

Environmental and Social Due Diligence Report

Project Number: 47083-004
September 2021

INDIA: Accelerating Infrastructure Investment Facility in India – Tranche 3

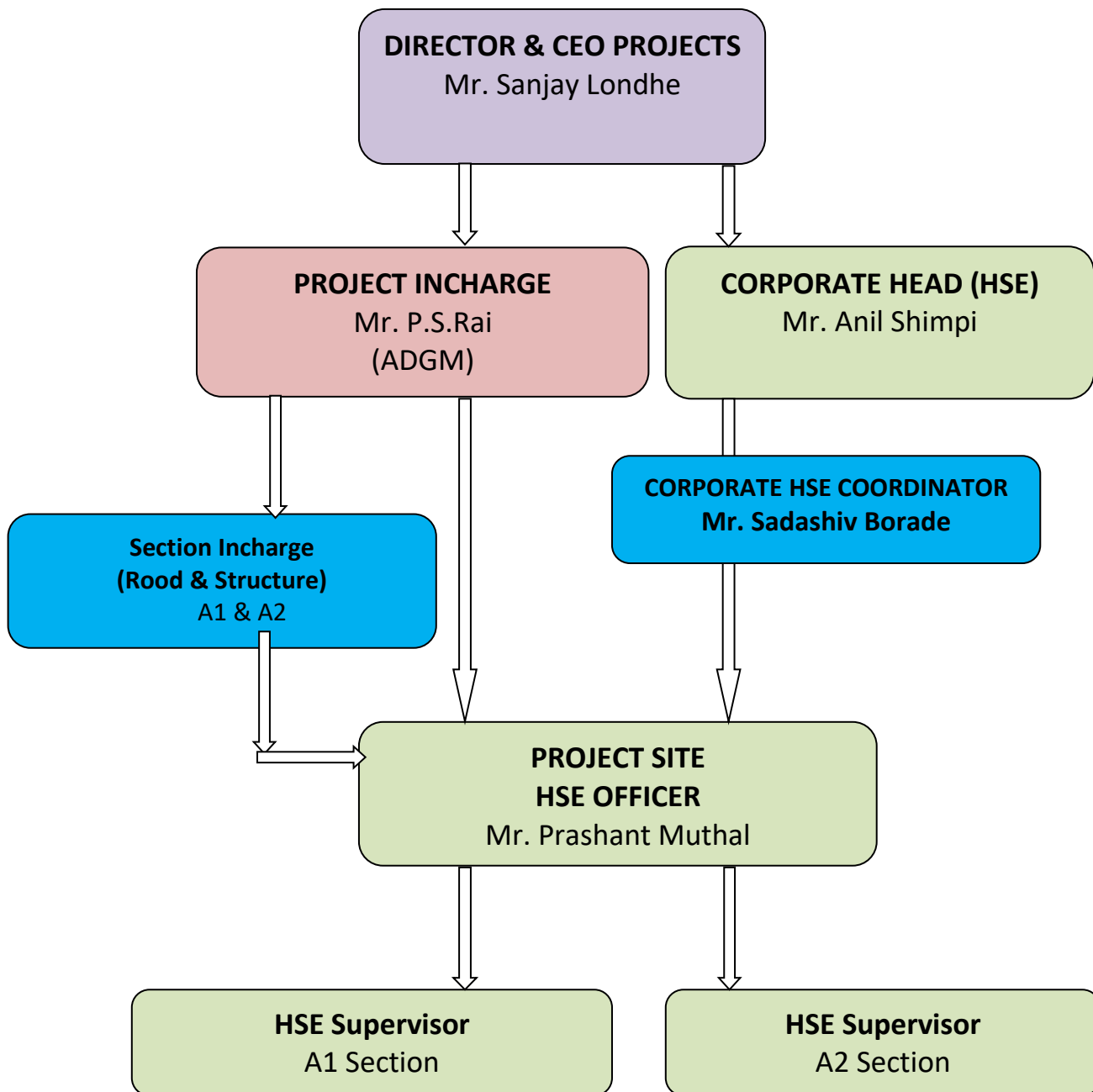
Ashoka Ankleshwar Manubar Expressway Private Limited (Part 21 of 24)

Prepared by India Infrastructure Finance Company Limited for the India Infrastructure Finance Company Limited and the Asian Development Bank.

This environmental and social due diligence report is a document of the borrower. The views expressed herein do not necessarily represent those of ADB's Board of Directors, Management, or staff, and may be preliminary in nature.

In preparing any country program or strategy, financing any project, or by making any designation of or reference to a particular territory or geographic area in this document, the Asian Development Bank does not intend to make any judgments as to the legal or other status of any territory or area.

3.2 Project Site HSE Organization Chart:



ASHOKA	Ashoka Ankleshwar Manubar Expressway Private Limited	ABL
	ABL/ AAMEPL/ HSE&S / ESSMSM	



CATEGORY	:HEALTH, SAFETY, ENVIRONMENT AND SOCIAL (HSE&S)
TITLE	:ENVIRONMENT,SAFETY AND SOCIAL MANAGEMENT SYSTEM MANUAL
DOC. NUMBER	:ABL/HSE&S/ESSMSM



			Sadashiv Borade	Anil Shimpi	Prem Shankar Rai
00	05/09/2018	Issued for Approval	HSE Executive	HSE Head	Project Head
Rev	Date	Description	Prepared by	Approved by	Reviewed by



INDEX

Sr.No.	Chapter	Page No.
1	Abbreviation	3
2	Introduction	4
2	Assessment and Management of Environmental and Social Risks and Impacts	5 to 6
3	Environmental and Social Assessment and Management System	7
	3.1 Policy and Objective	8
	3.2 Standards, guidelines, implementation, monitoring and review	9 to 16
	3.3 Organizational structure, roles and responsibility;	17 to 21
	3.4 Management programs and plans;	22 to 37
	3.5 Emergency preparedness and response.	41 38
4	Format Details	39
5	Annexures Details	40

	Ashoka Ankleshwar Manubar Expressway Private Limited	
	ABL/ AAMEPL/ HSE&S / ESSMSM	

Abbreviation

AAMEPL	: Ashoka Ankleshwar Manubar Expressway Private Limited
ABL	: Ashoka Buildcon Ltd
BOT	: Build Operate and Transfer
BOCW	: Building and Other Construction Worker
CAPA	: Corrective Action and Preventive Action
CEO	: Chief Executive Officer
CRMB	: Crum Rubber Mix Bitumen
DBFOT	: Design Build Finance Operate and Transfer
ERP	: Emergency Response Plan
EPC	: Engineering Procurement and Construction
ESSMSM	: Environment, Social and Safety Management System Manual
ESSMS	: Environmental Safety and Social Management System
ESMP	: Environment & Social Management Plan
EC	: Environment Clearance
GRC	: Grievance Redressal Cell
GHG	: Green House Gases
HSE&S	: Health Safety Environment and Social
HMP	: Hot Mix Plant
IFC	: International Finance Corporation
IRC	: Indian Road Congress
NHAI	: National Highway Authority of India
NCR	: Non Conformance Report
RMC	: Ready Mix Concrete
O&M	: Operation and Maintenance
PCDP	: Public Consultation and Disclosure Plan
PAC	: Project Affected Communities
PAF	: Project Affected Family
PAP	: Project Affected Person
PMC	: Project Management Consultant
P&M	: Plant and Machinery
QHSE	: Quality, Health, Safety and Environment
RAP	: Resettlement Action Plan
RFP	: Request For Proposal
SPV	: Special Purpose Vehicle
WMM	: Wet Mix Macadam

	Ashoka Ankleshwar Manubar Expressway Private Limited	
	ABL/ AAMEPL/ HSE&S / ESSMSM	

Chapter 1

INTRODUCTION

This chapter describes the arrangements Ashoka Ankleshwar Manubar Expressway Private Limited proposes to make to manage the environment, social, occupational health and safety impacts and risks of project in conformance with applicable laws and regulations of the Central and State Government and International standards¹. These arrangements will be set out in an Environmental, Safety and Social Management System Manual (ESSMSM) for the National Highways and State Highways. The ESSMSM is designed to comply with the requirement of ISO 14001², ISO 45001:2018³ and IFC Performance standards 2007 & IFC EHS Guidelines.

Environment, safety and social management system manual (ESSMSM) has been developed to assist project incharge(s), project engineer(s), and supervisor(s) to better fulfil their responsibilities in managing environment, social, occupational health and safety. In particular, it has been prepared to provide implementing agency and /or contractor for systematically managing environment, health and safety.



For effective implementation of ESSMSM, EPC and Sub-contractors must provide appropriate training to their project manager(s), engineer(s), supervisor(s) and worker(s) on basic environmental good practices, environmental aspects and impact, hazard identification and risk control mechanism, Social aspects and Social issue related to Highway construction, IFC HSE Guideline construction and for tollway road, occupational health and safety risk management system.

This manual will assist special purpose vehicle (SPV) companies, EPCs, sub-contractors and project employees and workers to better manage environment, social, occupational, health and safety.

¹ IFC's Policy on Social & Environmental Sustainability, April 2006 and related Performance Standards and Environmental, Health and Safety Guidelines.

² International Organisation for Standardization; "ISO 14001:2004: Environmental Management Systems – Requirements with Guidance for Use"

³ Occupational, health and safety management system ISO 45001:2018, Management system standard and its requirement for use.

	Ashoka Ankleshwar Manubar Expressway Private Limited	
	ABL/ AAMEPL/ HSE&S / ESSMSM	

Chapter 2

Assessment and Management of Environmental and Social Risks and Impacts

The importance of managing environmental and social performance throughout the lifecycle of the project. An effective environmental safety and social management system (ESSMS) is a dynamic and continuous process initiated and supported by the management, and involves engagement between the SPV, EPC, and subcontractor, its workers, local communities directly affected by the project (the project affected communities (PAC)) and, where appropriate, other stakeholders. Drawing on the elements of the established business management process of “Plan, Do, Check, and Act,” the ESSMS entails a methodological approach to managing environmental and social risks and impacts in a structured way on an ongoing basis, a good ESSMS appropriate to the nature and scale of the project promotes sound and sustainable environmental and social performance, and can lead to improved financial, social, and environmental outcome at times, the assessment and management of certain environmental and social risks and impacts may be the responsibility of the customer⁴ over which the company⁵ does not have control or influence.



Examples of where this may happen includes:

- When early planning decisions are made by the customer and/or third parties⁶ which impinge on the project site selection and/or design; (During planning phase most of environmental problem has been identified and it is readily available in feasibility report and detailed project report.)
- When specific actions directly related to the project are carried out by the customer such as providing land for a project which may have previously involved the resettlement of communities or individuals and/or leading to loss of biodiversity.
- Company cannot have ultimate control on customer actions, an effective ESSMS is identify the different entities involved and the roles they play, the corresponding risks present to the company, and there is opportunities to collaborate with these third parties in order to help achieve environmental and social outcomes that are consistent with the performance standards.

⁴ National Highway Authority of India, Central Government, State Government, PWD and Other.

⁵ Ashoka Concessions Ltd, Nashik

⁶ Competent agency carry out the specific task

	Ashoka Ankleshwar Manubar Expressway Private Limited	
	ABL/ AAMEPL/ HSE&S / ESSMSM	

Objectives



1. To identify and evaluate environmental and social risks and impacts of the project.
2. To adopt a mitigation hierarchy to anticipate and avoid, or where avoidance is not possible, minimize, and, where residual impacts remain, compensate/offset for risks and impacts to workers, affected Communities, and the environment.
3. To promote improved environmental and social performance of Company through the effective use of management systems.
4. To ensure that grievances from affected communities and external communications from other stakeholders are responded to and managed appropriately.
5. To promote and provide means for adequate engagement with affected communities throughout the project cycle on issues that could potentially affect them and to ensure that relevant environmental and social information is disclosed and disseminated.

Scope of application

This ESSMS applies to business activities with environmental and/or social risks and/or impacts. For the purposes of this ESSMS, the term “project”⁷ refers to a defined set of business activities, including those where specific physical elements, aspects, and facilities likely to generate risks and impacts, have yet to be identified. Where applicable, this could include aspects from the early developmental stages through the entire life cycle (design, construction, operation and maintenance, and handing over) of the assets. The requirements of this ESSMS apply to all business activities unless otherwise noted.

This is common manual for all Project, however the project specific requirement as applicable are addressed separately and are made available at SPV Level.

⁷ Highway, Infrastructure Road etc

	Ashoka Ankleshwar Manubar Expressway Private Limited	
	ABL/ AAMEPL/ HSE&S / ESSMSM	

Chapter 3



Environmental and Social Assessment and Management System

The Customer has conducted a process of Environmental and Social Assessment for the proposed National / State Highway/ Infrastructure Road project. It is documented in the feasibility and/or detailed project report. Company will study the feasibility report and/or detailed project report (in case it is made available by the customer) during the RFP stage.

Major points such as Road Alignment, Socio Economic-Cultural Environment, Cultural heritage, Landlessness & reduction of land holdings, Resettlement of Project affected persons, Involuntary Displacement, Natural Hazard, Land acquisition of land and structure etc, will have ultimate control of customer which get addressed in the feasibility report and/or detailed project report at the time conceptualization of project. However in case of any major shortcomings in this report will be addressed to concerned customer for changes, wherever feasible and practicable for project under implementation.

Company will establish a ESSMS appropriate to the nature and scale of the respective projects and commensurate with the level of its environmental and social risks and impacts. The ESSMS shall incorporate the following elements:

- 3.1 Policy and Objective;
- 3.2 Standards, guidelines, implementation, monitoring and review;
- 3.3 Organizational structure, roles and responsibility;
- 3.4 Management programs and plans; and
- 3.5 Emergency preparedness and response.

	Ashoka Ankleshwar Manubar Expressway Private Limited	
	ABL/ AAMEPL/ HSE&S / ESSMSM	

3.1 Policy and objectives

Quality, Health, Safety and Environment Policy

We, at Ashoka Buildcon Limited are committed to become an icon in infrastructure development, through innovation, professionalism, active leadership in product quality and sustained growth by delivering value to our customers.

We shall conduct our operations in a manner so that we protect people, property and the environment by identifying, controlling and reducing all associated risks to a level As Low As Reasonably Practicable.



This will be achieved by :-

1. Our commitment to continual improvement of quality, environmental and occupational health and safety management system performance
2. Commitment to prevention of pollution.
3. Complying with all applicable legal and contractual requirements.
4. Adopting state of art technology available.
5. Communicating and consulting all associated stakeholders for establishing organizational objectives.

Quality, Health, Safety and Environmental Objectives

- To improve planning
- To reduce customer complaints
- To enhance motivation of employees
- To improve skills through training
- Complying with all the statutory rules and regulations.
- Minimising Air, Land and Water Pollution and preventing accidents

This Policy will be agreed and formally adopted by the Company prior to commencement of construction of the Project. A copy will be provided to every employee of the Company and will form part of the contract with all SPV, EPC, and sub-contractors engaged in activities associated with design, preconstruction, construction and operation and maintenance.

	Ashoka Ankleshwar Manubar Expressway Private Limited	
	ABL/ AAMEPL/ HSE&S / ESSMSM	

3.2 Standards, Guidelines, Implementation, Monitoring and Review

The ESSMSM provides a delivery mechanism to address potential adverse impacts, to instruct the project executing team and contractors to implement standards of good practices to be adopted for all the road project work, operation and maintenance.

Company will ensure following action items to be complied with throughout the life cycle of the Project:

- 3.2.1 Standards and guidelines;
- 3.2.2 Inspections, monitoring and auditing;
- 3.2.3 Periodical ESMP review and amendments;
- 3.2.4 Reporting and communication of project related information including internal and external reporting and communication;
- 3.2.5 Documentation and record keeping;
- 3.2.6 Organisation, roles and responsibilities for the ESMP implementation and for functioning of ESSMS Procedures.



3.2.1 Standards and Guidelines

Besides the compliance with the stipulated conditions under various permits⁸ obtained for road construction and operation of the proposed project, Company and its SPV, EPC and Sub-contractors shall be required to comply with regulatory provisions and applicable international standards.

Legal and Regulatory Requirements and Applicable International Standards

Company and its SPV, EPC, Sub-contractors are governed by the various legislative rules and regulation set by Ministry of Environment and Forest (MoEF) and concerned pollution control boards.

⁸ Government approvals, clearances and licences etc.

	Ashoka Ankleshwar Manubar Expressway Private Limited	
	ABL/ AAMEPL/ HSE&S / ESSMSM	

Applicable rules and regulation for road project

- A. MOEF Requirement Road construction -- EIA Report & Environment clearness from MOEF
- B. Environment Protection Act :1986
- C. The Water (Prevention & control of pollution) Act, 1974
- D. The Water (Prevention & Control of pollution) Cess Act, 1977, including rules, 1978
- E. The Air (Prevention & control of pollution) Act, 1984
- F. The Hazardous Waste (Management & Handling) Rules, 2000
- G. Manufacture, Storage & Import of Hazardous Chemicals Rules, 1989
- H. Forest clearance for tree cutting (Local, State and Center if required)
- I. Local authority or Grampanchyat permission for establishment of plant
- J. District Industry Center permission for industry
- K. Factory Act: 1948 (Crusher, HMP, RMC & CRMB) Plant Establishment.
- L. State Factory Rule (Director of Industrial Safety and Health requirement)
- M. Building and Other Construction worker Act 1996.
- N. The Mines & Minerals Act, 1957 and
- O. Mineral Concession Rules, 1960
- P. Land acquisition Rule-1998
- Q. Petroleum Rules, 1976 (Petroleum & Explosive Department)
- R. The Indian Electricity Rules, 1956
- S. Batteries Act, 1989

The contents of the environment, safety and social reporting system have been designed to meet the documentation requirements of above applicable Indian & International standards as applicable as per prevalent law in India i.e performance standards on social and environmental sustainability and general environmental, health and safety guidelines of IFC performance standards as described below :-

- PS1 – Social and Environmental Assessment and Management System
- PS2 – Labour and Working Conditions;
- PS3 – Pollution Prevention and Abatement;
- PS4 – Community Health, Safety and Security;
- PS5 – Land Acquisition and Involuntary Resettlement;
- PS6 – Biodiversity Conservation and Sustainable Natural Resource Management;
- PS7 – Indigenous Peoples; and
- PS8 – Cultural Heritage;
- Environment, Health and Safety -General Guidelines of IFC;
- IFC EHS Guideline for Toll Roads.

Company has defined environmental management system as per the provisions of ISO 14001 and OHSAS 18001. The developed system will help environmental and safety related as required by the international standards.

3.2.2 Inspection, Monitoring and Auditing :-



Inspection and monitoring of the project activities in comparison with the stipulated conditions and norms by Indian environmental laws and/or IFC standard and suggested mitigation measures will minimise the adverse impacts and increase effectiveness of environmental, safety and social performance. Through the process of inspection, monitoring and auditing, Company will ensure that SPV, EPC and sub-contractors HSE & S system implementation and compliance with the requirements of stipulated conditions under the various permits as well suggested mitigations for the project life cycle related activities.

Internal monitoring of the ESSMS implementation will be the responsibility of a special monitoring & evaluation cell⁹ at the project execution. The internal and external monitoring and evaluation will be an ongoing process and will continue efficiently during the operation and maintenance of highway and/or infrastructure road(s).



The EPC and Sub contractor will also ensure monitoring of environmental parameters as per the following Table:-

Monitoring of Environmental Parameters :-

⁹ Cell ; EPC project execution team, HR & Admin Department & HSE&S Department,

	Ashoka Ankleshwar Manubar Expressway Private Limited	
	ABL/ AAMEPL/ HSE&S / ESSMSM	

Sr.No	Description of Parameters	Schedule and duration of monitoring
1. Ambient Air Quality (SPM, RPM, CO, SO₂, Nox)		
1A	During construcion phase , In the project camp boundry Four Samples from South, North, East and west sides One sample near admin and proejct office.	Over 24 hours continuous duration, Frequency :- quarterly basis Total five samples
1B	During construcion phase & operation phase, Village, Urban area, Signal etc	Over 24 hours continuous duration, Frequency :- quarterly basis One Sample
1C	During operation phase At Toll plaza surrounding area	Frequency :- quarterly basis One sample
1D	During operation phase At Suitable Intersection	Frequency :- quarterly basis One sample
2. Ambient Noise		
2A	During construcion phase , In the project camp boundry Four Samples from South, North, East and west sides One sample near Admin and proejct office.	over 24 hours continuous duration, Frequency :- quarterly basis Total five samples
2B	During construcion phase & operation phase, Village, Urban area, Intersection (Signal) etc	over 24 hours continuous duration, Frequency :- quarterly basis One sample
2C	During operation phase At Toll plaza surrournding area	on a quarterly basis One sample
2D	DG Set (Above 50 KVA)	Quaterly basis One Sample
2E	During construcion phase , Crusher	Quaterly basis One Sample
2F	During construcion phase , HMP Plant	Quaterly basis One Sample
2G	During construcion phase , WMM Plant	Quaterly basis One Sample
2H	During construcion phase , RMC Plant	Quaterly basis One Sample
2I	CRMP Plant	Quaterly basis One Sample
3. Stack Monitoring (PM, CO, SO₂, NOx) During construcion phase ,		
3A	DG Set (Above 50 KVA)	Quaterly basis One Sample
3B	Hot Mix Plant - Stack	Quaterly basis One Sample
4. Water quality (Ph, Odour, TDS, TSS, O&G, Sulphide, Sulphate, COD, BOD and O&G, Heavy Metals etc) During construcion phase ,		

	Ashoka Ankleshwar Manubar Expressway Private Limited	
	ABL/ AAMEPL/ HSE&S / ESSMSM	

4A	RMC Waste water and Treated water	Quarterly basis One Sample
4B	Down stream of Camp-Leachet	Quarterly basis One Sample
5.Drinking Water quality as per WHO Standard, During construcion phase, During construcion phase		
5A	Labour camp	Monthly basis One Sample
5B	Project camp and Office	Monthly basis One Sample
6.Soil Quality (Ph, Alkalinity, Acidity, Sulphite,C,N,P,K etc) During construcion phase ,		
6A	Labour camp	Half yearly One Sample
	Project camp and Office	Half yearly One Sample

3.2.3 Review and Amendment

Company will annually review the ESMP and identified management action plans to address any changes in the organisation, process or regulatory requirements. Upon any amendment, the amended ESMP will be communicated to the SPV, EPC and Sub-contractor by the HSE & S Department.



Internal / External auditing will be carried out quaterly / annual basis during the construction phase. During Operation phase, the auditing will be done on an annul basis. These reports will be recorded and summary of major Non-Compliance will be reported to the management.

3.2.4 Reporting and Review

Company will ensure external reporting of environmental, safety and social performance through HSE & S department & it will monitor and ensure the timely compliance under all applicable acts for infrastructure road projects. SPV, EPC and Sub-contractor - Project Incharge / Laisining head /project site HSE will ensure mechanism for timely reporting of responses against any complaints or notices issued by the regulatory agencies or other stakeholders.

To ensure effective implementation of the ESSMS, the inspections and audit findings will be communicated by the HSE & S department to managment and project incharge for effective implementation of suggested mitigation measures of their project component.

Open communication on HSE & S issues will be ensured on regular basis during the work specific team briefing, onsite work group meetings and work specific instructions.



	Ashoka Ankleshwar Manubar Expressway Private Limited	
	ABL/ AAMEPL/ HSE&S / ESSMSM	

HSE & S Head will report the site HSE&S issue if any to the top management.

3. 2.5 Documentation and Record Keeping


The EPC and Sub-contractor will monitor and maintain following documents for effective implementation of the ESSMS:

Sr.No.	Description of report	Frequency of reporting	Format No
1	Environment & social management plan status report on ESMP	Frequency : Monthly	ABL/FR/HSE/01
2	Land acquisition status	Frequency : Monthly and till the end of land acquisition process (Copy of 3D, 3G)	ABL/FR/HSE/02
3	Latest issue on land acquisition & hot spots (such as Cultural heritage, Historical Structures, Religious Structures, Intersections and underpass etc.	Frequency: Monthly Correspondence copy & follow-up action note from EPC/SPV of issue for ready reference.	ABL/FR/HSE/03
4	Environment clearness and Moef Clearance Compliance report (Starting from Project) (Even though it is responsibility of Customer, But EPC has to implement the EC Conditions, monitor it and prepare compliance report and submit to NHAI)	Frequency -Six Monthly Acknowledgement copy from state Moef/CPCB and Report.	As per Annexure 1 Sample Copy
5	Legal matrix of all project related permissions with validity	Frequency: Monthly All legal permissions required for Road projects and Plant & machinery related license.	ABL/FR/HSE/04
6	Legal compliance report under Environment protection Act and consent to operate permissions /licenses.	Frequency: Quarterly Acknowledgement copy from SPCB and report.	ABL/FR/HSE/05
7	Environment Statement (Annual Environmental Report for Consent to operate permission) form –V as per (Pl.reference state wise format)	Frequency: once in year (before 30 Sep) Acknowledgement copy from SPCB and report.	As per prescribed format by concern authority
8	Legal compliance report under factory license and BOCW license	Frequency: Quarterly Report or as per prescribed norms Acknowledgement copy from Factory Inspectorate /BOCW and	As per prescribed format by concern authority

	Ashoka Ankleshwar Manubar Expressway Private Limited	
	ABL/ AAMEPL/ HSE&S / ESSMSM	

Report.

9	Environmental Report from Third party approved by CPCB /SPCB. 1. Ambient Air Monitoring, 2. Noise Level Monitoring and 3. Waste water Monitoring report 4. Soil Testing	Frequency: Quarterly Final Report Copy From CPCB /SPCB Approved Third party	As per the Thirdparty certificate
10	Testing Certificate from competent Authority under Factory Act & BOCW Act & Its requirement Compliance Summary All P&M fitness certificates, Lifting tools and tackles certificate, Pressure vessel and storage tank fitness certificate from from govt. certified competent authority and in the prescribed format.	Frequency: Quarterly Final Report Copy as per as prescribed format mentioned in Fcatory Act /BOCW act by the Competent authority and copy of acknowledgment submitted in concern department.	As per prescribed format by concern authority As per Annexure 2 Sample copy
11	HSE –Work instruction Reports- All Nine formats (FR/CO/DO/PR/HSE-01 TO 9)	Frequency :-Monthly	As per ABL WI & Formats As per Annexure 3
12	Project Water Consumption Report (All Streams – Project use, Camp use, Production plants (RMC, WMM, HMP & CRMB) Water consumption Report.	Frequency : Quarterly Format is as below	ABL/FR/HSE/06
13	Water Cess Return as per Form-1 Under section 17 of the Water (Prevention and Control of Pollution) Cess Act, 1977 (36 of 1977 and its receipt	Frequency : Quarterly Acknowledgement copy and form-1 Receipt from SPCB	As per prescribed format by concern authority
14	Hazardous waste disposal to the CPCB/ SPCB Authorized Third party.	Frequency : Quarterly Manifest copy from CPCB/SPCB Authorized third party. And Haz, Waste Disposal return as per HAZ Rule 2003- Form no-12 from Authorized third party.	As per prescribed format by concern authority
15	Road Accident Report Summary as per Road Accident format Form-1A & A4 AS PER IRC-53	Frequency : Monthly	ABL/FR/HSE/07
16	Project Accident report under factory act and/or BOCW Act (as per prescribed format of state regualtion and Accident reporting	Frequency: As and when happen immediate within in 24 hour's after the accident /incident / property damage.	As per prescribed format of state regualtion
17	ABL-HSE-Monthly Report	Frequency: Monthly	ABL/FR/HSE/08

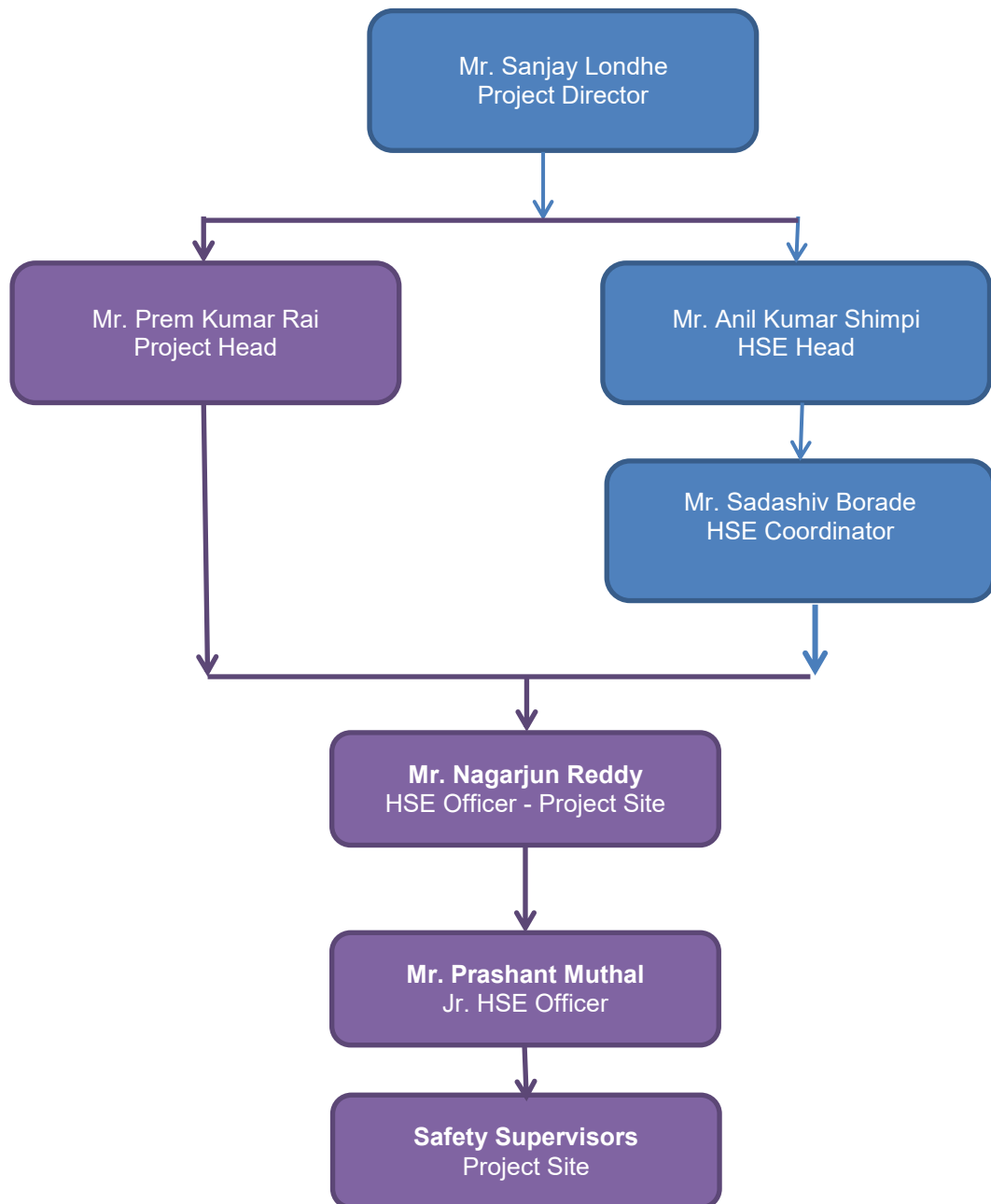
	Ashoka Ankleshwar Manubar Expressway Private Limited	ABL
	ABL/ AAMEPL/ HSE&S / ESSMSM	



18	Incident Report	Frequency: As and when happen immediate within in 24 hour's after the accident /incident / property damage.	ABL/FR/HSE/09
19	Tree planatation summary report. a. Road side plantation summary b. Camp Plantation summary	Frequency: Quarterly	ABL/FR/HSE/10
20	QHSE- NCR report from client, certification body and independent consultant. Summary report on the closer of NCR with evidence.	Frequency: Monthly	ABL/FR/HSE/11
21	Emergency preparedness and response procedures and its effectiveness report (Mockdrill Report and comments). Mockdrill frequency – Quarterly	Frequency: Quarterly	ABL/FR/HSE/12
22	Project site training record	Frequency: Monthly	Attendance Sheet
23	Project GHG Report	Frequency: Monthly	ABL/FR/HSE/13
24	Complaint register (Construction and Operation phase)	Frequency: Monthly	ABL/FR/HSE/14

The ESSMS related report and ESMP will be placed for review by stakeholders and kept at the EPC Project implementation unit and copy of same is send at company office to access the effectiveness of the ESSMS. wherever required the feedback is given at concern EPC for further improvement.

3.3 Organisation Structure & Responsibilities

3.3.1. Project Organisation Chart



	Ashoka Ankleshwar Manubar Expressway Private Limited	
	ABL/ AAMEPL/ HSE&S / ESSMSM	



3.3.2 Over all Responsibility

Overall responsibility for the environment, social, occupational health and safety management system lies with the CEO of the company who will establish and maintain an organisational structure that defines roles, responsibilities, and authority to implement the ESSMS. This will include the designation of in-house personnel during the different phases of the Project as described below.

The HSE &S activities will be carried out by SPV, EPC and/or O&M contractor and third-parties. All these activities will be undertaken under contract with company and will be supervised by company which will ensure that all contracts include terms and conditions requiring contractors to adopt management systems which comply with the ISO 14001, OHSAS 18001 and with the ESSMS requirements.

In addition, the ESSMS will provide for the following:

- ❖ Commitment by the management of the necessary human and financial resources, on an ongoing basis throughout the BOT /DBFOT / Contract period, to achieve effective and continuous conformance with the Policy;
- ❖ Communication of commitments, roles and related responsibilities to the project team and external stakeholders;
- ❖ Ensure employees and contractors have the required skills and knowledge to perform the work either through existing skills and experience or by imparting necessary training;
- ❖ Ensuring the project officials are kept up to date with information on relevant Indian legislation, regulations, standards and guidelines pertaining to the project.

	Ashoka Ankleshwar Manubar Expressway Private Limited	
	ABL/ AAMEPL/ HSE&S / ESSMSM	



3.3.3 Roles & Responsibilities

CEO :-

- Overall responsible for execution of the project in prescribed time;
- shall ensure, so far as is reasonably practicable, the health, safety and welfare of all workers while they are at work in the factory and/or infrastructure road project;
- the provision and maintenance of plant and systems of work in the factory and /or and/or infrastructure road project site that are safe and without risks to health;
- the arrangement in the factory and/or infrastructure road project site for ensuring safety and absence of risks to the health in connection with the use, handling, storage and transport of articles and substances;
- the provision of such information, instruction, training and supervision as are necessary to ensure the health and safety of all workers at work;
- the maintenance of all places of work in the factory and/or infrastructure road project in a condition that is safe and without risks to health and the provision and maintenance of such means of access to, and egress from, such place as are safe and without such risks;
- the provision, maintenance or monitoring of such working environment in the factory and/or infrastructure road project for the workers that is safe, without risks to health and adequate as regard facilities and arrangements for their welfare at work.

HEAD –HSE & S :-

- ❖ Monitor the HSE &S Legal compliances ;
- ❖ Supervising environment social, occupational health and safety relevant activities during project execution;
- ❖ Carrying out regular inspections during construction;
- ❖ Suggest the remedial measure of high risk
- ❖ Overall responsibility for HSE&S complaint handling, Health & Safety of workers, and visitors;
- ❖ Life saving and emergency repair, prevention of secondary damage;
- ❖ Supervising sub-contractor's activities to ensure that environmental and safety requirement are met during the life cycle of project and based on the EPCS, SPVS

	Ashoka Ankleshwar Manubar Expressway Private Limited	
	ABL/ AAMEPL/ HSE&S / ESSMSM	

and sub-contractors environment and safety manual and best industry practices;



- ❖ Conducting HSSEMS-Audit on quarterly basis;
- ❖ Ensuring that corrective measures will be taken, if necessary;
- ❖ Reporting to Committee on a regular basis, and to CEO monthly.
- ❖ Preparation of CAPA for incidence and accident, Prepare a training modules on various aspects of Environment and safety.

HSE & S officer :-

- ❖ Prepare the HSE Training program as per the site specific requirement. under guideline of ESSMS ,ISO:14001 and OHSAS;18001;
- ❖ Review the Monthly safety committee minutes of project site, prepare summary report;
- ❖ Co-ordinate with the site HSE Officer for resolving the Health, Safety Environment and social matters & prepare report for remedial measures;
- ❖ Follow up with the Project incharge / Laisining incharge / Site HSE Officer for monthly HSE Report. Site HSE report should reach by 3rd day of every month before the closing of duty hours;
- ❖ Guide Site HSE Officer for Environmental and Safety Issue and its timely closer.
- ❖ Maintaining and updating centerlise documentation system
- ❖ Prepare HSE Internal Audit Schedule for project sites & Inform the site in advance.
- ❖ Follow up for compliance status of HSE Audit & prepare report according to compliance.

Project site HSE & S Officer :-

- ❖ Implementing the HSE&S Manual, Safety Plan, Environment Managment Plan, Emergency prepadness plan and EPC HSE-Work Instructions;
- ❖ Train the workers and employee as per the training programs (cl.3.4.4);
- ❖ Prepare the HSE Training program as per the site specific requirement;

	Ashoka Ankleshwar Manubar Expressway Private Limited	
	ABL/ AAMEPL/ HSE&S / ESSMSM	

- ❖ Provide the Safety & Environmental awareness training to employee (contract employee on card basis) after getting the formal information from the HR & Adm Department;
- ❖ Carry out HIRA (Hazard identification and risk assessment) & EAI (Environmental Aspects and its Impacts) and prepare mitigation measures and approve it from Head- HSE&S ;
- ❖ Daily Safety Observation Tour, Work place Monitoring, Safety Findings to be recorded & Informed to site Project Incharge and Process Owners;
- ❖ Conducting Safety Committee Meeting including preparation of agenda, near miss & accidents reports & forward to Corporate Office before 3rd of every month;
- ❖ Monthly HSE Report sending to be sent HSE- Corporate Manager before 3rd day of every month;
- ❖ Emergency preparedness plan and its effectiveness report (i.e Mockdrill Report) on quarterly basis ; and
- ❖ Accident reporting within 24 hour's to concern Govt.authority and Head- HSE & S.

3.4 Management Programs and Plans

In addition to the suggested mitigation measures maintained at ESMP. SPV, EPC and/or Sub- contractor will develop and implement following management Programs and plans under the ESMP:

Management Plans:-



- 3.4.1) Construction Labour Management Plan;
- 3.4.2) Pollution Prevention Management Plan;
- 3.4.3) Traffic Management Plan;
- 3.4.4) Health Management Plan;
- 3.4.5) Training Programs and plan;
- 3.4.6) Resettlement Action Plan (RAP);
- 3.4.7) Indigenous People Development Plan (IPDP);
- 3.4.8) Public Consultation and Disclosure Plan;
- 3.4.9) Grievance Redressal mechanism;
- 3.4.10) Biodiversity & Wildlife Management Plan.

Company will work upon the above mentioned management action plans for necessary changes, where required while being practised. A brief description of the above mentioned plans is given as following:

3.4.1) Construction Labour Management Plan :-

The Company, SPV and EPC will base the employment relationship on the principle of equal opportunity and fair treatment, and will not discriminate with respect to any aspects of the employment relationship, such as recruitment and hiring, compensation (including wages and benefits), working conditions and terms of employment, access to training, job assignment, and promotion, termination of employment or retirement, and disciplinary practices.

The Company will take measures to prevent and address harassment, intimidation, and/or exploitation, especially in regard to women.

	Ashoka Ankleshwar Manubar Expressway Private Limited	
	ABL/ AAMEPL/ HSE&S / ESSMSM	

The Company will ensure that all workers receive notice of dismissal and severance payments mandated by Indian labour law and collective agreements in a timely manner. All outstanding back pay and social security benefits and pension contributions and benefits will be paid

- (i) on or before termination of the working relationship to the workers,
- (ii) where appropriate, for the benefit of the workers, or
- (iii) Payment will be made in accordance with a timeline agreed through a collective agreement. Where payments are made for the benefit of workers, workers will be provided with evidence of such payments.

The Company will provide a grievance mechanism for worker to raise workplace concerns. The company will inform the workers of the grievance mechanism at the time of recruitment and make it easily accessible to them. In Project office and Camp area grievance box for easy and immediate communication.

The Company will provide a safe and healthy work environment, taking into account inherent risks in its particular sector and specific classes of hazards in the project work areas, including physical, chemical, biological, and radiological hazards, and specific threats to women. The client will take steps to prevent accidents, injury, and disease arising from, associated with, or occurring in the course of work by minimizing, as far as reasonably practicable, the causes of hazards.

Child Labour

The Company & its EPC, Sub-contractor will not employ children in any manner that is economically exploitative, or is likely to be hazardous or to interfere with the child's education, or to be harmful to the child's health or physical, mental, spiritual, moral, or social development.



Forced Labour

The Company & its EPC, Sub-contractor will not employ forced labor, which consists of any work or service not voluntarily performed that is exacted from an individual under threat of force or penalty.

Worker

During the construction peak work labour strength of approximately 250-300 persons is expected. A brief of the measures that have been suggested for the construction labour under the construction labour management action plan include the following:-

- ❖ Provisions of labour camps provided with individual/share dwelling units supported with piped water supply,
- ❖ Provision of proper accomdadtion, food and sanitation etc.

	Ashoka Ankleshwar Manubar Expressway Private Limited	
	ABL/ AAMEPL/ HSE&S / ESSMSM	

- ❖ Monthly inspection of labour camps and mess-hall to focus on the following
 - General observations on cleanliness;
 - Drinking water availability with respect to source, cleanliness of storage tanks and quality fit to be consumed;
 - Provision of first aid facility, sanitation facilities to water availability in the toilets their cleanliness and drainage;
 - Provision of garbage collection, segregation and disposal facilities.

- ❖ The Detailed Labour Camp management plan is attached herewith as **annexure no-4.**

❖ **Workers' participation in safety & environment management.**

Company/EPC Contractor shall, in every factory and/or project site where a hazardous process takes place, or where hazardous substances are used or handled, set up of a Safety Committee to promote co-operation between the workers and the management in maintaining proper safety, health and environment at work and to review periodically the measures taken for the improvement of Safety and Environment management system and shall be documented.

❖ **Crèches**



(1) In every factory / Construction site wherein more than [thirty women workers] are ordinarily employed there shall be provided and maintained a suitable room or rooms for the use of children under the age of six years of such women.

(2) Such rooms

- shall provide adequate accommodation,
- shall be adequately lighted and ventilated,
- shall be maintained in a clean and sanitary condition and
- shall be under the charge of women trained in the care of children and infants.

❖ **Canteen :**

Company /EPC Contractor shall provide and maintain in every place wherein not less than two hundred and fifty building workers are ordinarily employed, a canteen for the use of the workers.

	Ashoka Ankleshwar Manubar Expressway Private Limited	
	ABL/ AAMEPL/ HSE&S / ESSMSM	

❖ **Workers Management Relationship :-**

Company has a formal and documented human resource policy which are communicated in local language, And has a policy of making workers organization wherein workers representative and management representatives discuss any issue and resolved suitably and same is documented.

❖ **Worker engaged by Third party & Supply Chain**

Enough care is taken by the company while selecting and appointing third party & supply chain that they have the competency and infrastructure for effective implementation ESSMS.

❖ **Security Management Strategy :-**

Company has a well define security management system and it is monitored and reviewed time to time for its effectiveness. The Security Management Plan for is attached herewith **as annexure No.5.**

3.4.2) Pollution Prevention Management Plan

During the project life-cycle, Company will consider ambient conditions and apply technically and financially feasible resource efficiency and pollution prevention principles and techniques that are best suited to avoid, or where avoidance is not possible, minimize adverse impacts on human health and the environment. The principles and techniques applied during the project life-cycle will be tailored to the hazards and risks associated with the nature of the project.

Resource and efficiency :-

Company has a policy to use latest technology and machines for construction work to avoid environmental pollution problem and to encourages innovative ways of conservations of natural resources like water and energy.

Pollution Prevention :-

Company will avoid the release of pollutants or, where avoidance is not feasible, minimize and/or control the intensity and mass flow of their release. This applies to the release of pollutants to air, water, and land due to routine, non-routine, and accidental circumstances with the potential for local and regional.

Environmental issues specific to construction and operation of roads include the following:

- Eco-system and Habitat alteration;
- Storm water;
- Waste;
- Noise;
- Air emissions;
- Wastewater,
- Chemical Spill Management Plan

Environmental issue	Management practices to prevent and control impacts
<p>1. Eco-system and Habitat alteration ;-</p> <p>Disruption of eco-system, terrestrial and aquatic habitats can occur both during construction of a road and during maintenance of the Right-of-way.</p>	<ol style="list-style-type: none"> 1. Siting roads and support facilities to avoid critical terrestrial and aquatic habitat (e.g. old-growth forests, wetlands, and fish spawning habitat) utilizing existing transport corridors whenever possible; 2. Design and construction of wildlife access to avoid or minimize habitat fragmentation, taking into account motorist safety and the behaviour and prevalence of existing species. Possible techniques for terrestrial species may include wildlife underpasses, overpasses, and bridge extensions, via ducts, enlarged culverts, and fencing. Possible techniques for aquatic species include bridges, fords, open bottom or arch culverts, box and pipe culverts. 3. Minimizing removal of native plant species, and replanting of native plant species in disturbed areas; 4. Exploring opportunities for habitat enhancement through such practices as the placement of nesting boxes in right of-way, bat boxes underneath bridges, and reduced mowing to conserve or restore native species
<p>2.Storm water;</p> <p>Construction or widening of sealed roads increases the amount of impermeable surface area, which increases the rate of surface water</p>	<ol style="list-style-type: none"> 1. Use of storm water management practices that slow peak runoff flow, reduce sediment load, and increase infiltration, including vegetated swales

runoff. High storm water flow rates can lead to stream erosion and flooding.

Storm water may be contaminated with oil and grease, metals (e.g. lead, zinc, copper, cadmium, chromium, and nickel), particulate matter and other pollutants released by vehicles on the roadway,

(planted with salt-resistant vegetation); filter strips; terracing; check dams; detention ponds or basins; infiltration trenches; infiltration basins; and constructed wetlands;

2. Where significant oil and grease is expected, using oil /
3. water separators in the treatment activities;
4. Regular inspection and maintenance of permanent erosion and runoff control features;

3.) Waste;

Solid waste may be generated during construction and maintenance of roads and associated structures. Significant quantities of rock and soil materials may be generated from earth moving during construction activities. Solid waste generation during operation and maintenance activities may include road resurfacing waste (e.g. removal of the old road surface material);

1. Maximizing the rate of recycling of road resurfacing waste either in the aggregate (e.g. reclaimed asphalt pavement or reclaimed concrete material) or as a base;
2. Incorporating recyclable materials (e.g. glass, scrap tires, certain types of slag and ashes) to reduce the volume and cost of new asphalt and concrete mixes.
3. Reuse of fly ash for road construction
4. Composting of vegetation waste for reuse as a landscaping fertilizer;

4.) Air Emissions

Air emissions are typically related to dust during construction and exhaust from vehicles.

1. Regulatory requirements and its mitigation measure compliance;
2. Construction wind breaking wall ;
3. Tree plantation around the Crusher, HMP, WMM etc ;
4. Provision of Bag House , Dust collector etc ;
5. Provision of water sprinkling on internal and

	<p>approach road.</p> <ol style="list-style-type: none"> 6. Stack Height: Maintain the stack height as per prescribed norms of CPCB /SPCB. 7. Monitor and measure the GHG as per Guideline of ISO:14064:01 & Its ABL Working instructions attached herewith as Annexure.No.7
<p>5.Noise ;</p> <p>Traffic noise is generated by vehicle engines, emission of exhaust,</p> <p>High Noise due to Construction Machinery such as Crusher, WMM and HMP</p> <p>Traffic noise can be a significant nuisance and may be loud enough to interfere with normal conversation and can cause stress in children and raise blood pressure, heart rates, and levels of stress hormones.</p> <p>Traffic noise levels are reduced by distance, terrain, vegetation, and natural and manmade obstruction.</p>	<ol style="list-style-type: none"> 1. All equipment to be timely serviced and properly maintained. 2. Bottlenecks to be removed, major intersections to be provided with interchange/flyovers 3. Construction equipment and machinery to be fitted with noise silencers and maintained properly. 4. Timing of noisy construction activities shall be done during night time and weekends when there are no activities by the sensitive receptor, concurrent noisy operations may be separated to reduce the total noise generated, and if possible re-route traffic during construction to avoid the accumulation of noise beyond standards. Else provision of temporary noise barrier at sensitive locations; 5. All camps should maintain minimum distance from following: <ul style="list-style-type: none"> ➤ 1000 m from habitation ➤ 1000m from forest areas ➤ 500 m from water bodies ➤ 500 m from through traffic route
<p>6.Waste water :-</p> <p>Wastewater discharges from maintenance facilities and from rest areas</p> <p>Waste water from RMC Plant</p>	<ol style="list-style-type: none"> 1. Wastewater discharge from facilities and rest areas will be treated in soak pit. And as per guideline of state pollution control board 2. RMC Waste water is recycled for dust suppression in project camp area and

internal roads.

7. Chemical Spill Management

Spill management comprises of prevention and control of spills. Always remember that prevention of spills is inexpensive and easier than management of spills. Treatment and disposal of contaminated soil or water be quite expensive. The spilled chemical waste should be disposed of in the same way as hazardous waste.

1. Prevention of Spills –General Measures

- Hazardous materials and wastes should be covered in containers and protected from damage.
- Secondary containment such as a drain pan or drop cloth should always be used to absorb spills or leaks when removing or changing chemicals/ oils.
- Drip pans or absorbent materials should be placed under paving equipment when not in use.
- Used oils or chemicals should be promptly transferred to suitable waste or recycling drums. Full drip pans or other open containers should not be left lying around
- Never buried spilled materials, Report it to Site HSE Officer or Store incharge,

2. Hazardous Material/Waste Storage area

- Waste storage areas should be kept clean, well organized, and equipped with sufficient spill cleanup materials,
- Used oil filters should be crushed or punctured (nail hole in the top of the filter) and then placed over a funnel mounted in the waste oil-recycling drum for 12 to 24 hours to drain excess oil and then send the filter to the authorized recycler or CPCB approved third Party,
- Cracked batteries should be stored in a non-leaking secondary container till all the acid has drained out

3. Vehicle, Equipment, Plant and Machineries

- Onsite maintenance of plant, machinery and vehicles should be carried out in the designated area having proper spillage control measures.
- All onsite and incoming vehicles and equipment should be checked for leakages. If leakage is discovered, it should be attended immediately. Vehicles should be parked in the designated parking area
- Fueling up of vehicles onsite should be carried out in designated areas located away from .drainage courses,

	<p>to prevent runoff contamination</p> <ul style="list-style-type: none"> ➤ Secondary containment, such as a drain pan should always be used when fueling to catch spills and leaks. ➤ Fuelling and refueling should be avoided near water bodies <p>4. SPILLAGE MANAGEMENT MATERIALS REQUIRED TO CONTAIN THE SPILL</p> <p>Personal Protective Equipment</p> <ul style="list-style-type: none"> ➤ Chemical splash goggles ➤ Gloves ➤ Shoe covers <p>Absorption Materials</p> <ul style="list-style-type: none"> ➤ Spill pillows (or equivalent) ➤ Spill booms, Spill sock ➤ Polyethylene liners filled with loose absorbent, or high porous sand and with loose absorbent in the bottom <p>Clean-up Tools</p> <ul style="list-style-type: none"> ➤ Polypropylene scoop or dust pan ➤ Broom or brush with polypropylene bristles ➤ Polypropylene bags . ➤ Floor sign - DANGER Chemical Spill Keep Away
--	---

3.4.3) Traffic Management Plan :-

It is expected that there will be increase of traffic for construction related activities of the Project. This may disturb local people in the area and also increase chances of road accidents requiring a traffic management plan to minimise adverse impacts. The traffic management action plan includes the following elements.

- 1.Transport management planning;
- 2.Driver training;
- 3.Access road maintenance;
- 4.Vehicle management and maintenance;
- 5.Community liaison and safety, and
- 6.Traffic diversion during the road construction.

The traffic management action plan covers the following aspects:

1. Sourcing or recruitment of drivers and number of qualified drivers needed;
2. Drivers' training and drivers commitment;
3. Driver communication with control point and vehicle equipment;
4. Source of suitable vehicles, Vehicle quality and specification;
5. Vehicle management and preventative maintenance programme;
6. Vehicle routes, route planning and alternative routes;
7. Overall vehicle movements - access route selection and management;
8. Strategic vehicle parking locations - to minimise impact of vehicles on local community, villages, roads, and
9. Inspection and audit of the project traffic.

The traffic management is to be monitored on daily basis to evenly spread traffic flow during a day so as to avoid congestion and minimise chances of road accidents. The plan also describes roles and responsibilities of SPV, EPC –O&M, and Sub-contractors. The Traffic management & diversion is available at road project site. The project site HSE Officer is responsible for preparation of diversion plan and its effective implementation.

In order to make an accident free zone at road construction chainage, SPV, EPC / subcontractor will ensure an elaborate traffic management plan and procedures which will be inline with IRC:SP-55 standard and tie up with local administration. The required and mandatory road signage shall be posted at working zone.

3.4.4) Health Management Plan :-

Company shall follow the requirement of pre-medical and periodical medical check up for each and every employees, workers who are suppose to work at project /constuction. The person should be physically fit for working, and be healthy by mentally and physically.

Company will provide the healthy, accident free and environment friendly work place. And also monitor work place time to time.

During construction / operation phase, the stagnant water and vegetation provide favourable breeding conditions for mosquitoes and snails. During operation phase, SPV /EPC will make regular field surveys and take necessary actions to curb the disease if thriving in the area with additional budget.

Company will monitor the water brone such as maleria, Cholera etc, As and when required resources will be provided to curb the same



3.4.5) Training Programs:-

HSE induction training and Regular job specific training needs will identified by EPC /SPV and training will be imparted to EPC project personnel, SPVS and sub-contractor engaged for the project activities. Specific training will be imparted to undertake the required ESMP managment actions and monitoring activities. The project will ensure that all concerned team members assigned for implementation of ESSMSM and project specific ESMP understand the following aspects through the training programme :-

- Purpose and Importance of ESSMSM & ESMP for Various project activities ;
- Requirements of the mitigation measures under the management plan and specific action plans ;
- Understanding of the sensitive environmental and social features within and surrounding the project area ;
- Aware of the potential risks from the project activities.

Suggested training module matrix for EPC, SPV and Sub-contractor for better implementing the ESMP and ESSMS.

Sr.No	Training Topic	Designation					
		Project Management (GM,DGM, Sr.Manager and Manager)	Engineers / Departmental Heads	Supervisor	Operators	Driver	Labour /Workers
1	E S & S Induction		√	√	√	√	√
2	Emergency Preparedness and Response Plan	√	√	√	√	√	
3	Environment & Social Management Plan	√	√	√	√		
4	General Safety Rule		√	√	√	√	√
5	Hazard Identification and Risk Assessment and Risk Control	√	√	√	√		
6	Environment Aspect and Impact Assessment and control measures	√	√	√	√		
8	Fire Fighting			√	√		√
9	Hazardous Material (MSDS)		√	√	√		√
10	Road Safety & Road Barricading			√	√	√	√
11	First Aid Box & its use	√	√	√	√	√	√
12	Accident prevention at road project site and HMP.WMM,RMC Plant	√	√	√	√		√
13	Working at Height		√	√	√		√
14	Material Handling		√	√	√		√
15	Electrical Safety	√	√	√	√		√
16	Defensive Driving	√	√	√	√	√	√

	Ashoka Ankleshwar Manubar Expressway Private Limited	
	ABL/ AAMEPL/ HSE&S / ESSMSM	

3.4.6) Resettlement Action Plan (RAP):-

The land acquisition for the proposed road projects has been undertaken the provision of National Highways Act, 1956 by the NHAI.

The legal responsibility of securing the land, determining the compensation /resettlement benefits and implementing the process is under the purview of the NHAI. Company, SPV and EPC will appoint one facilitator at project site level, He will track, monitor and information to the concern agency and record of Project affected family. Faciliatator will be involved with customer for the land acquisition process to the extent of liasoning with comptent authorities for expediting the process of land acquisition.

- a. NHAI and Independent consultant will make an effort to minimize the land requirment and modification road design to avoid impacts wherever possible.
- b. NHAI / State Revenue Department will do a survey of structures and assets including encroachments along the right-of-way that will be impacted by the proposed Infrastructure Road Project. State revnue department will make list of land owner under different land categories.
- c. Public consultation on the project information will be done in public hearing by concern Customer and govt authority.
- d. NHAI will obtain the list of landowners as per the revised 3A/3D notifications and assessment of project affected families This will also help in order to assess the extent of loss and vulnerability of the PAPs and help in determining the required assistance and opportunities to those families that have been rendered to more vulnerable subsequent to the land acquisition process. Projects in planning phase should initiate this exercise.
- e. NHAI will handover the acquired land to the Company for road development.
- f. Company/EPC facilatator will assist to customer and revenue department to fasten the process of land acquisition.
- g. Company/EPC facilatator will assist to project affecetd family if they need any help such as shifting of household, Labour and Truck etc.

3.4.7) Indigenous people development plan (IPDP):-

During the construction phase & operation phase, Project affected family /person (PAF /PAP) may get employment in EPC / SPV as per project requirement.

At Road Development Projects there is always requirement of manpower and labours during the construction and operation phase. where PAP can get employment. When ever there is manpower requirement, The company will give the priority to Local community /PAP /PAF.



Company /EPC / SPVs will make a provision of employment for local community and PAP as per capabilities, education and experience, some trades are as follows.

1. Security	2. Flagman	3. Gardner
4. Driver /Cleaner	5. Officeboy /Peons	6. Cook
7. Machine helper	6. Skilled labour	9. Unskilled labour

3.4.8) Public Consultation and Disclosure Plan (PCDP) :-

National highways and state highways infrastructure projects are based on public private partnership. PCDP responsibility lies with Customer. Company will monitor EPC /SPVs activities and ensure the following :-

1. EPC Project Incharge will attend the meeting if there is announcement, information, invitation from local authority, NHAI and Moef etc ;
2. As and when there is grievance from local public will be recorded and project incharge will forward it to the concern department to resolve. If grievance is under the scope of Project incharge will be resolve on priority;
3. Project information board will be displayed at appropriate location;
4. During Construction phase, Proper signages such as informative, warning and guiding sinages will be display;
5. During Operation phase, Information required by the Customer and Government Authority will be displayed at appropriate location;
6. During Operation phase, Informative,warning, hazard marking and mandatory sinages will be posted at appropriate location;
7. At toll plazas, Company will keep public complaint register and /or grievance box. Toll Manager and/or Maintenance Incharge will be responsible for the follow-up and

	Ashoka Ankleshwar Manubar Expressway Private Limited	
	ABL/ AAMEPL/ HSE&S / ESSMSM	

close-out of complaint and/or grievance. Toll Manager /Mainatenace Incharge will report the grivance status report to the company HSE &S department on monthly basis.

3.4.9) GRIEVANCE REDRESSAL MECHANISM:-

A Grievance Redressal Cell (GRC) to be established at the project office. The cell has representation from company,SPV, Sub-contractor and local administration.The company facilitator will look into complaints and concerns about ownership disputes, historic structures, religious structures, public utilities, distribution of compensation among heirs, missing affected assets and persons in the census etc. The procedure will not replace existing legal processes. Company will forward the grivance to the concerned customer and authorities for necessary action.

On going reporting to the PAC (Project affected Communities)



Company /EPC Facilitator will play pro-active role in mitigation measures mentioned in feasibility report and suggested by customer and same will be reported to the customer.

3.4.10) Eco System, Biodiversity & Wildlife Management Plan:-

Company will implement the directives and guidelines stipulated in enviornment clearness issued by ministry of forest and environment and state pollution control board.

During the construction phase, various adverse impacts on the ecosytem and wildlife are anticipated in the surrounding areas of the proposed project in terms of increased noise levels, land vibrations during tunneling and blasting, release of air and water pollutants, etc. Mammals are the most vulnerable group affected by these negative impacts, which affect their movement, behaviour and breeding habit. To avoid and minimize the negative impacts of these activities, project authorities are advised to prepare strict guidelines as suggested below:

- 1.** Strict instructions (warnings) shall be imposed on the workers at project sites to ensure that they do not harvest any species and/ or produce from the forests and cause any danger or harm to the animals and birds at project territory and forest section.
- 2.** Minimum levels of noise during construction activities will be maintained.
- 3.** The fuel wood to the labourers shallnot be provided from tree cutting meant for the purpose and/or the provision made for the supply of the free/subsidized kerosene/LPG from the depots being set up for this purpose to avoid forest

	Ashoka Ankleshwar Manubar Expressway Private Limited	
	ABL/ AAMEPL/ HSE&S / ESSMSM	

degradation and destruction of animal habitats.

4. To avoid the deterioration of water quality and release of pollutants into the river, project authorities would provide proper sanitation facilities and garbage disposal bins to the workers camp areas.

5. The interference of human population would be kept to a minimum in the adjacent forested areas and it would be ensured that the EPC /SPV /Sub-contractors do not set up labour camps in the vicinity of forests and wilderness areas.

6. The project authorities will be bound by the rules and regulations of the Wildlife (Protection) Act (1972), Biological Diversity Act (2002), Forest (Conservation) Act (1980), Environment (Protection) Act (1986) and guidelines of State Biodiversity Conservation Strategy Action Plans for the preservation of habitats and protection of wild animals

7. In case any wildlife found having taken up a refuge in any such tunnels or any space in project territory, all construction labour to leave that place immediately, trained personnel from Department of Forests and Wildlife Warden's office and approved experts should be intimated for rescue of such wildlife. Any construction activities to be taken up only after any trapped wildlife finds its safe escape;

8. It would be ensured that the noise levels would be kept as minimum as possible in the project area, particularly where human and wildlife habitats are located. For the strict blasting regime, i.e. controlled blasting under constant and strict surveillance should be followed. Some of the suggested methodologies for reduction and mitigation of noise so as to cause as little disturbance to the animals as possible are given below:

- ❖ Only well maintained/new equipment that produces lesser noise would be installed at the work sites.
- ❖ The best way to control the noise is at source. Certain equipment that needs to be placed permanently at one place like generators, etc. would be housed in enclosed structures to cut off the noise.
- ❖ The heavy equipment like rotating or impacting machines will be mounted on anti-vibration mountings
- ❖ Wherever combustion engines are required, they will be fitted with silencers.
- ❖ There should be provision of wind barrier around three sides of storage piles. All storage piles should be wetted and covered with plastic sheets. The grading operation should be suspended when speed of wind is very high.

3.5 Emergency Response Plan (ERP)

The project requires detailed Emergency Response Plan both for probable hazards likely to take place during construction and operation phases. The ERP is to address hazards associated with handling of heavy machinery and explosives required for construction and excavation activities. Following natural / accidental hazards may occur during construction phase of the project:-



Accidental & Natural Hazards

- Accident due to heavy equipment/machinery;
- Accidents due to fly rock during excavations/drilling.
- Fire & explosion to fuelling station;
- Slope failure at the project component locations including en-route proposed roads;
- Accident due to explosives handling;
- Road Accidents;
- Natural hazard like earthquake, landslides, and flood, etc.

In order to take care of above hazards /disasters, Company, EPC, SPV and subcontractor will ensure an elaborate ERP procedure on do's and don'ts have to be worked out with reporting mechanism, emergency preparedness team shall tie up with local administration (with defined roles and responsibilities) and should be communicated to each & every worker/employee of project site. Generic sample copy of Emergency Response plan is attached herewith **as annexure no. 6.**

Details of Formats

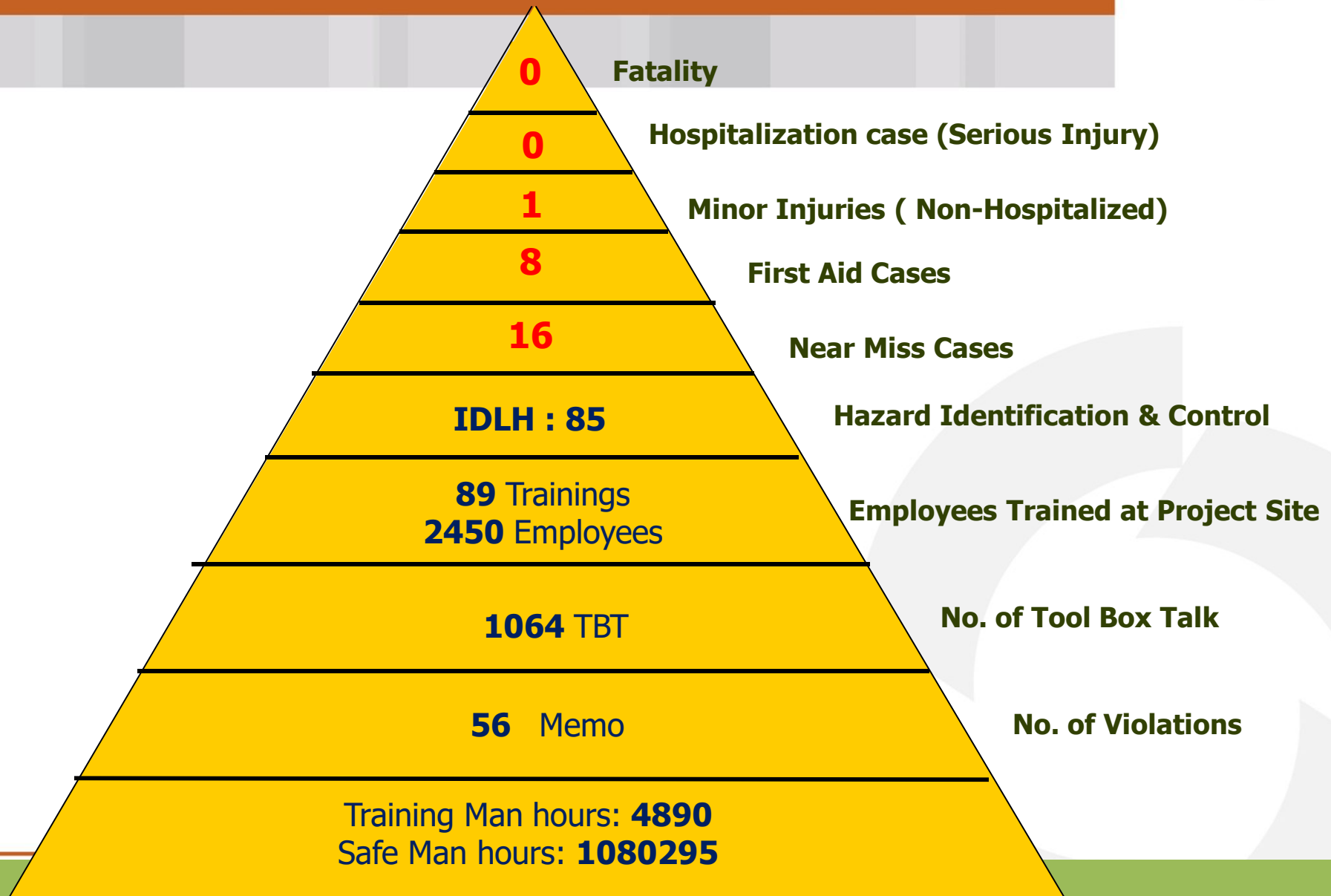
Sr.No.	Format No	Detail Description
1	ABL/FR/HSE/01	Environment & social management plan
2	ABL/FR/HSE/02	Land Acquisition Summary Report
3	ABL/FR/HSE/03	Hot Spot details and issue Report
4	ABL/FR/HSE/04	Legal Matrix Report
5	ABL/FR/HSE/05	Legal compliance
6	ABL/FR/HSE/06	Project Water Consumption Report
7	ABL/FR/HSE/07	Road Accident Summary Report
8	ABL/FR/HSE/08	ABL-HSE-Monthly Report
9	ABL/FR/HSE/09	Incident Report format
10	ABL/FR/HSE/10	Tree Plantation
11	ABL/FR/HSE/11	NCR-HSE Complainece Summary Report
12	ABL/FR/HSE/12	Emergency report (Mock Drill Report)
13	ABL/FR/HSE/13	Road Project GHG Tool
14	ABL/FR/HSE/14	Complaint register

	Ashoka Ankleshwar Manubar Expressway Private Limited	
	ABL/ AAMEPL/ HSE&S / ESSMSM	

Details of Annexures

Sr.No	Annexure No	Detail Description
1	Annexure No.1	MoEF Compliance Draft Copy
2	Annexure No.2-A	Legal Complainece under Factory Act
3	Annexure No.2-B	Legal Complainece Under BOCW Act
4	Annexure No.3	HSE –Work instruction Reports
5	Annexure No.4	Labour Camp Management Plan
6	Annexure No.5	Security Management Plan
7	Annexure No.6	Emergency Response Plan
8	Annexure No.7	Work Instruction for GHG Monitoring and Measuring.

VME Project - HSE Statistic (Jan- Dec 2020)





EMERGENCY RESPONSE PLAN


FOR

VADODARA KIM EXPRESSWAY (Package-IV)

(KM 279 TO KM 292)

ASHOKA BUILDCON LTD

Ashoka House, AshokaMarg, Ashoka-Nagar, Nasik

Rev:00	Prepared by	Reviewed by	Verified By	Approved by
Date	Nagarjuna Reddy Safety Officer	Mr. Anil Shimpi HSE-Head	Mr. P.S. Rai ADGM	Project In-charge
				

S.NO	DETAILS	PAGE NO
1	INTRODUCTION	3
2	OBJECTIVE OF EMERGENCY RESPONSE PLAN	3
3	PROBABLE EMERGENCIES	3
4	REPORTING AND ALERTING PROCEDURES EMERGENCY FLOW CHART	4
5	EMERGENCY RESPONSE TEAM	6
6	EMERGENCY RESPONSE TEAM EQUIPMENT	7
7	RESPONSIBILITIES OF EMERGENCY RESPONSE TEAM (ERT)	7
8	PRE-EMERGENCIES PLANNING	8
9	DETAILS ROLES & RESPONSIBILITY DURING THE PRE- EMERGENCY, EMERGENCY AND AFTER EMERGENCY	9
10	DETAIL OF PROBABLE EMERGENCIES	12
11	ATTACHMENTS 1) Camp Layout (All Camps) 2) Emergency Contact Details - Internal 3) Emergency Contact Details –District Disaster Plan	15

1. Introduction

This Emergency Response plan is necessary as a moral and legal obligation of management to protect the people, property and environment. The objective of this " Emergency Response Plan " is to provide the organizational guidelines and directions to ensure fast and effective response in any emergency situation in order to save life, property and environment.

At any time, it may be necessary to minimize harm to personal, the environment and business operations. Please remember that saving life and property is only possible if the emergency response procedure is effectively followed.

This plan must be followed in all cases of emergency. Emergency must never be assumed that it will remain in a minor category. Therefore, it is imperative that every employee must be familiar and knowledgeable of what to do in case of emergency.

2. Objective of Emergency Response Plan

- a) To define and implement an effective organization to respond and manage emergency to protect life, environment and properties
- b) To provide an effective and efficient response to and control emergencies that may occur.
- c) To identify the individuals responsible for directing the activities required to contain, control and manage an emergency situation.

3. Probable Emergencies

Accidental & Natural Hazards

- Accident due to heavy equipment/machinery;
- Accidents due to fly rock during excavations/drilling.
- Fire & explosion to fuelling station and Store;
- Chemical Spill
- Slope failure at the project component locations including en- route proposed roads;
- Road Accidents;
- Robbery;

- Natural hazard like earthquake, landslides, and flood, etc.

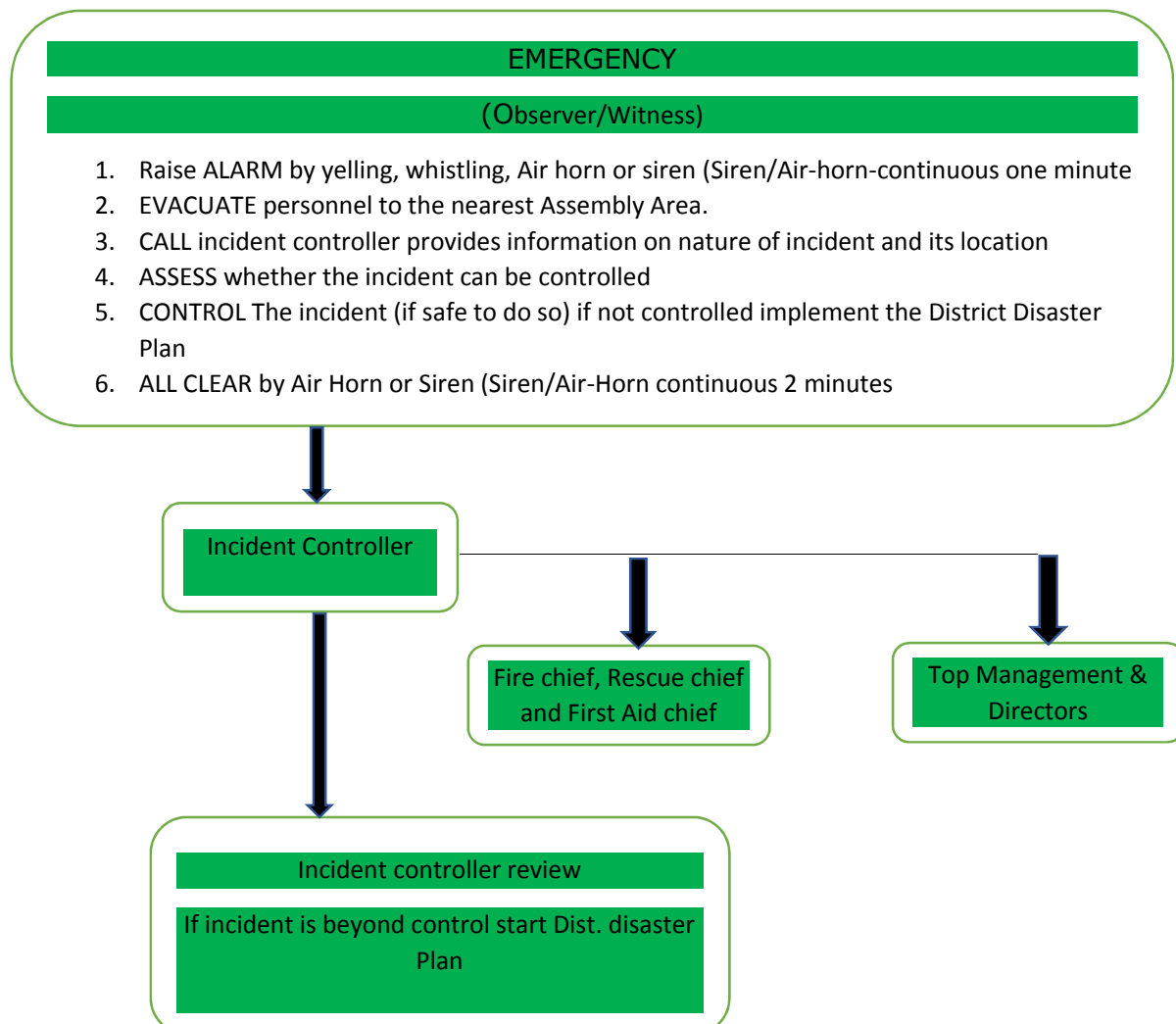
4. Reporting and Alerting Procedures

In case of any emergency, affected class room, laboratory, kitchen and office will activates their internal Emergency Response Flow chart as below,

Emergency Flow Chart

PURPOSE : To provide an effective and efficient response to and control emergencies that may occur.

SCOPE : Highway/Road Construction, Highway/Road Operation, River Bridge Project Camp and Maintenance



Emergency Response Procedure

Responsibility: Overall Responsibility Project In charge, Camp In charge, HSE Officer, and Emergency Response Team will be responsible for all emergency incident related activates within their area of responsibility.

- a) Incident observer/Witness will be responsible to start internal emergency communication system.
- b) Evacuate all personal to the nearest assembly point. Department Heads will be responsible. Department Heads will guide workers and staff.

Incident observer/ witness should call to Incident Controller (Project Head or designated person by Project Head to handle emergency situation) and provide information on nature of incident and its location

- c) Incident Controller (Project Head or designated person by Project Head to handle emergency situation) will coordinate the activation of the Emergency Response Team.
- d) ERT team member will first evacuate victim / all workers safely.
- e) Assess whether the incident can be controlled safely.
- f) Control the Incidence (if trained and safe to do so).
- g) Concern Department Heads/HR & Admin will conducts head count and inform Incident Controller (Project Head or designated person by Project Head to handle emergency situation) if someone is missing.
- h) Concern Department Heads/HR & Admin will conducts head count and inform Incident Controller (Project Head or designated person by Project Head to handle emergency situation) if someone is missing.

5. Emergency Response Team

Emergency Response Team

VKE (Package-IV)

Incident Controller

Mr. Prem Shankar Rai (Mb-7042580903)



Fire Fighting Team Leader –
Mr. Prashant Muthal
Mb.9081912079



Rescue Team Leader –
Mr. Nagarjuna Reddy
Mb.9081912078



First Aid Team Leader –
Mr. Prashant Muthal
Mb.9081912079

Mr. Mohan Tiwari

Mr. Munna Yadav

Mr. Rajesh Singh

Security Guard 1 (On duty)

Security Guard 2 (On duty)

Mr. Gaurav Khosla (HR)

Mr. Shubham Nikam(STR)

Mr. Anjani Singh(STR)

Mr. Sunil Gupta(HW)

Mr. Avinash Sharma(HW)

Security Guard (On duty)

Mr. Dhanesh Tiwari (HR)

Mr. Avasti (HR)

Mr. Nickil (STR)

Mr. Bibhas Pandey (HW)

Security Guard (On duty)

6. Equipment of Emergency Response Team:

1. Emergency Siren for camp; 01
2. Air Horn near River Bridge
3. Air horn (for remote working place / working group);
4. Mega Phone (NA);
5. First Aid Kit (03 nos);
6. Stretcher (0 nos);
7. Ambulance / Emergency Vehicle / Patrolling Vehicle.

7. Responsibilities of Emergency Response Team (ERT)

- a) **Incident Controller** (Project Head or designated person by Project Head to handle emergency situation) proceed to the scene of incident and act as incident commander and coordinate the emergency activates and activate the Emergency response team.(Depending on the incident location)
- b) **Fire Chief and Rescue Chief-** Acts as Incident Commander (in the absence of Incident Controller). Activate the Emergency Response Team.
- c) **Department Head and staff** – Evacuate the all workers and proceed to nearest assembly point. Conduct head count of their workers and related staff. Report any missing worker / staff to Incident Controller (Project Head or designated person by Project Head to handle emergency situation).
- d) **Rescue Team-** Proceed to scene and rescue the worker / staff trapped in workplace or office or washroom. Evacuate the incident place. Rescue team leader will report to Incident Controller (Project Head or designated person by Project Head to handle emergency situation) after 100% evacuation OR If he needs more time to rescue the people or additional help.
- e) **First Aid Team** – Proceed to scene of incident and provide medical assistance to the injured. Transport the injured to the nearest hospital if requiring medical attention.
- f) **Fire Fighting Team** – Proceed to scene and start the necessary fire fighting. After extinguish the fire, Fire chief will communicate to Incident Controller (Project Head or designated person by Project

Head to handle emergency situation) and gives the signal of all clear.

- g) **Incident Controller** – Incident controller (Project Head or designated person by Project Head to handle emergency situation) will take review of Incident location through Fire Fighting Chief and Rescue Chief. After getting the all clear signal from Fire Fighting Chief and Rescue Chief, Incident Controller will announce / communicate to all staffs, Department Heads and workers regarding the emergency has been controlled (Incident Location- RMC, Office and QC Laboratory etc.) is safe.

8. Pre-emergencies planning:

a. Preparing for a Fire:

- a) Prepare fire extinguishers and fire points for each work locations.
- b) Conduct fire drills quarterly
- c) Obtain fire extinguisher training for Worker, Department heads and Staffs.
- d) Know number and locations of fire extinguishers. Check them monthly/have them serviced annually.

b. Preparing for Evacuation:

- a) Prepare evacuation plan of project site/ project camp and work location. Identify primary and secondary evacuation sites. Become familiar with evacuation routes.
- b) Display the emergency exit in stairs case and appropriate place inside the camp and at work location.
- c) Identify assembly point and displayed location.

9.0 Details roles & responsibility during the pre-emergency, emergency and after emergency.

Team	State of Emergency	Responsibility
Incident Controller	Pre-Emergency	<ol style="list-style-type: none"> 1. Ensure training on preparedness programmes to be adopted at different levels for all manpower employed; Periodic testing of the plan for its effectiveness 2. Formation all fire-fighting team, Rescue Team and First Aid Team; 3. Provide the Resource to all emergency response teams; Keep- update all emergency & rescue equipment's.
	During Emergency	<ol style="list-style-type: none"> 1. Provide vital information to the ERT and agencies in the field regarding status of available infrastructure that can be of use during rescue/ firefighting operations; 2. Provide moral support and guide ERT to handle the emergency; 3. Asses the emergency situation and provide the necessary help to the emergency team members. 4. Coordinate with ERT members and local administration; 5. Continuous communication, seeking external assistance from police, fire brigade, district administration and company head office, Evacuation & Rescue Measures, Medical Care, arrangement for transportation & other logistics etc. 6. Communicate to concern project director and corporate office. 7. Do the hade count with help of the concern department Head. 8. Briefing about the emergency. 9. Announce the all clear signal after

		getting information from fire fighting team, first aid team and rescue team.
	Post Emergency	<ol style="list-style-type: none"> 1. Determine the extent of damage in emergency; 2. Carry out detailed technical assessment of damage with help of concern Department Heads; 3. Assist in construction of temporary shelters if required; 4. Arrange technical assistance and supervision for re-start-up of work; 5. Take steps to ensure speedy repair and restoration of transport links. 6. Prepare the corrective and preventive action plan to avoid the reoccurrence if emergency is not natural. Communicate the action plan to the all department heads through the training.
Fire Fighting Team	Pre-Emergency	<ol style="list-style-type: none"> 1. Periodically maintenance and inspection of firefighting system. 2. Training on use of the firefighting equipment's. 3. Quarterly revision of firefighting plan and procedures. 4. Monitor & Review scarcity of water and other fire extinguishers.
	During Emergency	<ol style="list-style-type: none"> 1. Activate the firefighting procedure as per the brief discussion with witness / observer and Incident controller; 2. Guide and evacuate the trapped persons or workers; 3. Continuous communication with Incident controller; 4. Guide firefighting team members to extinguish the fire; 5. Coordinate with Rescue and First Aid team members; 6. After cease the fire, report it to Incident controller; 7. Re-investigate incident place for verification of a residual fire; 8. After verification and confirming 100% cease of fire, fire chief will communicate to Incident controller and give all clear signal on aspect of fire.
	Post	<ol style="list-style-type: none"> 1. Assess the damaged property with help

	Emergency	<p>of concern department head.</p> <p>2. Will do the house keeping with help of concern department head and work place in charge.</p>
Rescue Team	Pre Emergency	<p>1. Awareness Training on use of rescue equipment Quarterly revision of rescue plan</p>
	During Emergency	<p>1. Activate the rescue procedure as per the brief discussion with witness / observer and Incident controller;</p> <p>2. Assess the emergency situation and provide the required help to trapped person or workers.</p> <p>3. Continuous communication with fire fighting team, first aid team and incident controller.</p> <p>4. Start searching procedure at various location of incident place.</p> <p>5. After 100% evacuation and rescue of victim. Rescue Team Leader will inform to the incident controller.</p>
	Post Emergency	<p>1. Arrange the transportation to hospitalise the trapped person;</p> <p>2. Manage the crowd control;</p> <p>3. Do the traffic Management.</p>
First Aid team	Pre Emergency	<p>1. Provide training on First aid procedure to all team members.</p> <p>2. Update & maintain the first Aid treatment</p> <p>3. Regularly check, maintain and confirm the first aid contents.</p>
	During Emergency	<p>1. Activate first aid procedure as per the guideline of incident controller.</p> <p>2. Provide the appropriate first aid to the victim,</p> <p>3. Assess the emergency situation and provide the required help to victim and injured worker.</p> <p>4. If required send the victim to the nearby hospital for further treatment.</p> <p>5. Continuous communication with incident controller.</p>
	Post Emergency	<p>1. Participate in a Damage assessment team for the assessment of damaged property.</p> <p>2. Maintain the first Aid items.</p>

10. Details of Probable Emergencies & it emergency equipment's

Accident due to heavy equipment/machinery

1.Department involved in this emergency : Plant & Machinery, Execution Department, HR

2. Equipment needs to handle this emergency: Crane, Toe-van, Ambulance, ERT Vehicle etc. 3.
Contact Details for this Emergency

Sr.No	Equipment Details	Service Supplier Name	Contact Number/Name of Driver
(Company has its own equipment)			

3	Toe-Van
4	ERT /Patrolling Vehicle
5	Ambulance
6	Hospital

Accident/Mis happening over river bridge during construction

1.Department involved in this emergency : Plant & Machinery, Execution Department, HR

2. Equipment needs to handle this emergency: Ambulance, ERT /Patrolling Vehicle, Crane, boat, Rope, PPEs, (floating jackets, Safety belt)etc.

Sr.No	Equipment Details	Service Supplier Name	Contact Number/Name of Driver
(Company has its own equipment)			

3	Toe-Van
4	ERT /Patrolling Vehicle
5	Ambulance
6	Hospital

Accidents due to fly rock during excavations/drilling.

1.Department involved in this emergency : Execution Department, Plant & Machinery, HR

2. Equipment needs to handle this emergency: Ambulance, ERT /Patrolling Vehicle
etc.

3. Contact Details for this Emergency

Sr.No	Equipment Details	Service Supplier Name	Contact Number/Name of Driver (Company has its own equipment)
1.	ERT /Patrolling Vehicle		
2.	Ambulance		
3.	Crane		

Fire & explosion to fuelling station and Store

1.Department involved in this emergency : Store, Execution Department, Plant & Machinery ,HR

2. Equipment needs to handle this emergency: Ambulance, ERT /Patrolling Vehicle etc. 3.
Contact Details for this Emergency

Sr.No	Equipment Details	Service Supplier Name	Contact Number/Name of Driver (Company has its own equipment)
1	Crane		
2	Hydra		
3	Fire brigade		
1	ERT /Patrolling Vehicle		
2	Ambulance		
3	Hospital		

Road Accident

1.Department involved in this emergency : HR, Execution Department, Plant & Machinery

2. Equipment needs to handle this emergency: Ambulance, ERT /Patrolling Vehicle etc.

3. Contact Details for this Emergency

Sr.No	Equipment Details	Service Supplier Name	Contact Number/Name of Driver (Company has its own equipment)
1	Crane	Best Crane Services Bharuch	097148 14817
2	Hydra		
3	Fire brigade		02642-241101
4	ERT /Patrolling Vehicle (As per Requirement)		
5	Ambulance	UAS (Umar daraz Ambulance serv.)	9152669245, 33,
6	Hospital	Civil Hospital Bharuch	02642-243515

Chemical Spill

1.Department involved in this emergency : Store, Plant & Machinery, Execution Department, HR

2. Equipment needs to handle this emergency: Chemical Spill Kit, ERT /Patrolling Vehicle

etc. 3. Contact Details for this Emergency

Sr. No	Equipment Details	Service Supplier Name	Contact Number/Name of Driver
(Company has its own equipment)			

- | | |
|----|---|
| 1. | Contaminate drums to collect the chemical Spill |
| 2. | Spill Kit (Absorbent Pillows, Absorbing pads) |

Robbery

1.Department involved in this emergency : Accounts, Store, Execution Department, Plant & Machinery, HR

2. Equipment needs to handle this emergency: Patrolling Vehicle etc.

3. Contact Details for this Emergency

Sr. No	Agency /Authority Details	Name and Address of police station	Contact Number
1	Security Agency Head		
2	Police		
3	Corporate office		
4	NHAI Officials		

1. Camp-Plan layout



Final Camp
Layout-VKE-Pck-4-Gu

2. Emergency Contact No.

S.No	Name/Agency	Contact No
1.	Project Incharge	7042580903/9081912010
2.	Safety Officer	9081912078/9081912079
3.	First Aider	
4.	Fire Brigade	02642-241101
5.	Civil Hospital, Station Road, Near Nagar Palika	02642-243515

3. Emergency Contact Details –District Disaster Plan (Attached)
(Bharuch-Gujrat)

S.No	Name/Agency	Contact No
1.	District Collector Office	2642-240600; 240602
2.	District Helpline	2642-1077
3.	Commissioner of Rescue & Relief	1077
4.	District Emergency Operation Centre office No.	2642-243300



disaster-managemen
t-plan-Bharuch.pdf

Drill Summary Report

Date of drill: 15.01.2021

Time of drill: 9.00 AM

Location: Base Camp A1

Type of Drill: Fire Fighting & Safety Training to all security guards, drivers, operators and staff

Drill Scenario:

Sequence of events:-

1. Awareness training given to all drivers and operators about Incase of fire incident at site.
2. How to implement of an incident controlling measures are explained to the guards, operators, drivers and staff.
3. Visualized the sample of an incident and explained briefly of demonstration.
4. Explained about primary steps after an incident (how to fight on fire)
5. Explained about rescue of an injured person from the accident location
6. Explained about Fire fighting on the fire incident.
7. Practically explained and given demonstration on how to extinguish of fire and controlled.

Good Point:-

1. Well discipline maintained by security guards drivers and operators and staff while the drill
2. All security guards, drivers ,operators and staff are interested do the demonstration of fire.

Negative Observations:-

Action Plan on Negative Observations

Management Representative

Issued By

Health, Safety and Environment Work Instructions

Doc. No.: FR/CO/DO/PR/HSE/11

REF.: WI/CO/DO/PR/HSE/32

Pages :Page 2 of 3

Issue No: 02

Issue Date: 01st Aug 2018

Rev. No.: 01

Revision Date : 01st Aug 2018

Title: Mock Drill Report

Photographs:

Basic information given about incase of fire Incident at site to Guards, drivers, operators and staff

Provide information of the Fire Triangle, Classification of Fire, Types of Extinguishers and precautionary measures for preventing Electrical Fire, Chemical Fire, In case of emergency.

**Fire Fighting Demonstration****Explained about how to extinguish of fire**

Prepared by
HSE-Officer

[Signature]
15-01/2021

Approved by
HSE- Committee

[Signature]

Management Representative

Issued By