER, if ten or more lives are either lost or threatened in the affected metalliferous mines.

- i. outbreak of fire in an underground mine;
- ii. rush of water/unconsolidated strata into underground workings or inundation of opencast mines;
- iii. premature and uncontrolled collapse of any part of workings, belowground or opencast;
- iv. subsidence due to a fire in underground workings or collapse of underground workings under a village or township;
- v. accidental/unintentional detonation of explosives,
- vi. uncontrolled flow of material or fluid from mineral stack, overburden dump or tailing pond;
- vii. breach of water dams within mine take area;
- viii. breakage, fracture or failure of man winding / man riding system.

2. SENDING FIRST INFORMATION

- a) The Mine Manager/Agent shall send the first information report immediately about the incident (disaster) in the prescribed format (Annexure - I) by fax or e-mail/phone call/WhatsApp to the concerned District Magistrate/District Collector and to the Zonal & Regional or sub-Regional Office as applicable, of Directorate General of Mines Safety (DGMS), under whose jurisdiction the concerned affected mine falls.
- b) The Owner/Nominated Owner/Chief Executive of the company operating the affected mine-lease shall, after due scrutiny and corrections, if required, forward immediately First Information Report in Annexure-I to the DGMS Headquarters Dhanbad.

- c) The Director General of Mines Safety, DGMS after necessary verifications, shall inform about the occurrence of disaster to the Nodal officer (Special Secretary/Additional Secretary/Joint Secretary, as the case may be), Ministry of Labour & Employment. The Nodal officer, in turn shall inform the same to the Secretary, Ministry of Labour & Employment & Central Control Room of Ministry of Home Affairs.
 - d) The Nodal Officer shall also instruct the Control Room Incharge of MoLE/ DDG (NZ), DGMS Ghaziabad to set up the control room at Ministry immediately within an hour.
 - e) The Concerned District Magistrate/District Collector shall immediately inform about the occurrence of the disaster to the Chief Secretary of the State, nearest police station and to hospitals in the vicinity of the mine through telephone/ fax / e-mail/ mobile phone or any other quickest means of communication.
 - f) The Secretary, Ministry of Labour & Employment shall inform about the occurrence of the disaster to Cabinet Secretary/Convenor NCMC and PMO.
 - g) Information to MHA and NDMA Control Rooms should be provided on priority,
- 3. The composition of NCMC as given in the guidelines contained in the revised Crisis Management Plan, 2019 circulated by Government of India is as under –**
- | | | | |
|----|---------------------------------------|---|----------|
| a) | Cabinet Secretary | - | Chairman |
| b) | Secretary / Principal Secretary to PM | - | Member |
| c) | Secretary MHA | - | Member |
| d) | Secretary MoD | - | Member |
| e) | Secretary (Security) | - | Member |
| f) | Secretary (I&B) | - | Member |
| g) | Director, IB | - | Member |
| h) | Secretary, R&AW | - | Member |
| i) | Deputy NSA | - | Member |
| j) | Secretary, NDMA | - | Member |
| k) | Foreign Secretary, MEA | - | Member |

*Joint Secretary (TS Cell), Cabinet Secretariat will be the Convener of the NCMC.

Secretary/Additional Secretary, Ministry of Labour & Employment and Secretary/Additional Secretary, Ministry of Mines will be co-opted as members of NCMC.

4. ROLE OF MINISTRY OF LABOUR & EMPLOYMENT (MOLE), DGMS AND OTHER MINISTRIES:

A. Role of Ministry of Labour & Employment:

- i. The Bureau Head (dealing with DGMS), Ministry of Labour & Employment shall finalize the Crisis Management Plan for dealing with the situation arising out of disaster in metalliferous mines except Atomic Mineral mines and furnish copies of the Crisis Management Plan to the NCMC and to the supporting Ministries/Departments.

- ii. The Secretary, Ministry of Labour & Employment or any officer of the MOLE/DGMS (not below the rank of Joint Secretary) duly nominated by the Secretary, Ministry of Labour & Employment shall co-ordinate activities of all supporting Ministries/Departments during crisis.
- iii. The Secretary, Ministry of Labour & Employment shall constitute a Crisis Management Group immediately after receipt of information about disaster in the mine for reporting all developments to NCMC and seeking its guidance as and when necessary.

B. Role of Directorate General of Mines Safety (DGMS):

- i) The control room established at Ministry of Labour & Employment shall be put into operation by DG, DGMS in consultation with Bureau Head, MOLE, which shall be manned round the clock on 24 hour basis after receipt of information about disaster.
- ii) A control room shall also be established immediately after receipt of information of disaster/major accident, at respective Zonal Office of DGMS under whose jurisdiction the concerned affected mine falls and also at concerned Mine Site. It shall function under the direction of Dy. Director General of Mines Safety of concerned zone. These control rooms shall make a close liaison and shall update the Control room established at the Ministry of Labour & Employment, New Delhi. Further, liaison with various response agencies including the District Police Control Room, NDMA and MHA may also be done.
- iii) The DGMS in consultation with Bureau Head, Ministry of Labour & Employment shall also set up a damage assessment team which will try to reach the site of incidence within 24 hours for assessing the capability of local agencies to respond adequately to the needs of the hour so that the necessity of Central assistance is suggested, responses are augmented and necessary directives to the affected areas are issued.
- iv) The DGMS in consultation with Ministry of Labour & Employment may seek assistance from Ministry of Mines, if required, to co-opt members in Crisis Management Group and in damage assessment team, and for manning the control room. Ministry of Mines shall render the required assistance, if requisitioned.
- v) The MOLE/DGMS shall periodically assess the efficiency of the contingency plan by holding simulation exercises.

5. INCIDENT RESPONSE SYSTEM (IRS)

- A.** Immediately on occurrence of disaster in the mine, the respective management of the mine shall:
 - i. Inform Regional office of the Directorate General of Mines Safety, concerned District Magistrate / Collector / Sub Divisional Magistrate, Local Police Station and other offices as per the statute (in Annexure-1); and
 - ii. Activate their own emergency action plan prepared in pursuance of the statute.
- B.** The Director General of Mines Safety shall send First Information Report to the Ministry of Labour & Employment.
- C.** If less than 20 lives are threatened, Additional Secretary/Special Secretary (as the case may be), Ministry of Labour & Employment shall immediately summon

a meeting of the Crisis Management Group and put into operation its contingency plan. The Crisis Management Group shall meet immediately after the receipt of First Information Report.

- D.** If more than 20 lives are threatened the Secretary, Ministry of Labour & Employment shall report the disaster to NCMC and send a copy of the First Information Report to the members of NCMC.
- E.** The Secretary, Ministry of Labour & Employment shall immediately summon a meeting of the Crisis Management Group and put into operation its contingency Plan. The Crisis Management Group shall meet immediately after the receipt of First Information Report.
- F.** The Dy. Director/Director of Mines Safety, Ghaziabad, nominated as Incharge of MoLE Control Room shall activate the Control Room in the Ministry of Labour & Employment immediately after the receipt of information about occurrence of disaster.
- G.** Control Room Incharge shall inform the District Administration immediately regarding nature, time, location and all other relevant details of the disaster which shall be updated from time to time.
- H.** Control Room Incharge shall inform the In-charge of local NDRF battalion immediately regarding nature, time, location and all other relevant details of the disaster which shall be updated from time to time.
- 6. INCIDENT RESPONSE TEAM (IRT):** On the basis of the IRS, following IRT has been formed giving out specific charter, role and responsibilities of all the concerned functionaries involved in disaster Management. The composition of the Crisis Management Group under Ministry of Labour & Employment will be as under:

a) Secretary (L&E)	- Chairman
b) Special Secretary/Additional Secretary	- Member
c) Joint Secretary (dealing with DGMS)	- Member
d) Director General, DGMS	- Member
(Alternate member: Dy. Director General, NZ, DGMS)	- Member
e) Director/ Dy. Director of Mines Safety, NZ, DGMS	- Member & Nodal officer
f) Representative of CWC (Central Water Commission)/ Mo Jal Shakti*	- Member
g) Representative of IMD (Indian Metrological Dept.)**	- Member
h) Director/Dy. Secretary (dealing with DGMS)	-Member Secretary
i) Representative from NDMA (if more than 20 lives are threatened)	- Member

The Incident Response Team will be mainly responsible for dealing with the situation and reporting all developments to NCMC and seeking its directions / guidance as and when required. Specific role/responsibilities of functionaries/members mentioned above at a), b), c) and d) are given at para 4 and that of e) is given at para 8 d.

*Representative of CWC/Mo Jal Shakti shall give the advance information to the nodal officer regarding release of water from the dams on the upstream side of the mine.

**Representative of IMD shall give the advance information to the nodal officer regarding excessive rainfall/ cloud burst etc. on the upstream side of the mine.

7. CONSTITUTION OF DAMAGE ASSESSMENT TEAM

The following officials shall be members of Damage Assessment Team in addition to any other officer(s) as Secretary (MOLE) may think necessary:

- a) Deputy Director General of Mines Safety of the Concerned Zone where the mine is located
- b) Regional Controller of Mines, IBM
- c) Mine Owner / Nominated Owner / Chief Executive Officer of the Mining Company operating the affected mine-lease.
- d) Director of Mines Safety, DGMS of the Concerned Region where the mine is located – Convener
- e) Director/Dy. Director, Geology & Mining Dept. of concerned State.

8. CONTROL ROOM IN THE MINISTRY OF LABOUR & EMPLOYMENT

- a) A Room at ground floor in Shram Shakti Bhavan, Rafi Marg, New Delhi has been established as Control Room in the Ministry of Labour & Employment.
- b) A desktop with internet connection and video conferencing facility are provided in the control room. Sitting / working arrangement for at least five persons and other furniture has been provided.
- c) Control Room has been provided with communication facilities to communicate with all the stake holders which include mine management at the crisis point, officials of the concerned State Government(s) and other concerned Ministries / Departments of Government of India and with the Control Room of Cabinet Secretariat. The following facilities/equipment shall also be made available in the Control Room:
 - i. Dedicated Land line Telephone, Fax line;
 - ii. Hot Line / RAX;
 - iii. Printer and
 - iv. Photo-copying machine with scanner.
 - v. Dedicated Mobile phone with Social Media connectivity
 - vi. Dedicated Email ID for control room.
- d) Control Room shall be under the control of an officer (Dy. Director/Director) from Northern Zone, Directorate General of Mines Safety authorised and specifically designated for the purpose by DGMS.
- e) Ministry of Labour & Employment and DGMS shall conjointly depute adequate number of teams, each comprising of one officer and one LDC/UDC for manning the control room round the clock during the crisis.
- f) Two vehicles along with drivers shall be arranged immediately by the MOLE/DGMS to ensure round the clock operation of the Control Room.
- g) The telephone and fax number of the Control Room and officers of Ministry of Labour & Employment available at Annexure - III will be sent to all mine managements by DGMS.

- h) Duty roster for control room shall be prepared by Dy. Director/Director of Mines Safety (nominated under clause 5F as above) in consultation with MOLE/DGMS as per Annexure - II.
- i) The names, addresses, telephone numbers, e-mail addresses etc. of following officers / executives / offices shall be kept in the Control Room. This information shall be updated regularly.
- All NCMC members
 - All Officers of Ministry of Labour & Employment
 - Headquarters of all major mining companies and of their Chief Executives / Directors.
 - Telephone numbers of Liaison officers of mining companies.
 - All Central Workshops / Control Rooms of Mining Companies.
 - All Rescue Station, Rescue Rooms and Rescue Room-cum Refresher Training Centres.
 - All Regional, Zonal Offices of IBM and DGMS.
 - Chief Secretaries of all mineral producing states.
 - All District Magistrates / Collectors/ Supdt. of Police of mineral producing districts where mines are located.
 - Major indigenous manufacturers of pumps and rescue appliances.
 - Foreign Consulates of major mineral producing and equipment manufacturing countries like USA, China, Australia, Japan, Germany, France, UK, Russia, Poland, Ukraine etc.
- j) Company wise list of major inventories like Pumps, Pipes, Electrical, Special Safety Equipment, Large Diameter Boring Machines, mobile winders etc. with their location will be maintained in the Control Room which shall be updated at three months interval. Zone-wise data shall be maintained at the Zonal level of DGMS. This data shall be populated on the IDRN (India Disaster Resource Network) portal also.
- k) Personnel requiring to man the Control Room shall be trained adequately to execute Control Room duties.
- l) Other Ministries like Ministry of Coal, Ministry of Mines, Jal Shakti, Petroleum & natural gas, Health and family welfare etc. may also be requested to extend help in crisis.
- 9. CONTINGENCY PLAN :** Contingency plans shall be released by way of conducting physical mock exercise every year or once in two years wherein NDRF, SDRF apart from others also participate.
- 9.1 The Metalliferous Mines Regulations, 1961 framed under the Mines Act, 1952, and orders / circulars made thereunder requires every mine management to make its Emergency Plan or Disaster Management Plan and kept it updated time to time. The existing Contingency Plans shall be implemented by respective mine management in case of a mine disaster.
- 9.2 The following Contingency Plan shall be operated by Ministry of Labour & Employment, duly assisted by DGMS in the event of mine disaster(s). The main objective of this Contingency Plan is to supplement the efforts of mine management in tackling the crisis situation by rendering additional administrative help as may be necessary.

- 9.2.1 The designated DGMS nodal officer at Control room will prepare information in the format given in Annexure – I with due vetting of DG, DGMS and forward the same to the Minister of Labour & Employment, Govt. of India.
- 9.2.2 The designated Nodal officer will immediately activate the Control Room in the Ministry and prepare the duty roster for the Control Room in consultation with MOLE/DGMS. Information regarding formation of Control Room and its Telephone, Fax numbers and e-mail id shall be sent to the following:
- (i) Hon' ble Minister for Labour & Employment
 - (ii) Officials of Ministry of Labour & Employment as at Annexure - III
 - (iii) Members of NCMC.
 - (iv) Chief Secretary of the State where the mine is located
 - (v) District Magistrate/District Collector/Supdt. of Police of the District where the mine is located.
 - (vi) Mine owner/Nominated Owner/Chief Executive Officer of the company operating the affected mine-lease.
 - (vii) Director General of Mines Safety, Dhanbad and Dy. Director General, DGMS of the concerned zone where the mine is located.
 - (viii) Controller General, IBM/Regional Controller of the IBM under whose jurisdiction the mine falls.
 - (ix) Local MLAs, MP, Councillors to prevent rumours and transmitting facts/true information.
 - (x) CAP (Common Alerting Protocol) and ERSS (Emergency Response Support System) may also be utilized for information/awareness generation.

9.2.3 Responsibilities of Members of the Damage Assessment Team:

- a) Deputy Director General, DGMS of the concerned zone shall hold consultation with Mine Owner/Nominated Owner/Chief Executive Officer of the Mining Company operating the affected mine-lease and provide necessary inputs to Bureau Head, MoLE for apprising Secretary (Labour & Employment) about the outcome of such consultation.
- b) Deputy Director General, DGMS in consultation with the Regional Director and mine management will make an assessment whether central assistance is required to deal with situation arising out of the disaster. If Mine Owner / Nominated Owner / Chief Executive Officer of the Mining Company operating the affected mine-lease seeks any help from any agency under the Central Government, the Ministry of Labour & Employment shall immediately take necessary action in that direction and through DGMS inform the mining company about the action taken by the Ministry and follow up action, if any, required to be taken by the mining company.
- c) The members of Damage Assessment Team shall make all possible efforts to reach the site of disaster within 24 hours of receiving information about the same.
- d) The Convener, Damage Assessment Team shall send report with due vetting of DG, DGMS/Deputy Director General, DGMS on daily basis, or at a shorter interval, as the need be, to the Ministry of Labour & Employment and DGMS.
- e) Life-saving essential equipment kit shall be provided to mine in-charge and adequate training need to be given to miners as they are first respondents at incident sites.

- f) NDRF and SDRF personnel shall be trained for mining rescue operations; for this they may be involved / associated during conduct of mock rehearsals.

9.2.4 Information dissemination:

- a) Press Statement, if required, will be issued by Dy. Director General of Mines Safety, Northern Zone, DGMS with approval of Secretary, Ministry of Labour & Employment.
- b) If considered appropriate, Ministry of Labour & Employment, may issue Press Release for disseminating prompt and accurate information to the general public/media through their authorized/nominated spokesperson.

10. ASSISTANCE FROM OTHER AGENCIES

Ministry of Labour & Employment shall apprise the District Authorities, State Government, Ministry of Home Affairs, Ministry of Defence, Ministry of Mines, Ministry of Coal, Ministry of External Affairs, Ministry of Railway, Ministry of Civil Aviation, Ministry of Health & Family Welfare, Ministry of Petroleum & Natural Gas, Ministry of Water Resources or any other ministry / Department for assistance required in —

- Maintaining Law and Order
 - Import of equipment and services of experts
 - Airlift of equipment / evacuation of affected population
 - Transport of men / material by railways
 - Rescue and Medical assistance
 - Any other assistance.
- **District Authority-** In the event of disaster, Nodal officer(MoLE), DGMS will communicate with district authority and solicit their help for maintaining law and order, logistic support, services of SDRF, medical support, fire services etc., which may be helpful in rescue and recovery operation.
 - **State Government-** For seeking assistance from authorities of the state which may be helpful in rescue& recovery operation.
 - **Ministry of Home Affairs-** For seeking assistance for engaging NDRF units, passing instruction to concerned state government for ensuring the maintenance of law and order situation in location where the mine is located for safety and security of mine management and others.
 - **Ministry of defence-** For seeking assistance of Navy (for divers) Army, Air force depending on the consequences of disaster for the rescue & recovery work including airlift of equipment/evacuation of affected population, under water rescue/ recovery work.
 - **Ministry of Mines-** For arranging assistance from the nearby organised sector metal mines for use of inventory of resources available with them and skilled /expert manpower for dealing crisis.

- **Ministry of Coal-** For arranging assistance from nearby coal mines in respect by inventory and expertise for dealing crisis including large dia. deep hole drilling for rescue of underground persons.
 - **Ministry of External Affairs-** For assistance in acquiring imported equipment and expertise from foreign countries to deal with the crisis.
 - **Ministry of Railway-** Assistance speedy transport of the rescue & recovery equipment / items, NDRF / SDRF personal along with rescue brigades as per requirement to deal with crisis. Also extending medical facilities.
 - **Ministry of Health & Family welfare-** for mobilising the resources available with the ministry by maintaining close liaison with concerned state govt. health ministry and passing necessary instructions to the hospitals, institution under them for medical treatment of the injured.
 - **Ministry of Petroleum & Natural Gas-** For assistance from the nearby oil mines for mobilising their resources to deal with crisis such as long hole drilling rigs, fire services, expertise etc.
 - **Ministry of Jal Shakti-** In case of inundation / flooding of the mine by some river, dam etc., the assistance will be required to control the discharge of water on downstream and also to give alert to nearby other mines likely to be affected due to such discharge.
11. First information report of Mine disaster, information about control room at MoLE, contact number of personnel at control room, Key officials of MoLE , New Delhi , Key officials of Headquarters of Dhanbad and all Zones of DGMS and Flow chart have been annexed as ANNEXURE – I,II, III and IV
 12. SOPs for all possible disasters has been prepared and annexed as ANNEXURE-V
 13. DOs & DONTs for various disasters have been prepared and reference of the same has been made in the CMP as ANNEXURE VI, VII & VIII.
 14. Location and capacity of nearest hospital/medical facilities and Location of nearest helipad with latitude/longitude have been annexed as ANNEXURE-IX & ANNEXURE-X.

FIRST INFORMATION REPORT OF MINE DISASTER

- (i) Name and address of the Mine and its Corporate headquarters with Phone and Fax number
- (ii) Name and Mobile No. of Owner / Nominated owner / Chief Executive of the Company operating affected mine-lease
- (iii) Location of local and Main Rescue Stations with their distances from the mine along with Phone and Fax numbers
- (iv) Location, Phone and Fax Nos. of the District Collector and Superintendent of Police.
- (v) Nearest airport and rail-head with their approximate distances from the mine
- (vi) Date and time of disaster and name of person giving first information
- (vii) Type of disaster with possible cause as per first-hand information
- (viii) No. of expected casualties / lives threatened due to the disaster (include a brief description of the mine with depth of working, means of entry, manpower deployed above / below ground at the time of accident), brief description of accident and rescue / recovery plan being implemented.
- (ix) Help required from DGMS / Central Government
- (x) Help required from State Government and any other organization.
- (xi) Nearest location and surge capacity of hospital/medical facilities.
- (xii) Location of nearest helipad with longitude/latitude and relevant details like size, all weather/fair weather etc.
- (xiii) Information shall be given to nearest NDRF Bn, HQ NDRF, NDMA MHA apart for nearest Fire Station etc.

Manager / Owner / CEO / DC / DM

Place :
Phone No. :
Fax No, :
E-mail Address :

Date:
Time :
Mobile No. :

INFORMATION ABOUT CONTROL ROOM AT MINISTRY OF LABOUR & EMPLOYMENT

- (i) Address of Control Room: Adjacent to Union Bank of India,
Ground Floor, Shram Shakti Bhavan,
Rafi Marg, New Delhi-110001
- (ii) Telephone, Fax and E-mail: Shri. Ram Awatar Meena(Nodal Officer)
Telephone- 0120-2711597
Mobile- 9471192159
E-mail- meenaramawatar@gmail.com
- (iii) Name of officials manning the Control Room: DDG, NZ nominates three officers and three staffs from Northern Zone, Ghaziabad in case of any emergency.
(Roster to be prepared at the time of crisis)

Time Period	Name	Designation	Residence Phone No./ Mobile number
06:00 AM to 02:00 PM	1. Shri. Aderela Rambabu	DDMS(Mining) Steno.Grade-I	9491017777
	2. Shri Javed Ali		7983999360
02:00 PM to 10:00 PM	1. Shri. K venugopal Swami	DDMS(Mining) Steno.Grade-I	9434738698
	2. Shri Keshav chand		7004524580
10:00 PM to 06:00 AM	1. Shri. Tikeshwar Mahto	DDMS(Mining) UDC	8982493361
	2. Shri Hailendra singh		9654790050

Vehicle Numbers at Stand by:
(to be displayed at the time of crisis)

Vehicle Number	Driver's Name	Driver's Mobile No.

Control Room In-charge /Designated Nodal Officer

Table 1. CONTACT NUMBER OF PERSONNEL AT CONTROL ROOM

Time Period	Name	Designation	Residence Phone No./ Mobile number
06:00 AM to 02:00 PM	1. Shri. Aderela Rambabu	DDMS(Mining)	9491017777
	2. Shri Javed Ali	Steno.Grade-I	7983999360
02:00 PM to 10:00 PM	1. Shri. K venugopal Swami	DDMS(Mining)	9434738698
	2. Shri Keshav chand	Steno.Grade-I	7004524580
10:00 PM to 06:00 AM	1. Shri. Tikeshwar Mahto	DDMS(Mining)	8982493361
	2. Shri Hailendra singh	UDC	9654790050

Table 2. CONTACT NUMBER OF KEY OFFICIALS OF MINISTRY OF LABOUR & EMPLOYMENT, NEW DELHI

S. No	Name of Officer	Designation	Office Telephone No.	Fax No.	Residential Telephone No.	E-mail address
1.	Ms. Arti Ahuja	Secretary	23710265	23355679	--	secy-labour@nic.in
2.	Dr. Shashank Goel	Additional Secretary	23711495, 23473504			as-labour@nic.in
3.	Ms. Deepika Kachhal	Joint Secretary	23716835	23716835		js-dglw@gov.in
4.	Shri Shivkant Kumar	Deputy Secretary	23753079			shivkant.kumar@gov.in

Table 3. CONTACT NUMBER OF KEY OFFICIALS OF HQ, DHANBAD & ALL ZONES OF DGMS:

Name of Officer (S/Shri)	Designation	Office Telephone No.	Fax No.	Residential Telephone No/Mobile No.	E-mail address
Prabhat Kumar	Director General, DGMS, Dhanbad.	0326-2221000	0326-2221027	0326-2221042, 9470194781	dg@dgms.gov.in dgmsindia@gmail.com pkumar@dgms.gov.in pkdgms1@gmail.com
Shyam Mishra	Director (DMRS), HQ, Dhanbad	0326-2221076	0326-2221027	9431106445	dmsdirector@gmail.com
Mukesh Kumar Sinha	Director (Mining), (CZ), Dhanbad	0326-2221029	0326-2221030	7382620532	mukeshkumar.5971@gmail.com centralzoneexam@gmail.com
UjjwalTah	Dy. Director General, Eastern Zone, Sitarampur	0341- 2510710, 0341- 2514210	0341- 2510717	9425274788	ez.dgms@gmail.com utah@dgms.gov.in ujjwaltah@yahoo.co.in
Irfan Ahmed Ansari	Director (Mining), (EZ), Sitarampur	0341- 2514217	0341- 2510717	6205412401	deorinavaprokash@gmail.com
Aftab Ahmed	Director (Mining), (SEZ), Ranchi	0326-2233022	--	9471191086	aahmad@dgms.gov.in ahmadaftabdgm@gmail.com
B.P. Singh	Director of Mines Safety, Western Zone, Nagpur	0712-2511020	0712-2511021	8373912664	wz.dgms@gmail.com bpsingh064@gmail.com
Pankaj Jain	Director (Mech), (WZ), Nagpur	0712- 2513084	0712-2511021	9412218121	rtmandekar.dgms@gmail.com
S.G.Bhaisare	Director (Mech), (SCZ), Hyderabad	040-27534507	040-27532504	9434346323	sudhirbhaisare@gmail.com
Supriyo Chakraborty	Director (Mining), (SCZ), Hyderabad	040-27534500	--	9404343703	dnbsupriyo@rediffmail.com
Kondabatini Gyaneswar	Dy. Director (Mining), (SCZ), Hyderabad	040-27532502	--	9471192357	kondabattinigyaneswar@gmail.com
M. Bidari	Director (Mining), Southern Zone, Bangalore	080-25355971	080-25355972	9425531972	szddgdgms@gmail.com mbidari@dgms.gov.in
B Dayasagar	Director of Mines Safety, Udaipur Region	0294-2940710, 0294-2465516 (Through PS)	0294-2461925	8275045884	bdayasagar@dgms.gov.in
S.D. Chiddarwar	Dy. Director General, Northern Zone, Gaziabad	0120-2705367	0120-2705365	9407667981	nz.dgms@gmail.com satish_2306@rediffmail.com

Table 3A. IMPORTANT CONTACT NUMBERS OF EMERGENCY RESPONSE SYSTEM

1. NDRF

Designation	Address	Telephone No.	Fax No.	E-Mail
Director General	Directorate General, NDRF, 6th Floor, NDCC-II Building, Jai Singh Road, New Delhi - 110001	011-23438020 011-23438119	011-23438091	dg.ndrf@nic.in
Inspector General	-- Do --	011-23438021	011-23438091	ig.ndrf@nic.in
Deputy Inspector General (Adm/Estt./Works)	--Do--	011-23438140	011-23438091	dig.ndrf@nic.in , dig.scz.ndrf@gov.in ,

South & South Central Zone, Chennai				dig.ss.ndrf@nic.in
	-- Do --	011-23438185	011-23438091	
Deputy Inspector General (Prov/Proc) West Central Zone, RRC Dwarka	--Do--	011-23438023	011-23438091	dig.prov.ndrf@gov.in dig.proc.ndrf@gov.in dig.wcz.ndrf@gov.in
Deputy Inspector General (Ops/Trg./PRO Comn & IT) Director, NDRF Academy	-- Do --	011-23438022	011-23438091	dig.ops.ndrf@gov.in dig.trgops.ndrf@gov.in dir.academy-ndrf@gov.in
Deputy Inspector General East & North East Zone, Kolkata North Zone, Ladowal	--Do--	--	011-23438091	dig.enez.ndrf@gov.in dig.nz.ndrf@gov.in
Financial Advisor	-- Do --		011-23438091	ghalme.vc@gov.in
CMO (SG)	-- Do --	011-23438091	011-23438091	cmo-ndrf@gov.in
Second-in-Command (R&D Cell)	-- Do --	--	011-23438091	gyani16.ndrf@gov.in
Second-in-Command (DDO)	--Do--	--	011-23438091	hq.ndrf@nic.in
Deputy Commandant (OPS)	--Do--	011-23438024	011-23438091	hq.ndrf@nic.in
Deputy Commandant (Trg)	--Do--	011-23438138	011-23438091	hq.ndrf@nic.in
DC (IT/COMN/PRO)	--Do--	011-23438024	011-23438091	deep.del@gov.in
Deputy Commandant (ADM)	--Do--	--	011-23438091	dcadm.ndrf@gov.in
AC(ADM & SO to DG)	--Do--	011-23438118	011-23438091	hq.ndrf@nic.in
AC/MIN	--Do--	011-23438091	011-23438091	hq.ndrf@nic.in
--	--Do--	011-	011-	hq.ndrf@nic.in

		23438091, 011- 23438136	234380 91	
Commandant	1st BN NDRF, Patgaon PO - Azara, Distt. Kamrup Metro, Guwahati- 781017	0361- 2840027	0361- 284028 4	assam01- ndrf[at]nic[dot]in
Commandant	2nd BN NDRF, Near RRI Camp. Haringhata, Mohanpu r, Nadia, (West Bengal) Pin - 741246	033- 25875032	033- 258750 32	wb02- ndrf[at]nic[dot]in
Commandant	3rd BN NDRF, PO- Mundali, Cuttack - Odisha Pin - 754013	0671- 2879710	0671- 287971 1	ori03- ndrf[at]nic[dot]in
Commandant	4th Bn NDRF, PO - Suraksha Campus , Arrakonam , Distt. Ranipet, Tamilnadu- 631152	04177- 246269	04177- 246594	tn04-ndrf[at]nic[dot]in
Commandant	5th Bn NDRF, Sudumbare Taluka Mavel, Distt - Pune (Maharashtra) Pin - 412109	02114- 247001	02114- 247008	mah05- ndrf[at]nic[dot]in
Commandant	6th Bn NDRF, Jarod Camp, Teh-Wagodia, Vadodara, Pin - 391510	02668- 299182	--	guj06- ndrf[at]nic[dot]in
Commandant	7th Bn NDRF, Bibiwala Road, Bhatinda (Punjab) Pin 151001	0164- 2246030	0164 - 224657 0	pun07- ndrf[at]nic[dot]in
Commandant	8th Bn NDRF, Kamla Nehru Nagar, Ghaziabad (UP) Pin - 201002	0120- 2766013	0120 - 276660 12	up08- ndrf[at]nic[dot]in
Commandant	9th Bn NDRF, Bihata Patna, Bihar Pin - 801103	06115- 253942	06115- 253939	patna- ndrf[at]nic[dot]in
Commandant	10th Bn NDRF, Village Kondapavuluru, PO- Surampalli, Gannavaram Mandal Krishna (AP) PIN - 521212	--	--	ap10- ndrf[at]nic[dot]in
Commandant	11 th Bn NDRF, Sanskritik Sankul, Maqbool Alam Road, Varanasi, UP - 221002	0542- 2501202	0542 - 250110 1	up- 11ndrf[at]gov[dot]in

Commandant	12 th Bn NDRF, Itanagar, Arunachal Pradesh-791112	0360- 2999577	0360- 227710 6	bn12[dot]ndrf[at]gov[dot]in
Commandant	13 th Bn NDRF, Ladhowal, Ludhiana, Punjab-141008	0161- 2921304	--	jk13[dot]ndrf[at]gov[d ot]in
Commandant	14 th Bn NDRF, Nurpur, Jassur, Kangra, Himachal Pradesh PIN- 176201	01893- 292602	--	co14[dot]ndrf[at]gov[dot]in
Commandant	15 th Bn NDRF, PO- Gadarpur, Distt-Udhamsingh Nagar, Uttarakhand PIN- 263152	05949- 231199	--	co15[dot]ndrf[at]gov[dot]in
Commandant	16 th Bn NDRF, Near Dada Dev Mandir Road, Sector- 7, Dwarka New Delhi, PIN-110077	011- 20893564	011- 208926 72	co16[dot]ndrf[at]gov[dot]in

2. SDRF

1	Andhra Pradesh	08645- 246600/247185	http://www.apsdma.ap.gov.in/
2	Arunachal Pradesh	8974987127/ 9436074396	http://www.arunachalpradesh.gov.in/
3	Assam	0361- 2237219/2237460, 9401044617	http://sdmassam.nic.in/
4	Bihar	0612- 2294204/2294205	
5	Chhattisgarh	0771- 2221242/2223471	https://revenue.cg.nic.in/Default_En.aspx
6	Goa	0832-2419446 24194097	https://www.goa.gov.in/index.php
7	Gujarat	079-23251900	http://www.gsdma.org/
8	Haryana	0172-2545938	http://hdma.gov.in/
9	Himachal Pradesh	0177-2628940	http://hpsdma.nic.in/
10	Jharkhand	0651- 2446923/2400218 Fax: 0651-2446923	http://www.jharkhand.gov.in/disaster
11	Karnataka	080-22340676	https://www.ksndmc.org
12	Kerala	0471-2331645	http://sdma.kerala.gov.in/
13	Madhya Pradesh	0755- 2441419/4926892	http://www.mp.gov.in/en
14	Maharashtra	022-22027990	https://www.maharashtra.gov.in/1125/Home
15	Manipur	0385-2443441	http://manipur.gov.in/?page_id=1649

16	Meghalaya	0364-2502098	http://megrevenue.dm.gov.in/msdma/msdma_aboutus.html
17	Mizoram	0389-2342520	http://dmr.mizoram.gov.in/
18	Nagaland	0370- 2291120/2291122	http://www.nsdma.gov.in/
19	Odisha	0674- 2534177/0674- 2594176	http://www.osdma.org/
20	Punjab	0172-2749901	
21	Rajasthan	0141- 2227296/5110869/ 2 227084/2385776/7 7	http://www.dmrelief.rajasthan.gov.in/
22	Sikkim	03592-201145	http://sikkimlrdm.gov.in/
23	Tamil Nadu	044- 28593990/2841451 3 28414512 Fax: 044-28528745	http://www.tn.gov.in/tsunami/index.html
24	Telangana	040-23454088	http://fire.telangana.gov.in/
25	Tripura	381- 2416045/2416241	http://tdma.tripura.gov.in/
26	Uttar Pradesh	0522- 2235121	http://rahat.up.nic.in/
27	Uttarakhand	0135-2710334/ 6555523/2710232/ 2710081 Fax: 2710335 9557444486	http://dmmc.uk.gov.in/
28.	West Bengal	033-22143526/ 22535185 Fax: 033-22144005	http://www.wbdma.gov.in/
29	Andaman & Nicobar	0194- 2477261/ 2455165/248 4837	https://southandaman.nic.in/disaster-management/
30	Chandigarh	011- 23831077	http://chandigarh.gov.in/dept_civildf.htm
31	Dadra And Nagar Haveli and Daman And Diu	0260- 2642106/ 0260- 2231377/ Fax: 2230049/ 2230093	http://www.jksdma.org/
32	Jammu and Kashmir	0191- 2549100/ 0191- 2560596	http://www.jksdma.org/
33	Ladakh	01982- 255567	https://leh.nic.in
34	Lakshadweep	04896- 262279/ 262258	https://lakshadweep.gov.in/disaster-management/
35	NCT	011-	http://delhi.gov.in/wps/wcm/connect/doit_d

			m/DM/Home/DDMA/
36	Puducherry	0413- 2253407/ 9442154664/	https://puducherry-dt.gov.in/disaster-management/

3. NDRF RCC

Name of RRC	Landline Number	Mobile Number
NDRF RRC, Port Blair, Andaman	3192289174	9442112269
NDRF RRC, Adayar, Chennai	4424420269	9442112269
NDRF RRC, Vizag Steel Plant, Vishakhapatnam, Andhra Pradesh	--	8333068565 8333068560
NDRF RRC, Fire Station Mahadevapura, Bengluru, Karnatka	--	9482978719 9482978715
NDRF RRC, Shaikpet Sport Complex, Hyderabad, Telangana	4023565666	8333068536 8333068547

4. MHA

CONTROL ROOM MHA (INTERNAL SECURITY)

CONTROL ROOM, MHA (INTERNAL SECURITY)

23092763, 23092885, 23092923, 23093054

23093563, 23093564 & 23093566

FAX NO. 23092398, 23093750

ALL INDIA COVID-19 TOLL FREE –1944(North-East)

E-Mail: iocdm[dot]mha[at]nic[dot]in

5. NDMA

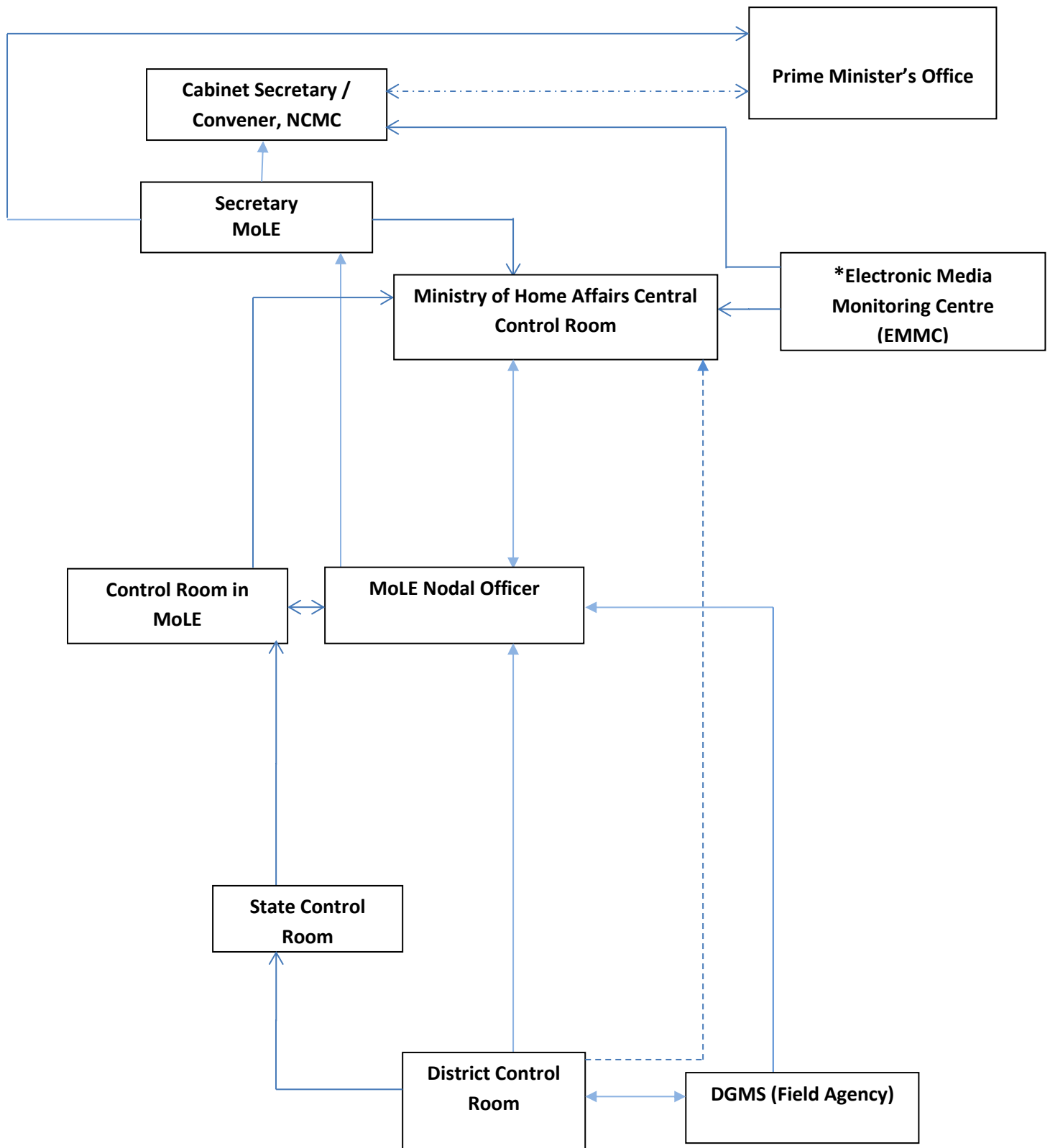
Postal Address:

NDMA Bhawan
A-1, Safdarjung Enclave
New Delhi - 110029

Telephones:

+91-11-26701700 (Mon-Fri - 9:30AM-6:00PM)
Control Room: +91-11-26701728 (Mon-Fri 24X7)
Fax: +91-11-26701729
E-mail: controlroom@ndma.gov.in

ANNEXURE-IV



*EMMC inputs will be used by the MHA Central Control Room for further formal confirmation/ detailing by DGMS

**SOP for disaster due to Fire, spontaneous heating, influx of noxious gases;
Inundation and Dump/Slope failure in mines**

DIRECTORATE GENERAL OF MINES SAFETY (DGMS)

DHANBAD, JHARKHAND

Contents

Introduction

This Standard Operating Procedure (SOP) shall be applicable in the event of disaster in Metalliferous mines (Except atomic & fuel mineral mines). For this purpose, any incident shall be termed as DISASTER, if ten or more lives are either lost or threatened in the affected mine. The Standard Operating Procedure (SOP) is a compilation of the below mentioned procedures.

The set of procedures from serial number 1 to 7 shall be the same for all the above mentioned three disasters.

Only the evacuation procedure (serial number 8) shall be different for the different types of disasters.

Set of Procedures

- (1) Response Procedure- Sending First Information
- (2) Establishment of control room at the mine and procedures therein
- (3) Establishment of control room at the Zonal office of DGMS and procedures therein
- (4) Inspection of the Site of Disaster by DGMS officers
- (5) Entry into mines during rescue or recovery work
- (6) Review by DMC
- (7) Briefing the press, public and trade unions
- (8) Evacuation Procedures

1.0 Response Procedure- Sending First Information

- 1.1 The Mine Manager/Agent shall send the first information report immediately about the incident (disaster) in the prescribed format (Annexure - I) by fax or e-mail/phone call/WhatsApp to the concerned District Magistrate/District Collector and to the Zonal & Regional or sub-Regional Office as applicable, of Directorate General of Mines Safety (DGMS), under whose jurisdiction the concerned affected mine falls.

- 1.2 The Owner/Nominated Owner/Chief Executive of the company operating the affected mine-lease shall, after due scrutiny and corrections, if required, forward immediately First Information Report in Annexure-I to the DGMS Headquarters Dhanbad.
- 1.3 The Director General of Mines Safety, DGMS after necessary verifications, shall inform about the occurrence of disaster to the Nodal officer (Special Secretary/Additional Secretary/Joint Secretary, as the case may be), Ministry of Labour & Employment. The Nodal officer, in turn shall inform the same to the Secretary, Ministry of Labour & Employment & Central Control Room of Ministry of Home Affairs.
- 1.4 The Nodal Officer shall also instruct the Control Room Incharge of MoLE/ DDG (NZ), DGMS Ghaziabad to set up the control room at Ministry immediately within an hour.
- 1.5 The Concerned District Magistrate/District Collector shall immediately inform about the occurrence of the disaster to the Chief Secretary of the State, nearest police station and to hospitals in the vicinity of the mine through telephone/ fax / e-mail/ mobile phone or any other quickest means of communication.
- 1.6 The Secretary, Ministry of Labour & Employment Shall inform about the occurrence of the disaster to Cabinet Secretary/Convenor NCMC and PMO.
- 1.7 Owner, Agent or Manager or Senior-most officer (called principal official) then present at the surface of the mine shall immediately-
 - (i) inform the mine rescue services serving the mine for necessary assistance;
 - (ii) summon rescue trained person employed in the mine;
 - (iii) inform the owner, agent or manager of nearby mines to make available the services of rescue trained persons employed therein: if so required;
 - (iv) summon medical assistance;
 - (v) inform the rescue station superintendent about the nature of the occurrence, stating whether assistance would be needed from the rescue station;
 - (vi) inform nearest fire station in case such assistance is required;
 - (vii) put into operation the Emergency response and evacuation plan.
- 2.0** Soon after receiving the information of the disaster, DDG of concerned zone after consultation with DG shall form a Disaster Managing Committee (DMC) consisting of representation at least one each from the DGMS, Mine-Management, Scientific/Technical Institution and Worker's Union to advise/guide/instruct in writing, to the mine control room in-charge regarding the line of action of Rescue and Recovery work, in a bound paged book kept for the purpose.

- 2.1 The members of the DMC shall meet as per the requirement to plan the various activities to be done for Rescue and Recovery work. They may take opinion of experts while taking decision during the rescue and recovery operations.

3.0 Establishment of control room at the mine and procedures therein

- 3.1 A control room shall immediately be established on the surface near to the mine entrance by the Mine Management under the charge of Owner or Agent or Manager or Principal Official then present at the surface of the mine.
- 3.2 The Owner/Nominated Owner/Chief Executive/Safety Head of the company operating the mine, concerned Director/Dy. Director of DGMS shall reach the mine as soon as possible. Shortly thereafter, charge of control room shall be taken over by the Nominated Owner/Chief Executive/Safety-Head of the company who will make a roster of duties of officers and other competent persons and depute them in the three shifts to deal with the emergency arising out of the disaster.
- 3.3 Directors/Deputy Directors shall be deputed in the mine in the three shifts to guide the management in Rescue and Recovery work as per the requirement as decided by the DDG, of the concerned zone.
- 3.4 All the instructions issued by DMC, entered in a bound-paged register maintained at the control room, shall be signed by the member giving such instruction.
- 3.5 The control room in-charge of the mine shall enter, in the above said bound-paged register, detailed stepwise activities done during rescue and recovery work. He shall not leave the control room till his successor takes the charge and after clearly writing the planned instruction for the next shift & signing at the end of his report in the said bound-paged register.
- 3.6 All rescue and recovery work at a mine shall be conducted under the direct control, direction and supervision of the General Manager of the Area/Head of Internal Safety Organisation (ISO) of the concerned company.

4.0 Inspection of the Site of Disaster by DGMS officers

- 4.1 Soon after the disaster, if the situation permits members of DMC and other officers as authorised by DDG shall inspect the site of the disaster and report to DDG/DG, DGMS about the occurrence & the rescue and recovery operations. The inspecting officer(s) immediately after the inspection shall record their observations in the bound paged book kept for the purpose.

5.0 Entry into mines during rescue or recovery work

- 5.1 Owner, Agent or Manager of the mine shall ensure that during the course of rescue or recovery work, person(s) shall be stationed at all the entrances to the affected

area and shall keep a written record of all persons entering and leaving such area and the time thereof.

- 5.2 No person other than required for rescue and recovery work shall be allowed to enter the mine premises unless written authorisation by the Mine Control Room in-charge.
- 5.3 Only competent persons trained for the purpose shall only be permitted to enter the mine for the purpose of disaster management.

6.0 Parallel Review by DMC

DMC shall review the following important events, like-

- 6.1 Whether adequate Rescue teams with their equipment and apparatus have arrived at the site or else consult the Rescue Station Superintendent and Owner/Agent/Manager of the adjoining mines to send their help, with timings;
- 6.2 Whether fire fighting officers with their team have arrived at the site or else consult the nearest Fire Station;
- 6.3 In case of inundation, whether adequate pumping arrangement is available? if not, consult with the concerned organisation for expected assistance;
- 6.4 Whether all possible medical assistance is available at the site? if not, consult with the nearest hospital to assist the mine with the required medical assistance;
- 6.5 Whether Police and Security personals have arrived at the site and taken charge of the situation? If not, inform the nearest Police Station and the Police Headquarters of the district about the disaster,
- 6.6 Relief Operations: Whether supply and distribution of relief material is being taken care by the management/district authorities? Shortage of any specific material to be brought into knowledge of the DGMS and in turn to the top management personnel of the company.
- 6.7 Duty Cards: Whether duty cards have been prepared and issued to all concerned persons associated with the disaster management?
- 6.8 Technical Consultation: The DMC shall consult with technical or scientific or academic institutions, if required, on the various aspects of rescue and recovery to identify and assess the location, extent, consequences, cause & effects of the disaster and nature of the assistance that shall be extended to trapped persons or the mine.

7.0 Briefing the press, public and trade unions

- 7.1 Only the Director General/ Nominated Owner or the person authorized by them in this regard shall brief the press, public and trade unions regarding progress of rescue/recovery.
- 7.2 **The Standard Operating Procedure shall remain in force till rescue and recovery operations are completed.**

8.0 Evacuation Procedures

In emergency arising from fire, spontaneous heating, influx of noxious gases:

- a) Any person who notices smoke/flame or other signs of spontaneous heating/fire, in the panel, shall immediately inform nearby official i.e. Mining Mate /Foreman/Asst. Manager of the panel.
- b) Mining Official present on duty, on getting information shall immediately inform by telephone provided in the panel or through special messenger and immediate senior official viz. Foreman/Asst. Manager present in the panel or available nearby in underground. He shall also simultaneously supervise withdrawal of persons from the above Panel and gather all persons in FAB. After verifying and checking that all persons have been collected at FAB, all persons other than those necessary for dealing with fire shall proceed for surface along the travelling Road of the panel/escape route.
- c) Foreman/Asst. Manager along with persons who have been retained for dealing with fire will arrange for repair/erection of stopping to short circuit/improve the ventilation. He shall also simultaneously arrange for extending pipe ranges for quenching of fire to the site from existing range.
- d) He shall also arrange for local power to be cut off from transformer station.
- e) Telephone operator shall give message to all concerned persons as detailed in emergency organization.
- f) Emergency shall be declared by the Manager/Principal Officer present at the surface who shall initiate emergency organization plan into action, if he feels necessary to do so.
- g) Quantity of air shall be increased only on getting permission of the Manager. Ventilation Officer shall collect samples at hourly intervals near site of fire. He shall also monitor fan water-gauge, amperage and speed of the motor of fan.
- h) In case fire is of local nature and not electrically initiated, fire fighting shall be done by Foreman/Asst. Manager from intake side by sand or by water under pressure or by any fire extinguisher.
- i) Fire extinguisher and sand are kept available at Panel. If the above local method of fire fighting is unsuccessful or the fire is of very extensive nature, decision to tackle shall be taken in accordance with the decision arrived at by consultative committee.
- j) Decision regarding reversal of air current should be left at the discretion of consultative committee.
- k) The persons shall be withdrawn in an orderly manner without any panic or chaotic situation.
- l) Persons shall normally be withdrawn via intake roadway/incline. He should judge judiciously the escape route to be followed considering the position of occurrence and intensity of emergency.
- m) The mine officials superior to mining Mate and Foreman shall exercise the general supervision over the withdrawal of persons.
- n) The Mining Official to be the last person during the withdrawal of person from U/G to Surface.

In emergency arising from inundation:

- a) Any person who notices unusual seepage of water in underground working shall at once intimate the fact to the nearest Mining Mate, Foreman or any other mine official. Near the pit bottom he shall at once inform the on setter and any other mine official present nearby.
- b) Any person who notices overflow of Dam/sump in shall at once intimate the fact to the nearest Mining Mate / Foreman or any other mine official. He shall inform the telephone operator immediately form the nearest telephone.
- c) Mining Official present on duty, on getting information shall immediately inform by telephone provided in the panel or through special messenger and immediate senior official viz. Foreman/Asst. Manager present in the panel or available nearby in underground.
- d) He shall also simultaneously supervise withdrawal of persons from the above Panel and gather all persons in FAB. After verifying and checking that all persons have been collected at FAB, all persons other than those necessary for dealing with fire shall proceed for surface along the travelling Road of the panel/escape route.
- e) Telephone operator shall give message to all concerned persons as detailed in emergency organization.
- f) Emergency shall be declared by the Manager/Principal Officer present at the surface who shall initiate emergency organization plan into action, if he feels necessary to do so.
- g) The persons shall be withdrawn in an orderly manner without any panic or chaotic situation.
- h) Persons shall normally be withdrawn via intake roadway/incline. He should judge judiciously the escape route to be followed considering the position of occurrence and intensity of emergency.
- i) The mine officials superior to mining Mate and Foreman shall exercise the general supervision over the withdrawal of persons.
- j) The Mining Official to be the last person during the withdrawal of person from U/G to Surface.

In emergency arising from dump/slope failure:

- a) Any ground movement detected by any customised method of slope monitoring in the mine or any person who notices any movement in the dump-bench/slope alongside the development of any unusual/significant crack in the dump/slope, shall at once intimate the fact to the nearest Mining Mate, Foreman or any other mine official. He shall inform the telephone operator immediately form the nearest telephone.
- b) Telephone operator shall give message to all concerned persons as detailed in emergency organization.
- c) Emergency shall be declared by the Manager/Principal Officer present at the surface who shall initiate emergency organization plan into action, if he feels necessary to do so.
- d) The persons including machineries shall be withdrawn in an orderly manner without any panic or chaotic situation.

- e) The mine officials superior to mining Mate and Foreman shall exercise the general supervision over the withdrawal of persons.
- f) The Mining Official to be the last person during the withdrawal of person from U/G to Surface.

**Dos & Don'ts to prevent
disasters due to Inundation**

S No.	Do's
1	Every entrance into a mine shall be so designed, constructed and maintained that its lowest point (which means the point at which a body of rising water on surface can enter the mine) shall be not less than 1.5 meters above the highest flood level at that point.
2	Each mine shall be critically examined for its proneness to inundation and assessment regarding danger of inundation and precautions to be taken should be reviewed and updated yearly preferably before the onset of the monsoon. The recommendations may be deliberated in the (Pit) Safety Committee of the mine and information disseminated as widely as possible.
3	Mechanism may be developed for warning mines about impending heavy rains similar to warning of impending cyclone issued in coastal areas for taking necessary action. Also coordination with concerned agencies/departments about opening of dams in the rivers on the upstream side should be examined.
4	All workings made vertically below any mine or any spot lying within a horizontal distance of 15 meters from either bank of a river or canal or from the boundary of a lake, tank or other surface reservoir shall be clearly demarcated belowground.
5	Surface excavation or disturbance in or near major sources of water, which are connected or are likely to be connected to belowground workings should be filled up completely.
6	The height and width of any below ground working within a distance of 60 meters of any other working (not being a working which has been physically examined and found to be free from accumulation of water or other liquid matter or any material that is likely to flow when wet)) shall not exceed 2.4 meters and there shall be maintained at least one bore-hole near the centre of the working face, and sufficient flank bore-holes on each side and where necessary, bore-holes above and below the working at intervals of not more than five meters.
7	The highest flood levels and danger levels at least 1.2 meters or as required by the Regional Inspector, below the highest flood level, shall be permanently marked at appropriate places on the surface and whenever water rises towards the danger level at any place.
8	Fixation of danger mark of water level, effectiveness of the signalling and communication system should receive particular attention.
9	There is need for fore-warning the mines about possible impending heavy rains, similar to the warning of impending cyclone issued in coastal areas.
10	All disused pits, potholes and surface subsidence existing in the vicinity of river or surface source of water and where there is a danger of inundation present, shall be sealed by reinforced concrete seals or other suitable effective means.

11	To assess the danger of inundation in mines from shifting of water course, it is necessary that every water course is re-surveyed and correlated with the workings belowground.
12	Suitable infrastructure at area level may be provided for drilling advance boreholes to detect presence of waterlogged workings in advance.
13	If there are water dams or reservoirs built across rivers and water courses on the upstream side of the mine, arrangements shall be made for communication between appropriate authorities for the purpose of ascertaining the quantity and timing of water released from the dams which is likely to endanger safety of the mine.
14	Embankments provided against river and jore to guard against inundation should be designed properly keeping in view the engineering parameters. The details of such construction should be properly shown in the underground plan and water danger plan.
15	Detailed precautions against inundation may be laid down while working beneath or in the vicinity of river and major water bodies. This may include framing and implementing standing orders for safe withdrawal of persons, including system of information both manual and automatic, effective communication system and system of safe and timely withdrawal of persons to safety.
16	Winding system serving as sole means of ingress and egress may be made constantly available even in adverse weather conditions, failure of steam or electricity or any other reasons.
17	Before the onset of monsoon, a careful assessment of the danger of inundation from surface water should be made before the rainy season.
18	Effective communication may be established within the mine and between mines for safe withdrawal of persons. Necessary standing orders in this regard need to be framed and enforced.
19	Recommendations of 6th Conference on Safety in Mines to evolve suitable cadre structure for mine surveyors and up gradation of their skill by availing facilities at various institutions, appointment of qualified surveyors and providing infrastructure including computerised facility at area level to oversee survey work of the mine etc. may be implemented.
20	R&D efforts should be continued to develop a system for construction of water-tight chamber as last refuge belowground in case of inundation.
21	Standing Orders for withdrawal of persons from the mine in case of apprehended danger should be framed and enforced. All concerned should be made familiar with the Standing Orders. Mock rehearsals should be held for this purpose' once at least in every month during the rainy season.
22	A competent person shall, once at least in every fourteen days during the rainy season and once at least in every thirty days during other periods of the year, examine every protective measure.

**Dos & Don'ts to prevent
disasters due to Inundation**

S No.	Don'ts
1	Highest Flood Level (HFL) shall not be plotted on plans by interpolations.
2	Working shall not be made in any mine vertically below any part of any river, canal, lake, tank or other surface reservoir.
3	No working which has approached within a distance of 60 meters of any other working (not being a working which has been physically examined and found to be free from accumulation of water or other liquid matter or any material that is likely to flow when wet), whether in the same mine or in an adjoining mine, shall be extended further except with the prior permission in writing of the Chief Inspector and subject to such conditions as he may specify therein.
4	Pits should not be left abandoned without properly securing at the collar level.
5	There should be no horizontal transfer of property between two mines.
6	No working until the inter-mine barrier is effective and strong enough. Also, this may be reinforced artificially by constructing suitable dams, explosion proof stoppings and other suitable methods.
7	Working shall not be made in any spot lying within a horizontal distance of 15 meters from either bank of a river or canal or from the boundary of a lake, tank or other surface reservoir.
8	Until and unless there is an effective communication system over and above the signalling system between the surface and underground, which remains in operation even with failure of electricity; there is scope for mishap due to communication failure.
9	No water should be allowed to accumulate in the old workings of any mine.
10	No working shall be allowed where the present workings have reached the cautionary zone of 120m as per Water Danger Plan until and unless the physical barrier/parting between such workings is proved by latest geo-physical methods based on ground penetration radar system.
11	De-activation of the institution of safety committee and the workmen's Inspector should not be allowed.
12	Whenever seepage of water which is not normal to the seam is noticed at any place in any working or if there be any such suspicion or doubt, such working shall immediately be stopped and necessary precaution shall be taken

Dos & Don'ts to prevent disasters due to Dump/Slope failure

S No.	Do's
1	Continuous monitoring of strata behaviour shall be done with available technology.
2	Geologically disturbed areas shall be mined only with scientific guidance.
3	In big mining projects, any deviation while execution of actual mining plan shall be taken up with due regards to safety.
4	DGMS Technical Circular on "Design, Control and Monitoring of Pit and Dump Slopes in opencast mines" issued vide No. 02 of 2001 and No.2 of 2010 shall be followed.
5	In presence of aquifers advanced dewatering of the strata ahead of mineral faces
6	Project Report of any Project forms its base and must be prepared for the entire project instead of piecemeal reports formed in stages.
7	commencement of extraction of mineral to be taken only after completion of de-capping of OB dump.
8	Mineral extraction, handling/re-handling the OB dump shall be done only after obtaining permission from DGMS under statute.
9	Institutions like Safety Committee and Workmen's Inspector shall be effectively activated as per the statutory provisions.
10	Adequate supervision cover both from the principal employer and contractor shall be ensured.
11	Planners should clearly specify in detail all operations like manner of extraction, place of dumping, layout of dump, layout of roadways for transportations etc required to be carried out in the mine. The estimated cost of the project should also include funds for safety and acquisition of land. The estimated cost of the project should also include funds for safety and acquisition of land.
12	A sufficiently senior officer should be appointed as Manager of the mine to fulfil the statutory requirements of the Act.
13	Role of a Contractor should be limited only to carrying out certain operations in the mine under total control and direction of the Manager.
14	The sides of opencast workings shall be adequately benched, sloped or secured so as to prevent danger from fall of sides.
15	Extreme precaution is to be taken for marking each and every geological disturbances on Geological Plan.

S No.	Don'ts
1	Not to work the mine by advancing in a direction parallel to faults without leaving a barrier of adequate thickness in the in-situe strata based on Scientific Study.
2	Not to work the mine and to take cognizance and to initiate necessary action when cracks on the overlying benches are observed.
3	Not to work the mine in geologically disturbed areas without conducting prior scientific study recommending the method of workings and the special precautions to be taken.
4	Not to Create high internal OB dump in close proximity to workings.
5	Not to Reduce width of barrier/batter against fault plane/OB dump
6	Workings on either side of the fault plane shall not be deepened without leaving barrier of adequate width against fault plane/OB dump.
7	Blasting is to be avoided in area adjacent to fault planes
8	Not to reduce width of barrier/batter against fault plane/OB dump
9	Sense of complacency even after several incidences/indications of slides/failures in the mine shall be avoided
10	Not to work the mine and to take cognizance and to initiate necessary action when cracks on the overlying benches are observed.
11	No tree, loose stone or debris shall be allowed to remain within a distance of three meters from the edge or side of the excavation.
12	No person shall undercut any face or side or cause or permit such undercutting as to cause any overhanging.
13	The height of the benches in overburden consisting of alluvial soil, morum, gravel, clay, debris or other similar ground shall not exceed 3 meters and the width thereof shall not be less than three times the height of the bench.
14	Any spoil bank exceeding 30 metre in height shall be benched so that no bench exceeds 30 metre in height and the overall slope shall not exceed 1 vertical to 1.5 horizontal.
15	No person shall approach or be permitted to approach the toe of an active spoil bank where he may be endangered from material sliding or rolling down the face.
16	The slope of a spoil bank shall be determined by the natural angle of repose of the material being deposited but, in any case, shall not exceed 37.5 degrees from the horizontal.

Do's & Don'ts to prevent blasting disasters :

S.No	Dos
1	Explosives shall be used only in the form they are received.
2	The explosives and detonators of a approved type shall only be used in a mine.
3	Every Magazine of the place used to store explosives shall be under the charge of a competent person.
4	The person in charge of magazine shall maintain an updated record of the receipt and issue of explosives and detonators from a magazine,
5	The preparation of charges and stepping of holes shall be done under the personal supervision of a shot-firer/Blaster only.
6	Detonators once inserted into a priming cartridge shall not be taken out.
7	Explosives shall be blasted with the means or apparatus approved by the Chief Inspector of Mines.
8	Every shot-firing apparatus shall be checked thoroughly by a competent person once in three months.
9	Shots shall be fired only after all the persons have taken proper shelter as per the provisions of the regulations
10	The owner, Agent, Manager of a mine shall take adequate steps to prevent pilferage of explosives during its transport, storage and use.
11	Shot-firers or his helpers shall use conductive type of foot wear.
12	The persons handling explosives shall make themselves free of the static electric charge before handling of explosives or detonators.
13	At the end of the shift the shot firer shall return the unused explosives and detonators in the magazine.
14	At the end of his shift the shotfirer shall record the quantity of explosives taken, used & returned and the place where the shots are fired in a bound paged register kept for the purpose.
15	Appropriate training shall be imparted to the persons handling Explosives.
16	A general pattern of shot-holes shall be worked out to give most satisfactory results and the shot firer should always adopt the same in day to day blasting operations.
17	Store explosives only in the licensed magazine. Always maintain the magazine in good condition.
18	Always maintain transport vehicle in good mechanical & roadworthy condition. Always carry two fire extinguishers in an explosives van.
19	Always return unused explosives after a day's work to the magazine before sunset.
20	Handle carefully the explosives boxes/containers
21	Detonators and explosives shall be transported separately in approved vehicle

S.No	Don'ts
1	Liquid oxygen explosives shall not be used in any mine.
2	No explosive shall be stored or allowed to store within the premises of a mine in variance to the provisions of the Indian explosives Act.
3	Explosives shall not be issued from the magazine to an unauthorised person.
4	Don't transport Explosives in any other vehicle other than a licensed explosive van.
5	Explosives and detonators shall not be kept in the same container and transported.
6	The explosive van transporting explosives shall not be driven at a speed exceeding 20 KMPH.
7	A shot-firer shall not be given any other duty while he was engaged for firing of shots.
8	In charging or stemming of holes no metallic scraper or tool shall be used.
9	No person shall remove an explosive from the shot hole once it has been charged.
10	No defective shot- firing apparatus shall be used.
11	No shot shall be fired in an opencast mine till all the persons within the danger zone have taken proper shelter as per the provisions of the regulations.
12	Mobile phone, electric light or torch shall not be taken into a explosive magazine or store.
13	Shot-firers or his helpers shall not use battery operated watches, mobile phone, synthetic cloths of socks.
14	Don't allow un-authorized persons to handle explosives.
15	Don't transport Explosives in any other vehicle other than a licenced explosive van.
16	Don't store explosives in any other places except licenced magazines approved by a competent authority.
17	Don't transport flammable substances with explosives.
18	Do not transport explosives in the night (from Sunset to Sunrise).
19	Don't throw; drop explosives boxes/containers.
20	Don't transport detonators with other types of explosives.
21	Explosives shall not be taken into or kept in any other building or store other than a duly Licensed Magazine.
22	Explosives shall not be stored belowground of a mine.

ANNEXURE-IX

Location and capacity of nearest hospital/medical facilities

S N o	State	District	Address of Mine	Nearest Hospital	Medical Facilities
1	Andhra Pradesh	Guntur	Krishnapuram Limestone Mine, The India Cements Ltd., Pulipadu village, Dachepalli & Gurajala Mandal, Guntur District, Andhra Pradesh	Health centre with Single bed	One ambulance with Basic Life Support, One ambulance without life support, Seven Oxygen Cylinders, Ventilators & HFNC-One, Pulse Oxymeter, Nebulizers, One bed with pipeline for continuous Oxygen supply,
2		Krishna	Muktyala Limestone Mine, M/s. The KCP Limited, Cement Unit - II, Muktyala (Village), Jaggayyapeta (mandal), Krishna (District), Andhra Pradesh - 521457.	PHC with TWO beds	One ambulance with life support, Five One oxygen concentrators, Five Oxygen cylinders, Two Pulse Oxymeters, Nebuliser
3		Krishna	Jayanthipuram Limestone Mine and Ravirala Limestone Mine of M/s. The Ramco Cements Ltd., KSR Nagar-Post, Jaggayyapet-mandal, Krishna Dist. A.P. 521457		One ambulance without life support, One conventional X-Ray Machine, Three Oxygen Cylinders, Three Oxygen Concentrators, Eight Pulse Oxymeters, Two Nebulizers
4		YSR Kadapa	Coromandal Limestone Mine, The India Cements Ltd., Sy.No: 1117,1225,1300 etc., Chilamkur Village, Yerraguntla Mandal, YSR Kadapa District, Andhra Pradesh	Hospital Provided with three beds	One ambulance with Basic Life Support, One ambulance without life support, Eight Oxygen cylinders, Two Oxygen Concentrators, Three Pulse Oxymeters, Three beds with pipeline for continuous Oxygen supply
5	Assam	Dima Hasao	M/s- Vinay Cement Ltd, Jamunanagar, 16 Kilo, Po-Umrangso, Dist-Dima Hasao, Assam-788931		One ambulance, Ten Oxygen cylinders, One Oxygen Concentrator, Ten Pulse Oxymeters,
6	Chhattisgarh	Baloda Bazar	Shree Cement Limestone Mine, M/s Shree Cement Ltd, Shree Raipur Cement Plant, Village - Khapradih, Tehsil - Simga, Distt.- Baloda Bazar (CG) 493332	OHC with 4 beds.	Ambulance with life support, Digital X-Ray Machine, Oxygen cylinder, Oxygen Concentrator, Pulse Oxymeter, Nebuliser provided,

7		Balrampur	M/s. Hindalco Industries Ltd.(HIL) Samri & Kudag Bauxite Minnes, PO-Kusmi, Dist. Balrampur - 497224 (C.G.)	Hospital Provided with Six beds	Two Ambulances (with Basic Life Support), X-Ray Machine, Five Oxygen cylinders, Ten Pulse Oxymeters, Nebuliser. Six Beded Hospital at Samri Bauxite Mine Dressing room, Audiometry, ECG, PFT, X- Ray room, Pathological Laboratory, Medicine dispensary, Covid isolation ward etc.
8		Bilaspur	CHILHATI LIMESTONE MINE (Nuvoco Vistas Corporation Limited) Village – Pataidih Post: Pachpedi Tehsil Masturi Dist-Bilaspur Chhattisgarh PIN-495001	OHC with 2 beds.	One ambulance with Basic Life Support, Digital X-Ray Machine, Nine Oxygen cylinders, Oxygen Concentrator, Ventilators & HFNC- One, Three Pulse Oxymeters, Two Nebulisers,
9		Durg	Jamul Cement Works Limestone Mine, ACC Limited, Jamul Cement Works, Dist-Durg (C.G)	Hospital provided with 10 beds.	Two Ambulances with life support, One ambulance without life support, Digital X-Ray Machine, Ten Oxygen cylinders, Ten Oxygen Concentrators, Ten Pulse Oxymeters, Three Nebulisers, Five beds with pipeline for continuous Oxygen supply,
10		Janjgir Champa	M/s. nuvoco Vistas Corporation Ltd. Arasmeta & Kirari Limestone Mines, P.O. Gopalnagar, Tehsil : Akaltara Dist. Janjgir Chama - 495663(CG)	2 Beded Hospital at Arasmeta Limestone Mine	Two Ambulances (one with Basic Life Support), Digital X-Ray Machine, Nine Oxygen cylinders, Ventilators & HFNC- One, Three Pulse Oxymeters, Two Nebulisers.
11		Kawardha	Bodai-Daldali Bauxite Mine, M/s BALCO Dist.: Kabirdham (kawardha), Chhattisgarh		Two ambulances without life support, Two Oxygen cylinders, Four Pulse Oxymeters,
12		South Bastar Dantewada	Bailadila Iron Ore Mine Bacheli Complex, M/s NMDC Ltd. P.O. Bacheli, Distt. South Bastar Dantewada (C.G.) PIN 494553	NMDC Apollo Central Hospital 100 beds	Seven ambulances with life support, Five ambulances without life support, Coneventional X-Ray machine, Ninety one Oxygen cylinders, One hundred and twenty pulse Oxymeters, Seven Oxygen Concentrator, Ten Nebulisers,

13	Gujarat	Amreli	M/s UltraTech Cement Limited, Unit: Narmada Cement, Babarkot-I & II Jafarabad Works Village - Babarkot, Taluka - Jafarabad, Dist. Amreli, Gujarat.		Nine ambulances with life support, One ambulance with out life support, Digital X-Ray Machine, Six Oxygen cylinders, Two Oxygen Concentrators, Five Pulse Oxymeters, Two Nebulisers,
14		Gir Somnath	M/S Ambuja Cements Ltd. PO : Ambujanagar-362 715 Tal -Kodinar, Dist- Gir Somnath (Gujarat)	AMBUJA TRUST MULTISPECIALITY HOSPITAL	Four ambulances with life support, Two ambulances with out life support, Digital X-Ray Machine, Seven Oxygen cylinders, Four Oxygen Concentrators, Ten Pulse Oxymeters, Two Nebulisers,
15			M/s Ultratech Cement Ltd, Kovaya Limestone Mines & Talli Bambhor Limestone Mines of Gujarat Cement Works,	Hospital provided with 9 beds.	Ambulances with life support, Two Ambulances with out life support, Digital X-Ray Machine, Six Oxygen cylinders, Two Oxygen Concentrators, Ventilators & HFNC- 1 No on ICU wheels, Ten Pulse Oxymeters, Two Nebulisers,
16	Haryana	Bhiwani	Dadam Stone Mine, Goverdhan Mines & Minerals, Village- Dadam Taluka, Tosham, District- Bhiwani, Haryana		Two Ambulances, Five Pulse Oxymeters, Four Nebuliser.
17	Himachal Pradesh	Bilaspur	ACC Limited Gagal Cement Works, Barmana, Dist - Bilaspur (HP)		One Ambulance with life support, One Ambulance without life support, Digital X-Ray Machine, Two Oxygen cylinders, Two Pulse Oxymeters, Nebuliser.
18	Jharkhand	East Singhbhum	M/s Hindustan Copper Limited (HCL), Indian Copper Complex, Moubhandar, East Singhbhum, Jharkhand- 832103	Seventy bedded hospital.	Three ambulances without life support, Digital X-Ray Machine, Conventional X-Ray Machine, Forty seven Oxygen cylinders, Five Pulse Oxymeters, Nebuliser,

19		West Singhbhum	Rajanka Limestone Mines, M/s ACC Limited, chaibasa Cement Works, PO - Jhinkpani, Dist - West Singhbhum, Chaibasa (Mine code - 360061)		One ambulance with life support, one ambulance without life support, Digital X-Ray Machine, , Seventeen Oxygen cylinders, Ventilators & HFNC- One, Four Pulse Oxymeters, Nebuliser.
20	Kerala	Kollam	M/s Kerala Minerals & Metals Limited,Shankaramangalam,Chavara,Kollam		Three Ambulances with life support, Seventeen Oxygen Cylinders, Three Pulse Oxymeters, Three Nebulizers, Oxygen Plant.
21	Madhya Pradesh	Balaghat	Balaghat Mine, Balaghat District, M.P, M/s MOIL Limited	Twelve (12) bed hospital, MRF Nagpur	Three ambulance with life support, Conventional X-Ray Machine, Five Oxygen cylinders, Two Oxygen Concentrators, Seven Pulse Oxymeter, Two Nebulisers
22		Balaghat	Sitapatore/Sukli Mine, Balaghat District, M.P, M/s MOIL Limited	Three (3) bed hospital, MRF Nagpur.	Two ambulances without life support, Six Oxygen cylinders, Two Oxygen Concentrators, Three Pulse Oxymeters, Four Nebulisers,
23		Balaghat	Malanjkhanda Copper Mine, Balaghat District, M.P, M/s Hindustan Copper Limited	Forty (40) Bedded Hospital for in house use	Two ambulances without life support, Digital X-Ray Machine, Conventional X-Ray Machine, Five Oxygen cylinders, Oxygen Concentrator, Five Pulse Oxymeters, Two Nebulisers,
24		Rewa	M/s Jaiprakash Associates Ltd (JAL), Jaypee Rewa Plant, Jaypeenagar, Rewa (MP)-486450		One ambulance with life support, Two ambulances without life support, Digital X-Ray Machine, Conventional X-Ray Machine, Four Oxygen cylinders, Two Pulse Oxymeters, Nebuliser.
25		Satna	M/s Birla Corporation Limited Satna Cement Works Satna(M.P.)	Health Center provided with 2 beds at Mines-	Two Ambulances without life support, Oxygen cylinders, Oxygen Concentrators, Pulse Oxymeters, Nebulisers provided.

26		Sidhi	Majhgawan Limestone Mines, M/s UltraTech Cement Ltd. (Unit- Sidhi Cement Works), Tehsil-Rampur Naikin, Dist.- Sidhi, Madhya Pradesh- 486776		Ambulance, Digital X-Ray Machine, Twenty Oxygen cylinders, Two Oxygen Concentrators, Fifty Pulse Oxymeters, TwoNebuliser.
27		Sidhi	Budgauna Limestone Mines, M/s UltraTech Cement Ltd. (Unit- Sidhi Cement Works), Tehsil-Rampur Naikin, Dist.- Sidhi, Madhya Pradesh- 486776		Ambulance, Digital X-Ray Machine, Twenty Oxygen cylinders, Two Oxygen Concentrators, Fifty Pulse Oxymeters, Two Nebuliser.
28	Maharashtra	Bhandara	Chikla Mine, Bhandara District, Maharashtra, MOIL Limited	Six (6) bed hospital, MRF Nagpur.	Two ambulances without life support, Seven Oxygen cylinders, Two Oxygen Concentrators, One Pulse Oxymeter, Two Nebulisers,
29		Bhandara	Dongri Buzurg Mine, Bhandara District, Maharashtra, M/s MOIL Limited	Four (4) bed hospital	One ambulance with life support, Two ambulances without life support,, Two Oxygen cylinders, Two Pulse Oxymeter, Nebuliser,
30		Chandrapur	Manikgarh Cement Limestone Mine of M/s. UltraTech Cement Pvt. Ltd., Unit Manikgarh Cement Works, Gadchandur, Dist. Chandrapur	Hospital/Dispensary with single bed	One Ambulance with life support, One ambulances without life support, Digital X-Ray Machine, Three Oxygen cylinders, Oxygen Concentrator, Ventilators & HFNC- One, One Pulse Oxymeter, Nebuliser,
31		Chandrapur	Naokari Limestone Mines of M/s. UltraTech Cement Limited (Unit: Awarpur Cement Works) Village: Naokari, Teh: Korpana, Dist: Chandrapur.		One ambulance with life support, Two ambulances without life support, Digital X-Ray Machine, Twenty Four Oxygen cylinders, Seven (7) Oxygen Concentrators, Ventilators & HFNC- One, Pulse Oxymeter, Nebuliser.
32		Chandrapur	Maratha Limestone Mine of M/s Ambuja Cement Ltd, Upperwahi, Dis- Chandrapur	OHC with 5 beds.	One ambulance with life support, One ambulances without life support, Digital X-Ray Machine, Five Oxygen cylinders, Four (4) Oxygen Concentrators, Twenty

					Five Pulse Oxymeters, two Nebulisers,
33		Mumbai	Kashlog Limestone Mines , Ambuja Cement Ltd, Elegant Business Park, MIDC Cross Road B, Andheri Kurla Road, Andheri (East) Mumbai-400059		Two Ambulances with life support, Digital X-Ray Machine, Four Oxygen Concentrators, One Ventilator -HFNC, Seven Pulse Oxymeters, Nebuliser.
34		Nagpur	Munsar Mine, Nagpur District, Maharashtra, M/s MOIL Limited	Three (3) Bed Hospital ,MRF Nagpur	One ambulance with life support, Two ambulances without life support, Four Oxygen cylinders, Two Oxygen Concentrators, Four Pulse Oxymeters, Two Nebulisers,.
35		Nagpur	Ukwa Mine, Nagpur District, Maharashtra, M/s MOIL Limited	Four (4) bed hospital, MRF Nagpur	One ambulance with life support, Two ambulances without life support, Four Oxygen cylinders, Two Oxygen Concentrators, Three Pulse Oxymeters, One Nebuliser, One bed with pipeline for continuous Oxygen supply, .
36		Yavatmal	Sindola Limestone Mine of M/s. ACC, Sindola,Tah-Wani,Dist- Yavatmal-445307	Hospital with 2 beds.	One ambulance without life support, Digital X-Ray Machine, Three Oxygen cylinders, Oxygen Concentrator, Twenty Six Pulse Oxymeters, Nebuliser,
37	Meghalaya	East Jaintia Hills	M/s Meghalaya Cements Limited, Vill: Thangskai, P.O.- Lumshnong, Dist:- East Jaintia Hills, Meghalaya - 793210	Three bedded hospital.	One ambulance with life support, One ambulance without life support, Oxygen cylinders, Oxymeters, Nebuliser provided.
38		East Jaintia Hills	M/s STAR CEMENT LTD. Lumshnong (Vill./P.O./P.S.), East Jaintia Hills (Distt.), Meghalaya - 793 210.	Hospital facilitate with 04 Bends	Two ambulances with life support, One Digital X-Ray Machine, One Conventional X-Ray Machine, Forty Oxygen cylinders, Two Oxygen Concentrators, Ventilators & HFNC-One, Two hundred Pulse Oxymeters, Ten

					Nebulisers.
39	Odisha	Jajpur	M/s. Indian Metals and Ferro Alloys Ltd.(IMFA), , Kaliapani, Jajpur-755028 (ODISHA)		Three ambulances without life support, Five Oxygen cylinders, Seven Pulse Oxymeters,
40		Jajpur	M/s Tata Steel Mining Ltd, PO Kalaragiatta, Jajpur Dist-755028 Odisha	Dispensary available with 2 Nos of beds.	One ambulance without life support, X-Ray Machine, Ten Pulse Oxymeters,
41		Khurda	M/s. ODISHA MINING CORPORATION LTD., OMC HOUSE, BHUBANESWAR- 751001	4 Hospitals. 19 Nos. of beds	Two Ambulances with Life Support, Eight ambulances without life support, Two Digital X-Ray Machines, Five X-Ray Machines, Thirteen Oxygen cylinders, Twelve Pulse Oxymeters, Three Nebulisers.
42		Koraput	M/s. National Aluminium Company Limited (NALCO), At- Panchpatmali, PO- Damanjodi-763008, Dist: Koraput(Odisha)	30 bedded hospital at township	Three ambulances without life support, Oxygen cylinders, Pulse Oxymeters, Ventilators & HFNC, Nebulisers are provided,
43		Rayagada	M/s Utkal Alumina International Limited, At Doraguda, Kucheipadar Psot Rayagada Dist. Odisha 765015	Hopsital with 80 beds	Three Ambulances with Life Support, Two ambulances without life support, Digital X-Ray Machine, Ninety one Oxygen cylinders, Ventilators & HFNC- 4 Nos, Seventeen Pulse Oxymeters, Nine Nebulisers. Eighty beds with pipeline for continuous Oxygen supply, One Oxygen Plant (100 LPM)
44	Rajasthan	Ajmer	HINDUSTAN ZINC LIMITED, Kayad Mines ,P.O. Kayad Village, Ajmer, Dist. Ajmer- 305023		Ambulance with life support, Five Oxygen cylinders, Twenty Pulse Oxymeters, Two Nebulisers, Five beds with pipeline for continuous Oxygen supply, One Oxygen Plant.

45	Bhiwara	M/S Hindustan Zinc Limited, P.O: Agucha, District - Bhilwara Pin: 311022		Three Ambulances with life support, X-Ray Machine, Hundred Oxygen cylinders, Six Oxygen Concentrators, Five Pulse Oxymeters, Two Nebulisers.
46	Chittorgarh	Bhatkotri Limestone Mine & Dhanora Limestone Mine M/S Wonder Cement Limited , R K Nagar,Nimbahera, 312601(RAJ)	10 Bedded Hospital	Ambulance with out life support, Digital X-Ray Machine, Three Oxygen cylinders, Two Pulse Oxymeters, Two Nebulisers,
47	Chittorgarh	Arniya Joshi Limestone Mine, M/s Nuvoco Vistas Corporation Limited, Chittor Cement Plant, At-Bhawaliya, Teh-Nimbahera, Dist-Chittorgarh, Rajasthan	Occupational Health Centre with ZERO Bed	1. OPD consultation and treatment 2. Alternative and Specialists (Weekly visits by homeopathy physician and Physiotherapist) 3. Emergency and Life Saving Medicine and Equipment, Crash cart, Defibrillator, etc. 4. AC Critical Care Ambulance with dedicated, first aid trained drivers round the clock (with ventilator, patient monitor and other equipment) 5. Laboratory set up with Routine blood test, ECG, Audiometry and Spirometry machines. 6. Examination table and two Observation beds ,Ambulance with life support, Five Oxygen cylinders, Two Oxygen Concentrators, Five Pulse Oxymeters, Nebuliser,
48	Chittorgarh	Birla Cement Works (Unit of M/s. Birla Corporation Ltd) PO: Cement Factory, Madhav Nagar Sector-1 Chanderiya, Chittorgarh 312021	MP Birla Hospital and Research Centre, Chittorgarh (100 Bed with Multispeciality Hospital)	3 Bed OHC Centre at Mines, Three Ambulance with out life support, Two Oxygen cylinders, Pulse Oxymeters, Two Nebulisers,
49	Jamnagar	M/s SHREE DIGVIJAY CEMENT CO. LTD, AT /PO-DIGVIJAYGRAM , JAMNAGAR- 361140	Thirteen bed Hospital	One ambulance with out life support, Fifteen Oxygen cylinders, Four Oxygen Concentrators,

				Fifteen Pulse Oxymeters, Nebuliser, Heart defibrillator machine,
50	Jhunjhunu	M/s Hindustan Copper Limited, Khetri Copper Complex, Khetrinagar, Jhunjhunu, Rajasthan - 333504,	30 no Beds in Hospital	Ambulance , Four Digital X-Ray Machines, Ventilators & HFNC- 1 No, Hundred Pulse Oxymeters, Six Nebulisers, two beds with pipeline for continuous Oxygen supply.
51	Kota	Mangalam Limestone Mine, M/s Mangalam Cement Limited, Aditya Nagar Morak, Kota, Rajasthan- 326520.		Ambulance, X-Ray Machine, Ten Oxygen cylinders, Eleven Oxygen Concentrators, Hundred Pulse Oxymeters, Ten Nebuliser.
52	Kota	ASI Group of Mines (Laxmipura Satalkheri , Khumbhkot, Suket, Atrariya Mine), M/s ASI Industries Ltd., ASI House, Kudayala Industrial Area, Ramganjmandi, Distt Kota (Rajasthan) 326519		Five Oxygen cylinders, Five Pulse Oxymeters, One Nebuliser.
53	Pali	M/s Shree Cement Limited, (Unit III to X), Village-Ras, Tehsil-Jaitaran, District-Pali (Raj.) 306101	Five bedded Hospital	Three Ambulances with life support, Two Digital X-Ray Machines, Four Oxygen cylinders, Three Oxygen Concentrators, Ventilators & HFNC- 1 No, Five Pulse Oxymeters, Two Nebulisers, Five beds with pipeline for continuous Oxygen supply, One Oxygen Plant.
54	Pali	M/s UltraTech Cement Limited, village-Balada, Post-Jaitaran, Dist-Pali, Rajasthan-306102		Two Ambulances with life support, Twenty two Oxygen cylinders, Five Pulse Oxymeters, Two Nebulisers,
55	Udaipur	Zawar Group of Mines M/s Hindustan Zinc Limited, Udaipur, Rajasthan 313901	20 General ward beds & 8 Emergency beds at Zawar Central hospital	Two ambulances out life support, One ambulance with out life support, Thirty two Oxygen cylinders, Two Oxygen Concentrators, Twenty Eight Pulse Oxymeters, Five Nebulisers, Heart defibrillator machine,

56	Tamilnadu	Ariyalur	M/s The India Cements limited, Dalavoi Works, Senduai Taluk, Ariyalur District, Tamilnadu.		One Ambulance with Basic Life Support, Two Oxygen Cylinders, Two Pulse Oxymeter, Nebulizer,
57		Chennai	The Ramco Cements Limited, Auras Corporate Centre, Dr. RadhaKrishnan Salai, Mylapore-600 004.		Three ambulances with life support, One ambulance without life support, One Digital X-Ray Machine, One Conventional X-Ray Machine, Twelve Oxygen Cylinders, Nine Oxygen Concentrators, Fifteen Pulse Oxymeters, Four Nebulizers, Two Oxygen Plants.
58		Tirunelveli	M/S The India Cements Limited, SANKARNAGAR WORKS, TIRUNELVELI (District),TAMILNADU. (Lime kankar mines, Kallurani village)		Two ambulances without life support, Ten Oxygen cylinders, One oxygen concentrator, Three Pulse Oxymeter, One Nebulizer
59	Telangana	Nalgonda	Vishnupuram Limestone Mine, The India Cements Ltd., Wadapally Village, Damaracherla Mandal, Nalgonda District, Telangana	Hnospital provided with single bed	One ambulance with Basic Life Support, One ambulance without life support, Seven Oxygen Cylinders, Ventilators & HFNC-One, One bed with pipeline for continuous Oxygen supply,
60		Peddapalli	M/s. Kesoram Industries Limited Basantnagar (PO), Palakurthy mandal, Peddapalli Dist. Telangana-505187		Two ambulances with life support, Five Oxygen cylinders, One Oxygen concentrator, Five Pulse Oxymeters, Two Nebulizers
61		Suryapet	My Home Limestone Mine, M/s My Home Industries Pvt.Ltd., Sy. No. 874(P) & 876(P) , Mellacheruvu Village, Mellacheruvu Mandal, Suryapet District, Telangana	OHC with 3 beds	One ambulance without life support, Eight Oxygen Cylinders, Five Pulse Oxymeters, Nebulizer,
62	Uttarakhand	Bageshwar	Almora Magnesite Limited P.O Billori District Bageshwar (Uttarakhand)		Ambulance with life support, Two Oxygen cylinders, Five Pulse Oxymeters, Nebuliser, one bed with pipeline for continuous Oxygen supply.

63	Uttarpradesh	Sonbhadra	Julgul-Bhalua Limestone Mine, Dalla Cement works, UltraTech Cement Limited , PO-Dalla (Sonbhadra) UP 231207.	One Ambulance with life support, Two Ambulances without life support, Digital X-Ray Machine, Seven Oxygen cylinders, Four Oxygen Concentrators, Twenty Pulse Oxymeters, Three Nebuliser.
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Location of nearest helipad with latitude/ longitude

Sl. No.	State	District	Name/Address of HELIPAD	Latitude	Longitude
1	Andhra Pradesh	Chittoor	ORR Madanapalle, Andhra Pradesh 517325	13.5794542	78.509252
2		East Godavari	Kakinada Beach Navy Heliport, Kakinada , Andhra Pradesh	17.0226823	82.2882085
3		Nellore	Sri City , Andhra Pradesh 524401	13.576102	80.0382543
4		Nellore	Krishnapatnam North, Nellore, Andhra Pradesh	14.2738445	80.0983461
5		Visakhapatnam	Suvarnakutree Phase II, Vizag, Andhra Pradesh	17.8985473	83.267659
6		YSR Kadapa	Vontimitta, Andhra Pradesh 516213	14.3969134	79.0220394
7		Anantpur	PVKK Institute of Technology, Anantpur, Anantpur District	14°39'30.98"N	77°34'9.65"E
8		Kurnool	Uyyalawada Narasimha Reddy Airport, Orvakal, Kurnool District	15°42'22"N	78°09'39"E
9		Kurnool	Kurnool SAP Camp, Kurnool, Kurnool District	15°51.93'N	77°54.93'E
10	Chhattisgarh	Janjgir	Airport, Arasmeta, PO/PS: Arasmeta, Dist: Janjgir-Champa-495663, C.G.	21.9467242N	82.3427667E
11		Raigarh	Mishra Colony, PO/PS: Kharsia, Dist: Raigarh-496661, C.G.	21°58'49.8"N	83°06'45.6"E
12		Surajpur	Airport, Surajpur, PO/PS: Surajpur, Dist: Surajpur-497229, C.G.	23.2413862N	82.8678799E
13		Surguja	Aeroway Helipad, PO/PS: Ambikapur, Dist: Surguja-497001, C.G.	23.136627N	83.177657E
14		Ahiwara	Dussehra Maidan, Nandini Township, Chhattisgarh	21° 21' 18"	81° 24' 13"
15		Arasmeta	Arasmeta, Chhattisgarh	21°56'48.2"N	82°20'34.0"E
16		Baloda Bazar	BALODA BAZAR, Chhattisgarh	21°39'39"N	82°08'56"E
17		Baloda Bazar	Sonadih Limestone Mines, PO Raseda, Distt Baloda Bazar, Chhattisgarh-Pincode - 493332	21°44' 05"	82°12'43"
18		Bhilai	Helipad near Bhilai Niwas, Civil Center area, Sector 5, Bhilai, Chhattisgarh	21°17'66"	81°33'77"
19		Bilaspur	Foot Ball Ground, Chhattisgarh	18°42'10.6"N	81°15'2"E

20		Chakarbhat a	Chakarbhat(Bilas Devi Kevat Airport), Chhattisgarh	21°59'23" N	82°06'4
21		Dalli Rajhara	Dalli Rajhara, Chhattisgarh	20°34'55.54"N	81°4'32.43"E
22		Durg	Bhilai Airport, Birebhat Road, Birebhat, Dist-Durg, Chhattisgarh	21°29'53"	81°38'15"
23		Kaner	Bhanupratappur, Dist Kanker, Chhattisgarh	20°18'45.5"	81°04'23.9"
24		Korba	Gevra , Chhattisgarh	22°21'6" N	82°34'19" E
25		Korba	Korba, Chhattisgarh	22°21'20" N	82°43'01"E
26		Koria	Nai-Ledri , Koria , Chhattisgarh	23°10'36.4692"	82°11' 50.5464"
27		Kusumund a	Kusdmunda, Chhattisgarh	22°34' N	82°63' E
28		Rajnandga on	Rajnandgaon, Chhattisgarh	21° 5'45.12"N	81°0'23.11"E
29	Goa	Aguada	Sequirem Helipad, Aguada, Goa	15.5161443	73.7350831
30		Ella	Helipad Ella, Goa	15.4855009	73.7794493
31		Quitol	Quitol Helipad, Quitol, Goa	15.1329974	73.9637609
32	Gujarat	Bharuch	ONGC Helipad, ONGC Colony, Ankleshwar, Bharuch	21°38'18.2" N	73°00'49.2" E
33		Bhawnagar	Bhawnagar – Gujarat	21° 45' 08" N	72° 11' 07" E
34		Dwarka	Dev Bhumi Dwarka – Gujarat	22° 15' 16.47" N	68° 57' 43.10" E
35		Gandhinagar	Gandhinagar – Gujarat	22° 28'14 " N	70° 00'33" E
36		Jamnagar	Jamnagar – Gujarat	22° 31'45.5 " N	70° 02'47" E
37		Kutch	Kutch - Gujarat	N 23° 31'46.84"	E 68° 56'41.07"
38		Rajpardi	Sardar Patel Ground,GMDC Colony Rajpardi	21°45'42"	73°13'20"
39		Surat	Mandi collage Tapi river edge, Mandvi, Surat, 28 km from Tadkeshwar.	N-21°15' 19.01"	E-73° 17' 39.76"
40		Surat	Dhamdod Road, Bardoli, Gadhvi Cricket Ground, Bardoli, 32 km from Tadkeshwar	N-21° 07' 55.14"	E-73° 07' 12.48"
41		Surat	Carin Suvali Helibase, Surat Air Port	N 21 Deg 10' 13.34	E72 Deg 39' 00.12"E
42		Vadodara	At GIPCL cricket ground	21°23'25.38" N	73°6'33.81"E
43	Haryana	Bhiwani	Bhiwani Air Strip, Village Gujrani, Bhiwani-Meham Road, Haryana	28°50'07.68"N	76°10'46.20"E
44		Hisar	Police Line, Dehli Byepass Road, Hisar, Haryana	29°10'39.13" N	75°45'17.41" E

45		Karna	Village- Kalveheri, Kunjpura Road, Budha Khera, Karnal, Haryana	29°42'51.44" N	77°02'03.26" E
46		Pinjore	Village- Gariran, Kalka Baddi Highway, Pinjore, Haryana	30°49'33.69" N	76°52'52.72" E
47		Rewari	Bachhod Air Strip, (Off Narnaul- Rewari Highway, Dist- Rewari(Haryana))	28°04'35.62"N	76°12'05.09"E
48		Rohtak	Maharishi Dayanand University Dist-Rohtak, Haryana. Compound Code VJJF+5F Rohtak, Haryana	28.8804024	76.6237351
49	Himachal Pradesh	Barman	ACC Colony DAV School Play ground Barmana ,Himachal Pradesh	31°24'52.70" N	76°49'30.40" E
50		Mandi	Mandi (Paddal), HP	31.42.4	76.56.2
51		Paonta Sahib	Gurudwara Ground, Paonta Sahib, Himachal Pradesh	30.26.9(N)	77.37.22(E)
52		Shimla	Jubbal Dist-Shimla, HP Ref. A.088/26	31°07'.00"	37°39'.5"
53		Sirmore	Kafota, Ponta Shilai Road, HP	30.37.3	77.42.0
54		Solan	Helipad No. 1. Dist- Solan, Himachal Pradesh	31°19'40.907"	76°52'38.355"
55		Solan	Helipad No. 2, Dist- Solan, Himachal Pradesh	31°20'3.455"	76°52'31.218"
56	Jharkhand	Bokaro	Bokaro Airport, Bokaro, Jharkhand	23°38'36"N	86°08'56"E
57		Bokaro	West Bokaro- Ghato, Serving mines of m/s. Tata Steel	23.7902492	85.571162
58		Chaibasa	Chaibasa District of Jharkhand	22.51560 N	85.78750 E
59		Dhanbad	Tata Steel Helipad, Jorapokhar Dhanbad, Jharkhand	23.694099	86.416258
60		Dhanbad	Dhanbad Airport, Barwadda, Dhanbad, Jharkhand	23° 50'02"N	86°25'31"E
61	Karnataka	Kalburgi	Kalburgi Airport, Srinivas Saradagi, Kalburgi District	17°18'28"N	76°57'29"E
62		Bagalkot	Jamkhandi Airport, Jamkhandi, Bagalkot District	16.5099688	75.308184
63		Ballari	Jindal Vijayanagar, Vidyanagar Airport, JSW ,Vidyanagar, Ballari District	15°10'29.898"N	76°38'29.5829"E
64		Ballari	Alipur, Ballari District	15°9'44"N	76°52'59"E
65		Belgavi	Sahayadrinagar Helipad, Hanuman circle, Belgavi, Karnataka	15.844349	74.4303936

66		Bengaluru	Bengaluru HAL Airport Area, HAL Bengaluru, Karnataka 560017	12°56'51.07'	77°40'02.36"
67		Chikmagalur	KADUR BYPASS,8QJV+GRQ Chikmagalur, Karnataka 577101	13°19'52.89'	75°47'40.42"
68		Chitradurga	6C88+X32 IUDP Layout Chitradurga, Karnataka 577501	14°13'02.65"	76°24'54.49"
69		Cokak	Dollars Colony Helipad, Cokak, Karnataka	16.1505956	74.818064
70		Hassan	Udayagiri Extension Hassan, Karnataka 573201	13°00'37.98'	76°07'09.88"
71		Koppal	AHB Airport, Basapur, Koppal	15°21'28.56"N	76°13'9.23"E
72		Mandya	Sir MV Stadium Mandya	12°31'31.93'	75°53'33.05"
73		Mangaluru	Mary Hill, Konchady Mangaluru, Karnataka 575008	12°54'40.03'	74°51'29.89"
74		Mysuru	Lalith Mahal Quatras Mysuru, Karnataka 570010	12°17'39.78"	76°41'31.62"
75		Mysuru	Hebbal Industrial Estate, Hebbal Industrial Area Mysuru, Karnataka 571606	12°22'07.70"	76°35'04.72"
76		Shivamogga	Kuvempu Rd Ashoka Nagar Shivamogga, Karnataka 577202	13°56'05.10'	75°33'33.37"
77		Tumkur	TUMKUR UNIVERSITY CAMPUS VENKATESH RAO COLONY TUMKUR- Karnataka-572103	13°20'18.34"	77°07'08.34"
78		Udupi	Udupi Urban Development Authority - Government office Udupi - Malpe Rd Adi-udupi, Karnataka 576102	13°20'55.92'	74°43'50.05"
79	Kerala	Palakkad	QQQR+326, Pudurssery East, Palakkad (Near Malabar Cement)	10.7876511	76.7900176
80		Elathur	Gandhi Nagar Elathur, Kerala 673303	11°19'30.24'	75°44'46.34"
81		Kollam	Ashram Maidan, Kollam Town, Kollam KERALA	8.8948674	76.5915511
82		Kozhikode	Shabari Building Koombara Kozhikode, Kerala 673006	11°16'00.06'	75°46'46.07"
83	Madhya Pradesh	Annupur	Kotma, Anuppur, Madhya Pradesh	23°11'38"	81°59'17"
84		Balaghat	Pragati ground, Malanjkhanda Balaghat, Madhya Pradesh	22°02'43.6"	80°42'42.10"
85		Balaghat	Durga ground, Balaghat, Madhya Pradesh	21°50'27.3"	80°13'46.53"

86		Betul	Pathakhera, Betul, Madhya Pradesh	22°07'19"	78°06'55"
87		Damoh	Dr. Shyama Prasad Mukharji Nagar, Damoh, Madhya Pradesh	23°49'08.2"	79°26'34.1"
88		Dhar	Narmada Block-J NGO's Narmada Block ,34th Batalion, Sunder Ban Colony, Dhar, Madhya Pradesh 454001,	22° 35' 47.562" N	75° 19' 23.6136" E
89		Jhabua	Helipad Thandla	23 deg.00'05.45"N	74 deg.34'25.63E
90		Katni	Tikariya, Katni, Madhya Pradesh	23° 43' 30.9"	75° 52'36"
91		mandsaur	Helipad, Narayangarh, Madhya Pradesh 458553	24.28000197	75.05875956
92		Narsighpur	Kareli, Narsighpur, Madhya Pradesh	22°04'28.8"	75°51'32.5"
93		Neemuch	Vivekanand Colony, Madhya Pradesh 458110	24.46882871	75.11705324
94		Nimach	Nimach Airport, Madhya Pradesh 458441	24.42599866	74.87136281
95		Rewa	Chorhata, Rewa, Madhya Pradesh	24°30'12"	81°13'13"
96		Satna	Kolgawan Kotwali, Satna, Madhya Pradesh	24°33'26"	80°51'48"
97		Shahdol	Burhar,Shahdol, Madhya Pradesh	23° 01' 74"	81°61'78"
98		Sidhi	Administrative Office, Sidhi Cement Works, UltraTech Cement Limited, PO Bharatpur, Distt- Sidhi , MP	24°19'29"N	81°20'08"E
99		Ujjain	Vikram University, Ujjain, Madhya Pradesh 456010	23.15307194	75.80859135
100		Umaria	Umaria Air field, Madhya Pradesh	23°53'25"	80°08'22"
101	Maharashtra	Chandrapur	Manikgarh cement works township at Gadchandur district	19°43'17"	79°10'20"
102		Chandrapur	Chandrapur Area, M/s. WCL, Murwa, Maharashtra	19°57'00"	79°13'00"
103		Chandrapur	Ballarpur Area, M/s. WCL, FDCM, DEPO playground, Ballarpur, Maharashtra	19°51'7.2"	79°21'28.8"
104		Chindwara	Pench Area, M/s. WCL, Imlikheda, Chindwara, Madhya Pradesh	22°00'00"	78°55'26"
105		Chindwara	Kanhan Area, M/s. WCL, In front of Directors Bunglow, Maharashtra	22°11'16.9"	78°34'34.10"
106		Chindwara	Tansi Mine, Maharashtra	22°09'51.3"	78°20'6.3"

107		Chindwara	Kanhan Area, M/s. WCL, Nandan Wanshry Playground, Maharashtra	22°11'10"	78°27'26"
108		Chipri	Ghodawat Helipad, Jaisingpur, Chipri, Maharashtra	16.765083	74.5106446
109		Indi	Helipad Indi, Maharashtra	17.7615956	72.0236825
110		Kolhapur	DYP Helipad, Kolhapur, Maharashtra	17.8709993	72.6987612
111		Pune	Mahad Helipad, Pune, Maharashtra	18.3152319	73.1026018
112		Pune	Panchshil Helipad, Pune, Maharashtra	18.4899584	73.8086399
113		Pune	Defence Hospital Helipad, Pune, Maharashtra	18.4899713	73.8764933
114		Soundare	Barshi Heliport, Soundare, Maharashtra	18.2243274	75.6379962
115	Odisha	Sambalpur	MCL Helipad, Burla, Sambalpur	21° 29' 17" N	83° 54' 2" E
116		Angul	Eco Park, Jagannath Area, Talcher	20° 56' 16.9" N	85° 10' 9.8" E
117		Angul	Hingula Helipad, Hingula, Talcher	20° 57' 22.92" N	85° 04' 34.32" E
118		Jharsuguda	Belpahar Training Institute Helipad, Lakhanpur Area,	21.769166° N	83.871138° E
119		Koraput	Panchpatmali (C&N Block) Bauxite Mine	18° 49' 31"	83° 00' 7"
120	Rajasthan	Sumerpur	Angor, Sumerpur, Rajasthan 306126	25.14741476	73.09448078
121		Dhaulpur	Bari, Rajasthan	24.62810897	73.65764388
122		Ajmer	Shree Cement Limited, Andheri Deori Heiplad	N26o05',25"	E74o23'10"
123		Ajmer	Kishangarh, Ajmer	N 26°35'28"	E 74°48'58.10"
124		Bara Bhanuja	Bara Bhanuja, Rajasthan 313321	24.96621305	73.61773202
125		Barmer	Uttarlai (VIUT) (Barmer)	N 25°44'09"	E71°26'08"
126		Barmer	Uttarlai (VIUT) (Barmer)	N 25°44'09"	E71°26'08"
127		Bhilwara	Hamirgarh (Bhilwara)	N 25°08'51.96"	E 74°36'37.93"
128		Chittorgarh	Kumbha Nagar, Chittorgarh, Rajasthan 312001	24.88999879	74.61825211
129		Dabok	Bedla House, near Maharana Pratap. Airport, Dabok, Rajasthan 313022	24.62743942	73.88208523
130		Jaipur	Jaipur	N 26°49'	E 75°48'
131		Jaisalmer	Jaisalmer (VIJR),	N26.53°	E70°.52'
132		Jodhpur	Jodhpur (VIJO) (Jodhpur)	N 26°15'	E73°03'
133		Kaloda	Kaloda, Rajasthan 313202	24.86669433	73.67466611
134		Morwar	RK Enterprises, Morwar, Rajasthan 313334	25.11804812	73.79742168

135		NAGAU	J.K.WHITE CEMENT WORKS GOTAN,POST- GOTAN,TEHSIL- MERTA,DIST.- NAGAU,.342902	N27°12.525	E073°42.732
136		Pali	Sojat (Pali)	N 25°.55'58"	E73°.41'08"
137		Pilani	PILANI	28.3496° N	75.5909° E
138		Rajsamand	Kotri Ka Dhana, Rajasthan 313024	24.75228758	73.78806997
139		Sarwai	Sarwai, Rajasthan 327031	23.35118853	73.98687638
140		Sirohi	Sirohi, Rajasthan 307801	24.89173131	72.85068573
141		Sirohi	Sirohi - Jawal Rd, Jawal, Rajasthan 307801	24.98150627	72.75545682
142		Udaipur	Helipad near Pratap Gourav Kendra, Mohanpura, Badgaon, Udaipur, Rajasthan 313011	24.62724966	73.67376119
143		Udaipur	Helipad Pichola, Udaipur, Rajasthan 313001	24.57471851	73.67507173
144		Udaipur	Helipad, Sajjan Nagar, Udaipur, Rajasthan 313031	24.56066817	73.66778513
145		Umrai	Tripura Sundari temple Heliport, Umrai, Rajasthan- 327603	23.53091171	74.32161075
146		ARIYALUR	NALLAMPATTAI HELIPAD, GOVINDAPURAM, ARIYALUR (T.N.) – 621 729	11.19066	79.07784
147		COIMBATO RE	GANGA HELIPAD, S.F.NO.442, SRIRAMA KRISHNA CAMPUS, N.G.G.O. COLONY, VATTAMALAIPALAYAM, COIMBATORE (T.N.) – 641 022	11.09494	76.956
148		Kottamalai	Kottamalai Helipad	12.6575825E	79.0529407N
149	Tamilnadu	Krishnagiri	Government Boys Higher Secondary School , Veerappa Nagar, Krishnagiri, Tamil Nadu 635001	14°22'81.57'	76°21'02.05"
150		Maramang alathupatti	SAIL HELIPAD, M394+GWR, Mohan Nagar, Maramangalathupatti, Tamil Nadu - 636 030	11.68878	78.04018
151		Sivakasi	SIVAKASI HELIPAD,FQ7H+MGW, Rengapa Shyam Nagar, Sivakasi, Tamil Nadu - 626 130	9.46423	77.77882
152		Tiruchirapp alli	QPP4+W8H, Railway Colony, Tiruchirappalli, Tamil Nadu -620 020	10.80202	78.6924

153	Telangana	Hyderabad	Helipad Izzathnagar, Hyderabad, Telangana	17.4728785	78.3759391
154		Hyderabad	DRDO Helipad, Hyderabad, Telangana	17.3354461	78.4967547
155		Mulugu	Helipad Eturunagaram, Telangana 506344	18.3390288	80.432476
156		Rangareddy	Helipad KTPP, Kompalle, Telangana	18.3898971	79.8336607
157		Rangareddy	Helipad Manikonda Jagir, Hyderabad, Telangana	17.4123926	78.3920808
158	Uttar Pradesh	Sonbhadra	Sector A, Township - Dalla, Dalla Cement Works, UltraTech Cement Limited, Post: Robertsganj, Distt: Sonbhadra, UP	24°26'44.2" N	83°2'47" E
159	Uttara Khand	Almora	Army Halipad Almora, Haval bagh, Uttara Khand	29° 35'.26'	79° 39'.4'
160			Lakkampalyam Helipad	11.2259716E	78.1375521 N