

JARDCL

Jharkhand Accelerated Road Development
Company Limited

Emergency Preparedness & Response Plan

Patratu Dam - Ramgarh Road Project

Office : 204/C, Road No.01, Ashok Nagar,

Ranchi-834002 (Jharkhand)

Table of Contents

ONSITE EMERGENCY CONTACT NUMBERS3

ONSITE EMERGENCY CONTACT NUMBERS (Elsamex Maintenance Services Ltd.)3

ONSITE EMERGENCY CONTACT NUMBERS4

 Police Station:.....4

 Fire Brigade:4

 Hospitals :4

 Blood Banks (24 Hours) :5

 Ambulance (24 Hours) :5

 Chemist (24 Hours) :6

 Other Important Numbers:6

1.0 INTRODUCTION7

2.0 OBJECTIVE.....7

3.0 SCOPE7

4.0 KEY TERMS.....8

5.0 EMERGENCY SITUATIONS.....8

6.0 EMERGENCY ORGANIZATION STRUCTURE.....9

7.0 DISASTER PROCEDURES FOR STAFF MEMBERS.....9

8.0 PREPAREDNESS, RESPONSE & RECOVERY11

ONSITE EMERGENCY CONTACT NUMBERS

Project Manager: JRPICL

- Mr. Gautam Tandasi +91-9771431400

Project Manager: (O&M)

- Mr. Gaurav Ravi, +91-7781014190 (Ranchi)

Deputy Manager: (O&M)

- Mr. Mithilesh Mishra, +91-7781002283 (Ramgarh)

Safety Engineer & SQO: RPR-II

Emergency Type	Contact Person (O&M)	Contact No.
Sudden breakdown of lifting machine	Mr. Saranjeet Ram / Mr. Amit Kumar	+91-7033090643
Fire and explosion on highway	Mr. Saranjeet Ram / Mr. Amit Kumar	+91-7033090643
Natural Calamity like Earth Quake, Land Slide, Flooding on the highway etc.	Mr. Mithilesh Mishra	+91-7781002283
Personnel Falling from Height	Mr. Saranjeet Ram / Mr. Amit Kumar	+91-7033090643
Collapse of structure etc.	Mr. Mithilesh Mishra	+91-7781002283
Gas leakage or spillage of dangerous goods or chemicals on the highway	Mr. Gaurav Ravi	+91-7781014190
Bomb threat, Criminal or Terrorist attack	Mr. Gaurav Ravi	+91-7781014190

ONSITE EMERGENCY CONTACT NUMBERS

Sr	Key Personnel	Mobile no
01	Mr. Gaurav Ravi (Project Manager)	+91-7781014190
02	Mr. Mithilesh Mishra (Site Incharge, RPR-II)	+91-7781002283

03	Mr. Saranjeet Ram / Mr. Amit Kumar <i>(Route Patrolling Officer , RPR-II)</i>	+91-7033090643
04	Md. Emamul Ansari / Bipin Sharma <i>(Para Medical Officer, RPR-II)</i>	+91-7033090644

ONSITE EMERGENCY CONTACT NUMBERS***Police Station:***

Sr	Name of Organization	Telephone no
01	Traffic Police (Ranchi District)	+91-9431706172
02	Police Control Room (Ranchi District)	100, 0651-2316855
03	Basal Police Station	+91-9934307206
04	Patratu Police Station	+91-9431145469
05	Bhadaninagar Police Station	+91- 9431765433
06	Ghutuwa Police Station	+91- 9431065490
07	Bhurkunda Police Station	+91-9771800100
08	Ramgarh Police Station	+91-9431706319
09	Traffic Police	+91-8986678983

Fire Brigade:

Sr	Name of Organization	Telephone no
01	Ramgarh Fire Station	+91-9955909604

Hospitals :

Sr	Name of Organization	Telephone no
01	Rims Bariyatu	0651-2541228, 9431701374
02	Apollo hospital	0651-2275717/ 2275899

03	Indian Red Cross Society	0651-2360290/2308587
04	E.S.I. Hospital	0651-2261569
05	Brindaban Hospital, Ramgarh	06553-224516

Blood Banks (24 Hours) :

Sr	Name of Organization	Telephone no
01	RIMS Blood Bank	0651-2541533
02	Birsa Blood Bank	0651-2542437
03	Redcross Society	0651-2360290/2308587
04	SDA, Mission Hospital	0651-3093831
05	CCL, Blood Bank	0651-2230353
06	Brindaban Hospital, Ramgarh	06553-224516

Ambulance (24 Hours) :

Sr	Name of Organization	Telephone no
01	Highway Ambulance Service (JARDCL)	7033090644
02	RIMS, Bariyatu	0651-2541228
03	Nargarmal Modi Seva Sadan	0651-2207406
04	Appolo Hospital:	0651-2275699/ 2275899
05	Indian Red Cross society	0651-2360290
06	Brindaban Hospital, Ramgarh.	06553-224516

Chemist (24 Hours) :

Sr	Name of Organization	Telephone no
01	Ojha medical hall, Bhadaninagar	+91-9934189136
02	Agarawal Medical Store, Barkakana	+91-9973499655
03	Goodhealth Medico, Ramgarh	+91-9279090050, +91-8987718008
04	Anshu Medico, Ramgarh	06553-221330

Other Important Numbers:

Sr. No.	Name of Organization	Telephone no
01	DC, Ramgarh	+91-9431160001
02	SDM, Ramgarh	+91-9431150776
03	S.P, Ramgarh	+91-9431706113
04	DSP, Ramgarh	+91-9431182817

1.0 INTRODUCTION

Emergency means sudden / unexpected situation which may lead to any major accident or fire and may result in loss of life or property, damage or serious impact on environment.

A system shall be drawn up in anticipation of incidents of some magnitude and the persons involved shall be trained so as to function well when an emergency occurs. Having such a system in place would call for immediate action as and when the crisis occurs. Evacuation procedures are allied to this system.

Emergency Preparedness and Response Plan lays down the code of conduct for all personnel in the premise and the procedures to be adopted by them in the event of an “**Emergency.**” The individuals under the direction of the respective department heads and designated volunteers shall carry out the responsibilities assigned.

It is suggested that all personnel read these procedures and have the same registered in their mind to ensure orderly & discipline action and to ensure the safety of the personnel, plant & machinery.

2.0 OBJECTIVE

- The purpose of Emergency Preparedness and Emergency Plan is to familiarize all the employees with the organizational set-up to combat an emergency arising on the site.
- This plan is also framed in order to develop a permanent infrastructure of the trained personnel & suitable facilities to meet probable eventualities which may affect the safety of people working for the company or other people in and on the vicinity of the project area.
- This plan aims at the reduction of the consequences of major incidents on the site.

3.0 SCOPE

This Emergency Preparedness and Response Plan (EPRP) is designed to link all the emergency scenarios that have been identified as possibly occurring at Patratu Dam - Ramgarh Road Project (herein after referred to as the project) during development, including implementation, monitoring, supervision, review, design and development of the Project. Each of the identified risks arising out of the emergency situation has a sub plan prepared to link each risk category to a standard response and management system. Emergency helpline nos display board installed at 3Km on either side of road.

The EPRP is applicable to all the construction activities carried out at Project for both day and night time operations. The EPRP is also applicable to the movement of project personnel to and from the identified locations, on the way to and from the duty assignment.

Equipment & Manpower are deployed at site for O&M purpose.

Equipment: - Patrolling vehicle for 24hours services having fire extinguisher, first aid box for emergency accident and incident,

24 hours Ambulance services.

24 hours Tow Crane services for road lane clearance.

Water tanker facility is available for road side plantation watering.

Manpower:-

2 nos. patrolling staff, paramedical staff is deployed for 24 hours services.

30 nos. labour are deployed in daily routine road maintenance work .

4.0 KEY TERMS

Accident: - Undesired event giving rise to death, ill health, injury, damage or other loss.

Emergency: - An emergency could be defined as any situation which presents a threat to safety of persons and / or property. It may require outside help also.

Emergency Preparedness: - The Emergency Preparedness and Response Plan deals with measures to prevent and control situation in emergencies and take appropriate actions to mitigate within the Site office and different site location and Precinct without affecting outside public or environment.

Hazard: Source or situation with a potential for harm in terms of human injury or ill health, damage to property, damage to the workplace environment or a combination of these.

Ill Health: Identifiable, adverse physical or mental condition arising from and/or made aware by a work activity and/or work related situation

Incident: Event that gave/gives rise to an accident or had the potential for an accident.

Near Miss: An incident where no ill health, injury, damage or other loss occurs is referred to as near miss incident

5.0 EMERGENCY SITUATIONS

The following potential OH&S and Environmental emergencies have been identified at **Patratu Dam – Ramgarh Road Project.**

1. Sudden breakdown of lifting machine
2. Fire and explosion on highway
3. Natural Calamity like Earth Quake, Land Slide, Flooding on the highway etc.
4. Personnel Falling from Height
5. Collapse of structure etc.
6. Gas leakage or spillage of dangerous goods or chemicals on the highway
7. Bomb threat, Criminal or Nexalite attack
8. Riots & Public violence

9. Rock Fall from hill side

6.0 EMERGENCY ORGANIZATION STRUCTURE

In case of an emergency the key functionaries will be as follows:

Sr	Key Personnel	Name	Designation	Mobile no	Alternate No.
01	Emergency Controller & Designated Spokesperson	Mr. Gaurav Ravi	Project Manager	+91-7781014190	
02	Emergency Coordinator	Mr. Mithlesh Mishra	Deputy Manager	+91-7781002283	

A team of fire wardens and first aiders will assist the above personnel along with the Project Managers of the O&M Contractor. The list of trained fire wardens and first aiders shall be maintained with the Emergency Coordinator.

EMERGENCY – KEY PERSONNEL OF THE O&M CONTRACTOR

Sr	Key Personnel	Name	Mobile no	Alternate No.
01	Highway Patrolling Service (Route Patrolling Officer, RPR-II)	Mr. Saranjeet Ram / Mr. Amit Kumar	+91-7033090643	
02	Highway Ambulance Service (Para Medical Officer, RPR-II)	Md. Emamul Ansari/ Bipin Sharma	+91-7033090644	
03	Emergency Response Team Leader (O&M)	Mr. Gaurav Ravi	+91-7781014190	
04	Emergency Coordinator (O&M,)	Mr. Mithlesh Mishra	+91-7781002283	

The important telephone numbers for contacting outside the organization are presented in the initial section of this manual.

7.0 DISASTER PROCEDURES FOR STAFF MEMBERS

- In case an emergency situation is noticed, each personnel are obligated to inform the Emergency Coordinator giving all details related to the situation.
- In the event of either internal or external disaster, the Project Manager, his or her designee, or the Emergency Coordinator shall initiate the emergency response and

recovery process. S/he shall make the required calls as per the emergency contact list.

- Fire wardens and first aiders will initiate action and shall abide by the instructions of the Emergency Response Team Leader.
- All other employees will report to their respective supervisors and shall abide by the assigned responsibilities by the designated key personnel.
- All employees are obligated to respond to the emergency calls anytime of the day / night and assume responsibilities as designated / assigned.
- If a regular work shift ends during the declared emergency period, all staff members will stay at their respective assignments until officially relieved by order of the Project Director / Emergency Coordinator.

8.0 PREPAREDNESS, RESPONSE & RECOVERY

Emergency	Preparedness	Response	Recovery
<p>1. Sudden breakdown of lifting machine</p>	<ul style="list-style-type: none"> - Proper barricade the area - If casualty, provide immediate first aid and shift victim to hospital, if required - Divert the traffic, if required - Security guard arrangement 	<ul style="list-style-type: none"> - Site controller inform to Project In charge as well as mechanical in charge. - Accordingly communication to Police - Required safety arrangement to be done as required - Put security guard till the area is cleared 	<ul style="list-style-type: none"> - Mechanical in charge along with relevant site controller to take necessary arrangement - First aid trained workers to provide first aid to all injured - Admin officer (with help from other workers like ambulance driver) to send injured persons to nearest hospitals - Site controllers to arrange for cleanup of site - Site controllers to investigate loss of property in respective areas - Incident controller along with accountant/ agents to decide amount of financial loss & claim from insurance
<p>2. Fire and explosion on highway</p>	<ul style="list-style-type: none"> - Rescue arrangement to be provided - If injured, provide immediate first aid and shift victim to hospital - Divert the traffic , if required - Security guard arrangement 	<ul style="list-style-type: none"> - Site controller inform Fire station - Site controller inform to Project In charge - Accordingly communication to local Police - Required safety arrangement to be provided as required - Put security guard till the area is cleared 	<ul style="list-style-type: none"> - Fire station in charge along with relevant staff to take necessary arrangement - First aid trained workers to provide first aid to all injured - Admin officer (with help from other workers like ambulance driver) to send injured persons to nearest hospitals - Site controllers to arrange for cleanup of

Emergency		Preparedness	Response	Recovery
3.	Natural Calamity like Earth Quake, Land Slide, Flooding on the highway etc	<ul style="list-style-type: none"> - Always get updated about the weather forecast from weather authority before planning any activity - Call to trained worker for Rescue operation - If casualty, provide immediate first aid and shift victim to hospital, if required - If possible, crane and other equipments may be shifted / marched in a safe place - Divert the traffic , if required - Security guard arrangement 	<ul style="list-style-type: none"> - Inform the local authority and emergency services. - Inform the electrical department to switch off H.T. line, if water level increases rapidly - Arrange for passenger vehicles and start evacuation. If vehicles cannot be operated, start evacuation by walking or running. - Required safety arrangement to be provided as required - Put security guard till the area is cleared 	<p>site</p> <ul style="list-style-type: none"> - Site controllers to investigate loss of property in respective areas - Incident controller along with accountant/ agents to decide amount of financial loss & claim from insurance - Local authority along with relevant staff to take necessary arrangement - First aid trained workers to provide first aid to all injured - Admin officer (with help from other workers like ambulance driver) to send injured persons to nearest hospitals - Site controllers to arrange for cleanup of site - Site controllers to investigate loss of property in respective areas - Incident controller along with accountant/ agents to decide amount of financial loss & claim from insurance
4.	Personnel Falling from Height	<ul style="list-style-type: none"> - Providing adequate strong platform with guardrail - Using proper safety harness - If victim is unconscious, call Ambulance 	<ul style="list-style-type: none"> - Site controller examine the site situation and call for first aid - Site controller inform to Project In charge as well as mechanical in charge. 	<ul style="list-style-type: none"> - First aid trained workers to provide first aid to all injured - Admin officer (with help from other workers like ambulance driver) to send

Emergency	Preparedness	Response	Recovery
	immediately and shift the victim to nearby hospital	<ul style="list-style-type: none"> - In case of fatal accident inform to police station - Required safety arrangement to be done as required 	injured persons to nearest hospitals and Comply with legal and statutory requirement. <ul style="list-style-type: none"> - Site controllers to arrange for cleanup of site - Site controllers to investigate loss of property in respective areas - Incident controller along with accountant/ agents to decide amount of financial loss & claim from insurance
5. Collapse of or structure etc	<ul style="list-style-type: none"> - Get updated about the structure condition surrounding working area. - Aware/ prior information to local public regarding effected structure - Call to trained worker for Rescue operation - If casualty, provide immediate first aid and shift victim to hospital, if required - If possible, crane and other equipments may be shifted / marched in a safe place - Divert the traffic , if required - Security guard arrangement 	<ul style="list-style-type: none"> - Inform the local authority and emergency services. - Inform the electrical department to switch off HT line, if water level increases rapidly - Arrange for passenger vehicles and start evacuation. If vehicles cannot be operated, start evacuation by walking or running. - Required safety arrangement to be provided as required - Put security guard till the area is cleared 	<ul style="list-style-type: none"> - Local authority along with relevant staff to take necessary arrangement - First aid trained workers to provide first aid to all injured - Admin officer (with help from other workers like ambulance driver) to send injured persons to nearest hospitals - Site controllers to arrange for cleanup of site - Site controllers to investigate loss of property in respective areas - Incident controller along with accountant/ agents to decide amount of financial loss & claim from insurance

Emergency		Preparedness	Response	Recovery
6.	Gas leakage or spillage of dangerous goods or chemicals on the highway	<ul style="list-style-type: none"> – Immediately barricade the area. – If casualty, provide immediate first aid and shift victim to hospital, if required – Divert the traffic , if required 	<ul style="list-style-type: none"> – Inform the local authority and emergency services. – Inform the electrical department to switch off electrical supply immediately. – Arrange for passenger vehicles and start evacuation. If vehicles cannot be operated, start evacuation by walking or running. – Required safety arrangement to be provided as required – Put security guard till the area is cleared 	<ul style="list-style-type: none"> – Local authority along with relevant staff to take necessary arrangement – First aid trained workers to provide first aid to all injured – Admin officer (with help from other workers like ambulance driver) to send injured persons to nearest hospitals – Site controllers to arrange for cleanup of site – Site controllers to investigate loss of property in respective areas – Incident controller along with accountant/ agents to decide amount of financial loss & claim from insurance`
7.	Bomb threat, Criminal or Nexalite attack		<ul style="list-style-type: none"> – Leave or avoid the area to prevent possible injury – Move away from the crowd – Do not become a spectator – Inform police for help – If you are entrapped than obey their instructions 	Follow instructions from the Police or Government authorities
8.	Riots & Public violence		<ul style="list-style-type: none"> – Avoid confrontation, be courteous and do not provoke an incident 	Follow instructions from the Police or Government authorities

Emergency	Preparedness	Response	Recovery
9. Rock Fall from Hill side		<ul style="list-style-type: none"> - Leave or avoid the area to prevent possible injury - Move away from the crowd - Do not become a spectator - Inform police for help 	<ul style="list-style-type: none"> - Site controllers to arrange for cleanup of site - Inform camp office for movement of suitable equipment for clearing the site