Environmental and Social Due Diligence Report

Project Number: 47083-004
November 2020

INDIA: Accelerating Infrastructure Investment Facility in India – Tranche 3

DBL Mangalwedha Solapur Highways Private Ltd. (Part 2 of 4)

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

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वाचले:- 1) मृद व जलसंधारण विभाग यांचेकडील शासन निर्णय क्रमांक 2016/ प्र.क 227/जल-1 दि 29/11/2017.
2) प्रकल्प संचालक, रा.म.प्रा. सोलापूर यांचेकडील पत्र क्र. NHAI/PIU/SLP/Sangli-solapur/ NH-166 ROYALTY/2018-19/6092 दिनांक 16.10.2019
3) जिल्हा जलसंधारण अधिकारी जि.प. (ज.प.) सोलापूर यांचेकडील पत्र क्र.जा.क्र.जिपसो/जिजअ/लपा/ रेशा-1572/19 दि.20.12.19
4) कार्यालयीन मंजूर टिपणी दिनांक 17 / 03 /2020.

जिल्हाधिकारी कार्यालय सोलापूर
क्र.मशा/कार्या.2/गौख/आरआर-3232/2020
सोलापूर दिनांक:- 18 / 03 / 2020

आदेश

विषय:- राष्ट्रीय महामार्गांच्या विकास कामासाठी महामार्ग लगत असणा-या तलाव / कालवा / पाझर तलाव मधुन मुरुम / दगड याकरिता जलसंधारणाच्या उपचारांची सांगड घालणेबाबत मुरुम / दगड उत्खननास परवानगी मिळणेबाबत.

मृद व जलसंधारण विभाग, महाराष्ट्र शासन, यांचेकडील शासन निर्णय दिनांक 29 नोव्हेंबर 2017 अन्वये राष्ट्रीय महामार्गांच्या कामासाठी तलावातुन विनामूल्य गौणखनिज (माती / मुरुम / दगड) उत्खनन करुन राष्ट्रीय महामार्गांच्या विकास कार्यक्रमाशी सांगड घालण्याच्या प्रस्तावास शासनाकडुन निर्देश प्राप्त झाले आहे.

शासन निर्णय दि.29 नोव्हेंबर 2017 अन्वये मोठया प्रमाणात जलसंधारणाचे /मृदसंधारणाचे उपचार करण्यात येत आहे. तसेच नाला खोलीकरण/ रुंदीकरण, नाल्यातील गाळ काढणे यांचे देखील काम मोठया प्रमाणात हाती घेण्यात आले असुन केंद्र शासनाच्या रस्ते वाहतूक व महामार्ग मंत्रालयमार्फत राबविण्यात येत असलेल्या महामार्ग विकास कार्यक्रमासाठी आवश्यक असलेली माती/मुरुम/दगड याकरिता जलसंधारणाच्या उपचारांची सांगड घालणेबाबत निर्देश दिले आहे.

दि.29 नोव्हेंबर 2017 च्या शासन निर्णयानुसार प्रस्तावित केलेल्या रस्त्याच्या लगतच्या तलावातुन मुरुम/दगड उत्खनन केलेस उक्त तलावात एकुण 2,00,000 ब्रास मुरुम/दगड उपलब्ध होणार असुन त्यामुळे सदरच्या तलावाची पाण्याची क्षमतेमध्ये (5.84 लक्ष घ.मी.) वाढ होण्यास मदत होणार आहे. तसेच तलावातुन मुरुम/दगड गाळ काढुन त्यांची पुनरुज्जीवन होणार मदत होणार असुन उपयोगात नसलेले मुरुम/दगडाची रस्त्याच्या कामाकरिता उपयोगात येणार असल्याने याचा दुहेरी फायदा होणार आहे.

संदर्भ क्र. 2 अन्वये प्रकल्प संचालक, राष्ट्रीय महामार्ग प्राधिकरण, सोलापूर यांचेकडुन प्रस्ताव प्राप्त झालेले आहे. त्यानुंषगाने संदर्भ क्र. 3 अन्वये जिल्हा जलसंधारण अधिकारी, जिल्हा परिषद (जि.प.) सोलापूर यांनी मंगळवेढा तालुक्यातील कचरेवाडी-1, कचरेवाडी-2, मरवडे-1 येथील तलावात नमुद खोलीपर्यंत आणि नमुद ब्रासपर्यंत मुरुम/दगड उत्खनन करणेस हरकत नसलेबाबत लेखी इकडील कार्यालयास कळविले आहे.

त्यानुंषगाने राष्ट्रीय महामार्गालगत असणाऱ्या तलावामधून खालील तक्त्यात नमुद केलेप्रमाणे क्षेत्र / खोली / नमुद ब्रास इतकेच मुरुम उत्खनन करणेस खालीलप्रमाणे अटी व शर्ती 1 ते 15 व उक्त संदर्भ क्र.1 शासन निर्णयातील अटी व शर्तीस अधीन राहून गौणखनिज (मुरूम / दगड) उत्खनन करणेस या आदेशाद्वारे मान्यता देणेत येत आहे.

अ. क्र.	उपयुक्त रस्त्याचे नाव	तलावाचे नाव	उत्खननास उपलब्ध क्षेत्र (हेक्टर मध्ये)	उत्खननास उपलब्ध खोली (मी मध्ये)	अंदाजित परिमाण (मुरुम/दगड) ब्रासमध्ये
1	2	3	4	5	6
1	मंगळवेढा-सोलापूर (NH-166)	कचरेवाडी-1 (पाझर तलाव)	--	1.00	1,25,000
		कचरेवाडी-2 (पाझर तलाव)	--	1.00	55,000
		मरवडे (पाझर तलाव)	--	1.00	20,000
		एकूण			2,00,000

1) प्रकल्प संचालक, राष्ट्रीय महामार्ग प्राधिकरण, सोलापूर यांनी वरील लक्ष्यात नमुद तलावातुन संबंधित कार्यकारी अभियंता यांनी निश्चित केलेल्या खोलीपर्यंत उत्खनन करण्याची व निश्चित परिमाण एवढेच मुरुम काढण्याची दक्षता घ्यावी. **सदर प्रक्रियेमध्ये उत्खनन करताना वाळू उपलब्ध झाल्यास वाळूचे उत्खनन करता येणार नाही.**

2) या कार्यालयाकडून प्राप्त होणाऱ्या आदेशानुसार जलसंधारण कामाशी संबंधित यंत्रणेने तसेच प्रकल्प संचालक, राष्ट्रीय महामार्ग प्राधिकरण, सोलापूर (NHAI) यांच्यासोबत सामंजस्य करार करावा व सर्व संबंधितांची अंमलबजावणी योग्य प्रकारे समन्वय साधणेबाबत कार्यवाही करावी.

3) प्रकल्प संचालक, राष्ट्रीय महामार्ग प्राधिकरण, सोलापूर (NHAI) यांच्यासोबतच्या सामंजस्य करारामध्ये प्रामुख्याने, नवीन शेततळी खोदणे किंवा अस्तित्वातील शेततळयामध्ये गाळ काढणे, नाला खोलीकरण / रुंदीकरण करणे, नाल्यातील / साठवण तलाव / पाझर तलावातील माती / मुरुम / दगड काढणेबाबतची जबाबदारी ही संबंधित कंत्राटदार/ठेकेदार यांची राहील. सदरचे काम संबंधित राष्ट्रीय महमार्गाचे काम करणारा कंत्राटदार/ठेकेदार हा गौणखनिज (माती / मुरुम / दगड) वाहतूक/उत्खनन स्वखर्चाने करेल. सदर गौणखनिजाचा वापर त्यांना मंजूर केलेल्या राष्ट्रीय महामार्गाच्या कामासाठी करणेत येईल व अशा गौणखनिजांची विक्री किंवा वापर इतर कोणत्याही प्रयोजनासाठी करता येणार नाही. खोदकामाच्या ठिकाणापासून पोहोच रस्ता उपलब्ध नसल्यास असा पोहोच रस्ता तयार करण्याची जबाबदारी कंत्राटदाराची राहील. खोदकामात तसेच वाहतूकीबाबत शासनाच्या प्रचलित नियमांचे अनुपालन करणेची जबाबदारी संबंधित कंत्राटदाराची राहील.

4) जलसंधारण कामाबाबतची संबंधित कार्यान्वयन यंत्रणा व क्षेत्रीय महसूल कर्मचाऱ्याच्या उपस्थितीत सदर जागेची मोजणी करुन सीमांकन करणेत यावे. सीमांकन केलेल्या क्षेत्रामध्येच कंत्राटदाराने उत्खनन करणे बंधनकारक राहील. सीमांकन केलेल्या क्षेत्राबाहेर संबंधित कंत्राटदाराने उत्खनन केल्यास कंत्राटदार/ठेकेदार महसुल अधिनियम 1966 कलम 47 (7) (8) अन्वये दंडात्मक कारवाईस पात्र राहील.

5) सदर गौणखनिज राष्ट्रीय महामार्गाच्या कामासाठी विनामूल्य देण्यात येणार असल्याने, या गौणखनिजाची वाहतूक करणेसाठी महसूल विभागाकडील वाहतूक परवान्याची आवश्यकता नाही. तथापि, या गौण खनिजांची वाहतूक उक्त रस्त्याची कामासाठी होत असल्याची पडताळणी करण्याच्या दृष्टीने वाहतूक परवाने संबंधित कार्यान्वित यंत्रणा म्हणजेच राष्ट्रीय महामार्ग प्राधिकरण (NHAI) निर्गमित करेल. अशा वाहतूक परवान्यामध्ये गौण खनिजाचे उत्खननाचे ठिकाण, वापर करण्यात येणारे ठिकाण (राष्ट्रीय महामार्गाचे कि.मी. क्रमांक, (chainange), ठेकेदाराचे नाव, वाहतूक करण्यात येणाऱ्या गौणखनिजाचे नाव, परिमाण, दिनांक व वेळ, याबाबींचा समावेश करण्यात यावा. गौणखनिजाची वाहतूक करताना मूळ वाहतूक परवाना वाहनासोबत ठेवण्यात यावा व वापराच्या ठिकाणी गौणखनिज उतरुन घेतलेनंतर सदर वाहतूक परवाना संबंधित कार्यकारी अभियंता यांनी ताब्यात घेऊन रद्द करावा. कार्यान्वयन यंत्रणेने निर्गमित केलेले परवाने कार्यकारी अभियंता यांनी जिल्हाधिकारी कार्यालयात जमा करावेत.

6) जलसंधारणाची कामे पूर्ण झालेनंतर संबंधित महसूल यंत्रणेने प्रकल्प संचालक, राष्ट्रीय महामार्ग प्राधिकरण, सोलापूर (NHAI), संबंधित शेतकरी यंत्रणेचे प्रतिनिधी यांच्या समक्ष खोदकामाची मोजणी करणेत यावी. यामध्ये मंजुर खोलीपेक्षा जास्त खोल व मंजुरीपेक्षा जास्त खोदकाम झाल्याचे आढळून आल्यास, ठेकेदाराची ही कृती प्रकल्प संचालक, राष्ट्रीय महामार्ग प्राधिकरण, सोलापूर (NHAI), यांचेशी संबंधित क्षेत्रीय अभियंत्यांच्या निदर्शनास लेखी आणून गौणखनिज उत्खननापोटी / वापरापोटी वाढीव स्वामित्वधनाची रक्कम 30 दिवसाच्या आत शासनजमा करण्याबाबत संबंधित ठेकेदारास विनाविलंब कळविणेत यावे. संबंधित ठेकेदाराने 30 दिवसाच्या आत गौणखनिजाच्या वाढीव उत्खननापोटी/वापरापोटी स्वामित्वधनाची रक्कम शासनजमा करावी. संबंधित ठेकेदाराने 30 दिवसाच्या आत गौणखनिजाच्या वाढीव उत्खननापोटी / वापरापोटी स्वामित्वधनाची रक्कम शासनजमा न केल्यास संबंधित ठेकेदार नियमानुसार व शासनाच्या घोरणाप्रमाणे दंडात्मक कारवाईस पात्र राहील.

7) जलसंधारणाच्या कामामधून महामार्गांच्या कामासाठी किती गौणखनिजाच्या वापर करण्यात आला आहे. याबाबतचे उपयोगिता प्रमाणपत्र प्रकल्प संचालक, राष्ट्रीय महामार्ग प्राधिकरण, सोलापूर (NHAI) यांच्या संबंधित कार्यकारी अभियंता यांनी जिल्हाधिकारी कार्यालयात सादर करणे आवश्यक राहील.

8) सदर ठिकाणी उत्खननापूर्वी संबंधित कंत्राटदार / ठेकेदाराला तात्रा देणेपूर्वी तलाव/पाझर तलावामध्ये किती मुरुम उपलब्ध आहे त्याबाबत पंचनामा करावा तसेच उत्खनन पूर्ण झालेनंतर पुनश्च सदर जागेमध्ये झालेल्या उत्खननाची लांबी, रुंदी, खोली यांचा उल्लेख करुन पंचनामा करावा मोजणीअंती मंजूर परिमाणापेक्षा जास्त उत्खनन झालेले असल्यास उक्त शासन निर्णय दि.29.11.18 मधील परिच्छेद क्र.8 मध्ये नमुद केलेनुसार कारवाई करणेची जबाबदारी ही संबंधित उपविभागीय अधिकारी/तहसिलदार यांची राहील.

9) तलावातुन गौणखनिज माती / मुरुम / दगड उत्खनन करताना उक्त तलावाची संरचना (Structure) अबाधितपणे राहणे हे अत्यंत महत्त्वाचे आहे. त्या तलावातुन गौणखनिजाचे चोरी / तस्करी होणार नाही. तसेच तलावाच्या मूळ हेतूस कोणत्याही स्वरुपाची हानी अथवा बाधा पोहचणार नाही याची खबरदारी कार्यान्वीयन यंत्रणेने घ्यावी.

10) संबंधित कार्यकारी अभियंता, कंत्राटदार यांनी उत्खननाबाबत व वापराबाबतचे सर्व अभिलेख दर आठवड्याला जिल्हाधिकारी कार्यालयास सादर करावेत.

11) नमुद तलावातुन गौणखनिजाचे उत्खनन व वाहतूक करताना नुकसान/दुर्घटना/ अपघात झाल्यास त्याचे नुकसान देणेचे दायित्व व कायदेशीर उपाययोजनेच जबाबदारी संबंधित यंत्रणा तसेच कंत्राटदार यांचेवर राहील.

12) वर नमुद अटी/शर्तींचा भंग झालेस तसेच गंभीर स्वरुपाच्या तक्रारी निष्पन्न झालेस सदर आदेश रद्द करणेस पात्र राहील.

13) उक्त ठिकाणावरुन उत्खनन केलेल्या गौणखनिजाचा वापर केवळ राष्ट्रीय महामार्गांच्या कामासाठी करावयाचा असुन संबंधिताकडुन सदर गौणखनिजाचा वापर कोणत्याही परिस्थितीत व्यवसायिक प्रयोजनासाठी होणार नाही याची दक्षता संबंधित प्रकल्प संचालक, राष्ट्रीय महामार्ग प्राधिकरण, सोलापूर, कार्यकारी अभियंता यांनी वेळोवेळी दक्षता घ्यावी. तसे निदर्शनास आल्यास भविष्यात होणाऱ्या परिणामास प्रकल्प संचालक, राष्ट्रीय महामार्ग प्राधिकरण, सोलापूर, संबंधित कार्यकारी अभियंता संबंधित कंत्राटदारास जबाबदार धरणेत येईल.

14) संबंधित कार्यान्वयीन यंत्रणा यांचेकडुन आदेशीत करण्यात येणाऱ्या तलावातील प्रत्यक्ष ज्या ठिकाणी उत्खनन करावयाचे आहे त्या क्षेत्राच्या सीमांकनाची नकाशावर व प्रत्यक्ष जागेवर निश्चिती करुन या कार्यालयास नकाशा व छायाचित्रासह सादर करणेचे अटीवर आदेश देणेत येत आहे. (क्षेत्राची लांबी, रुंदी, खोली इ.)

15) जिल्हा जलसंधारण अधिकारी, जि.प.सोलापूर यांनी खोदकाम / उत्खननापुर्वीची मोजमापे व उत्खनन सुरु असताना व पूर्ण झाल्यानंतर वेळोवेळी मोजमापे व छायाचित्र/ फोटो घेण्याची दक्षता घ्यावी व ठरवून दिल्याप्रमाणे व मंजुर परिमाणाचे उत्खनन होईल यावर नियत्रंण ठेवावे.

16) कार्यान्वयीन यंत्रणा, जलसंधारण विभाग व महसुल यंत्रणा (उतहसीलदार) यांनी होणाऱ्या उत्खननाबाबत व संबंधित कंत्राटदार त्यांना दिलेल्या अटीवर व शर्तीचे पालन करतात अगर कसे याबाबत वेळोवेळी प्रत्यक्षरित्या पहाणी करावी व त्याबाबतचा अहवाल प्रकल्प संचालक, (NHAI) यांचेमार्फत या कार्यालयाकडे पाठवावे.

नमुद अटी व शर्तीचा संबंधित कंत्राटदार यांचेकडुन भंग होणार नाही याबाबतची संपूर्ण जबाबदारी ही जिल्हा जलसंधारण अधिकारी, जि.प.सोलापूर, उपविभागीय अधिकारी, तहसीलदार, प्रकल्प संचालक, राष्ट्रीय महामार्ग प्राधिकरण, सोलापूर (NHAI), सोलापूर आणि संबंधित कंत्राटदार यांची राहील.

(संजीव जाधव)
अपर जिल्हाधिकारी, सोलापूर.

मा.जिल्हाधिकारी यांचे मान्यतेने

प्रति:- **प्रकल्प संचालक, राष्ट्रीय महामार्ग प्राधिकरण, (NHAI) सोलापूर.**
सदर आदेशाची प्रत संबंधित कंत्राटदारास आपल्यास्तरावरुन बजाविणेत यावी. उक्त तलावातून गौणखनिज (मुरुम/दगड) उत्खनन व वाहतूक करताना तलावाच्या सुरक्षितता अबाधित रहावी आणि त्या तलावास कोणत्याही स्वरुपाची हानी अथवा बाधा पोहोचणार नाही याची वेळोवेळी तपासणी आपल्या कार्यकारी अभियंता यांचेमार्फत करणेची जबाबदारी आपली राहील. तसेच तलावातुन गौणखनिज (मुरुम / दगड) जिल्हा जलसंधारण अधिकारी, जि.प.सोलापूर यांनी दिलेल्या खोलीपर्यंत उत्खनन तसेच मंजुर परिमाणापेक्षा जास्त उत्खनन होणार नाही याची वेळोवेळी तपासणी करणेची जबाबदारी आपली राहील.

प्रत:- **तहसिलदार मंगळवेढा**
संबंधित कंत्राटदार / ठेकेदार यांना देणेत आलेल्या तलावातुन गौणखनिज (मुरुम / दगड) जिल्हा जलसंधारण अधिकारी, जि.प.सोलापूर यांनी दिलेल्या खोलीपर्यंत उत्खनन तसेच मंजुर परिमाणापेक्षा जास्त उत्खनन होणार नाही याची वेळोवेळी तपासणी करणेची जबाबदारी आपली राहील.

तसेच संबंधित यंत्रणेला आदेशीत केलेल्या पाझर तलावातुन गौणखनिज (गाळ/मुरुम/दगड) उत्खनन करणेपुर्वी संबंधित वनपरिक्षेत्र अधिकारी यांचे अभिप्राय घेऊन उत्खनन करणेबाबत उक्त पाझर तलावाचा ताबा देणेत यावा.

प्रत:- **जिल्हा जलसंधारण अधिकारी, जिल्हा परिषद. (ल.पा) सोलापूर.**
संबंधित कंत्राटदार / ठेकेदार यांना देणेत आलेल्या तलावातुन गौणखनिज (मुरुम / दगड) दिलेल्या खोलीपर्यंत उत्खनन तसेच मंजुर परिमाणापेक्षा जास्त उत्खनन होणार नाही याची वेळोवेळी तपासणी करणेची जबाबदारी संबंधित कार्यकारी अभियंता यांची राहील.

तसेच उक्त तलावातील प्रत्यक्ष उत्खनन करावयाच्या क्षेत्राची लांबी, रुंदी, खोली इ.बाबत संबंधि कार्यान्वयीन यंत्रणा यांचेकडुन प्रत्यक्ष जागेवर तसेच त्याबाबत नकाश्यावर सीमाकांन करुनच उत्खन करणेकामी संबंधितांना ताबा देणेत यावे.

(संजीव जाधव)
अपर जिल्हाधिकारी, सोलापूर.

मा.जिल्हाधिकारी यांचे मान्यतेने

Tel No. 020-26451461
Email : rlc.pune-mh@nic.in

By Hand / ~~Regd A.D.~~

GOVERNMENT OF INDIA
MINISTRY OF LABOUR AND EMPLOYMENT
OFFICE OF THE REGIONAL LABOUR COMMISSIONER ©
1, Kaul Building, Shankar Seth Road,
Gurunanak Nagar Pune-411042.

File No. CLRA/RLCPUNE/2019/L-39

Dated: 30.01.2020

To,
M/s. Dilip Buildcon Limited,
(Mangalweda Highways Pvt. Ltd.,),
Plot no. 5, Inside Govend Narayan Singh Gate,
Chunabhatti Kolar Road, Chunabhatti,
Bhopal - 462016.

Sub:- **Application for renewal of License under Contract Labour (Regulation & Abolition) Act, 1970 – M/s. Dilip Buildcon Limited, Bhopal.**

Ref:- Your application / letter No. Nil dated 30.01.2020 for renewal of the licence.

Dear Sir,

With reference to the above, enclosed find herewith the licence no. CLRA/RLCPUNE/2019/L-39, which has been renewed for further period of one year and is valid upto 24.02.2021.

Please acknowledge the receipt.

Yours faithfully,

(J N S Chaudhary)
Regional Labour Commissioner©
Pune.

Encl: As above.

Copy to the LEO(C), Pune for information.

License No: CLRA/RLCPUNE/2019/L-39 dated 24.02.2019

Name of the Contractor: M/s. Dilip Buildcon Limited, Bhopal.

RENEWAL / AMENDMENTS

Date of renewal	Fees paid for renewal	Date of Expiry	Amendment if any				Seal & Signature of the Licensing Officer
			Date of Amendment	No. of workers in licence	No. of workers added	Total	
30.01.2020	Rs.188/-	24.02.2021	-	-	-	-	30.1.20 R.L.C. (C) PUNE

HDFC ERGO General Insurance Company Limited

June 24, 2020

DILIP BUILDCON LIMITED

PLOT NO. 5, GOVIND NARAYAN SINGH GATE,
CHUNA BHATTI, BHOPAL,MADHYA PRADESH,
BHOPAL,
MADHYA PRADESH,462016.

Dear Customer,

Sub: Employees Compensation Insurance Policy No: 3114203429415400000

We thank you for having preferred us for your *Insurance* requirements. We at HDFC ERGO General Insurance believe "***Insurance***" as not only to be an assurance to indemnify in the event of unfortunate circumstances, but one that signifies protection and support, which you can count on when you need it most.

The Insurance Policy enclosed herewith is a written agreement providing confirmation of our responsibility towards you that puts insurance coverage into effect against stipulated perils.

Please note that the policy has been issued based on the information contained in the proposal form and / or documents received from you or your representative / broker.

Name of the Intermediary	:	GLOBAL INSURANCE BROKERS PVT LTD
Intermediary Code	:	200113159601

Where the proposal form is not received, information obtained from you or your representative /broker, whether orally or otherwise, is captured in the policy document.

If you wish to contact us in reference to your existing policy and /or other general insurance solutions offered by us, you may write to our correspondence address as mentioned below. Alternatively, you may visit our website www.hdfcergo.com . To enable us to serve you better, you are requested to quote your Policy Number in all correspondences.

Thanking you once again for choosing HDFC ERGO General Insurance Company Limited and looking forward to many more years of association.

Yours sincerely,

Authorised Signatory

HDFC ERGO General Insurance Company Limited (Formerly HDFC General Insurance Limited)
UIN : IRDAN125P0017V02201112 | IRDAI Reg No.146 | CIN : U66030MH2007PLC177117

Registered & Corporate Office:
1st Floor,HDFC House, 165 - 166 Backbay Reclamation,
H. T. Parekh Marg, Churchgate, Mumbai - 400 020

Customer Service Address:
D-301, 3rd Floor, Eastern Business District (Magnet Mall),
LBS Marg, Bhandup (West), Mumbai - 400 078

Toll Free Number: 1800 2700 700
Telephone : +91 22 6638 3600 Fax: 91 22 6638 3699
Email : care@hdfcergo.com

HDFC ERGO General Insurance Company Limited

Certificate of Insurance cum Policy Schedule

Policy No. 3114203429415400000 **Employees Compensation Insurance**

Insured Name	DILIP BUILDCON LIMITED (PAN Number:AACCD6124B)	**Business**	OTHERS
Correspondence Address	PLOT NO. 5, GOVIND NARAYAN SINGH GATE,CHUNA BHATTI, BHOPAL,MADHYA PRADESH,BHOPAL,MADHYA PRADESH,462016.		

Mobile		**Phone**		**E Mail**		**Policy Issuance Date**	24/06/2020

Period of Insurance	From Date & Time	25/06/2020 00:01 AM	To Date & Time	24/06/2021 Midnight

LAW

The Policy covers Liability of the Insured under the following Law(s) shown as covered, subject to claim being otherwise admissible as per terms, conditions and exclusions of the Policy and subject to Limit of Indemnity as stipulated against each Law:

Sr. No.	Law	Limit of Indemnity
a.	Employee's Compensation Act, 1923 and subsequent amendments thereof prior to the date of issue of this Policy	Subject otherwise, to the terms, conditions & Exclusions of the Policy, the amount of liability incurred by the Insured
b.	Common Law	Subject otherwise, to the terms, conditions & Exclusions of the Policy, the amount of liability incurred by the Insured, but not exceeding:-
		a) Limit Per Employee for any number of accidents during Period of Insurance ₹. Unlimited
		b) Limit Per Accident for any number of Employees ₹.Unlimited
		c) Aggregate Limit for all accidents and claims arising there from during the Period of Insurance ₹.Unlimited

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Toll Free Number: 1800 2700 700
Telephone : +91 22 6638 3600 Fax: 91 22 6638 3699

Details of Employees Covered

Description of work done by Employees	Declared Number of Employees	Declared Wages during the Period of Insurance	Place/Places of Employment
Road Paving, Tarring and Road Making_All categories of employees of DBL & Sub-contractor engaged in DBL - HighlySkilled, Skilled, Semi-Skilled,Unskilled, Engineers,Supervisors, Managers, Daily Labour Etc.	500	120000000.00	Four Laning of Sangli-Solapur (Package-IV: Mangalwedha to Solapur) Section of NH-166 from existing Ch. Km. 314.969 to Ch. 370.452 (Design Ch. Km. 321.600 to km 378.100) of length 56.500 Km in the State of Maharashtra on ¿ Hybrid Annuity Mode

Premium Details (₹)

Basic Premium	**78462.00**
Integrated Tax 18%	**14123.00**
Total Premium	**92585.00**

GST Registration No: 24AABCL5045N1ZE.The contract will be cancelled ab intio in case; the consideration under the policy is not realized.

List of Endorsements

Endt No	Description	Effective Date
EC_12_0003	Contractors Employees	25 June 2020
EC_12_0001	Medical Expenses	25 June 2020
WC-02-0008	Tariff Endorsement	25 June 2020
EC-13-0006	Insurance Contract	25 June 2020
EC-13-0005	Policy Schedule	25 June 2020
WC-03-0011	EXCLUSION - COMMUNICABLE DISEASE As per annexure	25 June 2020
	1) Warranted that there are no known losses and /or circumstances leading to losses (except for the claims and / or circumstances already reported to HDFC ERGO General Insurance Co. Ltd. 2) This policy document is issued basis the information provided though request for quotation and/ or unsigned proposal form and / or other details provided by the insured / insurance intermediary and/ or though discussions and our final quote sheet issued to you enabling the insurer to decide the terms and conditions of insurance contract. Your are requested to inform us	25 June 2020

HDFC ERGO General Insurance Company Limited (Formerly HDFC General Insurance Limited) UIN : IRDAN125P0017V02201112 | IRDAI Reg No.146 | CIN : U66030MH2007PLC177117

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Email : care@hdfcergo.com

	within 15 days of receipt of the policy document in the event of any error or omission in the information provided. Business : Construction of Road, Building and Other civil work related to insured trade	

Subject to terms and Conditions of Employees Compensation Insurance Policy attached herewith.

Mentioned are four special conditions for EC policy with context to the policy wordings.

1. Subrogation condition no.14 does not apply to this policy.
2. Average condition no. 9 does not apply to this policy. However, this is subject to adjustment of premium on the basis of actual number of employees and their wages at the time of claims.
3. This policy is issued to cover employer's legal liability for accidents to employees under - The Fatal Accidents Act, 1855.
4. The Wages declared is estimated wages for the Coming Year. Any Increase or Decrease in wages will be declared at the End of Policy & Subject to that Premium will be charged or refunded

Note: The stamp duty of Rs. 39.23 (Rupees Thirty-Nine And Twenty-Three Paise Only) is paid by Demand Draft as consolidated stamp duty, vide Receipt/Challan no CSD/293/2020/385/2020 dated 24/01/2020 as prescribed in Government Notification Revenue and Forest Department No Mudrank 2004/4125/CR 690/M-1, dated 31/12/2004

Invoice No	203429415400000	**GSTN No**	23AACCD6124B2ZD
Place of Supply	MADHYA PRADESH	**HSN Code**	997139
Policy Issuance Date	24-06-2020	**Branch**	AHMEDABAD(HGI)

For HDFC ERGO General Insurance Company Ltd.

Broker Name:GLOBAL INSURANCE BROKERS PVT LTD
Broker Code:200113159601

Duly Constituted Attorney

HDFC ERGO General Insurance Company Limited (Formerly HDFC General Insurance Limited)
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Toll Free Number: 1800 2700 700
Telephone : +91 22 6638 3600 Fax: 91 22 6638 3699
Email : care@hdfcergo.com

EMPLOYEES COMPENSATION INSURANCE

POLICY WORDINGS

WHEREAS the **Insured** by a Proposal which shall be the basis of this Contract and deemed to be incorporated herein, has applied to HDFC ERGO General Insurance Company Limited (hereinafter called "the Company") for the insurance hereinafter contained for the **Business** described in the **Schedule** and has paid or agreed to pay the premium stated in the **Schedule** as consideration for such insurance.

NOW THIS **POLICY** WITNESSETH, subject to the terms exceptions and conditions contained herein or endorsed hereon, that if at any time during the **Period of Insurance** any **Employee or Employees** of the **Insured** shall sustain **Injury** by accident arising out of and in the course of his employment in the **Business**, for which the **Insured** is liable to pay compensation under any Law(s) specified in the **Schedule**, then the Company shall indemnify the **Insured** up to the **Limit of Indemnity** against all sums for which the **Insured** shall be so liable, including costs and expenses for defending any such claim incurred with the Company's consent.

PROVIDED ALWAYS that in the event of any change in the Law(s) or the substitution of other legislation therefore, this **Policy** shall remain in force but the liability of the Company shall be limited to such sum as the Company would have been liable to pay if the Law(s) had remained unaltered.

DEFINITIONS

This Policy, the **Schedule** and any Clauses thereon shall be considered one document and any word or expression to which a specific meaning has been attached in Definitions bears that specific meaning wherever it appears in this Policy in bold typeface.

Business means the Business of the **Insured** as specified in the **Schedule** in respect of which this Policy is issued.

Injury means physical bodily injury including death resulting from such injury arising out of an accident but does not include any mental sickness, disease, **Occupational Disease**, unless caused by such physical bodily injury.

Insured means the person or organization specified in the Policy **Schedule** but does not include their Contractors or Sub Contractors.

Occupational Disease means any occupational disease or illness including but not limited to the diseases listed under Schedule III of the Employees' Compensation Act, 1923 contracted by an **Employee** due to employment in the **Business**.

Wages means the remuneration payable to an **Employee** by the **Insured** for the employment in the **Business** and includes any privilege or benefit which is capable of being estimated in money other than a travelling allowance or the value of any travelling concession or a contribution paid by the employer of an employee towards any pension or provident fund or a sum paid to an employee to cover any special expenses entailed on him by the nature of his employment;

Employee or Employees means such person or persons in direct employment under the **Insured** in the **Business**, but shall not include any person employed under a Contractor or Sub-Contractor of the **Insured** unless specifically shown as covered in the **Schedule and by an endorsement.**

Schedule means the Schedule attached to and forming part of this **Policy**.

Period of Insurance means the period for which this insurance is availed by the **Insured** as specified in the **Schedule**, unless cancelled earlier.

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LBS Marg, Bhandup (West), Mumbai - 400 078

Toll Free Number: 1800 2700 700
Telephone : +91 22 6638 3600 Fax: 91 22 6638 3699
Email : care@hdfcergo.com

Limit of Indemnity means the maximum amount of indemnity as specified in the **Schedule** that will be provided under this Policy by the Company in respect of

a) any particular claim by an **Employee** and

b) all claims arising out of all accidents for any number of **Employees** during the **Period of Insurance**.

EXCLUSIONS

This Policy shall not cover liability of the **Insured**:

(a) For **Injury** caused to **Employee** by accident directly or indirectly caused by or arising from or in consequence of or attributable to war, invasion, act of foreign enemy, hostilities (whether war be declared or not) civil war, mutiny, insurrection, rebellion, revolution or military or usurped power, nuclear weapons material, ionising radiations or contamination by radioactivity from any nuclear fuel or from any nuclear waste from the combustion of nuclear fuel.

(b) Accident occurring at any other place than the Place or Places of Employment specified in the **Schedule**, unless the **Employee** was at such other place whilst on duty for the purpose of the **Business** and on the directions of the **Insured** or any of its official authorized to exercise control and supervision over the **Employee**.

(c) For **Occupational Diseases** contracted by an **Employee**.

(d) For interest and/or penalty imposed on the **Insured** under any law or otherwise.

(e) Under any Law for medical expenses in connection with treatment of any **Injury** sustained by an **Employee**

(f) For persons employed in the **Business** under a Contractor or Sub-Contractor of the **Insured** unless specifically covered in the **Schedule**

(g) For **Injury** sustained by person whilst in the employ of the **Insured** otherwise than in the **Business** and/or who has is not declared for insurance under this Policy.

(h) Assumed by agreement which would not have attached in the absence of such agreement.

(i) For any sum which the **Insured** would have been entitled to recover from any party but for an agreement between the **Insured** and such party.

(j) For any accident occurring whilst the **Employee** is under the influence of intoxicating liquor or drugs.

(k) For any incapacity or death of an **Employee** resulting from his/her deliberate self-injury or the deliberate aggravation of an accidental **Injury**.

CONDITIONS

1. **The Contract:** This **Policy** and the **Schedule** shall be read together as one contract and any word defined herein and shown in bold shall bear such specific meaning wherever it may appear in the **Policy** or the **Schedule**.
2. **Due Observance:** The due observance and fulfilment of the terms, conditions and endorsements of this **Policy** so far as they relate to anything to be done or not to be done by the **Insured** shall be condition precedent to any liability of the Company to make any payment under this **Policy**.
3. **Mis-representation/Non-Disclosure:** This Policy shall be void in the event of any mis-representation or non-disclosure in the Proposal and the **Insured** is deemed to warrant the truth and accuracy of the statements and answers in the Proposal which form the basis of this Policy.
4. **Written Communication:** Every notice or communication to be given or made under this **Policy** shall be delivered in writing to the Company.
5. **Safeguards:** The **Insured** shall take reasonable precautions to prevent accidents and disease and shall comply with all statutory obligations, manufacturer's recommendations and other safety regulations in conduct of the **Business**.

HDFC ERGO General Insurance Company Limited (Formerly HDFC General Insurance Limited) UIN : IRDAN125P0017V02201112 | IRDAI Reg No.146 | CIN : U66030MH2007PLC177117

Registered & Corporate Office:
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H. T. Parekh Marg, Churchgate, Mumbai - 400 020

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6. **Claim Intimation:** In the event of any occurrence which may give rise to a claim under this **Policy** the **Insured** shall as soon as possible, and in any case within a period of thirty days of such occurrence, give notice thereof to the Company in writing with full particulars. Every letter claim writ summons and process shall be notified to the Company immediately on receipt. Notice shall also be given to the Company immediately the **Insured** shall have knowledge of any impending prosecution inquest or fatal enquiry in connection with any such occurrence as aforesaid.

7. **Company's Rights After Loss:** No admission offer promise or payment shall be made by or on behalf of the **Insured** without the consent of the Company which shall be entitled, without being obliged to do so, if it so desires to take over and conduct in his name the defence or settlement of any claim or to prosecute in his name for its own benefit any claim for indemnity or damages or otherwise and shall have full discretion in the conduct of any proceedings and in the settlement of any claim and the **Insured** shall give all such information and assistance as the Company may require.

8. **Declaration of Employees and Wages:** It is clearly agreed and Understood that the **Insured** shall be bound at all times to declare all **Employees** and **Wages** payable in respect of such **Employees** on the basis of which the Premium for this Policy is calculated.

   In case of increase in **Employees** or **Wages** subsequent to insurance, **Insured** shall keep the Company intimated and obtain Endorsement by payment of necessary additional premium.

   The **Insured** shall as and when require by the Company permit inspection of its records to verify the **Wages** and **Employees** and shall also provide duly authenticated copies thereof if so required the Company.

9. **Average:** Notwithstanding anything contained hereinabove,

   (i) a) If the number of **Employees** (whether on duty or otherwise) employed by the **Insured** on the date of accident is higher than the number covered under this Policy, the Company shall indemnify **Insured**'s liability arising out of such accident, only in such proportion that the number of **Employees** covered bears to the **Employees** found employed on the date of accident.

   b) If the amount of **Wages** declared for this insurance for all **Employees** is less than the actual **Wages** paid until date of accident, the Company shall be liable to indemnify on any claim only in proportion that the Wages declared bears to the **Wages** paid. For the purpose of this clause, the **Wages** declared shall be calculated proportionately for the period from commencement of Policy until date of accident for comparison with the actual **wages** paid during such period to determine applicability of this clause.

   c) If the liability of the **Insured** for any claim by an **Employee** is determined on the basis of **Wages** higher than covered under this Policy, the Company shall be liable to indemnify only in proportion that the **Wages** covered under the Policy for the **Employee/Employees** bears to the **Wages** on the basis of which **Insured** is held liable. For the purpose of this clause, the **Wages** covered in respect of any **Employee** shall be deemed to be the average wage per **Employee** in the category under which the **Employee** falls as specified in the **Schedule**, unless actual **Wages** paid at the time of accident is substantiated by submission of documentary evidence to the Company.

   (ii) If more than one of the above clauses is found applicable in respect of a claim, only such clause under which the liability of the Company is least shall be applied.

10. **Maintenance of record of Employees/Wages:** The **Insured** undertakes to maintain an accurate record of the **Employees** and **Wages** in respect of the **Business** throughout the **Period of Insurance**, in compliance with all statutory requirements or otherwise, and allow the **Company** to inspect such records during or upon expiry of this **Policy**.

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11. **Contribution:** If at the time of the happening of an accident covered by this **Policy** there shall be any other insurance covering the same risk in respect of the **Employee** whether or not effected by the **Insured**, then the Company shall not be liable to contribute more than its rateable proportion of the amount that would otherwise be payable under this Policy.

12. **Cancellation:** The **Insured** may cancel this **Policy** by sending at least 15 days written notice to the **Company** and in such event the premium shall be adjusted in accordance with Condition 8 above.

    Company also reserves the right to cancel this **Policy** immediately upon becoming aware of any mis-representation, fraud, non-disclosure of material facts or non-cooperation by or on behalf of the **Insured;** the **Company** is not obliged to refund the premium already paid under the **Policy**.

    Notice of cancellation will be mailed to the **Insured** last known address. If notice of cancellation is mailed, proof of mailing will be sufficient proof of notice.

    Company shall have no obligation to give notice that the **Policy** is due for renewal or renew this **Policy** upon expiration or cancellation.

13. **Forfeiture:** If the **Insured** shall make any claim or connive in the making of any claim, knowing the claim to be false or fraudulent, the **Policy** shall become void and all claims will stand forfeited.

14. **Subrogation:** In the event of any payment under this **Policy**, the **Company** shall be subrogated to the extent of such payment to all the **Insured's** rights of recovery and the **Insured** shall execute all papers required and shall do everything necessary to secure and preserve such rights, including the execution of such documents necessary to enable the **Company** effectively to bring suit in the name of each **Insured**.

15. **Alteration and Assignment:** No change in, modification of, or assignment of interest under this **Policy** shall be effective except when made by a written endorsement to this **Policy** which is signed by an authorised employee of the **Company**.

16. **Premium Payment:** It is hereby agreed that, as a condition precedent to any liability under this **Policy**, any premium due must be paid and actually received by the **Company** in full. However, where the remittance made by the **Insured** is not realised by the **Company** the **Policy** shall be treated as void-ab-inito

17. **Arbitration:**

a) If any dispute or difference shall arise as to the quantum to be paid under this **Policy** (liability being otherwise admitted) in respect of any claim, such difference shall independently of all other question be referred to the decision of a sole arbitrator to be appointed in writing by the parties to or if they cannot agree upon a single arbitrator to a panel of three arbitrators to be appointed in accordance with the provisions of the Arbitration and Conciliation Act, 1996. The arbitration shall be governed by Indian law. The venue of arbitration shall be within India.

b) It is clearly agreed and understood that no reference to arbitration can be made if the **Company** has either not admitted or has disputed liability in respect of any claim under or in respect of this **Policy**.

c) In the event that these arbitration provisions shall be held to be invalid then all such disputes or differences shall be referred to the exclusive jurisdiction of the Indian Courts.

d) It is further expressly agreed and declared that if the **Company** shall disclaim liability in respect of any claim and is not within 12 calendar months from the date of such disclaimer be made the subject matter of a suit or proceeding before a Court of law or any other forum, it shall for all purposes be deemed to have been abandoned and shall not thereafter be recoverable hereunder.

18. **Law and Jurisdiction**: It is hereby declared and agreed that this contract of insurance and all claims there under shall be governed by Indian Law and any legal proceeding in respect thereof shall be raised a competent court of India. All claims shall be paid in Indian Rupees only.

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Tariff Endorsement

Endorsement

Policy Period	Effective Date	From	00:01 hours	June 25, 2020
	Expiry Date	To (Midnight)		June 24, 2021
Effective Date	June 25, 2020			
Policy Number	3114203429415400000			
Insured	DILIP BUILDCON LIMITED			
Name of Company	HDFC ERGO General Insurance Company Limited			
Date Issued	June 24, 2020			

Tariff Endorsement	It is hereby understood and agreed that any work in connection with the use of explosives or in connection with the construction of sewers exceeding in any part a depth of 3 Metres from the surface or in connection with tunnelling is expressly excluded from the indemnity granted under this Policy. Subject to otherwise to the terms, provisions and conditions of the within Policy.

Authorised Representative

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Coverage for Contractors Workers/ Employees

Endorsement

Policy Period	Effective Date From 00:01 hours	: June 25, 2020
	Expiry Date To (Midnight)	: June 24, 2021
Effective Date	June 25, 2020	
Policy Number	3114203429415400000	
Insured	DILIP BUILDCON LIMITED	
Name of Company	HDFC ERGO General Insurance Company Limited	
Date Issued	June 24, 2020	

Coverage for Contractors Workers/ Employees	In consideration of the payment of an additional premium it is hereby understood and agreed that the indemnity herein granted is extended to cover the legal liability of the **Insured** to **Employees** in the employment of Contractors performing work for the **Insured** while engaged in the **Business** in respect of which the within Policy is granted, but only so far as regard claims under the Employees Compensation Act, 1923, and subsequent amendments of said Act prior to the date of the issue of this Policy.

1. Contractor's Name: Details to be provided at time of claim
   Registered Address: Details to be provided at time of claim

Sr. No.	Description of work done by **Employees**	Declared Number of **Employees**	Declared **Wages**/Contract Value during the **Period of Insurance**	Place/Places of Employment
1	Road Paving, Tarring and Road Making_All categories of employees of DBL & Sub-contractor engaged in DBL - Highly Skilled, Skilled, Semi-Skilled, Unskilled, Engineers, Supervisors, Managers, Daily Labour Etc.	0	Contractual employees is included in the total number of employees. However split of contractual employees to be provided at the time of claim	Four Laning of Sangli-Solapur (Package-IV: Mangalwedha to Solapur) Section of NH-166 from existing Ch. Km. 314.969 to Ch. 370.452 (Design Ch. Km. 321.600 to km 378.100) of length 56.500 Km in the State of Maharashtra on ¿ Hybrid Annuity Mode

Authorised Representative

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Toll Free Number: 1800 2700 700
Telephone : +91 22 6638 3600 Fax: 91 22 6638 3699
Email : care@hdfcergo.com

Coverage for Medical Expenses

Policy Period	Effective Date	From	00:01	hours	June 25, 2020
	Expiry Date	To (Midnight)			June 24, 2021
Effective Date	June 25, 2020				
Policy Number	3114203429415400000				
Insured	DILIP BUILDCON LIMITED				
Name of Company	HDFC ERGO General Insurance Company Limited				
Date Issued	June 24, 2020				

In consideration of the payment of an additional premium it is hereby understood and agreed that this Policy is extended to cover **Insured's** liability towards medical expenses for treatment of **Injury** arising out of accident in respect of which indemnity granted under this Policy otherwise applies.

Provided always that the liability of the Company under this endorsement shall be limited to Rs. Actual.in respect of each **Employee** per accident and the aggregate liability of the Company for all accidents during the **Period of Insurance** to Rs. Actual

For the purpose of this endorsement only, Definitions is modified and amended to add the following:

Medical expenses mean reasonable expenses for necessary:

- first aid administered at the time of an accident;
- medical, surgical, x-ray and dental services, including prosthetic devices; and
- ambulance, hospital, professional nursing and funeral services.

Subject to otherwise to the terms, provisions and conditions of the within Policy.

*If the Underwriter wants to give complete coverage for actual incurred the last paragraph of the endorsement can be deleted

For Name of the Company

Date : June 24, 2020

Authorised Signatory

HDFC ERGO General Insurance Company Limited (Formerly HDFC General Insurance Limited) UIN : IRDAN125P0017V02201112 | IRDAI Reg No.146 | CIN : U66030MH2007PLC177117

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GRIEVANCE REDRESSAL PROCEDURE

If you have a grievance that you wish us to redress, you may contact us with the details of your grievance through:

- Call Center (Toll free helpline)
  1800 2 700 700 (accessible from any Mobile and Landline within India)
  1800 226 226 (accessible from any MTNL and BSNL Lines)

- Emails - grievance@hdfcergo.com
- Designated Grievance Officer in each branch.
- Company Website - www.hdfcergo.com
- Fax : 022 - 66383699
- Courier : Any of our Branch office or corporate office

You may also approach the Complaint & Grievance (C&G) Cell at any of our branches with the details of your grievance during our working hours from Monday to Friday.

If you are not satisfied with our redressal of your grievance through one of the above methods, you may contact our Head of Customer Service at

The Complaint & Grievance Cell,
HDFC ERGO General Insurance Company Limited
D-301,3rd Floor, Eastern Business District (Magnet Mall),LBS Marg,
Bhandup (West), Mumbai - 400078,
e-mail: grievance@hdfcergo.com

In case you are not satisfied with the response / resolution given / offered by the C&G cell, then you can write to the Principal Grievance Officer of the Company at the following address

The Cheif Grievance Officer
HDFC ERGO General Insurance Company Limited
D-301,3rd Floor, Eastern Business District (Magnet Mall),LBS Marg,
Bhandup (West), Mumbai - 400078 ,
e-mail: cgo@hdfcergo.com

You may also approach the nearest Insurance Ombudsman for resolution of your grievance. The contact details of Ombudsman offices are mentioned below if your grievance pertains to:

- Insurance claim that has been rejected or dispute of a claim on legal construction of the policy
- Delay in settlement of claim
- Dispute with regard to premium
- Non-receipt of your insurance document

You may also refer our website https://www.hdfcergo.com/customer-care/grievances.html for detailed grievance redressed procedure.

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HDFC ERGO General Insurance Company Limited

Ombudsman Offices	
Jurisdiction	**Office Details**
Gujarat, Dadra & Nagar Haveli, Daman and Diu	AHMEDABAD Office of the Insurance Ombudsman, 2nd floor, Ambica House, Near C.U. Shah College, 5, Navyug Colony, Ashram Road, Ahmedabad - 380 014. Tel.: 079 -27546150 / 27546139 Fax: 079 - 27546142 Email: bimalokpal.ahmedabad@gbic.co.in
Orissa	BHUBANESHWAR - Shri. B. N. Mishra Office of the Insurance Ombudsman, 62, Forest park, Bhubneshwar - 751 009. Tel.: 0674 - 2596461 /2596455 Fax: 0674 - 2596429 Email: bimalokpal.bhubaneswar@gbic.co.in
Tamil Nadu, Pondicherry Town and Karaikal (which are part of Pondicherry)	CHENNAI - Shri Virander Kumar Office of the Insurance Ombudsman, Fatima Akhtar Court, 4th Floor, 453, Anna Salai, Teynampet, CHENNAI - 600 018. Tel.: 044 - 24333668 / 24335284 Fax: 044 - 24333664 Email: bimalokpal.chennai@gbic.co.in
Assam, Meghalaya, Manipur, Mizoram, Arunachal Pradesh, Nagaland and Tripura	GUWAHATI Office of the Insurance Ombudsman, Jeevan Nivesh, 5th Floor, Nr. Panbazar over bridge, S.S. Road, Guwahati - 781001(ASSAM). Tel.: 0361 - 2132204 / 2132205 Fax: 0361 - 2732937 Email: bimalokpal.guwahati@gbic.co.in
Madhya Pradesh Chattisgarh	BHOPAL - Shri. R K Srivastava Office of the Insurance Ombudsman, Janak Vihar Complex, 2nd Floor, 6, Malviya Nagar, Opp. Airtel Office, Near New Market, Bhopal - 462 003. Tel.: 0755 - 2769201 / 2769202 Fax: 0755 - 2769203 Email: bimalokpal.bhopal@gbic.co.in
Punjab, Haryana, Himachal Pradesh, Jammu & Kashmir,Chandigarh	CHANDIGARH - Shri. Manik B. Sonawane Office of the Insurance Ombudsman,S.C.O. No. 101, 102 & 103, 2nd Floor, Batra Building, Sector 17 - D, Chandigarh - 160 017. Tel.: 0172 - 2706196 / 2706468 Fax: 0172 - 2708274 Email: bimalokpal.chandigarh@gbic.co.in
Delhi	DELHI - Smt. Sandhya Baliga Office of the Insurance Ombudsman, 2/2 A, Universal Insurance Building, Asaf Ali Road, New Delhi - 110 002. Tel.: 011 - 23239633 / 23237539 Fax: 011 - 23230858 Email: bimalokpal.delhi@gbic.co.in
Andhra Pradesh,Telangana,Yanam and part of Territory of Pondicherry	HYDERABAD - Shri. G. Rajeswara Rao Office of the Insurance Ombudsman, 6-2-46, 1st floor, "Moin Court", Lane Opp. Saleem Function Palace, A. C. Guards, Lakdi-Ka-Pool, Hyderabad - 500 004. Tel.: 040 - 65504123 / 23312122 Fax: 040 - 23376599 Email:bimalokpal.hyderabad@gbic.co.in
Kerala, Lakshadweep, Mahe-a part of Pondicherry	ERNAKULAM - Shri. P. K. Vijayakumar Office of the Insurance Ombudsman, 2nd Floor, Pulinat Bldg., Opp. Cochin Shipyard, M. G. Road, Ernakulam - 682 015. Tel.: 0484 - 2358759 / 2359338 Fax: 0484 - 2359336 Email: bimalokpal.ernakulam@gbic.co.in
Rajasthan	JAIPUR - Shri. Ashok K. Jain Office of the Insurance Ombudsman, Jeevan Nidhi - II Bldg., Gr. Floor, Bhawani Singh Marg, Jaipur - 302 005. Tel.: 0141 - 2740363 Email: Bimalokpal.jaipur@gbic.co.in
Districts of Uttar Pradesh : Laitpur, Jhansi, Mahoba, Hamirpur, Banda, Chitrakoot, Allahabad, Mirzapur, Sonbhabdra, Fatehpur, Pratapgarh, Jaunpur,Varanasi, Gazipur, Jalaun, Kanpur, Lucknow, Unnao, Sitapur, Lakhimpur, Bahraich, Barabanki, Raebareli, Sravasti, Gonda, Faizabad, Amethi, Kaushambi, Balrampur, Basti, Ambedkarnagar, Sultanpur, Maharajgang, Santkabirnagar, Azamgarh, Kushinagar, Gorkhpur, Deoria, Mau, Ghazipur, Chandauli, Ballia, Sidharathnagar	LUCKNOW - Shri. N. P. Bhagat Office of the Insurance Ombudsman, 6th Floor, Jeevan Bhawan, Phase-II, Nawal Kishore Road, Hazratganj, Lucknow - 226 001. Tel.: 0522 - 2231330 / 2231331 Fax: 0522 - 2231310 Email: bimalokpal.lucknow@gbic.co.in
Karnataka	BENGALURU - Shri. M. Parshad Office of the Insurance Ombudsman, Jeevan Soudha Building,PID No. 57-27-N-19 Ground Floor, 19/19, 24th Main Road, JP Nagar, Ist Phase, Bengaluru - 560 078. Tel.: 080 - 26652048 / 26652049 Email: bimalokpal.bengaluru@gbic.co.in
West Bengal, Bihar, Sikkim, Jharkhand, Andaman & Nicobar Islands	KOLKATA - Shri. K. B. Saha Office of the Insurance Ombudsman, Hindustan Bldg. Annexe, 4th Floor, 4, C.R. Avenue, KOLKATA - 700 072. Tel.: 033 - 22124339 / 22124340 Fax : 033 - 22124341 Email: bimalokpal.kolkata@gbic.co.in
Goa, Mumbai Metropolitan Region excluding Navi Mumbai & Thane	MUMBAI - Shri. A. K. Dasgupta Office of the Insurance Ombudsman, 3rd Floor, Jeevan Seva Annexe, S. V. Road, Santacruz (W), Mumbai - 400 054.Tel.: 022 - 26106552 / 26106960 Fax: 022 - 26106052 Email: bimalokpal.mumbai@gbic.co.in
Maharashtra, Area of Navi Mumbai and Thane excluding Mumbai Metropolitan Region	Pune - Shri. A. K. Sahoo Office of the Insurance Ombudsman, Jeevan Darshan Bldg., 2nd Floor, C.T.S. No.s. 195 to 198, N.C. Kelkar Road, Narayan Peth, Pune - 411 030. Tel.: 020 - 32341320 Email: bimalokpal.pune@gbic.co.in
State of Uttaranchal and the following Districts of Uttar Pradesh: Agra, Aligarh, Bagpat, Bareilly, Bijnor, Budaun, Bulandshehar, Etah, Kanooj, Mainpuri, Mathura, Meerut, Moradabad, Muzaffarnagar, Oraiyya, Pilibhit, Etawah, Farrukhabad, Firozbad, Gautambodhanagar, Ghaziabad, Hardoi, Shahjahanpur, Hapur, Shamli, Rampur, Kashganj, Sambhal, Amroha, Hathras, Kanshiramnagar, Saharanpur.	NOIDA Office of the Insurance Ombudsman, Email: bimalokpal.noida@gbic.co.in

STATUTORY NOTICE: "INSURANCE IS THE SUBJECT MATTER OF SOLICITATION"

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Annexure A
(Attached to and forming part of Policy No. 3114203429415400000)

EXCLUSION - COMMUNICABLE DISEASE

1. Notwithstanding any provision, clause or term of this Insurance Contract to the contrary, this Insurance Contract excludes any loss, cost, damage, liability, claim, fines, penalty or expense or any other amount of whatsoever nature, whether directly or indirectly and/or in whole or in part, related to, caused by, contributed to by, resulting from, as a result of, as a consequence of, attributable to, arising out of, arising under, in connection with, or in any way involving (this includes all other terms commonly used and/or understood to reflect or describe nexus and/or connection from one thing to another whether direct or indirect):

   1.1. a Communicable Disease and/or the fear or threat (whether actual or perceived) of a Communicable Disease and/or the actual or alleged transmission of a Communicable Disease regardless of any other cause or event contributing and/ or occurring concurrently or in any sequence thereto, and

   1.2. a pandemic or epidemic, as declared by the World Health Organisation or any governmental authority.

2. As used herein, Communicable Disease means: any infectious, contagious or communicable substance or agent and/or any infectious, contagious or communicable disease which can be caused and/or transmitted by means of substance or agent where:

   2.1. the disease includes, but is not limited an illness, sickness, condition or an interruption or disorder of body functions, systems or organs, and

   2.2. the substance or agent includes, but is not limited to, a virus, bacterium, parasite, other organism or other micro-organism (whether asymptomatic or not); including any variation or mutation thereof, whether deemed living or not, and

   2.3. the method of transmission, whether direct or indirect, includes but not limited to, airborne transmission, bodily fluid transmission, transmission through contact with human fluids, waste or the like, transmission from or to any surface or object, solid, liquid or gas or between organisms including between humans, animals, or from any animal to any human or from any human to any animal, and

   2.4. the disease, substance or agent is such:

      2.4.1. that causes or threatens damage or can cause or threaten damage to human health or human welfare, or

      2.4.2. that causes or threatens damage to or can cause or threaten damage to, deterioration to, contamination of, loss of value of, loss of marketability of or loss of use or usefulness of, tangible or intangible property.

For avoidance of doubt, Communicable Disease includes but is not limited to Coronavirus Disease 2019 (Covid - 19) and any variation or mutation thereof.

For HDFC ERGO General Insurance Company Limited

Authorized Signatory

HDFC ERGO General Insurance Company Limited. IRDAI Reg No.146
CIN: U66030MH2007PLC177117. Registered & Corporate Office: 1st Floor, HDFC House, 165/166 Backbay Reclamation, H. T. Parekh Marg, Churchgate, Mumbai - 400 020.
UIN : IRDAN125P0017V02201112 Customer Service Address: D 301, 3rd Floor, Eastern Business District (Magnet Mall), LBS Marg, Bhandup (West), Mumbai - 400 078.
Customer Service No : +91 22-62346234/+91-120 6234 6234 | www.hdfcergo.com

HDFC ERGO General Insurance Company Limited

TAX INVOICE

Details of Insurerd			Details of Insurer		
Insured Name	:	**DILIP BUILDCON LIMITED**	**Insurer Name**	:	**HDFC ERGO General Insurance Company Limited**
Correspondance Address	:	PLOT NO. 5, GOVIND NARAYAN SINGH GATE,CHUNA BHATTI, BHOPAL,MADHYA PRADESHBHOPAL, MADHYA PRADESH -462016	**Branch Address**	:	1ST FL, SHOWROOM NO.2, SHUKAN ARCADE, SWASTIK CROSS RD, C.G.RD AHMEDABAD, 380015.
Billing Address	:	PLOT NO. 5, GOVIND NARAYAN SINGH GATE, CHUNA BHATTI, BHOPAL,MADHYA PRADESH, SHIVAJI NAGAR, BHOPAL, MADHYA PRADESH, PIN- 462016.	**GSTIN**	:	24AABCL5045N1ZE
Place of Supply	:	Madhya Pradesh	**Policy No.**	:	3114203429415400
State Code	:	23	**Certificate No.**	:	3114203429415400000
PAN	:	AACCD6124B	**Invoice No.**	:	203429415400000
GSTIN	:	23AACCD6124B2ZD	**Policy issue date / Invoice date**	:	24/06/2020

Premium Details (₹)

S.No.	Description of Services	HSN Code	Premium Amount	CGST		SGST		IGST		Total Tax	Premium Value with Tax
				Tax %	Amount	Tax %	Amount	Tax %	Amount		
1	Employees Compensation Insurance Policy	997139	78462	9%	0	9%	0	18%	14123	14123	92585
										Total Invoice Value	**92585**
Total Invoice Value (In Words)		RUPEES NINETY-TWO THOUSAND FIVE HUNDRED EIGHTY-FIVE AND ZERO PAISE ONLY									

Whether Tax is payable on Reverse charge basis : No

For HDFC ERGO General Insurance Company Ltd

Authorised

जा.क्र ८७१/२०१८
तलाठी सजा / मंगळवेढा
दिनांक २१/८/२०१८

ना हरकत प्रमाणपत्र

तलाठी मंगळवेढा याचेकडून नाहरकत प्रमाणपत्र देण्यात येते की,

मे.दिलीप बिल्डकॉन लि.कार्यालय प्लॉट नं ५, गोविंद नारायण गेट, चुना भट्टी भोपाळ करीता जनसंपर्क अधिकारी प्रशांत परिहार सध्या रा.नाथनगर, सोलापूर यांना मौजे मंगळवेढा तलाठी सजा अंतर्गत गट नं १९२७ व १९१२ हे गट भाडे कराराने घेतलेल्या शेतजमीनीमध्ये रस्ते निर्माण करण्याकरीता आवश्यकतेनुसार गौण खनिज साठवणूक करणे (खडी,वाळु,सिमेंट,स्टील) तात्पुरता डिझेल,पेट्रोल पंप उभा करणे,डांबर,कॉक्रीट प्लॅट,क्रशर प्लॅट,मशनरी वाहन पार्किंग, ऑफीस, वर्कशॉप,लॅब वजनकाटा,कर्मचारी निवास करीता तात्पुरत्या स्वरुपाची वसाहत करणे व अन्य निर्माण संबंधी सामुग्रीचे साठवणुकीकरीता करारामधील कालावधी करीता संबंधीत सर्व विभागाची परवानगी घेवून नियमाप्रमाणे रस्ते निर्माण करणेकरीता तात्पुरत्या स्वरुपात वर नमुद सुविधा व यंत्रणा निर्माण करणेस तलाठी तलाठी कार्यालय मंगळवेढा यांची हरकत नाही. मौजे मंगळवेढा तलाठी सजा अंतर्गत येणारे वरील गट नं १९२७ व १९१२ हे मंगळवेढा नगरपरिषद, संत चोखामेळानगर ग्रामपंचायत,संत दामाजीनगर ग्रामपंचायत या तिन्ही स्थानिक स्वराज्य संस्था हद्दीमध्ये येत नसल्याने अर्जदार यांचे मागणीवरुन हे प्रमाणपत्र दिले असे.

तलाठी मंगळवेढा

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भारत सरकार
Government of India
वाणिज्य और उद्योग मंत्रालय
Ministry of Commerce & Industry
पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पैसो)
Petroleum & Explosives Safety Organisation (PESO)
ए-1 और ए-2 विंग, पाँचवा तल, केंद्रीय कार्यालय परिसर, सी.बी.डी. बेलापुर
नवी मुंबई (महा.)- 400614
A1 & A2 wing, 5th Floor, C.G.O. complex, CBD Belapur, Navi Mumbai (M.S.),
Mumbai - 400614

E-mail : jtccemumbai@explosives.gov.in
Phone/Fax No : 022 - 27575946,27573881

संख्या /No. P/WC/MH/14/9077 (P430945)

दिनांक /Dated : 27/03/2019

01 APR 2019

सेवा में /To,

M/s Dilip Buildcom,
Village Mangalwedha,S.No. 1927,Mangalwedha,
Mangalwedha,
solapur,
Taluka: Solapur,
District: SOLAPUR,
State: Maharashtra
PIN: 999999

विषय /Sub : Survey No, 1927, Khomnal Road Bypass,Tehsil Mangalwedha, Solapur, Taluka: Solapur, District: SOLAPUR, State: Maharashtra, PIN: 999999 में पेट्रोलियम वर्ग B Consumer Pump।
Petroleum Class B Consumer Pump at Survey No, 1927, Khomnal Road Bypass,Tehsil Mangalwedha, Solapur, Taluka: Solapur, District: SOLAPUR, State: Maharashtra, PIN: 999999

महोदय /Sir (s),

कृपया आपके पत्र क्रमांक - दिनांक 25/03/2019 का अवलोकन करें ।
Please refer to your letter No. - dated 25/03/2019

निबंधनाधीन पेट्रोल पम्प में निम्नलिखित पेट्रोलियम पदार्थों के वर्ग तथा मात्रा के भंडारण के लिए पेट्रोलियम नियम, 2002 के अधीन फरम - XIV में स्वीकृत तथा दिनांक 31/12/2021 तक वैध अनुज्ञप्ति संख्या P/WC/MH/14/9077 (P430945) दिनांक 27/03/2019 भेजी जा रही है ।
, licence No. P/WC/MH/14/9077 (P430945) dated 27/03/2019 granted in Form XIV under the Petroleum Rules, 2002 and valid till 31/12/2021 for the storage of the following kind and quantities of Petroleum at the subject petrol pump is forwarded herewith

पेट्रोलियम का विवरण /Description of Petroleum	लिसेन्सीकृत की अनुज्ञप्त मात्रा /Quantity licenced in KL
वर्ग क अपद्रव्य पेट्रोलियम /Petroleum Class A in bulk	NIL
वर्ग ख अपद्रव्य पेट्रोलियम /Petroleum Class B in bulk	40.00 KL
कुल क्षमता /Total Capacity	40.00 KL

कृपया पेट्रोलियम नियम 2002 के अधीन बनाए गए नियम 148 में दी गई प्रक्रिया का कड़ाई से पालन करें तथा अनुज्ञप्ति के नवीकरण हेतु समस्त प्रपत्रों को अनुज्ञप्ति की वैधता समाप्ती की तारीख या उससे पूर्व to Jt. Chief Controller of Explosives, West Circle, Mumbai, so as to reach his कार्यालय को प्रेषित करें । Please follow the procedure strictly as laid down in rule 148 of the Petroleum Rules, 2002 and submit complete documents for the Renewal of the licence to Jt. Chief Controller of Explosives, West Circle, Mumbai, so as to reach his office on or before the date on which Licence expires

यह अनुमोदन/ अनुमति अन्य प्राधिकारियों से आवश्यक अनुमति/क्लीयरन्स प्राप्त करने से या यथा लागू अन्य विधियों से छूट नहीं देती है । This approval/permission, however, does not absolve from obtaining necessary permission/clearance from other authorities or under other statutes as applicable.

भवदीय /Yours faithfully,

((डा.अनुज कुमार))
(Dr. Anuj Kumar)
विस्फोटक नियंत्रक
Controller of Explosives
कृते अवर मुख्य विस्फोटक नियंत्रक
For Jt. Chief Controller of Explosives
नवी मुंबई (महा.)/Mumbai

Copy forwarded to :-
1. The Additional District Magistrate, SOLAPUR(Maharashtra) with reference to his NOC No 2018/DCB-3/SR 64/2018/RR-111/2019 Dated 24/01/2019

For Jt. Chief Controller of Explosives
Mumbai

(अधिक जानकारी जैसे आवेदन की स्थिति, शुल्क तथा अन्य विवरण के लिए हमारी वेबसाइट: http://peso.gov.in देखें)
(For more information regarding status,fees and other details please visit our website: http://peso.gov.in)

परूप XIV
(प्रथम अनूसूची का अनूच्छेद 5 देखिए)
FORM XIV
(see Article 5 of the First Schedule)

मोटर वाहनों में ईंधन डालने के लिए पम्प आउटफिट के संबंध में टैंक या टैंकों में पेट्रोलियम भंडारकरण के लिए अनुज्ञप्ति
LICENCE TO STORE PETROLEUM IN TANK/S IN CONNECTION WITH PUMP OUTFIT FOR FUELING MOTOR CONVEYANCES

अनूज्ञप्ति सं. (Licence No.) : P/WC/MH/14/9077(P430945)

फीस रूपए (Fee Rs.) 5000/- per year

पेट्रोलियम अधिनियम, 1934 के उपबंधो और उसके अधीन बनाए गए नियमों तथा इस अनुज्ञप्ति की अतिरिक्त शर्तों के अधीन रहते हुए 40.00 KL of Petroleum class B को टैंक/टैंको में भण्डारकरण मात्र के लिए M/s. Dilip Buildcom, Village Mangalwedha,S.No. 1927,Mangalwedha, Mangalwedha, solapur, Taluka: Solapur, District: SOLAPUR, State: Maharashtra, PIN: 999999 को नीचे वर्णित अनुज्ञप्त परिसरों में जो कि इससे उपबध्द नक्शा संख्यां P/WC/MH/14/9077(P430945) तारीख 27/03/2019 में दिखाया गया है, के लिए विधिमान्य अनुज्ञप्ति अनुदत्त् की जाती हैं ।

Licence is hereby granted to M/s. Dilip Buildcom, Village Mangalwedha,S.No. 1927,Mangalwedha, Mangalwedha, solapur, Taluka: Solapur, District: SOLAPUR, State: Maharashtra, PIN: 999999 valid only for the storage of 40.00 KL of Petroleum class B in tank/s in the licensed premises described below and shown on the plan no: P/WC/MH/14/9077(P430945) dated 27/03/2019 attached hereto subject to the provisions of the Petroleum Act, 1934 and the rule made thereunder and to the further conditions of this Licence.

यह अनुज्ञप्ति 31st day of December 2021 तक विधिमान्य रहेगी ।
The Licence shall remain in force till the 31st day of December 2021

March 27, 2019

For Jt. Chief Controller of Explosives
WC, Mumbai

अनूज्ञप्त परिसरों का विवरण और अवस्थान
DESCRIPTION AND LOCATION OF THE LICENSED PREMISES

अनुज्ञप्त परिसर जिसकी सीमाएं संलग्न नक्शे में दिखाई गई हैं Survey No: 1927, Khomnal Road Bypass,Tehsil Mangalwedha, Solapur, Taluka: Solapur, District: SOLAPUR, State: Maharashtra, PIN: 999999 में स्थित है और उसमें निम्नलिखित सम्मिलित है:

The licensed premises, the boundaries of which are shown in the attached plan, are situated at Survey No: 1927, Khomnal Road Bypass,Tehsil Mangalwedha, Solapur, Taluka: Solapur, District: SOLAPUR, State: Maharashtra, PIN: 999999 and consist of:

क पेट्रोलियम वर्ग क परिसर के लिए NIL किलोलिटर क्षमता के/क्रमश: NIL क्षमता के भूमिगत गैस टाईट टैंक, जो विद्युतचालित/हस्तचालित NIL डिस्पेन्सिंग पम्पो से जुड़े हुए हैं ।

a NIL number(s) underground gas tight tanks of capacity NIL kilolitres respectively of petroleum Class A connected with NIL number(s) electrically/manually operated dispensing pump(s).

ख पेट्रोलियम वर्ग ख/ग परिसर के लिए 20.00+ 20.00 किलोलिटर क्षमता के/क्रमश: 2 क्षमता के भूमिगत गैस टाईट टैंक, जो विद्युतचालित/हस्तचालित 2 डिस्पेन्सिंग पम्पो से जुड़े हुए हैं ।

b 2 number(s) underground gas tight tanks of capacity 20.00+ 20.00 kilolitres respectively of petroleum Class B connected with 2 number(s) electrically/manually operated dispensing pump(s).

ग एक विक्रय कक्ष/कियोस्क

c A sales room/kiosk

घ सर्विस सम्बन्धी सुविधाएं जिनमें As per approved plan सम्मिलित हैं ।

d Servicing facilities consisting of As per approved plan As per attached plan

NATIONAL HIGHWAY AUTHORITY OF INDIA

"Four Laning of Sangli-Solapur (Package-IV: Mangalwedha to Solapur) Section of NH-166 from existing Ch. Km. 314.969 to Ch. 370.452 (Design Ch. Km. 321.600 to km 378.100) of length 56.500 Km in the State of Maharashtra on Hybrid Annuity Mode"

ENVIRONMENTAL MANAGEMENT PLAN

M/S DBL Mangalwedha Solapur Highways Pvt Ltd.

DILIP BUILDCON LIMITED
INFRASTRUCTURE & BEYOND

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PROJECT ENVIRONMENTAL MANAGEMENT PLAN

1. INTRODUCTION

➢ Overview

The **'Environmental Management Plan' (EMP)** is prepared to guide the execution team to manage activities and issues with respect to the Environment and set the highest priority to the protection of Environment & Conservation of resources in our work premises, during the construction stage of the project.

Where adverse impacts have been identified, the EMP has examined the extent to which these impacts would be mitigated through the adoption of good practices. The EMP describes both generic good practices and measures and the site-specific measures, the implementation of which is aimed at mitigating potential impacts associated with the ***"Four Laning of Sangli-Solapur (Package-IV: Mangalwedha to Solapur) Section of NH-166 from existing Ch. Km. 314.969 to Ch. 370.452 (Design Ch. Km. 321.600 to km 378.100) of length 56.500 Km in the State of Maharashtra on Hybrid Annuity Mode"***

➢ Salient features of the Project

Name of the Project	→	"Four Laning of Sangli-Solapur (Package-IV: Mangalwedha to Solapur) Section of NH-166 from existing Ch. Km. 314.969 to Ch. 370.452 (Design Ch. Km. 321.600 to km 378.100) of length 56.500 Km in the State of Maharashtra on Hybrid Annuity Mode"
State	→	Maharashtra
Client	→	NHAI
Concessionaire	→	M/s DBL Mangalwedha Solapur Highways Private Ltd.
Cost of the Project	→	1141.00 Cr.
Length of the Project	→	56.500 Km

2. PURPOSE

The Environmental Management Plan (EMP) is prepared for establishing guidelines for the application of Environmental Controls during the construction and operation *of* ***"Four Laning of Sangli-Solapur (Package-IV: Mangalwedha to Solapur) Section of NH-166 from existing Ch. Km. 314.969 to Ch. 370.452 (Design Ch. Km. 321.600 to km 378.100) of length 56.500 Km in the State of Maharashtra on Hybrid Annuity Mode"*** To facilitate the construction stage while ensuring fulfilment of environment commitment by minimizing environmental upset which may arise from any of the related activities of road construction and operation of different plants.

Monitor effectiveness of environmental mitigation measure. Provide timely indication if any required environmental control measure fails to achieve acceptable standard.

To supervise compliance with environmental criteria by carrying out review of monitored upset data.

3. SCOPE

This procedure is applicable to all the activities of ***"Four Laning of Sangli-Solapur (Package-IV: Mangalwedha to Solapur) Section of NH-166 from existing Ch. Km. 314.969 to Ch. 370.452 (Design Ch. Km. 321.600 to km 378.100) of length 56.500 Km in the State of Maharashtra on Hybrid Annuity Mode"*** under the scope of Concessionaire Management System.

4. OBJECTIVES OF THIS EMP

Ensure all environmental safeguards are carried out correctly

- Manage site activities effectively and coordinate with other trades
- Minimize adverse impacts on the environment
- Minimize disruption to existing residents
- Meet the requirements of all relevant legislation
- Monitor the project.
- Control soil and sediment runoff on the site.
- Control waste generated by the works.
- Minimize disturbance to surrounding trees, vegetation, fauna and identified heritage and aboriginal sites.
- Control noise pollution and nuisance due to the operation of mechanical equipment.

This EMP is intended to minimize the impact of the proposed works on the park and surrounding areas. It is to be implemented in conjunction with the company's Environmental Policy.

5. ENVIRONMENTAL POLICY

It is concessionaire's Environmental Policy to manage our project activities/products/ services in an environmentally responsible and lawful manner, so that their environmental impacts are reduced to a practicable minimum and that there is continual improvement in our environmental performance. In particular we will:

Prevent and control any air, water and soil pollution arising from construction activities, plants, associated other utilities and also from the amenities provided to our employees.

- Optimize utilization of water and non-renewable resources, i.e. Materials, Fuel, and Energy.
- Actively pursue efforts towards waste minimization – reduce, reuse and recycle.
- Control spillage from all pertinent operations.
- Comply with all applicable laws and regulations as well as contractual requirements.
- Promote awareness and enhance skills of employees to develop a Prevention oriented work attitude.

6. SITE ESTABLISHMENTS

- Construction of camps, Site office and laboratory
- Quarry and stone crushing plant

- Borrow pits for embankment construction
- RMC plant
- Wet mix plant
- Hot mix plant
- Process details

Construction of camps, site office and laboratory

The construction camps shall conform to the State and National building regulations as applicable. The area for the storage of polluted materials shall be stored on impervious floors and shall be surrounded by impervious ditches in order to avoid spilling of polluted material to surrounding areas.

Construction camps shall be properly arranged to avoid noise pollution to the nearby habitants and to avoid contamination of water courses from wastewater drainage. To prevent such contamination, wastewater generated at the campsites shall be discharged into soak pits. Human excreta shall be treated though septic tanks prior to discharge and shall conform to directives and guidelines of the State. Water accumulated in tires, empty vessels and containers of all nature will be regularly cleaned to avoid the related health hazards.

- The project office and plant establishment are almost centre of the proposed road work stretch thus reducing the transport and easy accessibility to the work site.
- The site is free from cultivation and in non-agricultural land.
- The construction camps have:
  a. Offices and Residences
  b. Plants and Machineries
  c. Workshop
  d. Laboratory Vehicle Parking.
- The layout of the construction camp is designed in such a way that there is a reasonable distance between the offices, residences and Plant area.
- The land for the construction camp is on lease basis and the mutually agreed amount have been paid to the landowners as per the terms and conditions applied and are properly documented.
- The layout plan prepared for the construction of camp/Plant establishment was submitted for approval to the local approving authority. On receiving the approval from the local body the construction site have mobilized.
- The site clearance is the first step and the trees of existing site are taken care and are left as it is .We have planted trees at the boundary and at the selected location in the camp site.
- Topsoil was removed only in the construction area.
- Fencing all around the campsite is provided with check post provision in the entrance there by restricting the camp area as restricted area for the local public.

Hygiene

- All temporary accommodation must be constructed and maintained in such a fashion that uncontaminated water is available for drinking, cooking and washing.
- Latrines shall be provided with septic tank for the workers and labours inside the camps.
- Garbage bins must be provided in the camps and regularly emptied and the garbage disposed off in a hygienic manner.
- Adequate health care is to be provided for the work force. Unless otherwise arranged for by the local sanitary authority, the local medical health or municipal authorities.

- On completion of the works, all such temporary structures shall be cleared away, all rubbish burnt, septic tank and other disposal pits filled in and effectively sealed off and the outline site left clean and tidy.

Transmission of Diseases and HIV/ AIDS prevention and control

Concessionaire will create awareness among workers to prevent transmission of diseases between the local inhabitants and the labourers engaged for the works, including sexually transmitted diseases.

Prevention of Mosquito Breeding

Measures shall be taken to prevent breeding at site. The measures to be taken shall include:

- Empty cans, oil drums, packing and other receptacles, which may retain water shall be deposited at a central collection point and shall be removed from the site regularly.
- Still waters shall be treated at least once every week with oil in order to prevent mosquito breeding.
- Concessionaire, equipment and other items on the site, which may retain water, shall be stored, covered or treated in such a manner that water could not be retained.
- Water storage tanks shall be provided.
- Posters in Hindi and English which draw attention to the dangers of permitting mosquito breeding shall be displayed prominently on the site.
- Concessionaire at periodic interval shall arrange to prevent mosquito breeding by fumigation / spraying of insecticides

Source of water supply

Water required in the construction campsite for the following:

- Domestic use in office and residential quarters
- For watering plants in Crushers, Wet Mix Plant, Hot Mix Plant and Batching Plant.
- Green belt developing and gardening in and around office area and Residential area.

Domestic use

For the domestic usage of water in the office and residential quarters the bore well is driven and the water is tested for its quality. After testing, the good quality of bore water is utilized for the above proposed purpose by providing over head tanks for water storage and necessary pipe lines for delivery and also permission obtained from Ground Water Board.

For drinking water purpose has procuring daily from outside RO Plants.

Plant area

Water is required for the dust suppression system in Crushers, processing Wet Mix Plant and Batching Plant.

Water of the bore well is utilized for this after conducting water quality test.

Green belt development and gardening

Bore well water is utilized for developing and gardening.

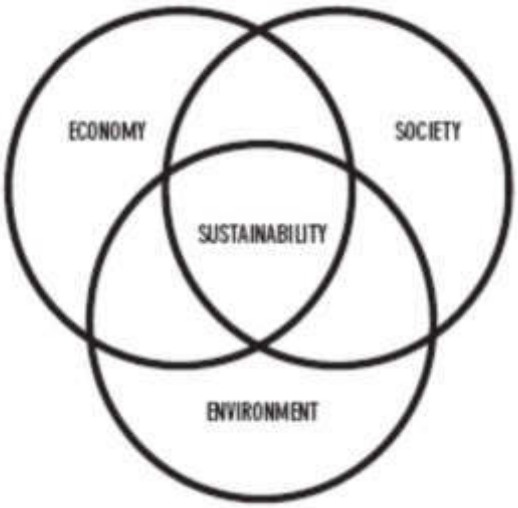
Sanitation and waste water treatment

Offices and Residential colony is constructed with sufficient ventilation and required numbers of toilets, bathrooms and washbasins. Non Hazardous waste collection bins are provided at various locations and are safely disposed. The residential and office blocks are situated at reasonable distance from Plants and Machineries.

Septic tanks of adequate capacity are provided separately for office and residential quarters. Raw sewage is treated in these tanks. The treated sewage from this septic tank is flowing into soak pits there by underground strata disposal practice. The soak pits and septic tanks are carefully located so that no contamination will cause to sources of water.

Wastewater from canteen and bathroom is connected to septic tank for disposal.

Since Laboratory in camp site is for material testing, the waste water is only container washings which is having only little bit of non hazardous solids. This is settling in the grit chamber provided and connected to septic tank. There is no Chemical effluent generation from Laboratory.



Medicare and sickbay

Medical centres are established within the base camp with necessary first aid facilities to treat minor injuries and to provide first aid. Urgent and serious cases will be referred to the nearest hospital for treatment. One trained First-aider is available at the centre. The first aid boxes are located in work areas. Emergency vehicle is available at any time for Emergency cases. The contact phone no. of the nearest ambulance is displayed within the camp area for easy accessibility.

Environment policy

Concessionaire EHS policy provides further definition to what we mean by excellence in Environmental performance as stated in our corporate strategic objective to keep excellence in Environmental, Health, and Safety performance as our first priority.

Sustainability

Sustainable development was defined over 15 years ago as "development that meets the needs of the present without compromising the ability of future generations to meet their own needs". Companies around the world continue to interpret and apply sustainable development concepts in many different ways but all include sustainability as the fundamental core. Sustainability has three principle elements environmental, social and economic. Concessionaire views sustainability as the integration of these elements as illustrated in Figure. Concessionaire is committed to sustainability and embraces this opportunity to encourage multidisciplinary and multigenerational thinking among its management and staff.

Continual improvement

To ensure that we continually improve our environmental performance, concessionaire has an Integrated Management system that is based on ISO 9001: 2008 are internationally recognized standards that outline the structure of an Environmental Management System and Occupational Safety and Health Management System, respectively. The system is a framework to help achieve continual improvement in environmental, health and safety performance. Figure presents the principal elements of the system structure. Internal audits are carried out to make certain that concessionaire continues to achieve compliance and continual improvement.

Environmental programs

Minimizing risk and contributing to improved economic performance through the implementation of environmental plans and programs for ***"Four Laning of Sangli-Solapur (Package-IV: Mangalwedha to Solapur) Section of NH-166 from existing Ch. Km. 314.969 to Ch. 370.452 (Design Ch. Km. 321.600 to km 378.100) of length 56.500 Km in the State of Maharashtra on Hybrid Annuity Mode"*** The Environmental, Health and Safety Management System identify key areas of risk or opportunities, which, along with the Environmental Policy, become the basis for the development of environmental programs. We believe that good environmental performance contributes to good economic performance. These programs are managed by the

Environment Department in conjunction with other departments and cover a number of areas, including:

- Air Quality;
- Contaminated Sites;
- Environmental Impact Assessment;
- Hazardous Materials;
- Natural Habitat;
- Resource Efficiency;
- Recycling; and
- Water Quality.

➢ Quarry and stone crushing plant

Concessionaire shall obtain materials from quarries only after obtaining the consent of the Mining Department or other concerned authorities. The quarry operations shall be undertaken within the purview of the rules and regulations in force. 200 TPH crusher plants are installed near Quarry. These plants are installed for converting stone boulders from -500mm to 80mm, 40mm, 20mm and 10mm, stone dust and crusher sand. There are three stages of reduction and two screening stations.

First stage → Primary section reduces -500mm to 150mm and stores as stockpile.

Second stage → secondary section reduces from 150mm to 80mm and segregates the aggregate into three qualities i.e. +80 mm, -80 mm to +40 mm and –40 mm.

Third stage → tertiary section reduces from -40mm to -20mm and segregates into four categories of aggregate i.e. -40mm to +20mm, -20mm to 10mm, -10mm to +5mm and –5mm.

All end products are discharged and stockpiles are lifted as per consumption.

➢ Borrow pits for embankment construction

As per guide line of **section 305.2.2 of MORTH** and **IRC 10 Guideline** Borrow pits shall not be dug in the right-of-way of the road. Before deciding to dig borrow pits on road land, earth for the embankment should be obtained:

- From cuttings for nearby sections of the road;
- From excavation for improving sight distances at nearby curves;
- By sectioning an adjacent nallah or waterway where necessary;
- By excavating cuts to lead drainage water away from the road;
- By excavating side drains and catch-water drains;
- From wasteland outside the road land;
- From humps above the general ground level within the road land;
- By excavating tanks;
- From land acquired temporarily outside the road land;
- From soil mounds resulting from the digging of wells and lowering of fields in the vicinity of the road.

Detail to be inspected for Monitoring of Borrow Area Operation & Management

Attributes	Requirements
Access road	• Only approved access road shall be used
Top soil preservation	• Top soil, if any, should be stripped and stored at designated area before start of quarry material collection
Controlled blasting & Safety	• Storage of explosive magazine as per threshold quantity with all the safety measures • Handling of explosive by licensed blaster only; • Use low intensity explosive • Check unfired explosive, if any, before drilling • Carryout blasting at lean time only; • Cordoned the area within 500m radius with flagmen having whistle for signaling preparedness • Keep ready an emergency vehicle near blasting area with first all facility and with active emergency response system
Damage to surrounding land	• Movement of man & machinery should be regulated to avoid damage to surrounding land
Drainage control	• The surface drainage in and around the area should be merged with surrounding drainage; • No water stagnation shall occur.
Dust control	• Haul Road should be made metallic; • Dust arrester e.g. water scrubber, should be provided during drilling; • Water spraying at quarry complex, if required.
Personal Protective	• Workers shall be provided with helmet, gumboot, ear

Equipment	muffler and nose mask and their use should be strictly enforced.

Setting

Opening of new borrow areas will be based on environmental as well as civil Engineering considerations. Location of source of supply of material for embankment or sub-grade and the procedure for excavation or transport of material shall be in compliance with the environmental requirements, and as specified in IRC: 10-1961. The borrowing shall not be carried out in cultivable lands; unless and until, it shall be agreed upon by the Project Manager that there is no suitable uncultivable land in the vicinity for borrowing or private landowners are willing to allow borrowing on their fields.

Operation

To avoid any embankment slippage, the borrow areas will not be dug continuously and redevelopment of the borrow areas to mitigate the impacts will be the responsibility of the concessionaire who shall evolve site-specific redevelopment plans for each borrows area location. Precautionary measures as the covering of vehicles will be taken to avoid spillage during transport of borrow materials. To ensure that the spills, which might result from the transport of borrow and quarry materials do not impact the settlements, it will be ensured that the excavation and carrying of earth will be done during day-time only. The unpaved surfaces used for the haulage of borrow materials will be maintained properly.

- **RMC plant**

This plant is used to produce concrete mix. This plant has 4 compartment bins of 10 M3 each to store aggregate. There is conveyor and ground hoper which can oscillate to feed material into a spare bin whenever require. The cement fed into a Silo as retrieved by Screw conveyor and fed into the batching hoper. We have a programmable logic controller, which expects the Design Mix Formulae as input and based on the Design Mix the aggregates, cement, water & admixture is dosed into this pan mixture. The Pan mixture mixes all the proportion and prepares a homogenous mix and discharge into a transit mixture.

- **Wet mix plant**

This plant prepares the mix consisting of various aggregates and water. Based on the approved design mix formulae various aggregates (fed into the bin) collected and discharge into Pug Mill and the aggregate and water is blend to prepare the optimum Wet Mix. The mixed product is conveyed by a conveyor into a Silo. Through a gate, mixed product is discharged to a transport vehicle and sent to site for laying.

- **Hot mix plant**

This Plant is used to produce Bitumen Mix based on the desired Mix Design fed into the programmable logic controller.

➢ Process details

The following ingredients are used for preparation of Bitumen Mix for laying and preparation of Road.

a. Aggregate
b. Bitumen
c. Filler Material.

The aggregate filled in the cold bin is drawn as per requirement and conveyed, the conveyor collects all aggregate to the Dryer drum. In the dryer drum the aggregate is allowed to flow in a helical manner to get more exposures of surface to get dried up. This drying process is being carried out with the help of burner & blower. The dried aggregate is fed into the bucket elevator and mix lifted up to the top deck of Batching & Mixing unit.

There is a linear motion vibration, which segregate all in aggregate in the various gradation of aggregate. Segregate aggregates are collected in different compartments and based on the design mix formulae, the aggregates are allowed in the batch weigher. Weighed aggregates are sequentially allowed to mixing drum.

In the same pattern, Bitumen & Filler materials are fed into the mixing drum by weighment. All the proportion are mixed homogeneously and discharged into a transport vehicle.

We have a very efficient dust extraction system to control any suspended particles to the atmosphere. This extraction system has suction heads fitted in various locations of the plant with the help of ducking and allowed to pass through skimmer and dry filter (Self Cleaning). Collected fines are re-circulated in the mix and thus not allowing any finer product to the atmosphere / disposal.

This plant is one of the most modern and eco-friendly plant installed all around World and used by several Nation and satisfies to the standard of Pollution Control Norms.

7. ENVIRONMENTAL LAWS AND REGULATIONS

Exceeding or complying with all applicable environmental laws and regulations.

Concessionaire, in the interests of responsible environmental management, is working to meet or exceed additional, self-imposed standards, including the adoption of applicable provincial and regional regulations. This means that if provincial, regional or municipal regulations or bylaws provide pertinent standards, concessionaire will Endeavour to meet those standards. Concessionaire also requires tenants on Building and Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996 and other Act, to meet the same standards. Such regulations or by laws that concessionaire chooses to adopt will be mentioned explicitly in the relevant management program documents

➢ Legal & other requirements

S. No	List of Applicable Legal Requirements
1	Building & Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996
2	Petroleum Act 1934 & Petroleum Rules 2002
3	Motor Vehicle Act, 1988
4	Explosives Act 1884,
5	Gas Cylinder Rules 2004
6	Indian Electricity Act 2003 & Rules 1956
7	Air (Prevention and Control of Pollution) Act, 1981
8	Water (Prevention and Control of Pollution) Act, 1974, Rules 1975
9	Noise Pollution (Regulation and Control) Rules, 2000
10	Batteries (Management and Handling) Rules,2001
11	Environment Protection Act, 1986 & Rules 1986
12	Bio-Medical Waste (Management and Handling) Rules, 1998
13	Hazardous waste rule 1989

8. CROSS REFERENCES

- Environmental Management Procedures.
- Contract Document.
- Applicable IS Codes.

9. DEFINITIONS

➢ Environment

Surroundings in which an organization operates, including air, water, land, natural resources, flora fauna, humans and their interrelation.

NOTE: Surroundings in this contract extend from within an organization to the global system.

- **Environmental policy**

The statement by the organization of its intentions and principles in relation to its overall environmental performance, which provides a framework for action for setting of its environmental objectives and targets.

- **Environmental aspects**

Element of an organization's activities, products or services that can interact with the environment.

NOTE: A significant environmental aspect is an environmental aspect that has or can have a significant environmental impact.

- **Environmental impact**

Any change to the environment, whether, adverse or beneficial wholly or partially resulting from an organization's activities, products or sources.

- **Environmental management system**

That part of the overall management system that includes organizational structure, planning activities, responsibilities, practices, procedures, processes, and resources for developing, implementing, achieving, reviewing and maintaining the environmental policy.

- **Environmental objective**

Overall environmental goal, arising from the environmental policy, that an organization sets itself to achieve, and which is quantified where practicable.

- **Environmental target**

Detailed performance requirement, quantified where practicable, applicable to the organization or parts thereof, that arises from the environmental objectives and that needs to be set and met in order to achieve those objectives.

- **Equipment & spares**

The capital machinery which is going to be used for the production of final product is known as equipment. The component used for maintaining this machinery in working condition is called as spares.

- **Hazard**

Source or situation with a potential for harm in terms of injury or all health, damage to property, damage to the work place environment, or a combination of these.

- **Hazard identification**

Process of recognizing that a hazard exists and defining its characteristics.

- **Hazardous waste**

Wastes that pose a substantial danger immediately or over a period of time to human, plant, or animal life. A waste is classified as hazardous if it exhibits any of the following characteristics:

- Ignitability

- Corrosively
- Reactivity
- Toxicity

➢ Prevention of pollution

Use of processes, practices, materials or products that avoid, reduce or control pollution, which may include recycling, treatment, process changes, control mechanisms, efficient use of resources and material substitution.

NOTE: The potential benefits of prevention of pollution include the reduction of adverse environmental impacts, improved efficiency and reduced costs.

➢ Preventive action

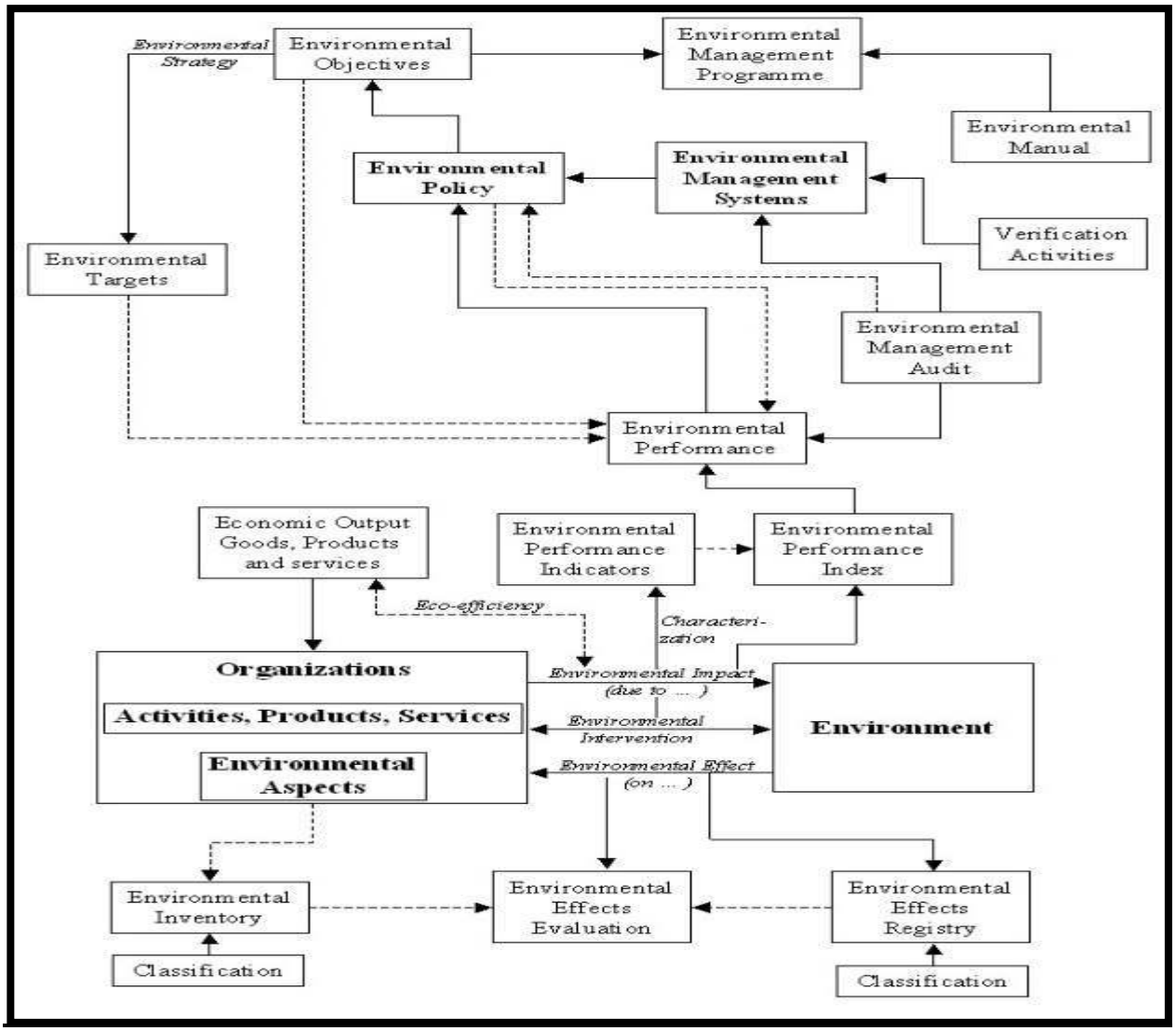
Action taken to eliminate the cause of a potential nonconformity, defect or other potentially undesirable situation in order to prevent occurrence.

➢ Waste reduction

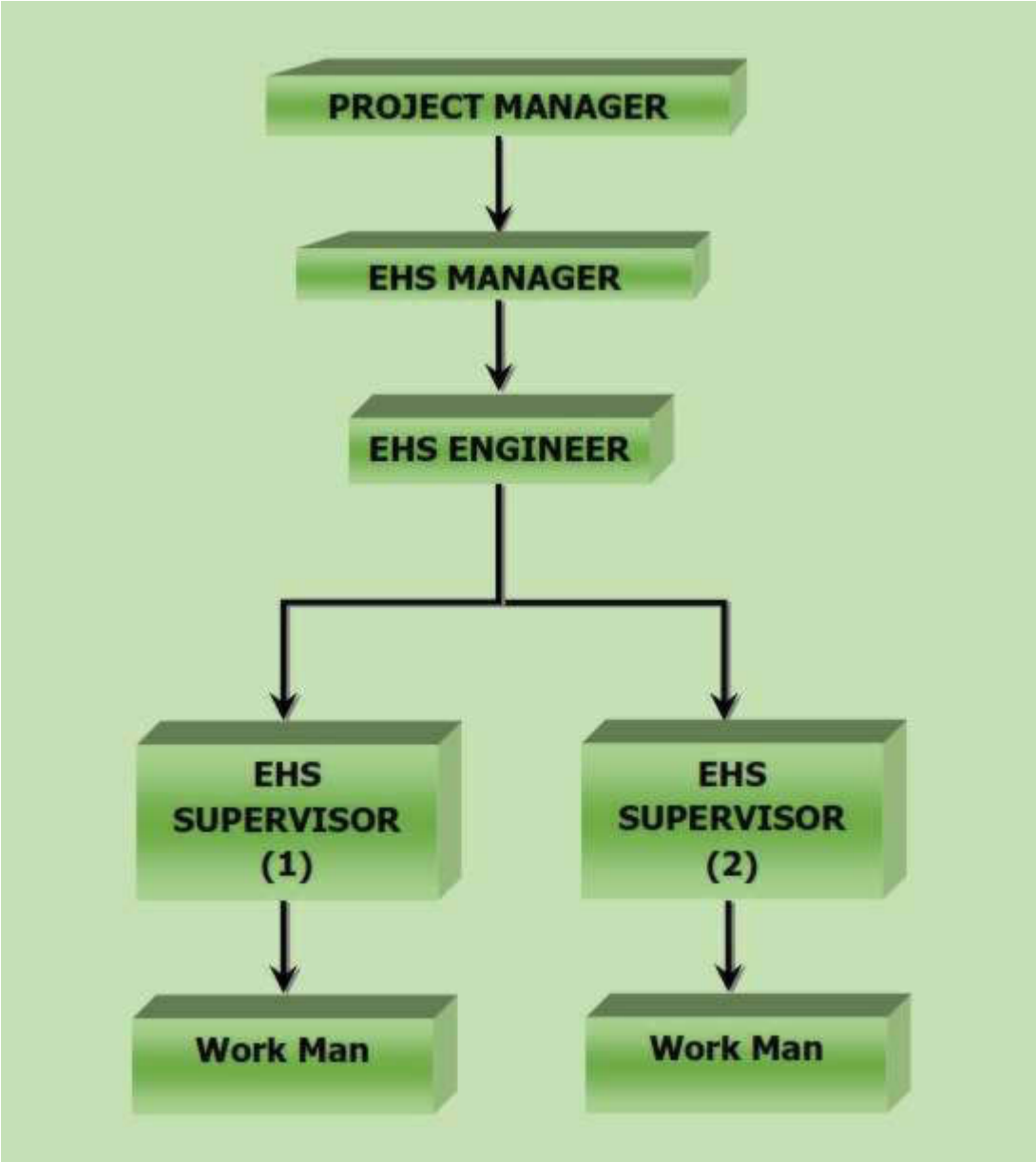
Activities employed by generators of solid waste which will actually and measurably reduce the amount of solid waste generated per person or per household.

NOTE: The definitions and interpretation as mentioned in **clause 1.1** of Conditions of Contract for Works of Civil Engineering Construction, Published by, **"FIDIC "**are forming part of the Standard Definition.

10. ENVIRONMENT MANAGEMENT SYSTEMS



11. PROJECT ORGANIZATIONAL STRUCTURE



Responsibility and authority matrix

S.No	Activity	Project Manager Highways/ Structures	HSE In charge	Store Manager	Site Engineer/ Supervisor
1	Implementation of ENVIRONMENTAL Management System	X	√	X	X
2	Hazards identification, Risk assessment & Risk Control	√	√	√	√
3	All applicable legal and contractual requirements	√	√	√	√
4	Setting of environmental objectives and target to achieve the above objectives	X	√	X	X
5	Implementation of environmental management programs to achieve the above objectives.	X	√	X	X
6	Impart training, awareness, induction & toolbox talks	√	√	√	√
7	Implementation of consultation and communication at site HSE committee etc.	√	√	√	√
8	Documentation /document and data control	X	√	X	X
9	Preparation & Implementation of emergency preparedness & response	X	√	X	X
10	Accidents, incidence investigation, reporting and implementation of corrective & preventive action	X	√	X	X
11	Performance monitoring & measurements	X	√	X	X

12. ENVIRONMENTAL MANAGEMENT PLAN

12.1 CONSERVATION OF TOP SOIL AND CONTROL OF SOIL EROSION, SEDIMENTATION AND WATER POLLUTION

Concessionaire shall carry out the works in such a manner that soil erosion is fully controlled, and sedimentation and pollution of natural water courses, ponds, tanks and reservoirs is avoided. The topsoil available in different areas for embankment purposes, areas to be cleaned from top soil along the road alignment and from quarries shall be removed to a depth not exceeding top soil depth. The removed soil shall be stored in stockpiles of height not exceeding 2 meters.

It shall be ensured that topsoil is not unnecessarily subject to traffic either in - situ or when is stockpile. The slope of stockpile of topsoil shall be maintained within 35o to avoid erosion. Parapet walls shall be made all around the topsoil stockpile. It shall be ensured that the stockpiles are not surcharged or otherwise loaded and multiple handling of the soil shall be kept to a minimum.

It shall be ensured that the topsoil removed from borrow pits or stretch of road to be laid is reused for covering embankment slopes, cut slopes and other disturbed areas where re-vegetation is desired.

The topsoil removed from quarries/any other cutting area shall be backfilled after quarrying.

Details to be inspected for Monitoring Topsoil Preservation & Management

Attributes	Requirements
Topsoil preservation & management	• Storage of topsoil at designated site/s with proper fencing • Maintaining Register for recording the quantity of topsoil generation and re-use at each site; • Provide necessary water spraying in regular interval, as may be required to avoid fugitive dust emission;

Air quality

Concessionaire shall device and implement methods of working to minimize dust, gaseous and other air-borne emissions and carry out the Works in such a manner as to minimize adverse impacts on the air quality. Construction camps shall have facilities for LPG fuel. The use of firewood shall not be permitted. The company shall utilize effective water sprays during delivery, manufacture, processing and handling of materials when dust is likely to be created, and to dampen stored materials during dry and windy weather. Stockpiles of friable materials shall be covered with clean tarpaulins, with applications of sprayed water during dry and windy weather. Stockpiles of materials or debris shall be dampened prior to their movement, except where this is contrary to the Specification. Any vehicle with open load-carrying area used for transporting potentially dust-producing material shall have properly fitting side and tail boards. Materials having the potential to produce dust shall not be loaded to a level higher than the side and tail boards and shall be covered with clean tarpaulins in good condition. The tarpaulin shall be properly secured and extend at least 300mm over the edges of the side and tail boards.

12.2 DUST CONTROL

Source of Air Pollution

The main pollutants, which will come out from different activities, would be Suspended Particulate Matter (SPM) and Respirable Suspended Particulate Matter (RSPM). The main sources of Air Pollution are:

a. The dust coming out from plant activities.
b. Dust generated due to material transportation.

Mitigation Measures Including Contingency Plans

➢ Control Requirement during Transport of Material.

Transport of material from one place to another generates air pollution, which de-grades the air quality of the area. To minimize the pollution the following steps will be taken.

- Precaution will be taken to minimize visible particulate matter from being deposited upon roadways. It includes removal of particulate matter from equipment.
- Before in operation, all equipment should be well maintained. Vehicle cleaning facility shall be provided.
- Wherever required the vehicles carrying dust generated material shall be covered to avoid fly over of the dust.

➢ Control Requirements at Dumping Sites

- We shall Place material in a manner that will minimize dust production. Material shall be stabilized by watering or other accepted dust suppression techniques.
- The heights from which materials are dropped shall be the minimum practical height to limit fugitive dust generation. We shall stockpile the material in the properly designed suitable locations, with suitable slopes.
- The speed of the vehicles moving in this area shall be controlled through strict speed limits to avoid dust generation.
- During dry weather, dust control methods must be used daily especially on windy, dry days to prevent any dust from blowing. Provide water sprinklers that are required for dust control use. Dust control activities shall continue during work stoppages if required.

➢ Control Requirements at Plant Sites

- We shall spray water at Plant sites as required to suppress dust, during handling of dust generating material.
- Effective water sprays shall be used during operation of the plant, when dust is likely to be created and to dampen all stored materials during dry and windy weather.

➢ Control of Dust on Haul Roads

- To reduce the dust generation during the Hauling operation on the Roads, Water Sprinkling Tankers shall be deployed by the company. The tankers shall be deployed to sprinkle water at defined intervals or all the Haul Roads in which the activities are going on. The no. of trips, frequency and areas shall be clearly defined and shall be communicated to the respective departments.
- The driver of the tanker as per defined schedule reports to the concerned departmental supervisor of an area and the no. of trips made in a particular area shall be supervised by

the respective departmental Supervisors. Records of total no. of trips made by the tankers shall be maintained in the "Dust Suppression Register "

- At the end of each month concerned department shall report the total number of trips made by Water Sprinkler to the Administration Department in the "Monthly Report".
- Effectiveness of the Water Sprinkling tanker for suppressing the dust may also be commented by the respective departments to Administration Department, which will enable us to evaluate the performance of the Sprinkling Tankers.

➢ **Control of Dust in the Plant Area**

- In the Plant Areas also Water Sprinkling shall be carried out by engaging water sprinkling tankers following the above-mentioned System.
- The number of trips made by the tankers shall be recorded in the "Dust Suppression Register".
- For Crushers (As applicable) while charging/unloading the boulders in the Primary crusher from dumpers, substantial dust generation can be observed (if the Material is dry). In this case while unloading sprinkling of water shall be done either manually through flexible pipes or through Sprinkling System (Where such system are built in).
- During Unloading/Loading operations in all the Plant Areas, instructions shall be given to the operators to wear the Personal Protective Equipment's (PPEs)/Dust Masks.

12.3 Third party monitoring program

Monitoring of the Noise Levels during Day and Night shall be got done by CPCB/NABL approved laboratory once in six months (If required). It will include the source monitoring and the ambient monitoring at a distance of 50 Feet from the Noise generation sources.

EHS Engineer shall coordinate with the third party labs and shall assure the use of right sampling points, calibrated Instruments and approved methods are followed by the Third party. The EHS Engineer shall review the records of self and third party monitoring.

Source sampling

50% of the installed DG Sets and Equipment shall be covered for Noise monitoring at source and ambient values at 50 Ft. distance so that all equipment is covered at after every three months.

Construction plant, equipment, vehicles, and activities are the major sources of noise. The following mitigation measures are to be addressed in the Procedures:

a. Effective and appropriate noise abatement equipment shall be fitted to the exhausts of all construction plant, equipment and vehicles,
b. Properly qualified and experienced personnel shall be employed to carry out preventive and regular maintenance and repair of construction plant, equipment and vehicles,
c. Locate stationary equipment such as generators and welding sets with exhaust pointing to a neutral location,
d. Acoustic enclosures shall be erected where safe, practical, and effective,
e. Barriers are to be erected to prevent un authorized personnel entering areas where there are high levels of noise,
f. Erect signs clearly defining areas where the wearing of ear protection is compulsory,

g. Restrict working hours for carrying out any high noise activities that risk disturbing local communities during the night,
h. DG operator will be provided with appropriate ear protection (ear plugs, ear protectors, etc.
i. Minimizing the use of Impact Devices such as jack hammers and pavement breakers.
j. The Vibratos to have minimum noise and the operator shall use the required PPEs. The breaking activities through vibrators shall be as far as possible be isolated through suitable barriers.
k. Equipment and Plant are not to be kept idling when not in use.

During erection and maintenance additional sources of noise will be from rotating equipment such as grinding machine, Pumps and Compressors. Long-term permanent noise mitigation measures shall be identified and included in the Project engineering and design (What are the design criterion for noise). Selection of appropriate building materials shall be given high importance.

Pollutant	Time weighted average	Concentration in Ambient Air		
		Industrial Area	Residential, Rural & other area	Sensitive Area
Sulphur Dioxide (SO2)	Annual Average*	50 (μg/m3)	20(μg/m3)	15(μg/m3)
	24 Hours**	80(μg/m3)	80(μg/m3)	30(μg/m3)
Oxides of Nitrogen (NO2)	Annual Average	40(μg/m3)	30(μg/m3)	15(μg/m3)
	24 Hours	80(μg/m3)	80(μg/m3)	30(μg/m3)
Suspended Particulate Matter (SPM)	Annual Average	60(μg/m3)	140(μg/m3)	70(μg/m3)
	24 Hours	100(μg/m3)	200(μg/m3)	100(μg/m3)
Respirable Particulate Matter (RSPM) (Less than 10 micron.)	Annual Average	40(μg/m3)	40(μg/m3)	50(μg/m3)
	24 Hours	60(μg/m3)	60(μg/m3)	75(μg/m3)
Lead (Pb)	Annual Average	0.50(μg/m3	0.50(μg/m3)	0.50(μg/m3)
	24 Hours	1.0(μg/m3)	1.00(μg/m3)	0.75(μg/m3)
Carbon Monoxide (CO)	8 hours	2(mg/ m3)	2 (mg/ m3)	1 (mg/ m3)
	1 Hour	4 (mg/ m3)	4 (mg/ m3)	2 (mg/ m3)

- In Dense Bituminous Macadam Plants (as applicable) in built Bag filters are available, which collect the dust generated during drying and mixing the dried aggregates with bitumen etc. The dust collected from the Bag filters in the " Dust Collection Tank " and to avoid any dust getting into air from this tank, Water Sprinkling shall be carried out as per schedule. Dust shall be collected from the tank and dust shall be stored temporarily in identified areas. In the Windy seasons, if the wind actions are more, the storage heap of this dust shall be covered by the tarpaulin sheets.

- **Control of Dust during the Construction Operations/Activities**

- The Dust concentration during any Operation/Activity shall be kept to a lowest possible extent and the concerned Supervisor shall take the required actions as per the requirement.
- During such activities the PPEs (Dust Masks) shall be provided to the workers.

➢ Control of Dust in the Material Storage Area

The Material like Aggregates, Fine materials etc. when stored shall be done in such a manner that during the High wind the Dust shall not fly in the air. This can be done by making low height of the heaps and also making temporary barrier against the wind direction around the storage area. The Sprinkling of water around such storage area and on the Material itself (if feasible) etc. shall be carried out with the help of flexible pipe and the concerned supervisor of such operation shall see that sprinkling is carried out properly and regularly.

A list of areas where personnel working shall wear PPEs during operation/activities shall be prepared for each site. (Annexure – II)

National Ambient Air Quality Standards (NAAQS)

Note:

* Denotes annual arithmetic mean of minimum 104 measurements in a year taken twice a week 24 hourly at uniform interval.

** Denotes 24 hourly/8 hourly values shall be met 98% of the time in a year, 2% of time, it may exceed but not on two consecutive days.

12.4 EXHAUST EMISSION

➢ Source of Exhaust Emission

The high exhaust emission vehicles, which are identified for the different project sites, are listed as below.

- Excavators
- Cranes
- Air Compressors
- Drilling Machines
- Rock Breakers dumpers
- Trailers
- Tippers.

➢ Preventive Approach

For preventing higher emission the following activities are considered for implementation:

- Preventive maintenance of the Vehicles.
- Fuel change.
- Process change.

➢ Emission Control by Maintenance of the vehicles

The upkeep and maintenance of the vehicles, is of utmost importance and easily possible method for the control of the emission from the vehicles.

Tuning of the engine and carburettor shall be carried out at regular intervals so that exhaust emission is controlled below the legal limits. The checkpoints and frequencies of monitoring are mentioned in the preventive maintenance checklist and schedules.

The regular oiling and greasing shall also be carried out so that concentration of the UN burnt carbon is also reduced to the lowest possible extent. Maintenance of the vehicles shall be carried out periodically.

➢ Emission Control by Fuel Change

The use of low sulphur fuel shall to be made mandatory for the vehicle used more as and when the process permits. Use of low sulphur fuel shall be preferred to be used for vehicles. The site project engineers prioritize the vehicles based on availability of fuel, cost and usage of vehicles, for which low sulphur fuel shall be used and the equipment department maintains the list.

➢ Emission Control by Process Change

Possibility of use of catalytic converters shall be explored for the equipment where design permits and emission levels of the equipment are higher than the specified norms.

➢ Corrective Approach

Fuel Emissions from all the vehicles shall be monitored at least once in every quarter. In case any employee observes high emission from any vehicle, he shall report to the respective area superior and to the equipment division, where they take actions, investigate the root cause and take corrective action. Numbers of such incidents shall be reported to the Environmental Management Group in the quarterly, Environmental Performance Report. Equipment department maintains shall be Monitoring results. Apart from the above, once in every quarter the ambient air quality shall be monitored for SO2, NO2, CO, which can be contributed by such vehicles. These monitored results shall also be summarized and reported to Environment Management Group in the Quarterly Environmental Performance Report.

12.5 PREVENTION AND CONTROL OF SPILLAGE AND DISPOSE OF WASTE

Concessionaire shall control the disposal of all forms of waste generated by the construction operations and in all associated activities. No uncontrolled deposition or dumping shall be permitted. Wastes to be so controlled shall include, but shall not be limited to, all forms of fuels and engine oils, all types of bitumen, cement, surplus aggregates, gravels, bituminous mixtures etc. Concessionaire make's specific provision for the proper disposal of these and any other waste products, conforming to local regulations and acceptable to the Engineer. Spilling of oil and bituminous products during construction and transport shall be avoided to reduce the chances of contamination of surface as well as ground water.

➢ Storage and Handling of Inflammable Material

Diesel storage shall be at our main store area. The Indian Oil Corporation shall be taking all statutory and necessary precautions regarding this storage area. Limited (bare minimum) numbers of L.P.G. cylinders and D.A. cylinders shall be stored at our main store yard in a specifically designated place. All practically possible precautions shall be taken up as per the Statutory Gas Cylinder Rules while storing and handling these cylinders at our site.

Diesel for the generators and mobile equipment at site shall be supplied through mobile Diesel Boucher which itself shall be used as a minor storage facility. All necessary statutory precautions shall be taken in this regard.

➢ Oil Traps

We will not allow any oil traps. Even minor leaks from Plant area, mobile equipment and generators shall be effectively arrested at all times to minimize wastes.

The activities that are probe to spillages are:

- Storage and Handling of the Admixtures/Fuel/Lubrication Oil/ Cement etc. in the Stores.
- Maintenance of the vehicles, equipment's, etc. at the Workshop.
- Unloading and transferring of oil (fresh and used) from tanker to equipment and equipment to drums.

Plant Operations (Hot Mix Plant, Batching Plant, etc.) causing Concrete spillage during handling, loading, unloading.

➢ Prevention and Control of the Spillage of Materials on Soil and Impermeable Surface

The concerned person or whoever notices a spillage of the materials (of whatever nature), reports the incident to the respective head of department / Works Manager. The HOD will assess the cause and take corrective actions accordingly. All the corrective actions and the causes shall be recorded.

In all cases the immediate response is to:

- Contain the spill.
- Identification of source of spill.
- Immediately attending the cause/source of the spill.
- Collection of spilled material.

In case of concrete spills if the quantity is large, the project Manager in consultation with Works Manager may decide to use it in suitable processes. In case of minor spills the pilled material can be neutralized by slowly discharging in the settling tank and drying the sludge. No semi solid concrete shall be disposed off as it is on land.

Contaminated soil may be either excavated or treated on site, depending on the nature and extent of the spill. Excavation of contaminated soil shall require the use of appropriate tools/machinery to carefully remove the soil to storage containers until treated or disposed off at the sites specified by the client or the regulatory authorities.

Oil absorbent sheets or pads may be attached to leaky machinery or infrastructure. While topping up oil in equipment, metallic oil collection trays shall be put beneath the transfer line. During maintenance works also oil collection trays shall be placed before starting the job.

In case of oil spills on ground, immediately saw dust, which shall be available in workshop readily, will be put on the spilled areas, once the spilled oil is soaked by saw dust completely, the sawdust as well as the portion of contaminated soil shall be scooped out and kept separately. Fresh soil shall be put on the same place. The contaminated saw dust shall either be sold off to the approved scrap contractors or disposed of on the land as specified by the client.

➢ Prevention and Control of the Spillage of Materials on Water

The individual responsible for, or who discovers the spillage of the materials (of whatever nature), reports the incident to the respective heads of department / Works Manager. The Site E.H.S Manager will assess the severity problem and make decision. If the spillage quantity is very high the Site E.H.S Manager in consultation with the Project Manager assesses the problem and act accordingly.

The immediate response shall be to contain the spill (e.g. using the oil absorbent barrier). The barrier must be constructed and placed so that they limit or prevent the movement and dispersion of the spill. Special attention should be given to placement of the barrier near the source of spill, at any other place where the spill has accumulated, and at any channel that may control the spread of the pollution to the broader environment.

Contaminated material shall be removed carefully. These shall be stored in adequate containers and treated or disposed of in an appropriate manner as per the guidance of the Engineer of the Client. Such spills shall always be reported in the Learning Incidents Reports along with the causes and corrective actions.

In the case of river spill, water quality shall be monitored at various points downstream of the spill site after taking care of the spill. Monitoring points shall be determined by the nature and extent of contamination.

If water downstream of the spill containment barrier is polluted, and fauna or flora shows signs of deterioration or death, then specialist hydrological or ecological advice shall be sought for appropriate treatment. The requirement for such inputs must be agreed with the Client.

Treatment may be terminated once the spill, the source of the spill, and the contaminated soil/water and materials are contained and that they pose no threat to the environment.

The spillage incidents shall be reported to the Environmental Management Group in the Quarterly Environmental Performance report by the site EHS officers.

➢ Guidelines for identification of debris Disposal sites & Precaution needed

Guidelines for identification

The locations of dumping sites have to be selected such that:

- No residential areas are located downwind side of these locations,
- Dumping sites are located at least 1000 m away from forest areas and water bodies
- Dumping sites do not contaminate any water sources, rivers etc.
- Dumping sites have adequate capacity equal to the amount of debris generated.
- Public perception about the location of debris disposal site has to be obtained before finalizing the location.

Precautions to be adopted during Dumping of Debris / Waste Material

Following precautions are required while disposing off the waste material

- Dispose off debris only to the identified places only with prior permission of the Project Manager
- Dispose off the debris for the improvements in public utilities after the proper consent of villagers.

- In the event of any spoil or debris from the sites being deposited on any adjacent land, immediately remove all such spoil debris and restore the affected area to its original state.
- Ensure that the entire existing stream courses and drains within and adjacent to the site are kept safe and free from any debris.
- To utilise effective water sprays during the delivery and handling of materials when dust is likely to be created and to dampen stored materials during dry and windy weather.
- Materials having the potential to produce dust will not the loaded to a level higher than the side and tail boards and will be covered with a tarpaulin in good condition.
- During disposal of debris, proper warning signs to be installed to the satisfaction of Project Manager.
- Any diversion required for traffic during disposal of debris shall be provided with traffic control signals and barricades after the discussion with local people.
- Adequate arrangements will be made to ensure that the debris / waste material is disposed off nearest to the designated dumping site.

12.6 NOISE CONTROL

➢ **Source of noise pollution**

- The noise generated during the running of the different equipment.
- The noise generated during the operation of plants and corresponding D.G s.
- Any noise generated during any other activity.

➢ **Noise emission limits for construction equipment used during night time hours (measured at 50 feet from construction equipment)**

Equipment Category		Lmax Level dB (A)
Excavators	→	82
Dozers	→	82
Rollers	→	85
Pavers	→	80
JCB	→	80
Crane	→	85
Front End Loader	→	80
Generator	→	82
Pneumatic Tools	→	85
Tractor	→	84
Plant Equipment	→	85

➢ **Noise emission limits apply to equipment used at surface of the Plant site during night time hours of 9 p.m. to 6 a.m.**

Mitigation Measures

To the extent required meeting the noise limits, reasonable efforts will be done to reduce the noise pollution. The following steps will be taken to minimize construction noise levels.

- Locating stationary equipment so as to minimize noise impact on the community.

- Limiting the use of enunciators of public address systems, except for emergency notifications.
- Protecting the persons working nearby noise area by supplying ear plugs and ear muffs. Rotating the working personnel through Management systems such that no person will be exposed continuously.

The control of the noise from the above areas and any other noise prone area can be controlled as classified below:

- Control of noise at the source (source).
- Control of by sound absorbing materials (medium).
- Control of noise by ear protection (receptors).

Control of noise at the Source

- Silencers and mufflers on equipment shall be properly fitted and maintained.
- Use only well maintained plant at site, which should be serviced regularly.
- Equipment and plant shall not to be kept idle when not in use.
- Maintaining equipment such that parts of vehicles and load are secure against vibrations and rattling.
- The construction of temporary physical noise barriers if required.
- Maximize physical separation between noise generators and noise receptors.
- Grading of surfaced irregularities on construction sites to prevent the generation of impact noise and ground vibrations by passing vehicles.
- Scheduling truck loading, unloading, and hauling operations so as to minimize noise impact.
- Schedule work to avoid simultaneous activities that both generate high noise levels.

Control of noise through routine operational control

All the noise-producing operations shall not be enclosed or isolated from the operating or maintenance crew. Wherever it is technically not objectionable enclosure shall be provided to avoid the exposure of noise.

The rules for enclosing a noise machine or operation are as below:

- Enclose as much as the machine or operations/activity area as possible or practicable from the operating point of view.
- Provide proper acoustical treatment for all openings that are necessary to the operation of the enclosed machine or process area.
- Isolate the machine from the floor to minimize the transmission of vibration if applicable and necessary.
- In some machines and process area it may be enough to enclose only the major noise making part or operation, instead of the whole machine or area.

Control of noise at receptors:

- PPEs usage shall be checked once in a week by respective Site EHS Manager and shall be reported in the PPEs Surprise Audit report. Usage of PPEs shall be tracked and whenever deviations are found corrective actions shall be taken, counselling shall be done.
- During normal operations, in case any personnel observe very high noise, the same shall be reported to the concerned HOD/ Supervisor, who shall note the incident in the Learning Incident Form and decides and takes the corrective action.

Ambient noise level shall be monitored once in every month and high noise incidents shall be reported in quarterly environmental Performance Report by site HSE Officer to the Environment Management Group.

12.7 WATER SOURCES AND WATER QUALITY

Concessionaire shall provide independent sources of water supply, such as bore wells, for use in the Works and for associated storage, workshop and work force compounds. Prior approval shall be obtained from the relevant State Authorities and all installations shall be in compliance with local regulations. It shall protect all watercourses, waterways, ditches, canals, drains, lakes and the like from pollution as a result of the execution of the Works. All water and other liquid waste products arising on the Site shall be collected and disposed of at a location on or off the Site and in a manner that shall not be cause either nuisance or pollution. It ensured that all existing stream courses and drains within and adjacent to the Site are kept safe and free from any debris and any materials arising from the Works.

12.8 WATER POLLUTION

➢ Source of Waste Water

Most of the wastewater generated by different services/Activities/Operations from the following areas:

- Wastewater generated due to the different plant Operations.
- Batching Plant, WMM Plant etc. (as may be applicable).
- Waste Water generated from Curing Yard (as applicable).
- Waste Water (Sewage), generated from the Labour Camp/Officers Camp/ Other Living Facilities.

➢ Control of Waste Water Pollution from Plant Operations

- To control the waste water Pollution, the waste water which shall be coming out of different plant operation / Washing etc. shall be first diverted to the Concrete drainage lines and then the waste water from different Plant Operations shall be taken to a common Settling tank.
- The treatment shall be carried out for the alkaline waste water by first knowing the pH of the Waste water and changing it to the neutral condition by adding acids like HCl / H2SO4. A chart showing the quantity of HCl / H2SO4 to be added v/s the alkalinity of effluent shall be prepared and displayed near settling tank.
- The water shall be allowed to settle in the settling tank. The residence time shall be calculated based on the flow of water and also the volume of the tank and shall be displayed near the settling tank.
- After providing sufficient settling time and neutralization of the water, the Wastewater shall be discharged in to a specified location approved by the Pollution Control Board.
- The pH and Waste water quality of the final effluent from the settling tank shall be monitored on site once in every shift to check that it complies with the required water quality criteria stipulated by the Central/State Pollution Control Boards.
- The Sludge which is collected from the Settling tank has to be dried out over the Concrete sludge sun drying beds under the normal atmospheric conditions and shall be disposed of on a specified location given by the Client or Pollution Control Board. During Transportation the dumpers that are transporting the Sludge shall be covered with the Tarpaulin sheets.

- During Monsoon season the Sludge shall be stored in the closed storing yard and moisture content shall be reduced up to the lowest possible extent by adding the admixtures that will reduce the moisture content of the Sludge and disposed of as mentioned above.
- Monitoring of effluent quality shall be carried out as per the Measurement and Monitoring Plan.
- Control of Waste Water (Sewage) Pollution from the Labour Camp/ Officers Camp / Other Living Facilities:
- Sewage produced from the sites shall be produced from the Labour /Officer Camps and Canteens.
- The Sewage is mostly containing the Organic matter that shall be treated by the Biological Treatment. The treatment shall be done with the Septic Tank provided at the each location.
- Septic Tanks are provided with the Soak Pit that shall be used for collection of suspended solids of the supernatant from the Septic Tank and the overflow of the soak pit shall be disposed of in the specified location suggested by the client or Pollution Control Boards.
- The quality of overflow from all the soak pits shall be monitored on a regular basis as per monitoring and measurement Plans to check that it complies with the required water quality criteria stipulated by the Central/State Pollution Control Boards.

➢ Water quality monitoring

Water quality parameters such as pH, BOD, COD, DO, coliform count, total suspended solids, total dissolved solids, Iron, Fluorides etc. shall be monitored at all identified locations during the construction stage as per standards prescribed by Central Pollution Control Board and Indian Standard Drinking water specifications IS 10500, 1991. The location, duration and the pollution parameters to be monitored and the responsible institutional arrangements are detailed out in the Environmental Monitoring Plan

Primary Water Quality Standards

S.No.	Designated Best Use	Class of Water	Criteria
1	Drinking Water source (with conventional treatment)	A	• Total Coliform MPN/100 ml shall be 50 or less. • pH between 6.5 to 8.5. • Dissolved Oxygen 6 mg / 1 or more. • Biochemical Oxygen demand (BOD) 5 days 200C 2 mg/1 or less.
2	Outdoor bathing (organised)	B	• Total Coliform MPN/100 ml shall be 500 or less • pH between 6.5 to 8.5 • Dissolved Oxygen 5 mg / 1 or more • Biochemical Oxygen demand (BOD) 5 days 200C 3 mg/1 or less
3	Drinking Water source (without conventional treatment)	C	• Total Coliform MPN/100 ml shall be 5000 or less • pH between 6 to 9 • Dissolved Oxygen 4 mg / 1 or more • Biochemical Oxygen demand (BOD) 5 days 200C 3 mg/1 or less
4	Propagation of Wildlife	D	• pH between 6.5 to 8.5 for fisheries • Dissolved Oxygen 4 mg / 1 or more

			• Free Ammonia (as N) 1.2 mg/1 or less
5	Irrigation, Industrial Cooling, Controlled Waste	E	• pH between 6.0 to 8.5 • Electrical Conductivity at 250 C µmhos/cm Max. 2250 • Sodium absorption rations Max. 26 • Boron, Max.2 mg/1

Indian Standard Drinking Water Specification

S. No	Substance/ Characteristics	Requirement (desirable limit)	Undesirable effect outside the desirable limit	Permissible limit in the absence of alternate source	Methods of Test (ref. To IS)	Remarks
Essential Characteristics						
1	Colour, Hazen Units, Max.	5	Above 5, consumer acceptance decreases	25	3025 (part4) 1983	Extended to 25 only if toxic substances, in absence of alternate sources.
2	Odour	Unobjectionable	-	-	3025 (parts 5):1984	A test cold and when heated Test at severa dilution
3	Taste	Agreeable	-	-	3025 (part 8): 1984	Test to be conducted only after safety has been established
4	Turbidity NTU, Max.	5	Above 5, consumer acceptance decreases	10	3025 (part 7): 1984	
5	PH value 6.5 to 8.5	5	Beyond this range the water will not effect the mucous membrane and /or water supply system	No relaxation	3025 (part 11): 1984	
6	Total hardness (as CaCo3) mg/1, Max.	300	Encrustation in water supply structures an adverse effect on domestic use	600	3025 (part 21): 1983	
7	Iron (as Fe) mg /l Max.	0.3	Beyond this limit taste/appeara	1	3025 (part 21): 1983	

			nce are affected has adverse effect on domestic uses and water supply structures and promotes iron bacteria			
8	Chlorides (as CI) mg/1 Max.	250	Beyond this limit, taste corrosion and palatability are affected	1000	3025 (part 32):1988	
9	Residual, free chloride, mg/1 Min.	0.2			3025 (part 26):1986	To be applicable only when water is chlorinated. Tested at consumer end. When protection against viral infection is required, it should be Min. 0.5 mg/1

12.9 WASTE MANAGEMENT

INTRODUCTION

Construction and demolition waste is generated whenever any construction/demolition activities takes place during construction and widening of roads, bridges, flyover, subway, and resurfacing and rehabilitation works involved in the road projects. It consists mostly of inert and non-biodegradable material such as concrete, plaster, metal, wood, plastics etc.

These wastes are having high density and very heavy, often bulky and occupy considerable storage space either on the road or communal waste bin/container.

It is estimated that the construction industry in India generates about 10-12 million tons of waste annually. Projections for building material requirement of the housing sector indicate a shortage of aggregates to the extent of about 55,000 million cum and for highway projects 750 million cum aggregate material from construction and demolition waste may reduce the demand-supply gap in both these sectors.
While retrievable items such as bricks, wood, metal, titles are recycled the concrete and masonry waste, accounting for more than 50% of the waste from construction and demolition activities are not being currently recycled in India.
The wastes shall be generated mainly from the following site activities / operations / services:

- Maintenance / lubrication activities.
- Changing Batteries once the life is exhausted.
- Plant Operations.
- Bending / Cutting of Reinforcement Steel Rods.

➢ Collection of wastes

For Spent Oil

Reusable drums shall be used for spent oil collection. Before collection the drums shall be checked for their integrity to avoid any leakage/spillage during storage. The drums shall be marked as "Spent Oil Drums" and after collection of spent oil they shall be shifted to the designated spent oil storage yard area. While collection, drums shall be placed on metallic trays to prevent any soil contamination.

For Waste Batteries

Waste Batteries are generated during maintenance activities. The waste Batteries just after replacement with new one shall be shifted to the designated storage area. While transferring it shall be ensured that acid spillage does not take place. The personnel involved always shall put their gloves on during charging and handling activities. The Waste Batteries shall be transferred in trolleys or by forklifts to reduce extent of manual handling.

Empty Chemical Drums

Empty chemical drums (specifically admixtures etc.) shall be first washed with water or acidic/alkaline water as may be required. The wash water shall be channelled to the settling tanks. The drums shall be stored in their designated place.

Reinforcement Steel Scrap

Whenever the scrap rods are generated, they shall be temporarily stored in an identified area within barricade to avoid any unsafe occurrences and transferred to scrap yard at the end of each shift.

Clearing and grubbing (C&G)

The material collected after C&G at site stored within the ROQ or at approved disposal site so that waste does not get scattered and does not become an eyesore.

- The waste material is carted to disposal site in tippers properly covered and disposed off at disposal site.
- There are various types of materials collected during C&G process like weeds, stumps of trees, or other organic matters. Attempts are made to keep the waste segregated into different heaps as far as possible so that further gradation and reused is facilitated. These materials are generally self degrading and are not health hazard and some of the material are may be used for land fill if required.

Scarified / Dismantled Bituminous Material

- The material collection for scarification of bituminous road or from dismantling of existing road are stored at site and preserved.
- These materials may be mixed in required percentage with GSB material to achieve the desired gradation and may be utilised in medial filling.
- The material is carted by tippers to the stockyard and preserved for reuse.

Dismantled Concrete/Bricks Waste

- The materials are collected from different location of dismantling of bridges and other structures during the road construction.
- They are generally heavy and bulky in nature and require huge effort to handle such type of waste.
- The material is generally stacked at or near the site and later is disposed a suitable locations.
- The suitable and reusable materials are stacked separately for reuse.

Waste from hot Mix Plant (Aggregate Dust)

- The aggregate waste is collected near the plant and considerable amount of waste shall be reused as filled in the bituminous works.
- Dust at plant site is to be reduced at considerable extent.

Settling Tank Waste (Concrete Batching Plant)

- The waste generated at batching plant is allowed to settle in the settling tank. Further this will be collected and reused for the haul road to the plant site.

This helps in the reducing of dust during the movement of heavy vehicles. Further, the haul road shall be regularly watered and kept moist.

Oily cotton Wastes

First preference shall be given if the oily cotton wastes can be given to authorized spent oil contractor, otherwise these shall be disposed of in environmentally benign manner ensuring that seepage of oil into the grounds is avoided.

Condition of trees (Damage will be rectified)

Before removing any trees or any other environmental friendly accessories we shall keep all the statutory requirements and inform in advance to the concerned authorities and any practical solution/instructions shall be followed to rectify the damage to the environmental conditions.

Organic Waste from Kitchen/Workers Mess

- The waste generated in the kitchen at camp site is to be collected in proper covered container (20 kg /day)
- The waste are further carried away and disposed to the municipal committee waste disposal areas and after that shall be send for composting.

➢ Storage of wastes:

Storage of Spent Oil

- Spent Oil drums shall be placed vertically with lids closed. No stacking of one drum on other shall be allowed for storing spent oil.
- The Storage areas shall be concreted in a seepage proof manner and provided with 100% containment facilities. To collect any oil leaked/spilled from these drums "Collection Pit" shall be made within containment. Slopes shall be so maintained that the leaked/spilled oil gets deposited in the Collection Pit.
- In case of spill/leak immediately saw dust shall be spread on these areas. In the Storage area "NO SMOKING" marking shall be displayed and fire extinguisher shall be placed.

- In the workshop the maintenance of the vehicles shall be carried out on impermeable floor and every precaution shall be taken to avoid leakage/spillage of lubricants, fuel etc.
- Whenever possible, vehicles will be washed on an impermeable surface in a maintenance area, and runoff directed through a drain which contain an oil trap.
- At time not more than 10 spent oil drums shall be stored.
- Quantity of generation of Spent Oil and Oil Containing filters shall be maintained in form 3 of Hazardous Waste (Management and Handling) Rules, 1989.

Storage of Oily Cotton Wastes/Oily filters

The Storage areas shall be concreted with adequate containment. The frequency of disposal of Oily cotton wastes/Oily filters shall be at least once in a week. The areas shall have "NO SMOKING" or "INFLAMMABLE" marking and fire extinguisher provision shall be made.

Storage of Waste Batteries/Empty Chemical Drums

Waste Battery storage areas shall be acids proof to prevent any soil contamination because of acid leak/spill from the waste batteries. Empty chemical drums shall also be stored within containment and while provisioning for the storage facility; the precautions shall be taken based on the characteristics/precautions mentioned in the MSDS of those chemicals. Material Safety Data Sheet (MSDS) of the chemicals shall be maintained in the areas where the chemicals are stored as well as used.

All the Storage areas shall be identified by name and nature of Material being stored. All the storage areas of Wastes shall be inspected once in fortnight to ensure no leakage is taking place.

Storage of Reinforcement Steel

Reinforcement steel rod scraps shall be stored in an identified area within scrap yard having barricade.

➢ Disposal of the hazardous wastes

- Spent Oil/ Waste Batteries/Oil Cleaning Filters shall be disposed of to the MOEF Registered or SPCB authorized scrap contractor who are granted to collect, transport, receive, process these hazardous wastes.
- While disposing spent oil/oil containing filters, manifests as per Form 9 (in six copies) shall be filled in and the copies shall be distributed to the concerned persons/authorities as per rule & of Hazardous Wastes (Management and Handling) Rules, 200 (Amendment).
- Before disposal, integrity of the drums/batteries shall be checked, in case of leaks necessary corrections and corrective actions shall be taken.
- In case disposal of such wastes involve interstate transport, necessary "No Objection Certificates" shall be taken from respective SPCB.
- All the containers of these wastes shall be labelled. The label shall contain the following:
  a. Name of Material.
  b. Hazard Class.

13. MONITORING FEED BACK

➢ Monitoring of SPM (Ambient levels)

The following locations are identified for checking the noise and air pollution during the work Times.

For Air Monitoring

1 location near blasting area.

1 location near crushing plant area.

1 location near batching plant area.

1 location near hot mix and Wet mix area.

1 location near embankment / fly ash working area.

Similar location identification shall be used for Noise monitoring also.

➢ Methodology

The sample shall be collected with the help of high volume samplers using standard method adopted by BIS (IS 5182) on pre weighted GFA filter paper at rate min of 1.1 m3/min for 8 hours and SPM shall be measured with difference in filter paper and shall be reported in μg/m3.

➢ Presentation & Interpretation of results

The results shall be reported on the basis of 8 hours and shall be presented as μg/m3. These results shall be compared with National Ambient Air Quality standard.

Noise level during the construction shall be measured and shall be presented as Leq, Lmax in decibel (dB) units. The measured values shall be compared with the standard values.

A noise level shall be measured during the running of equipment during plant operation. Noise shall be measured with a calibrated Noise Meter at various locations as per the statutory requirements.

➢ Contingency Plan

If any Environmental monitoring value exceeds of limiting value (either accidental or through inadequate implementation of mitigation measures) does occur, the cause shall be quickly identified and remedial action shall be applied.

14. EXTERNAL COMMUNICATION

- Inquiries and other communications from external parties concerning the BEL Environmental Management system or environmental performance shall be received by the contracts / administration manager. All such communications shall be routed through contracts / Administration departments.
- All the received communication shall be registered in the External Communication Register.
- After taking action the concerned person shall inform the date of response to the contracts/administration department who in turn shall ensure that the date of response is recorded in the "Response Section" of the Register of External Communication with representatives of regulatory agencies delegated to the Contracts/administration Manager, who maintains the record of all such communication. Copies of all other written

communications on environmental matters shall be maintained by the contracts / administration department.

- Records of the responses to all the communications from external parties shall be maintained by the concerned person in the files designated for that purpose.

15. INTERNAL AUDIT

For monitoring the activities of construction and operation of the plants, internal environment audit shall be done by our expert cell as per. If any non-compliance is found during environmental audits it shall be immediately rectified. All the statutory obligations in this regard shall be followed.

ANNEXURES-(1)

➢ LIST OF EMP CHECK LIST & FORMATS

Sl. No	Title	Doc. Ref. No.	Location
1	Environment Inspection Checklist	DBLMSHPL/PEMP/FORM/01	Site In charge
2	Environmental Performance Assessment	DBLMSHPL/PEMP/FORM/02	Site In charge
3	Air Quality Assessment And Control	DBLMSHPL/PEMP/FORM/03	Site In charge
4	Summary Of Dust Monitoring	DBLMSHPL/PEMP/FORM/04	Site In charge
5	Dust Suppression Register	DBLMSHPL/PEMP/FORM/05	Site In charge
6	Noise Assessment And Control	DBLMSHPL/PEMP/FORM/06	Site In charge
7	Topsoil Assessment & Reinstatement	DBLMSHPL/PEMP/FORM/07	Site In charge
8	Tree Enumeration	DBLMSHPL/PEMP/FORM/08	Site In charge
9	Transplantation Survival	DBLMSHPL/PEMP/FORM/09	Site In charge

Environment Inspection Checklist (DBLMSHPL/PEMP/FORM/01)

DILIP BUILDCON LIMITED	ENVIRONMENT SITE INSPECTION CHECKLIST	Ref No- PEMP/FORM/01

Project Name:

Date of Inspection:

Sr. No.	EHS Issue	Yes/No	Remarks
1.0	General		
1.1	Is EHS Policy displayed at project site.		
1.2	Is qualified Environment personal at project site deputed?		
1.3	Are Environmental Manual & OCPs prepared?		
1.4	Is project site specific or periodic prepared & displayed.		
2.0	Water Management		
2.1	Is drinking water facilities provided at site? If yes, Number of drinking water facilities		
2.2	Source of water supply & their authentication/ permission / receipt available		
2.3	In case of tanker water, log of receipt is maintained		
2.4	Is Drinking water quality tested? frequency		
2.5	Is there any leakage of water & waste water?		
2.6	Is waste water is being collected in septic tank.		
2.7	Is final disposal of waste water from septic tank through registered / authorized vendor?		
2.8	Is the capacity of septic tank sufficient?		
2.9	Records of water used for construction and drinking purposes are maintained.		
3.0	Storm Water Management		
3.1	Run-off from the project site to be channelized to the storm water drain during construction and operation phase.		
3.2	Provision of rainwater harvesting measures as per the design is implemented or not		
3.4	Is sedimentation and erosion control plan with detail mitigation measures adopted? (such as silt fencing, sedimentation basin, pitching, etc)		
4.0	Hygiene & Sanitation		
4.1	Is open defecation by labors strictly prohibited?		
4.2	Is Bathing / Washing Facility provided at site?		
4.3	Is toilet/ Mobile toilet facility provided at site?		
4.4	Are drinking water facilities situated with minimum 6 m away from toilets/ bathing facilities?		
4.5	Are all the drains covered & cleaned regularly?		
4.6	Are measures taken to control the mosquito's generation?		
6.0	House keeping		
6.1	Are the passages clear? (free from obstacles/water/slippery)		
6.2	Are the materials stacked/ stored in proper manner?		
6.3	Are Materials & Machineries are free from dust, oil & grease?		

DILIP BUILDCON LIMITED	***ENVIRONMENT SITE INSPECTION CHECKLIST***	Ref No- PEMP/FORM/01

Sr. No.	***EHS Issue***	***Yes/No***	***Remarks***
6.4	Are dustbins provided at all required places?		
6.5	Are dustbins being emptied timely?		
7.0	***Top soil Conservation***		
7.1	Is Location earmarked on site for top soil stockpiles?		
7.2	Is top soil stockpiled properly?		
7.3	Is Quantity of stored top soil documented?		
7.4	Is top soil being reused in horticulture / landscape development within the project site?		
8.0	***Muck Disposal***		
8.1	Is Log book for muck/earthwork generated and reused for filling and disposed off maintained?		
8.2	Is Muck disposed off at the approved sites with the approval of competent authority?		
8.3	Is there any adverse effect on neighboring communities by disposal of muck?		
9.0	***DG Sets***		
9.1	DG sets nos. & their capacity installed at site.		
9.2	Is silent type DG set / with acoustic enclosures installed at project site?		
9.3	Is low sulphur fuel being used (0.25 %) for DG sets?		
9.4	Are fuel / diesel stored on concrete platform with garland drains?		
9.5	Is Stack height of all DG sets used at site, as per CPCB norms?		
9.6	Is Stack monitoring and DG noise monitoring carried out by MoEF / SPCB accredited laboratory on six monthly basis?		
9.7	G.S.R certificate issued by manufacturer for DG set is available		
9.8	Is there any leakage of oil from DG sets?		
9.9	Are the door of the DG sets is properly closed while running?		
10.0	***Ambient Air and Noise***		
10.1	Is Water sprinkled to control dust?		
10.2	Is log maintained of water sprinkled to control dust?		
10.3	Are all vehicle hired for material transportation and construction activities have valid PUC certificate?		
10.4	Are all dust generating material (Cement, sand etc) stored under cover?		
10.5	Is noise level well below the standard as per BOCW rules (schedule 1)?		
10.6	Is Ambient Air Quality monitored? If yes, then frequency		
10.7	Is Ambient Air quality well below CPCB revised standard limits?		
11.0	***Material Utilization***		
11.1	Is Ready Mixed Concrete being used at site? Is log maintained?		
11.2	Is fly ash being used in construction activities?		

DILIP BUILDCON LIMITED	ENVIRONMENT SITE INSPECTION CHECKLIST	Ref No- PEMP/FORM/01

Sr. No.	EHS Issue	Yes/No	Remarks
11.3	Is Records of Quantity of fly ash used (%age of total) maintained?		
11.4	Is curing agent being used to reduce water demand?		
12.0	***Solid Waste Management***		
12.1	Solid Waste Management is done by agency or in house		
12.2	Are adequate numbers of collection bins provided?		
12.3	Is solid waste collected on daily basis?		
12.4	Is solid waste collected being send to authorized vendor?		
12.5	Is a detail (with quantities) of construction waste generated and waste to be sent to landfills, maintained?		
13.0	***Hazardous Waste Management***		
13.1	Is Hazardous waste (spent oil, category 5.1) generated from the DG sets stored in HDPE drum with lock key arrangement?		
13.2	Is the spent oil to be sold only to the authorized vendor of HSPCB?		
13.3	Is Log book for quantity of hazardous material generated and sold maintained?		
13.4	Is construction spoils, including bituminous material and other hazardous materials disposed as per HSPCB norms?		

HSE Manager Safety Engineer

Environmental Performance Assessment (DBLMSHPL/PEMP/FORM/02)

Project Environment Management System ENVIRONMENTAL PERFORMANCE ASSESSMENT							PEMP/FORM/02
Project:			Date :			Name of Assessor :	
Sl. No.	ENVIRONMENTAL KPI's	RATING CRITERIA	RATING SCALE				Remarks
			0	3	7	10	
1	**IMPLEMENTATION OF ENVIRONMENTAL MANAGEMENT SYSTEM**	110					
1.a	**Establishment of EMS**	10					
	Available of Project Environmental Management Plan (PEMP) at site						
	Available of Environmental Control Procedures						
	Establishment of Environmental Core Team						
1.b	**Environmental Policy**	10					
	Environmental policy endorsed by Project Manager & other key personal						
	Environmental Policy display at various location						
	Awareness of the Environmental Policy to all staff members						
1.c.	**Legal Compliance**	10					
	Identification of relevant legal and other requirements						
	Available of all the required consent to establish and operate polluting units such as batching plant, crusher plant, septic tank etc.						
	Available of up to date and revised Environmental Register						
1.d.	**Environmental Aspects**	10					
	Identification of significant environmental aspects and impacts for all the construction and related activities.						
	Review and regular revision of environmental aspects						
1.e.	**Objective & Target and EMP**	10					
	Establishment of objective and targets for each identified significant aspects						
	Establishment of EMP for identified objective and targets						
	Achieved Target against planned						
	Periodic review and revision of objective and target						
1.f	**Training**	10					
	Identification of Training needs						
	Training to the personnel on various environmental requirements						
	Training provided Vs Training Planned						
1.g	**Communication**	10					
	Environmental meetings held and their frequency						
	Environmental communications with Head Office IMS department						
	Usage of Intranet (If available)						
1.h.	**Emergency Preparedness and Response**	10					
	Available of procedures for accidents and emergency situations						
	Periodic test the effectiveness of the emergency preparedness and response procedures						
	Periodically review and revise of procedures after the occurrence of accidents or emergency situations						
1.i.	**Monitoring & Measurement**	10					
	Available of monitoring & measurement plan						
	Monitoring completed Vs Planned						
	Action plan for the adverse results						
	Available of calibration certificate for all the environmental monitoring equipments						
	Available of environmental statistics display board						
1.j.	**Records**	10					
	Available of all the monitoring and measurement formats						
	Maintain of environmental records updated						
1.k.	**Audit Follow-up and Action Plan**	10					
	Available of action plan for the internal & external audit findings						
	Implementation of action plan for the audit findings implemented vs Planned)						
	Implementation of corrective and preventive actions						
2	**ADOPTION OF ENVIRONMENTAL CONTROL MEASURES**	150					
2.a.	**Solid Waste Management**	25					
	Identification of waste						
	Segregation of waste at the source						
	Collection of waste						
	Practice of waste management options (Recycle, Reuse, Reduce, Treatment and Disposal)						
	Transportation of identified waste by approved waste hauler						
	Volume of waste reused vs. recycled vs safe disposal						

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2.b.	**Air Quality Management**	25							
	Identification of sources								
	Monitoring as per the monitoring plan								
	Implementation of mitigation measures (treatment methods, preventive								
	Plantation of Pollution absorbing trees near the polluting units (batching plants, crusher plants etc)								
2.c.	**Water Quality Management**	25							
	Identification of sources								
	Monitoring as per the monitoring plan								
	Implementation of mitigation measures (treatment methods, preventive maintenance etc)								
	Ratio of water recycled vs reused vs consumption								
2.d.	**Noise Quality Management**	25							
	Identification of sources								
	Monitoring as per the monitoring plan								
	Implementation of mitigation measures (sound absorbent, noise barrier, preventive maintenance etc)								
2.e.	**Oil Spill Response Plan**	25							
	Identification of potential oil spillage areas								
	Number of uncontained spills to land > 25 liters								
	Number of spills to water (no threshold size)								
	% repeat spills (same underlying cause) vs total number of spills								
	Total availability of spill kit vs Total potential oil spillage area								
2.f.	**Soil Quality Management**	25							
	Identification of Topsoil to be removed at various location								
	Preservation of removed Topsoil								
	Reinstatement of RoW (Spreading of Topsoil)								
	Storm water runoff control measures adopted at the project site and camp								
	Soil erosion control measures adopted at the project site and camp								
3	**RESOURCE CONSERVATION MEASURES**	30							
3.a.	**Water**	10							
	Monitoring of water consumption at various activities / locations (water meters installed)								
	Water conservation measures adopted at the site for various activities (water conservation taps, recycle, reuse etc)								
	Performance indicator for water consumption against various utilities (such as water required for cleaning batching plant drum etc)								
	Volume of water conserved vs. fresh water consumed.								
3.b.	**Energy**	10							
	Power factor maintained								
	Monitoring of energy consumption at various activities / locations (Energy meters installed)								
	Energy conservation measures adopted at the site for various activities (such as energy conservation bulbs, equipments etc)								
	Performance indicator for energy consumption against various utilities (such as energy required by batching plant for production of one ton of concrete)								
3.c.	**Material**	10							
	Performance indicator for material consumption against products								
	Study of mass balance for the materials (such as No. of Cement bags used Vs One ton of cement used in batching plant)								
4	**SOCIAL COMPLIANCE**	10							
4.a.	Number of social complaint rectified Vs complain received from the local communities								

Comment: (This report shall be sent to the site with detail audit report)

SL.No.

Signature of Auditor	Management Representative

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Air Quality Assessment and Control (DBLMSHPL/PEMP/FORM/03)

DILIP BUILDCON LIMITED INFRASTRUCTURE & BEYOND	Project Environment Management System Air Quality Assessment and Control					PEMP/FORM/03
Date						
Srl.	Sampling location	Time of Observation	Environmental Parameters	Permissible Limit	Monitoring Result	Details of action / mitigation measures taken, if results exceed the prescribed limit.

APPROVED BY	NAME	SIGNATURE

Summary of Dust Monitoring (DBLMSHPL/PEMP/FORM/04)

DILIP BUILDCON LIMITED	SUMMARY OF DUST MONITORING			PEMP/FORM/04
	Project:			Page
Location	Monitoring Parameters	Target Concentration	Actual	Correction / Corrective Action

Dust Suppression Register (DBLMSHPL/PEMP/FORM/05)

DILIP BUILDCON LIMITED	DUST SUPPRESSION REGISTER				Ref No- PEMP/FORM/05
	Project:				Page
Location	Date	Tanker Reporting Time	Water Quantity	Driver's Sign	Remaks by Supervisor

Noise Assessment and Control (DBLMSHPL/PEMP/FORM/06)

DILIP BUILDCON LIMITED	Project Environment Management System Noise Assessment and Control	PEMP/FORM/06

Srl.	Location of sampling	Sound Pressure Level (dBA)	Time of Observation	Allowable Permissible Level (dBA)	Exceed, if any (dBA)	Details of action / mitigation measures taken

APPROVED BY	NAME	SIGNATURE

Top Soil Assessment & Reinstatement (DBLMSHPL/PEMP/FORM/07)

DILIP BUILDCON LIMITED INFRASTRUCTURE & BEYOND	Project Environment Management System TOPSOIL ASSESSMENT	Ref.No PEMP/FORM/07

Srl.	Assessment Location	Representing Chainage / Area		Topsoil Depth (cm)	Remarks (Nature, Colour etc)
		From	To		

APPROVED BY	NAME	SIGNATURE

Tree Enumeration (DBLMSHPL/PEMP/FORM/08)

DILIP BUILDCON LIMITED	Project Environment Management System	REF NO- PEMP/FORM/08
	TREE ENUMERATION	

Project: **Date -**

Representing Chainage		Trees To be Removed / Cut (No's)	% of Trees Removed / Cut	Shrubs to be removed (Cluster)	% of Shrubs removed	Remarks
From	To					

Comments

Signature of Site Incharge	Signature of Site Incharge

Transplantation Survival (DBLMSHPL/PEMP/FORM/09)

DILIP BUILDCON LIMITED

Project Environment Management System

TRANSPLANTATION SURVIVAL

REF NO- 'PEMP/FPRM/09

Project:

Date -

Location for Transplantation Km - Km	Transplanted Trees			Remarks
	Total Trees Planted (No's)	Total Survival (No's)	% Survival	

Transplantation shall be followed as per the approved plan.

Comments

Signature of Site Incharge | **Signature of Section Incharge**

ANNEXURES-(2)

➢ LIST OF AREAS WHERE PERSONAL PROTECTIVE EQUIPMENT IS NECESSARY

EAR PLUGS

- Generator rooms
- Drilling operations
- Blasting Operations

DUST MASKS

- Drilling operations
- Blasting Operations
- Crushing Plant (While in operation)
- Hot Mix Plant (While in operation)
- Batching Plant (While in operation)
- Laboratory (As per the Need)
- During Heavy Earth Moving Equipment Operations (during dry weather)
- During Handling of Cement Bags
- And in other dust generating operations.

DILIP BUILDCON LIMITED INFRASTRUCTURE & BEYOND	***ENVIRONMENT SITE INSPECTION CHECKLIST***	**Ref No- DBL/PEMP/FORM/01**

Project Name: Four Laning of Sangli-Solapur (Package-IV: Mangalwedha to Solapur) Section of NH-166 from existing Ch. Km. 314.969 to Ch. 370.452 (Design Ch. Km. 321.600 to km 378.100) of length 56.500 Km in the State of Maharashtra on Hybrid Annuity Mode

Date of Inspection: 31.01.2020

Sr. No.	***EHS Issue***	***Yes/No***	***Remarks***
1.0	***General***		
1.1	Is EHS Policy displayed at project site.	Yes	Photographs attached
1.2	Is qualified Environment personal at project site deputed?	Yes	2 Nos EHS Engineer with supporting EHS staff
1.3	Are Environmental Manual & OCPs prepared?	Yes	EHS plan already submitted to Authority
1.4	Is project site specific or periodic prepared & displayed.	Yes	
2.0	***Water Management***		
2.1	Is drinking water facilities provided at site? If yes, Number of drinking water facilities	Yes	4 tankers daily and RO is also available
2.2	Source of water supply & their authentication/ permission / receipt available	Yes	
2.3	In case of tanker water, log of receipt is maintained	Yes	
2.4	Is Drinking water quality tested? frequency	Yes	
2.5	Is there any leakage of water & waste water?	No	
2.6	Is waste water is being collected in septic tank.	Yes	
2.7	Is final disposal of waste water from septic tank through registered / authorized vendor?	Yes	Through Municipal Corporation
2.8	Is the capacity of septic tank sufficient?	Yes	
2.9	Records of water used for construction and drinking purposes are maintained.	Yes	
3.0	***Storm Water Management***		
3.1	Run-off from the project site to be channelized to the storm water drain during construction and operation phase.	Yes	
3.2	Provision of rainwater harvesting measures as per the design is implemented or not	Yes	
3.4	Is sedimentation and erosion control plan with detail mitigation measures adopted? (such as silt fencing, sedimentation basin, pitching etc.)	Yes	
4.0	***Hygiene & Sanitation***		
4.1	Is open defecation by labors strictly prohibited?	Yes	
4.2	Is Bathing / Washing Facility provided at site?	Yes	
4.3	Is toilet/ Mobile toilet facility provided at site?	No	Sufficient numbers of

Sr. No.	***EHS Issue***	***Yes/No***	***Remarks***
			toilet are available at project camp
4.4	Are drinking water facilities situated with minimum 6 m away from toilets/ bathing facilities?	Yes	
4.5	Are all the drains covered & cleaned regularly?	Yes	
4.6	Are measures taken to control the mosquito's generation?	Yes	
6.0	***House keeping***		
6.1	Are the passages clear? (free from obstacles/water/slippery)	Yes	
6.2	Are the materials stacked/ stored in proper manner?	Yes	
6.3	Are Materials & Machineries are free from dust, oil & grease?	Yes	
6.4	Are dustbins provided at all required places?	Yes	
6.5	Are dustbins being emptied timely?	Yes	
7.0	***Top soil Conservation***		
7.1	Is Location earmarked on site for top soil stockpiles?	Yes	
7.2	Is top soil stockpiled properly?	Yes	
7.3	Is Quantity of stored top soil documented?	Yes	
7.4	Is top soil being reused in horticulture / landscape development within the project site?	Yes	
8.0	***Muck Disposal***		
8.1	Is Log book for muck/earthwork generated and reused for filling and disposed of maintained?	Yes	
8.2	Is Muck disposed of at the approved sites with the approval of competent authority?	Yes	
8.3	Is there any adverse effect on neighboring communities by disposal of muck?	No	
9.0	***DG Sets***		
9.1	DG sets nos. & their capacity installed at site.	Yes	
9.2	Is silent type DG set / with acoustic enclosures installed at project site|?	Yes	
9.3	Is low sulphur fuel being used (0.25 %) for DG sets?	Yes	
9.4	Are fuel / diesel stored on concrete platform with garland drains?	Yes	
9.5	Is Stack height of all DG sets used at site, as per CPCB norms?	Yes	
9.6	Is Stack monitoring and DG noise monitoring carried out by MoEF / SPCB accredited laboratory on six monthly basis?	No	
9.7	G.S.R certificate issued by manufacturer for DG	Yes	

Sr. No.	***EHS Issue***	***Yes/No***	***Remarks***
	set is available		
9.8	Is there any leakage of oil from DG sets?	No	
9.9	Are the door of the DG sets is properly closed while running?	Yes	
10.0	***Ambient Air and Noise***		
10.1	Is Water sprinkled to control dust?	Yes	
10.2	Is log maintained of water sprinkled to control dust?	Yes	
10.3	Are all vehicle hired for material transportation and construction activities have valid PUC certificate?	Yes	No hired vehicle uses for material transportation DBL has his own vehicles
10.4	Are all dust generating material (Cement, sand etc) stored under cover?	Yes	
10.5	Is noise level well below the standard as per BOCW rules (schedule 1)?	Yes	Proper maintenance of all noise generating machinery done in regular interval and also provided Silencers on DG set.
10.6	Is Ambient Air Quality monitored? If yes, then frequency	No	
10.7	Is Ambient Air quality well below CPCB revised standard limits?	Yes	All required measurements adopted at site to control air pollutions.
11.0	***Material Utilization***		
11.1	Is Ready Mixed Concrete being used at site? Is log maintained?	Yes	
11.2	Is fly ash being used in construction activities?	Yes	
11.3	Is Records of Quantity of fly ash used (% age of total) maintained?	Yes	
11.4	Is curing agent being used to reduce water demand?	Yes	
12.0	***Solid Waste Management***		
12.1	Solid Waste Management is done by agency or in house	Yes	Stored in segregated area at camp and after completion of project it will send to the authorized vendor
12.2	Are adequate numbers of collection bins provided?	Yes	
12.3	Is solid waste collected on daily basis?	Yes	Stored in separate area at camp
12.4	Is solid waste collected being send to authorized	Yes	Collected and send to

Sr. No.	***EHS Issue***	***Yes/No***	***Remarks***
	vendor?		the authorized vendor after completion of project.
12.5	Is a detail (with quantities) of construction waste generated and waste to be sent to landfills, maintained?	Yes	
13.0	***Hazardous Waste Management***		
13.1	Is Hazardous waste (spent oil, category 5.1) generated from the DG sets stored in HDPE drum with lock key arrangement?	Yes	
13.2	Is the spent oil to be sold only to the authorized vendor of HSPCB?	No	Oil spent in limited quantity; it will used for lubrication of machinery.
13.3	Is Log book for quantity of hazardous material generated and sold maintained?	Yes	
13.4	Is construction spoils, including bituminous material and other hazardous materials disposed as per HSPCB norms?	Yes	Scarified Bituminous used in diversion area after proper compaction to build motorable surface for road user.

Safety Department

ENVIROMENTAL ACTIVITIES – PLANTATION/ENVIRONMENT MONITORING / WASTE MANAGEMENT

S. no	Date	Topics Covered	External Agency/DBL EHS
1	10/01/2020	Base camp Bathrooms/ Water tanker Cleaning	CAMP Incharge / EHS DEPT
2	15/01/2020	Bleaching Powder Spreading	ESH DEPT/ CAMP SUPERVISOR
3	29/01/2020	Pest Control	ADMIN DEPT/ EHS DEPT