



Environmental Monitoring Report

Project Number: 42513-014
May 2020
Period: November 2018 – December 2019

IND: Karnataka State Highways Improvement III Project

Submitted by

Karnataka State Highways Improvement Project, PIU, Bangalore

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

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Asian Development Bank

Tele: 2212 6758/59/60/61

Fax: 22229666

e-mail: piukship@gmail.com

GOVERNMENT OF KARNATAKA
KARNATAKA STATE HIGHWAYS IMPROVEMENT PROJECT
(Public Works, Ports & Inland Water Transport Department)

No.PIU:KSHIP-III:ADB Annual Report:Env.2020-21/

O/o the Project Implementation Unit
Karnataka State Highways
Improvement Project
K R Circle,
Bangalore – 560 001

Date: **12 MAY 2020**

To,

Mr. Kenichi Yokoyama,
The Country Director,
Asian Development Bank,
South Asian Development,
Indian Resident Mission
San Martin Marg, Chanakyapuri,
New Delhi-10021 India

Recd. 12.05.20
SFG Log 4129

P. S. Swathi

Sir,

Sub: Submission of “**First Annual Environmental Monitoring Report**” of the **Karnataka State Highways Improvement Project-III** with Financial Assistance from the Asian Development Bank for the Period from November-2018 to December-2019 (updated till April 2020) - reg

Ref: Project No: 42513-014 Loan No: 3619 IND: Karnataka State Highway Improvement Project-III.

With reference to above, the “First Annual Environmental Monitoring Report” of the Karnataka State Highways Improvement Project-III for the Period from November-2018 to December-2019 (updated till April 2020) is herewith submitted in favor of further needful action.

Yours Faithfully,

P. S. Swathi
Project Director
PIU-KSHIP,
Bangalore.

Encl: As Above in CD



First Annual Environmental Monitoring Report December 2019

(Updated till April 2020)

IND: Karnataka State Highways Improvement Project III

Project Number: 42513-014

Loan Number: 3619

Prepared by Project Implementation Unit, KSHIP, Government of Karnataka for the Asian Development Bank.

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LIST OF ABBREVIATION

ADB	Asian Development Bank
ACF	Assistant Conservator of Forest
AE	Assistant Engineer
AEE	Assistant Environmental Engineer
AIDS	Acquired Immune Deficiency Syndrome
AP	Affected Person
AQ	Air Quality
ASI	Archaeological Survey of India
BOD	Biochemical Oxygen Demand
CFE	Consent for Establishment
CFO	Consent for Operation
CGWA	Central Ground Water Authority
CGWB	Central Ground Water Board
CO	Carbon Monoxide
COD	Chemical Oxygen Demand
CoI	Corridor of Impact
CPCB	Central Pollution Control Board
CPO	Chief Project Officer
dB	Decibel
DC	District Collector
DEIAA	District Environmental Impact Assessment Authority
DGRC	District Grievance Redress committee
DPR	Detailed Project Report
EHS	Environment Health and Safety
EIA	Environmental Impact Assessment
EMP	Environment Management plan
EMOP	Environment Monitoring plan
EO	Environmental Officer
EPA	Environment (Protection) Act
EPC	Engineering Procurement Construction
ES	Environmental Specialist
GoI	Government of India
GoK	Government of Karnataka
GRC	Grievance Redress Cell
GRM	Grievance Redress Mechanism
GW	Ground Water
Ha	Hectare
HDPE	High Density Polyethylene
HFL	High Flood Level
HIV	Human Immunodeficiency Virus

HMP	Hot Mix Plant
IE	Independent Engineer
IEC	Independent Engineering Consultants
IEE	Initial Environmental Examination
ISC	Implementation Support Consultants
IMD	India Meteorological Department
IRC	Indian Road Congress
IS	Indian Standards
KSHIP	Karnataka State Highways Improvement Project
KSPCB	Karnataka State Pollution Control Board
LA	Land Acquisition
LHS	Left hand Side
LPG	Liquid Petroleum Gas
MDR	Major District Road
MOEF&CC	Ministry of Environment, Forest and Climate Change
MoRTH	Ministry of Road Transport and highways
MSL	Mean Sea Level
NAAQS	National Ambient Air Quality Standards
NABL	National Accreditation Board for Testing and Calibration Laboratories
NBWL	National Board for Wildlife
NGO	Non-Government Organization
NOC	No Objection Certificate
NO _x	Nitrous oxide
NQ	Noise Quality
PCM	Public Consultation Meeting
PD	Project Director
PIU	Project Implementation Unit
PM	Particulate Matter
PP	Project Proponent
PPE	Personal Protective Equipment
PPM	Parts Per Million
PPP	Public Private Partnership
PRC	Public Response Centre
RAP	Reclaimed Asphalt Pavement
RHS	Right Hand Side
ROB	Road Over Bridge
RoW	Right of Way
RTC	Rights, Tenancy & Crops
SE	Superintending Engineer
SEIAA	State Environmental Impact Assessment Authority
SH	State Highway
SIA	Social Impact Assessment

SO ₂	Sulphur Dioxide
SPCB	State Pollution Control Board
TDS	Total Dissolved Solids
TSS	Total Suspended Solids
USEPA	United States Environmental Protection Agency
VP	Village Panchayat
WLPA	Wildlife Protection Act
WMM	Wet Mix Macadam

1.0 Introduction

This document is First Annual Environmental Monitoring Report for the period of 14.11.2018 to 31.12.2019 of Karnataka State Highways Improvement Project - III road construction.

The Government of Karnataka through the Government of India has received loan from the Asian Development Bank (ADB) towards Karnataka State Highways Improvement Project –III (KSHIP-III) for developing State Road network adopting innovative financial models under Public Private Partnership (PPP). A pre financial feasibility was conducted by PIU KSHIP on a Core Road Network of 4,403 km out of which 1,350 km were selected for Detailed Project Preparation and Implementation under KSHIP-III.

Under KSHIP-III, a total 418.50 km road stretch has been selected in 3 different packages.

The construction works are taken up under the Hybrid Annuity contract and awarded to three concessionaires in Jan/Feb. 2019.

Package	Description	Name of Concessionaire
Package 1A	Two Laning with Paved Shoulder of Kollegal to Hannur (km 0.000 to km 4.900 along Kollegal and Madhuvanahalli Bypass and from km 66.888 to km 85.770 of SH-79. Total length - 23.8 km.	M/s K. N. Highways Development Limited
Package 1B	Two Laning with Paved Shoulder of Chintamani to AP Border (km 47.203 to km 86.977of SH-82. Total length 39.8 km	
Package 1C	Four Laning of Bengaluru (NICE Road) to Magadi (km 15.325 to km 50.850 of SH-85) and Two Laning with Paved Shoulder of connector from Magadi to NH 75 via Chikkamudigere and Iyandahalli (km 50.850 to km 66.150 of MDR). Total length - 50.8 km.	
Package 2	“Two Laning with Paved Shoulders of Magadi to near Somwarpet (Km 51.000 to Km 221.833 of SH 85, excluding the following common sections with Huliudurga bypass km 76.520 to 78.410, common portion with SH 84 between km 88.700 to km 90.380 and common portion with NH 150 A in Nagmangala km 111.960 to km 113.260). Total -166 km.	M/s. KNR Somwarpet Infraproject Private Limited
Package 3	Two Laning with Paved Shoulder of Gadag to Honnali (Km 105.500 to Km 205.290 of SH 57 and Km 215.335 to Km 253.713 of SH 26). Total Length - 138.2 km.	M/s Sadbhav Gadag Highway Private Limited

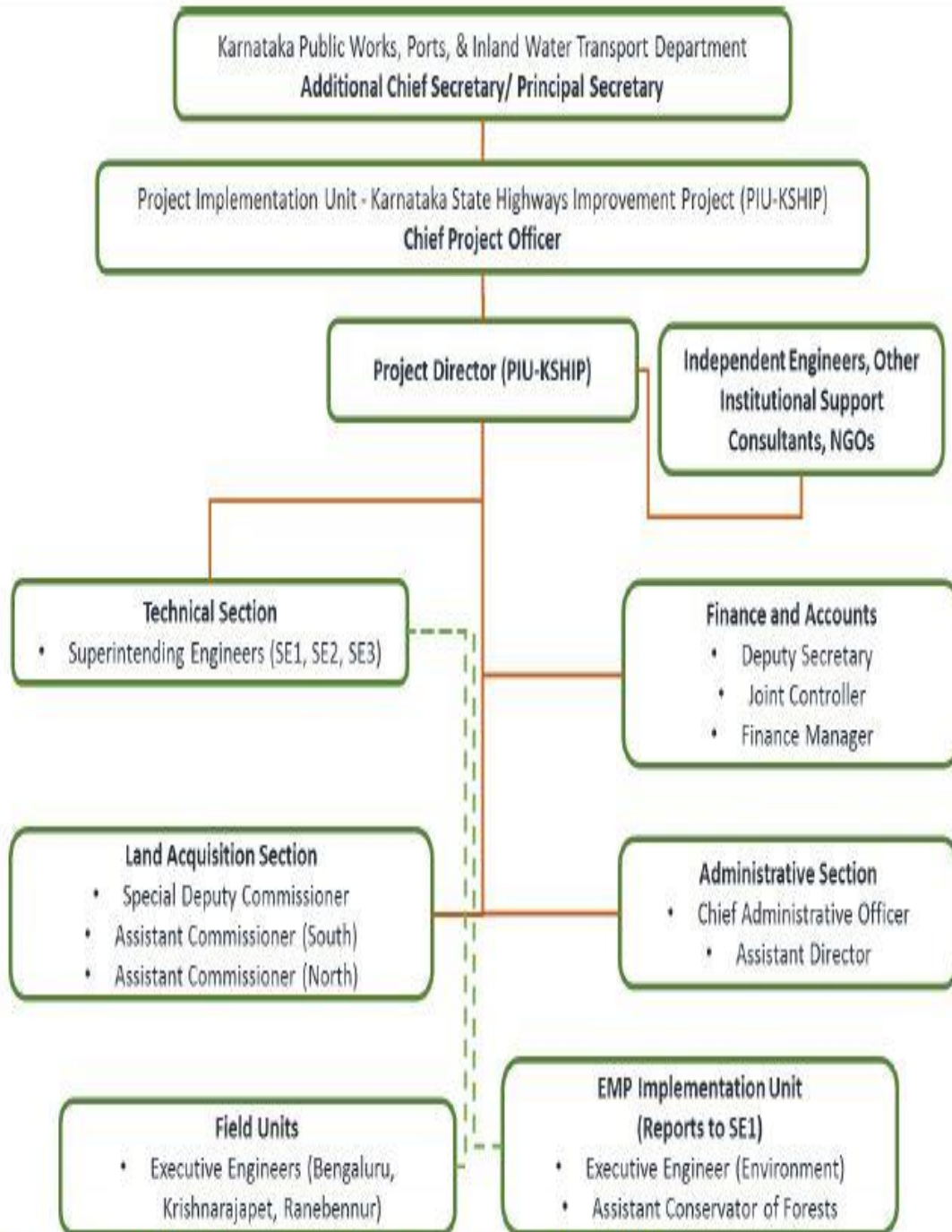
As per ADB's Safeguard Policy Statement (2009), proposed project roads are categorized as "Category B". Road specific Initial Environmental Examination (IEE) report has been prepared to identify significant potential environmental impacts associated with the construction and operational phases of the proposed development. Environmental friendly construction methodology has been incorporated into the project design and Environmental Management Plan has been prepared incorporating various modern technologies and guidelines to reduce the environmental impacts of highway construction to make it a green highway.

Preparation of Environmental Monitoring reports is part of supervision duties as stipulated in the Initial Environmental Examination (IEE) and Contract documents, as a part of the contract between the Karnataka State Highway Improvement Project (KSHIP) under Public Works Department (PWD) and Independent Engineer on the above-mentioned projects. This Annual Environmental Monitoring Report incorporate environmental monitoring activities undertaken, details of monitoring data collected, analysis of monitoring results, compliance and non-compliance of EMP, recommended mitigation measures, environmental trainings conducted and environmental regularity violations (if any). Since the project is still in Development Stage, this report covers the environmental monitoring activities from signing of Concession Agreement, fulfillment of Condition precedent, initial mobilization and development of Construction Yard cum Worker Camp, Quarry establishment and related activities. The findings and recommendations of this report are based on the review of available contract information, monthly progress reports prepared by the Concessionaire/Contractor, periodic environmental reports prepared by the IE, field visits and observations from environmental inspections of the construction site undertaken between 14/11/2018 to 31/12/2019.

Fig 1: KSHIP-3 Road Project (All Three Packages)



2.0 Project Organization Structure



EMP = environmental management plan, NGO = nongovernment organization, SE = superintending engineer.
Source: Government of Karnataka.

3.0 Package wise Project Description

3.1 Package 1:

This package involves widening and reconstruction of about 114.4 kilometres of selected district roads in Karnataka titled as Karnataka State Highway Improvement Project (KSHIP-III). It has been further sub-divided into 3 consulting and quality control service packages i.e. Package-1(A) Kollegal to Hannur (SH-79), Package-1(B) Chintamani to AP Border (SH-82) and Package-1(C) Bengaluru (NICE Road) to Magadi (SH-85) to NH-75 via Chikkamudigere and Iyandahalli (MDR) on Hybrid Annuity basis.

Package-1A: Two laning with paved shoulder of Kollegal to Hannur (Km 0.000 to Km 4.900 along Kollegal & Madhuvanahali Bypass, from Km 66.888 to Km 85.770 of SH-79) - **length 23.8 Km**

Package-1B: Two laning with paved shoulder of Chintamani to AP Border (Km 47.203 to Km 86.977 of SH-82)-**length 39.8 Km**

Package-1C: Four laning of Bengaluru (NICE Road) to Magadi (Km 15.850 to Km 50.850 of SH-85) and two laning with paved shoulder of connector from Magadi to NH-75 via Chikkamudigere and Iyandahalli (Km 50.850 to Km 66.150 of MDR)-**length 50.7Km.**

During the reporting period the project is under development phase and construction work is still awaited at Package 1A, B & C under KSHIP-III.

Table-1: Details of Civil Work under package 1

Synopsis Package V/S Chainage Packages	SH/NH	From	To	Existing Road Length (km)	Remarks
1A	SH-79	0+000	4+900	4.9	2-lanning
		66+888	85+777	18.9	2-Lanning
1B	SH-82	47+203	86+977	39.8	2 Lanning
1C	SH-85	15+325	50+850	35.5	4-Lanning
	NH-75	50+850	66+150	15.3	2- Lanning
Total				114.3	

FIG 2: MAP SHOWING PACKAGE – 1A, 1B & 1C IN THE STATE OF KARNATAKA



Fig 3: Package 1A-Kollegal to Hannur (23.8 km)

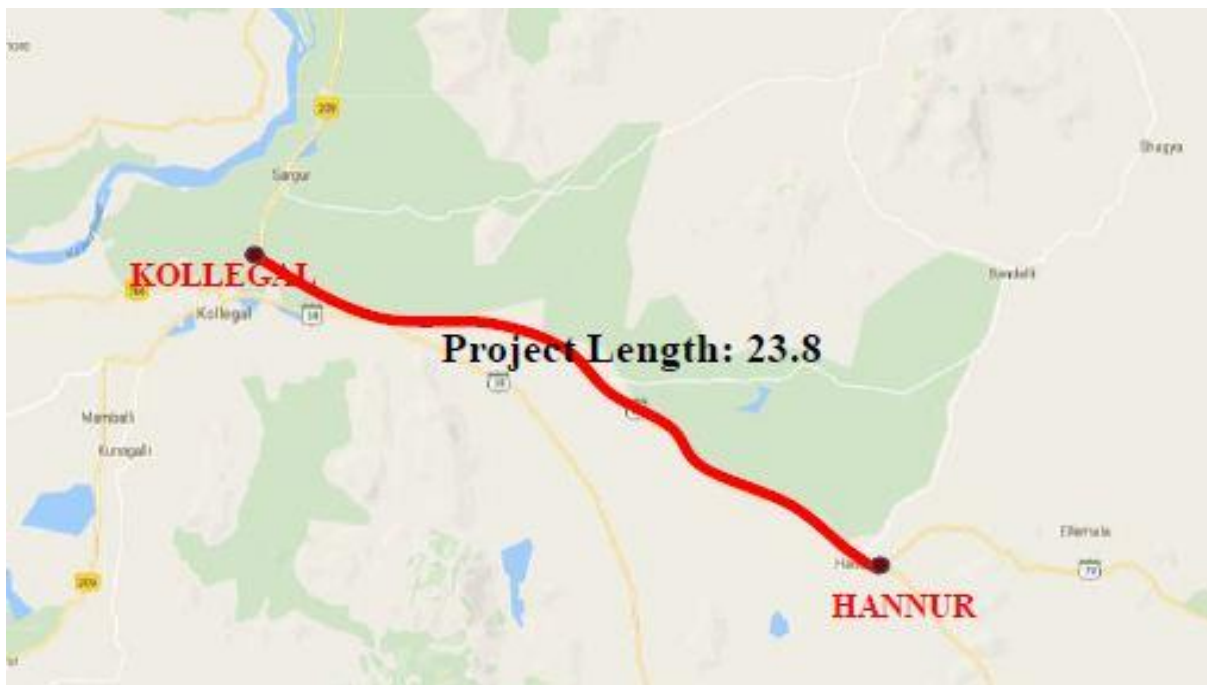


Fig 4: Package 1B-Chintamani to AP Border (39.8km)



Fig 5: Package 1C-Bangalore to Magadi (50.7 km)



Table 2: Salient Features of Project road – Package 1

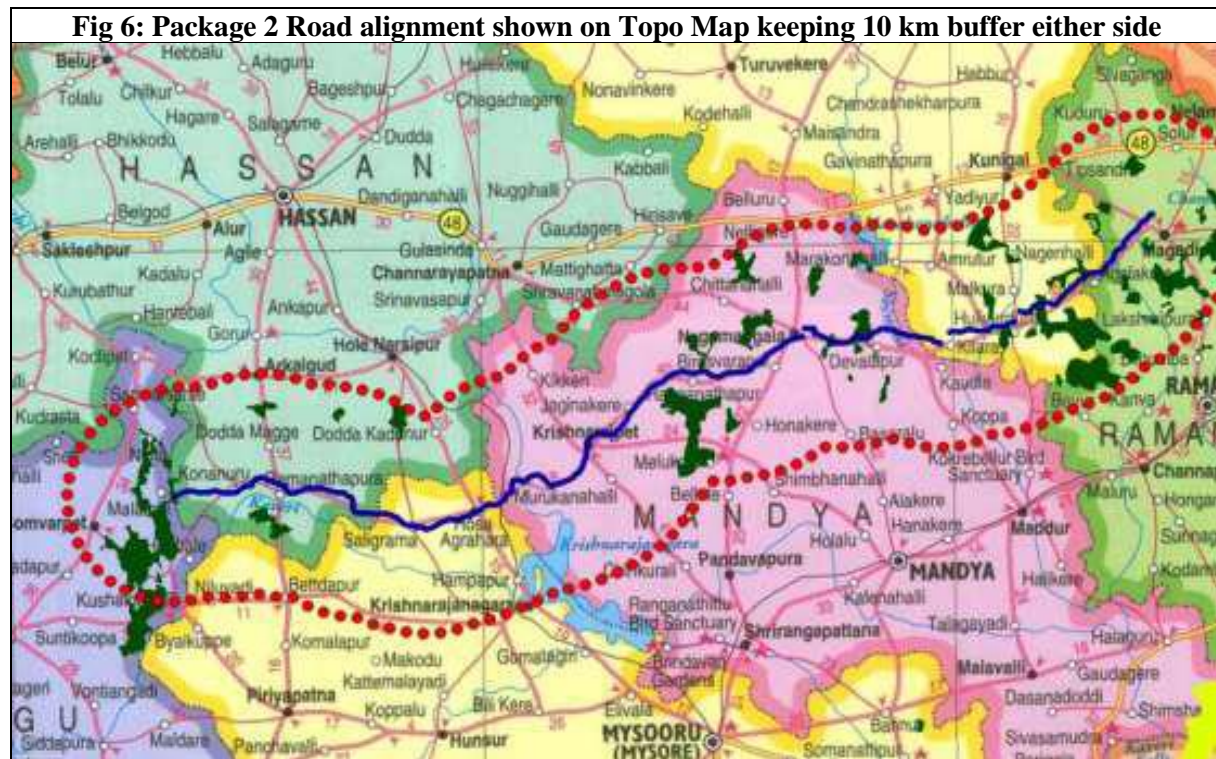
1	Client/Authority	The Chief Project Officer, Project Implementation Unit, Karnataka State Highway Improvement Project
2	Project Name	(a)Two Lanning with Paved Shoulder of Kollegal to Hannur (km.0.000 to Km 4.900 along Kollegal and Madhuvanahalli Bypass, from Km. 66.888 to Km. 85.770 of SH-79, length 23.8 Km), (b) Two Lanning with Paved Shoulder of Chintamani to AP Border (Km. 47.203 to Km. 86.977 of SH-82, length 39.8 Km), and (c) Four laning of Bengaluru (NICE Road) to Magadi (km 15.325 to km 50.850 of SH-85) and Two Lanning with Paved Shoulder of connector from Magadi to NH 75 via Chikkamudigere and Iyandahalli (km 50.850 to km 66.150 of MDR) (length 50.7 km), in the State of Karnataka, India on Hybrid Annuity Basis ”under KSHIP-III ADB 2nd Loan.
3	Length of Project	114.3 Km.
4	Contract / Phase/ Package	ADB/ KSHIP-III/ Package-1
5	Project Bid Cost	INR 1062 Crores
6	Independent Engineer	L.N. Malviya Infra Projects Pvt. Ltd.
7	Authorized Representative of IE	Mr. A.D. Kulkarni, Director(Projects)
8	Date of Signing of IE agreement	26 April 2019
9	Concessionaire	M/s K. N. Highways Development Limited
10	Authorized Representative of SPV	Mr. Basavaraju K. V
11	Date of Signing of CA	20 February 2019
12	EPC Contractor	M/s. DNR Infrastructure Limited.
13	Appointed Date	DD/MM/YYYY (To be determined)
14	Concession Period	9 Years (including Construction Period)
15	Construction Period	730 Days
16	Schedule Date of Completion	DD/MM/YYYY (To be determined)
17	Performance Security (Concessionaire)	INR 53.10 Crore

3.2 Package 2:

The Project road is a part of SH 85 (Bangalore to Jalsoor). The proposed improvement starts in Ramanagara district from the junction of Magadi-Kunigal Road near Magadi (existing Ch. Km 51+815) traverses through Ramanagar, Tumkur, Mandya, Mysore, and ends in Hassan district near Somwarpet (existing Ch. Km 226+115). The latitude & longitude of start and end points are 120 57' 51.98" N & 770 12' 26.26" E and 120 36' 13.636" N & 750 56' 33.044" E respectively. Project road predominately traverse through plain and rolling terrain. The existing length of the project road is about 169.495 Km, excluding the common section with State & National Highways. Some of the common sections with SH-33 (2.05 km), SH-84 (2.4 km) have already been implemented for improvement under separate packages and NH-150A (1.3 km) in Nagamangala is taken up by NHAI for improvement and DPR is under preparation by an appointed consultant. Length of the existing road is 169.495 km. After the proposed improvement (realignment, curve improvement), length of the project road will be 165.47 km.

Table-3 Salient Features of the Project Road – Package 2

Sl No	Particulars	Description
1	Project Name	Two-Laning with Paved Shoulders of Magadi to near Somwarpeth (km 51.000 to km 221.833 of SH 85, excluding the following common sections with Huliudurga by pass km 76.520 to 78.410, common portion with SH 84 between km 88.700 to km 90.380 and common portion with NH 150 A in Nagmangala km 111.960 to km 113.260), 166 km in the State of Karnataka under KSHIP ADB 2ndLoan (Time Based)
2	Length of the Project	165.963 Kms
3	Contract / Phase	ADB/KSHIP-III
4	Bid Project Cost	INR 1,144.5 Crores
5	Client	Karnataka State Highways Improvement Project
6	Independent Engineer (IE)	Aarvee Associates Architects Engineers and Consultants Pvt. Ltd., Hyderabad
7	I.E. Agreement Date	25thJune 2018
8	Concessionaire	M/s. KNR Somwarpet Infraproject Private Limited
9	Contractor	M/s KNR Constructions Limited.
10	Date of Concession Agreement	18thJanuary 2019
11	Appointed Date	12/02/2020
12	Concession Period	9 Years(including Construction Period)
13	Construction Period	730Days
14	Schedule Date of Completion	11/02/2022



3.3 Package 3:

The project road proposed for improvement under KSHIP III, Annuity ADB-II is spread across the districts of Gadag and Honnali in the Karnataka State. The Project road starts after Gadag town, from the junction of SH-57 with newly constructed SH-45 bypass and ends in Honnali settlement at a T Junction where project road SH-26 meets a city road.

Approx. 4.275 km (Ch. Km 205+290 to 209+565) in Ranebennur town is excluded in the improvement proposal. Approx. 5.77 km (Ch. Km 209+565 to 215+335) is also excluded from the package as the stretch is being developed by KSHIP. Therefore, total length of the project road considered in improvement Proposal is 138.168 km.

The project corridors divided into 2 links as given below.

Table-4: Details of Civil Work under package 3

Project roads under ADB-II, KSHIP-III Description	Project Road	Chainage		Total Length of Project Road (km)
		From	To	
Gadag to Ranebennur	SH-57	105+075	205+290	99.790
Ranebennur to Honnali	SH-26	215+335	253+713	38.378
Total				138.168

Fig 7: Location map of Project Road – Package 3

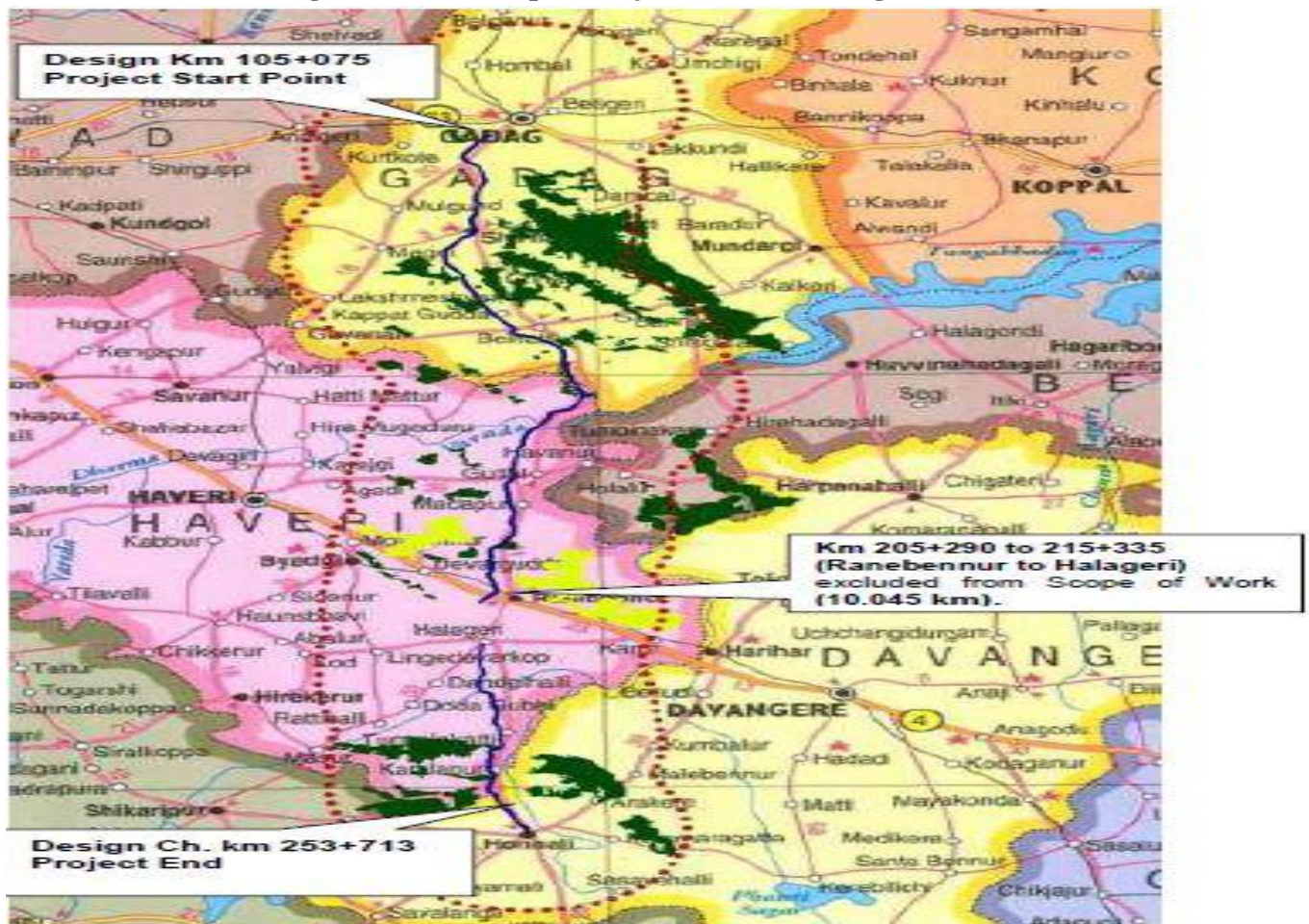


Table-5 Salient Features of the Project Road – Package 3

1	Contract Title	Two Lanning with paved Shoulder of Gadag to Honnali (Km 105.500 to Km 205.290 of SH 57 and Km 215.335 to Km 253.713 of SH 26), 138.2 Km in the State of Karnataka, India on Hybrid Annuity Basis
2	Client/Authority	The Chief Project Officer, Project Implementation Unit, Karnataka State Highway Improvement Project
3	Consultancy	Lea Associates South Asia Private Limited
4	Date of Commencement of Consultancy Service	02.02.2019
5	Contract / Phase	KSHIP-III, Package-3
6	Funding Agency	ADB
7	Concessionaire	M/s Sadbhav Gadag Highway Private Limited
8	Date of Signing of Concession Agreement	18th January 2019
9	Concession Period	9 years commencing from Appointed Date (including construction period of 730 days).
10	Scheduled Completion Date	730 day from Appointed Date
11	Date of Financial Closure	Yet to happen
12	Appointed Date	12/03/2020
13	Project Length	138.20ms
14	Annuity Payment	14 Annuity Payments.
15	Construction Period	24 months
16	Schedule Date of Completion	11/03/2022

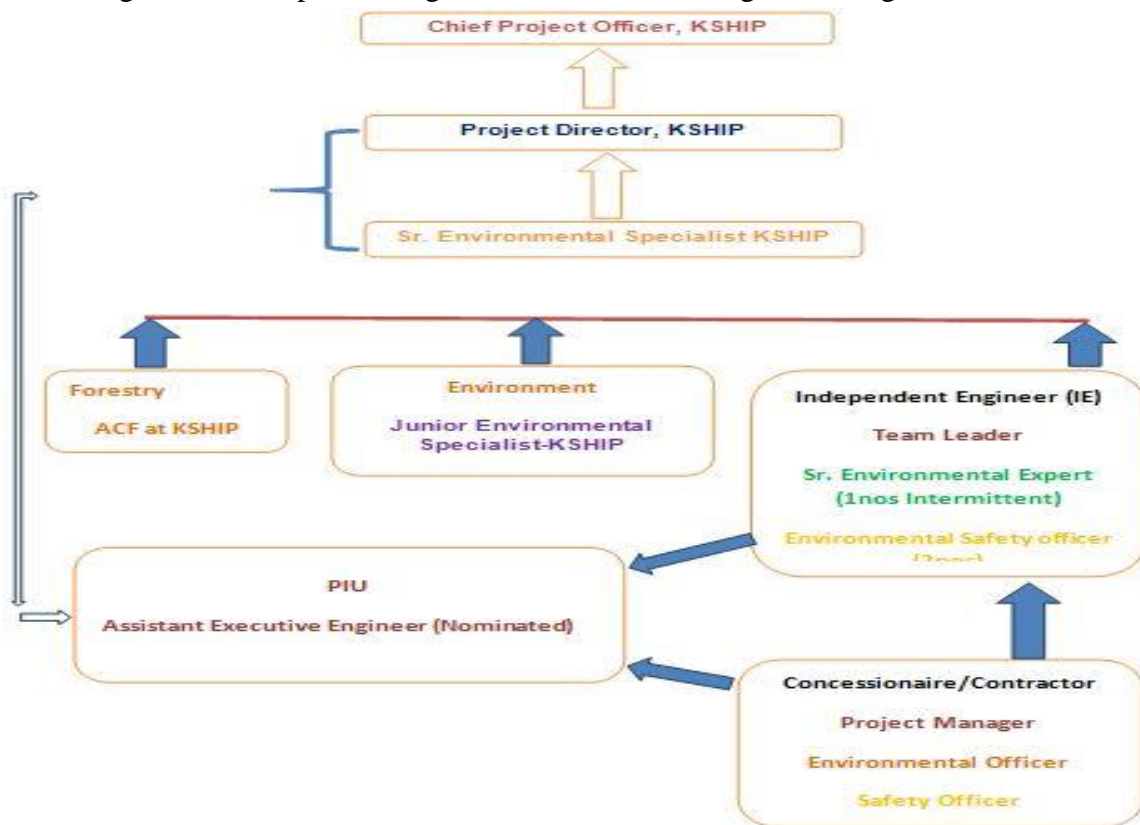
4.0 Environmental Safeguards

The project is categorized as ‘B’ based on ADB’s Safeguard Policy Statement as the project scope involves the improvement of existing State Highways (SH) to standard two lanes SH. The project roads do not pass through any environmentally sensitive areas, and no significant and irreversible environmental impacts are expected. Initial Environmental Examination (IEE) reports, including an Environmental Management Plan (EMP) and Environmental Monitoring Plan (EMOP) have been prepared for the five project roads.

The EMP is a plan for mitigating all anticipated environment impacts during project construction and operation. Specific mitigation measures with details on location, time, and the responsible agency for implementation are given in the EMP. The EMOP is a plan for monitoring the quality of air, water, noise and soil. The contractor has outsourced these monitoring activities to laboratories that are approved by the National Accreditation Board of Laboratories (NABL). The PIU is carrying out the compensatory afforestation activities and maintenance or through specialized agencies that can carry out tree plantation, maintenance, monitoring, and reporting.

4.1 Environmental Management Plan (EMP)

EMP under the PIU is established since 1999 and is followed till date. The EMP for all project roads is attached to the respective contract documents. The responsibilities of the respective parties and agencies on implementing the environmental safeguards are given below:



4.1.1 Project Implementation Unit

The Environmental Management Plan Implementation Unit (EMPIU) under the PIU has an Environmental Specialist for environment and an Assistant Conservator of Forests. A Task Manager is recruited to assist the Environmental Specialist. The EMPIU ensures compliance with all environmental safeguard requirements as stated in the IEE, EMP, EMOP, and loan covenants for the project.

Specifically, the EMPIU

- (i) Conducts periodic site inspections.
- (ii) Review and approve quarterly environmental monitoring reports submitted by the independent engineering consultants (IEC).
- (iii) Review and approve annual environmental monitoring reports submitted by the IEC team and submit these to ADB for disclosure on the ADB website.
- (iv) Process the forestry and ASI clearance and the tree cutting permit as stated above.
- (v) Implement the compensatory afforestation program in partnership as provided in the IEE.

Table 6: Details of Technical Personnel in PIU - Environment

Sl. No	Name	Designation	Qualification	Status
01	Mr. M.D. Nadaf	Environmental Specialist	B.E – Civil Engineering M.Tech – Environmental Engineering	Was available for the reporting period. Left the project on 18 th Jan. 2020
02	Mr. Mohan. S	Environmental Specialist	B.E – Civil Engineering M.Tech – Environmental Engineering	Available
03	Ms. Pooja. R.V	Task Manager - Environment	B.E – Environmental Engineering M.Tech – Environmental Engineering	Available

4.1.2 Implementation support consultant (ISC)

The ISC will have an Environmental Specialist to assist the EMPIU in overseeing the implementation of environmental safeguards. Support will be provided as necessary to the EMPIU in delivering their responsibilities as stated above. Procurement for ISC services has been initiated.

4.1.3 Independent engineering consultant (IEC)

The IEs for all three packages have been procured. The IEC team includes a senior environmental specialist and junior environmental specialist for supervising environmental safeguard activities. They are responsible for;

- (i) Regular site level monitoring.
- (ii) Providing technical advice and on-the-job training to the contractor to enable smooth implementation of the EMP.
- (iii) Updating the EMP as necessary.
- (iv) Preparing quarterly monitoring reports and annual environmental monitoring reports for submission to the PIU and for further submission to ADB for disclosure on the ADB website.
- (v) Providing necessary technical support to the EMPIU.

4.1.4 Concessionaire

The concessionaire has to appoint an environmental officer along with an environmental health and safety team to ensure proper implementation of the EMP in accordance with the contract agreement. They are responsible for obtaining permits, no-objection certificates, consent to establish and operate, etc. for crushing plants, hot mix plants and other machinery in a timely manner, and for preparing monthly reports on EMP implementation for submission to the IEC. The Concessionaires are in the process of appointing environmental officers. Meanwhile the concessionaire team has obtained the required permits and NOCs. Details are furnished in Annexure-3.

4.2 Status of Mobilization

4.2.1 Mobilization of Independent Engineer

Package 1: The Agreement for the Independent Engineer Services was signed between **KSHIP** and the Independent Engineer **L. N. Malviya Infra Projects Pvt. Ltd** on 26.04.2019. IE commenced their Services with effect from 3 May 2019. In compliance to the provisions of the Agreement, the Independent Engineer has established office in Bangalore city: 1st Floor, F- 183, East-West College Road, Bharat Nagar, Anjana Nagar, Bangalore-560091, where one Team Leader, three Deputy Team Leader and other staff approved for development period is deployed & working.

Package 2: The Agreement for the Independent Engineer Services was signed between **KSHIP** and the Independent Engineer **M/s Aarvee Associates Architects Engineers & Consultants Pvt. Ltd** on 25.06.2018. IE commenced their Services with effect from 19 Feb 2019. A Senior Environmental Expert along with two Environmental Safety Officers is appointed to look over the environmental aspects.

Package 3: The Agreement for the Independent Engineer Services was signed between **KSHIP** and the Independent Engineer **M/s LEA Associates South Asia Pvt. Ltd., New Delhi** on 04.06.2018. IE commenced their Services with effect from 02.02.2019.

Table 7: Details of Independent Engineer assigned for above packages

Sl. No	Package	Name of Consulting Firm	Date of Appointment	Name of Env Expert & Qualification	Status
01	Independent Engineer for package-1 (A,B, C)	M/s L. N. Malviya Infra Projects Ltd. Bhopal	26.04.2019	Dr. Megha Joshi Mrs. Madhvi Rai	Available
02	Independent Engineer for package-2	M/s Aarvee Associates Architects Engineers & Consultants Pvt. Ltd.	25.06.2018	Mr. Manoj kumar	Available
03	Independent Engineer for package-3	M/s Lea Associates South Asia Pvt. Ltd. (LASA)	04.06.2018	Mr. Nagendra Kumar	Available

4.2.2 Mobilization of Concessionaire

Package 1: The Agreement for the Concessionaire Services was signed between **KSHIP** and the Concessionaire **M/s K. N. Highways Development Limited** on 20.02.2019. The Concessionaire has mobilized and has established an office in Bengaluru with the office address: No. 36, Munirathnam Orchids, 2nd Floor, Railway Parallel Road, Nehru Nagar, Bangalore -560020. Technical Personnel have been mobilized to ensure that the progress of work is achieved in a smooth manner.

Package 2: The Agreement for the Concessionaire Services was signed between **KSHIP** and the Concessionaire **M/s KNR Somwarpet Infracorp Pvt. Ltd** on 18.01.2019.

Package 3: The Agreement for the Concessionaire Services was signed between **KSHIP** and the Concessionaire **M/s Sadbhav Gadag Highway Private Limited** on 18.01.2019. The site office of the Concessionaire is located as follows: Sadbhav Engineering Limited, “Sadbhav House”, opposite to Law garden Police Chowki, Ellis Bridge, Ahmedabad-380006

Table 8: Details of Concessionaire assigned for above packages

Sl. No	Package	Name of Consulting Firm	Date of Appointment	Name of Env Expert & Qualification
01	Concessionaire for package-1 (A,B, C)	M/s K. N.Highways Development Ltd	20.02.2019	To be appointed
02	Concessionaire for package-2	M/s KNR Somwarpet Infracorp Pvt. Ltd	18.01.2019	To be appointed
03	Concessionaire for package-3	M/s Sadbhav Gadag Highway Private Limited	18.01.2019	To be appointed

4.2.3 Mobilization of EPC Contractor

Package 1: DRN Infrastructure Pvt. Ltd. has been chosen as EPC contractor for the project. EPC contract is submitted to KSHIP which is approved.

Package 2: KNR Somwarpet Infracorp Pvt. Ltd has been chosen as EPC contractor for the project. EPC contract is submitted to KSHIP which is approved.

Package 3: Sadbhav Engineering Limited has been chosen as EPC contractor for the project. EPC contract is submitted to KSHIP which is approved

4.2.4 Camp Site Construction

Package 1: DRN Infrastructure Pvt. Ltd, (EPC Contractor) has taken up construction of camp at three locations each one on 1A, 1B and 1C. Pictorial representation of the camp sites are furnished in the appendix. The Progress of work on Camp Construction during the month is around 60%.

Package 2: Concessionaire had proposed 2 construction camps. Out of two proposed construction camp cum worker camp one is fully established at km 94+000 (Both Side) and another construction camp is in construction stage at km 174+065 (RHS).

Package 3: The Concessionaire has planned to establish the construction camp at two different locations along the project road. The lay-out plan of the camp sites are approved by the IEs keeping in view away from the habitat area and minimum pollution to environment.

The first one is Chabbi camp of which the location is finalized at km 135+450 and another is Itagi Camp located at 161+700 along the project road. The plant facilities for the construction works are established at the construction camps accommodating the site of machineries maintenance yards, steel yards, materials storage yards, cement storage, staff quarters with drainage, septic tanks and adequate access & approach.

4.3 Compliance on Environment Safeguards Requirements

As per ADB Safeguard Policy Statement 2009 and Environment Assessment and Review Framework (EARF) documents prepared, compliance of environment safeguard status is given as under:

KSHIP is in the stage of obtaining permissions required for working in the forest area wherever applicable. KSHIP has instructed the contractors not to commence construction work in the forest stretch of the road for which permission from the forest department is yet to be received. Permission for cutting trees is yet to be obtained where tree cutting is unavoidable.

KSHIP has instructed the Civil Work Contractor to obtain all the permission required under the existing statutory environmental regulations and submit the complete details regarding the status of clearances/approvals/ consents applied for/obtained. Independent Engineer is also periodically writing to contractors to obtain Environmental clearances for Quarry sites and Borrow areas from DEIAA/SEIAA/MoEF&CC (as applicable). Contractor is also regularly being reminded for obtaining pending permissions/consents (if any) such as consent to establishment and operation for crusher, batching plant, DG sets, Quarry sites and Borrow areas etc. at their respective sites from State Pollution Control board. However some of the permissions have been obtained and some are yet to be. Details of which are given under in Table 9.

Table 9: Details of Permissions/NOC obtained for above packages

Permission description	Package-1	Package-2	Package3	Fulfilment of Condition Precedent.
Permission for new quarries.	<p>1. Pkg 1A: Lease agreement signed with Mr. Nanja Shetty of Y.K. Mole village, Yellandur taluk for operating Stone Quarry.</p> <p>2. Pkg. 1B: Quarry lease permission from Mines & Geology is in process.</p> <p>3. Pkg 1C: Lease agreement signed with M/s Vinyaka Stone crusher. Licensed Quarry owner from Dept of Mines & Geology.</p>	<p>1. DC Mandya vide letter dtd 12.03.2019 has allotted govt quarry. Final approval from the Director, Mines & Geology Department is awaited.</p> <p>2. Lease agreement signed with M/s. Krishna licensed Stone Crushers for operating stone crusher.</p>	<p>Lease agreement with Mr. Sanjay S Maharajpet in the name of M/s Maharaj Traders having Quarry License at Chikkasavanur Village, Shirahatti Taluk</p>	<p>Pkg 1:Partially fulfilled (Pkg 1B not complied)</p> <p>Pkg 2: Fulfilled</p> <p>Pkg 3: Fulfilled</p>

Permission for installation of crushers.	Pkg 1A: CFE from KSPCB is obtained. However, Concessionaire has to obtain CFO from KSPCB to Operate the crusher. Pkg 1C: Mobile Crusher Mobilised.	1. KSPCB CFO for Jelly Crusher and M. Sand valid up to 20.5.2019	CFO of M/s Maharaj Traders is under renewal and the same will be made available on or before 14.03.2020	Pkg 1: Partially fulfilled (Pkg 1B not complied) Pkg 2: Fulfilled Pkg 3: Not Fulfilled
License for use of explosive.	Concessionaire has not produced document.	Agreement signed with Explosive agency M/s. Balaji Enterprises, Kunigal. However, Concessionaire to obtain NOC from DC Mandya for Quarrying with Control Blasting.	Agreement with Mr. Ram lal Jat in the name of M/s Super Traders having Blasting License. However, Concessionaire has to obtain NOC for control blasting from DC.	Pkg 1: Not Fulfilled Pkg 2: Partially fulfilled Pkg 3: Partially fulfilled
Permission for drawing water from bore well/pond/river.	1.Pkg 1A: NOC from Village Panchayat to use bore-well obtained. 2.Pkg 1B: Rental agreement for purchase of water from bore-well from Mr. Devraj and Mr.Timmayya. 3.Pkg 1C: Permission letter from village panchayat for usage of bore-well water is available. However, Permission is required From State Ground Water board	Land purchased for establishment of camp site has an existing bore well. However, the Concessionaire has to submit the permission letter obtained for drilling of the existing bore well by the seller.	Reported as under progress	Pkg 1: Fulfilled subject to NOC from state groundwater board Pkg 2: Fulfilled subject to NOC from State ground water board Pkg 3: Not Fulfilled
License for setting up Batching Plant.	Concessionaire has not submitted any document.	Concessionaire has reported that skilled labors employed for batching plant are less than 10 and hence license from Inspectorate of Factories is not required. IE to verify.	The Plant is Concrete Batching Plant.	Pkg 1: Not Fulfilled Pkg 2: Fulfilled subject to verification by IE Pkg 3: Not Applicable
CFE and CFO of Asphalt Plant, WMM Plant and Concrete Batching Plant.	1.Pkg 1A: CFE from KSPCB issued. 2.Pkg 1B: CFE from KSPCB to establish - HMP, WMM obtained. 3.Pkg 1C: CFE from KSPCB issued. However, Concessionaire has to	CFE and CFO for establishment and Operation of Asphalt plant, WMM plant, from KSPCB is obtained.	Reported as under progress	Pkg 1: Fulfilled Pkg 2: Fulfilled Pkg 3: Not Fulfilled

	obtain CFO for all three packages from KSPCB for operating the above plants.			
Borrow Earth	<ol style="list-style-type: none"> 1. Pkg 1A: Borrow Earth agreement signed with K.M.Venkat Goud, Muthamma and Krishna Goud Bin Venkatagoud. 2. Pkg 1B: NOC from Village Panchayat for extracting borrow earth from near by lakes/ponds for road construction. 3. Pkg 1C: NOC from VP Bangalore North taluk to borrow earth from village. 	Concessionaire has submitted letters from Minor Irrigation Dept. Tumkur dtd 01.6.2019 granting permission to remove borrow earth from three MI tanks along the project road.	Reported as under progress	<p>Pkg 1: Fulfilled</p> <p>Pkg 2: Fulfilled</p> <p>Pkg 3: Not Fulfilled</p>

4.3.1 Environmental Clearance:

The proposed Project roads are passing through plain and rolling terrain (below 1000m MSL) and are not passing through any ecologically sensitive areas. Therefore, Environmental Clearance is not required from MOEF&CC, for any of the five project roads.

4.3.2 Forest Clearance:

Forestry clearance for diversion of forest land is required for three roads:

- (i) Chintamani to Andhra Pradesh border.
- (ii) Magadi to Somwarpet.
- (iii) Gadag to Honnali.

There are two temples of state archaeological importance located within 300 m from project road Ramanathpura. Clearance from the Archaeological Survey of India (ASI) is required for the Magadi to Somwarpet road because of the presence of these two ancient temples. Permission is obtained from ASI which is valid till 07.01.2022. Details of ASI clearance obtained are given in **Annexure-1**.

Cutting of trees is required for all five roads. The clearances and tree cutting permits are being processed by the PIU before the start of construction works in the respective road sections which are coming under corridor of impact (COI). Efforts and due diligence have been taken up to save the trees to the possible extent. Details of tree cutting are given in **Annexure-2**.

Permits, certificates, no-objection letters, etc., for activities such as operation of hot mix plants, operation of equipment and machinery, sourcing of ground water, etc., are being obtained by the contractor before the implementation of the respective construction activity. Statutory permits required and obtained are produced in **Annexure-3**.

4.4 Implementation of Environmental Management Plan

The Environmental impact would mostly occur during construction phase due to clearing for widening the carriageway, construction work related to compaction of the embankment and cut and fill, as well as the quarrying and borrowing to support construction activity. KSHIP and Civil works contractors obtained/obtaining all permissions required from related government agencies, as per construction applicable, statutory environmental regulations to enable them to carry out without violating country rules and regulations.

KSHIP through its Environmental Expert and Environmental Specialist and Independent Engineer is closely monitoring the implementation of environmental issues of all packages. Regular site visits and review meetings are being held with the IEs and the Concessionaires of the respective projects. In addition to this, for effective supervision of implementation of environmental aspects, weekly review meetings are held on every Friday in PIU, KSHIP to monitor these aspects. The contractors except Package-3 are yet to appoint /nominate safety officer at their construction sites to take care of safety aspects of construction sites.

The Independent Engineer submits Monthly/Quarterly progress report to KSHIP that includes information on implementation of environmental issues. The environmental information, captured in these reports includes environmental monitoring status of construction sites, pollution control measure being adopted, and measures for workers safety at construction site and camp site, safety of road user/public etc. However, safety arrangements, traffic management and usage of personal protective equipment (PPE) by the construction workers in all packages are yet to be established. Some of the photographs showing project development on site are provided in **Annexure 4**.

The contractors have not fully mobilized work force. HIV/AIDS awareness and health check-up campaigns yet to be organized at project sites with the aim to reduce transmission risk of HIV infection among the construction workers and population living along the project roads. Awareness campaigns will be conducted before the commencement of the construction works. The Environmental Experts of PIU, The Social Development expert of PIU, IE & the Concessionaire will actively participate in the awareness programme. Informal Public consultations are conducted during the field visits. However, formal consultations and awareness programmes regarding environmental, social, health and safety aspects of the project will be held at selected locations.

A three tier Grievance Redressal Mechanism will be established for each project road for effective and timely redressal of public grievances such as maintaining of register, display boards for the complaint register and contact numbers of responsible persons to be placed on the site. Details of the public consultations to be carried out at various locations along the ongoing project during reporting period will be updated accordingly.

4.5 Environmental Parameter Monitoring

As per "Environmental Monitoring Plan," The contractor shall carry out periodic monitoring of Environmental attributes such as Air quality, Water (Surface water and ground water) Quality and Noise quality at the predefined locations through hired external monitoring agency which must be accredited with NABL/SPCB/CPCB. The sampling location for these components based on the monitoring stations with reference to IEE report and environmental sensitive locations like school, hospital, construction sites, pollution sources, discharge points, camp sites, forest area (If any) etc. have to be identified. The details on environmental components, parameters, methodology, duration of monitoring and instruments are described in following table.

Table 10: ADB Approved Environmental Monitoring Plan

Env. Component	Parameters (As given in IEE)	Method of Monitoring	Duration/ Frequency of Monitoring	Instrument used
Air	PM _{2.5} , PM ₁₀ , SO ₂ , NO _x , CO	High volume sampler to be located 50m from the plant in the Downwind direction. Use method specified by CPCB for analysis.	Thrice in a year except monsoon	High volume sampler
Water	pH, Conductivity, TDS,TSS, Turbidity, Total Alkalinity, Total Hardness, Chloride, Iron, BOD, COD, Oil & Grease, etc.	Grab sample collected from source and Analyze as per Standard Methods for Examination of Water and Wastewater.	Thrice in a year except monsoon	-
Noise	Equivalent Noise levels on dB (A) scale for day and night.	By using Noise meter Readings to be taken at 15 seconds interval for 15 minutes every hour and then averaged.	Thrice in a year except monsoon	Noise Meter

During the reporting period, monitoring of components such as ambient air quality, water quality and noise level has to be carried out. However, MOEF&CC in their circular dated 29.08.2017 stipulates that the Baseline data should not be older than 3 years. The Baseline monitoring was conducted in 2015 by the DPR consultants, which is more than 3 years old by now. Therefore, it is instructed to all the IEs to re-establish the Baseline data for Ambient Air Quality, Meteorological, Ambient Noise, and Water Quality and Soil from a NABL accredited laboratory at the designated locations identified by the DPR consultants.

This Baseline data will be a fresh reference for comparison during Construction and Operation period of the project cycle. Environmental expert of the IE is instructed to co-ordinate with the Concessionaire in establishing the Baseline data in their respective packages.

The concessionaire of Package 2 has started Environmental monitoring on 18th November 2019 through NABL approved laboratory to re-establish base line along the project road. Since, no civil work started in this reporting period and project is still in Development Phase, Ambient Air, Water, Noise and Soil Quality carried out only once in this reporting period. The locations for sampling were same as established/identified during preparation of IEE report and given in monitoring plan with some additional sample locations. The additional sample locations are;

- Two different construction yard
- One at quarry/crusher plant.

Similarly, 3 additional sample locations which are only for noise quality monitoring, are also proposed keeping in view of its environmental sensitivity. The additional sampling locations are;

- One at km 94+000 (Shettihalli village)
- One at km 203+900 (Rameshwara Temple)
- One is at km 204+300 (Agastheswara Temple)

Package 1 & 3 are expected to take up the monitoring work in the near future and the details will be shared in the next report.

4.6 Protection of Water Bodies within the COI

Package 1: The consultants have identified 10 water bodies along the project road within the COI. After detailed discussions and deliberations in PIU, KSHIP under the chairmanship of the CPO, it was observed that acquisition in the tank bed area is marginal; hence it is decided that the regular embankment maybe constructed in the tank area. The Project Director directed all the Independent Engineers to list out road-side water bodies within the COI along the project road for desilting and use the material for road construction, subject to the condition that the material is suitable for construction of road.

Package 2: Out of the total 31 roadside water bodies identified by DPR consultants, the Concessionaire and the Independent Engineer along with the Environmental Specialist of PIU have finalized 5 water bodies likely to be affected from the project road widening after field verification.

Remaining 26 are not classified as water bodies under RTC, Hence they are out of scope. For 4 water bodies identified, the consultants have proposed retaining wall/ toe wall to avoid acquisition in the tank area. However, In spite of the mitigation measures, these 4 water bodies which are likely to be affected from the road widening and requires permission from the Competent Authority. It was reviewed in the KSHIP and it was recommended to file application under “The Karnataka Tank Conservation and Development Authority and Certain Other Law (Amendment) Act, 2018”. The act provides for construction of roads, bridges and allied works

within tank area including the tank bund provided that the original capacity of the tanks is not reduced even after such work.

The Executive Engineer KSHIP Division Shivamogga who is in charge of Package 2, with the assistance of the IE and Concessionaire has submitted application /proposals along with the documents to “The Director, Karnataka Tank Conservation & Development Authority, Beeja Bhavan, Ground Floor, Bellari Road, Hebal, Bangalore” for approval.

Package 3: Out of the total 15 roadside water bodies identified by DPR consultants, the concessionaire and the Independent Engineer after field verification have finalized 5 water bodies likely to be affected from the project road. Remaining 9 are not classified as water bodies under RTC, Hence they are out of scope. For the 5 water bodies identified, the consultants have proposed retaining wall/ toe wall to avoid acquisition in the tank area.

5.0 Follow-up actions and conclusions

The IEs and Concessionaires of all packages have been instructed to strictly adhere to the relevant mitigation measures as per EMP during the execution of all activities at construction sites. Following are the areas for scope of improvement in coming month:

- Need to obtain all remaining statutory permissions for the construction materials compliant with environmental regulations.
- Deployment of Qualified Environment, Health and Safety Officers in the Concessionaire’s Team.
- Construction camp Management as per ADB approved EMMPs.
- Safety and awareness programmes at Construction Sites.
- Establishment of baseline data in package 1 & 3.
- Testing of Environmental parameters as per ADB approved “Environmental Monitoring Plan”.
- Use of proper PPEs.

Details of ASI Clearance

Tele: 2212 6758/59/60/61

Fax: 22229666

e-mail: piukship@gmail.com

GOVERNMENT OF KARNATAKA
KARNATAKA STATE HIGHWAYS IMPROVEMENT PROJECT
(Public Works, Ports & Inland Water Transport Department)

No.PIU/KSHIP-III/ADB/2019-20/

/455

O/o the Project Implementation Unit
Karnataka State Highways
Improvement Project
K R Circle,
Bangalore - 560 001

Date: 25 MAY 2019

To,

Authorized Signatory,
KNR Somwarpet Infraproject Pvt. Ltd.

Sir,

Sub:- Two Laning with Paved Shoulder of Magadi to near Somwarpet (Km 51+000 to Km 22.833 of SH-85, excluding common section with Haliyudurga bypass km 76+520 to 78+410, common portion with SH84 between Km 88+700 to km 90+380 and common portion with NH 150A in Nagnangala km 111.960 to Km 113.260), 166 km in the state of Karnataka on Hybrid Annuity (DBFOMT) basis - NoC received from Dept of Archaeology Museum & Heritage, Mysore -reg

Ref: Concessionaire KNR Somwarpet Infraproject Pvt. Ltd office letter no. 27 dtd. 17/05/2019

Adverting to the above subject, NoC received from Dept of Archaeology Museum & Heritage mysore for taking up the road work in the regulate area of protected monuments for Rameshwara Temple at Ch 203+900 and Agastheshwara Temple at Ch 204+3000 in Hassan District for Magadi to Somwarpet is enclosed for your reference, and n a.

Yours Faithfully,


Project Director
PIU-KSHIP, 25/5/2019
Bangalore.

Copy to.

1. The Superintending Engineer-2 PIU KSHIP Bengaluru for information & necessary action.
2. EE KSHIP Division Shivamooaga , for information & necessary action.
3. Team Leader M/s Aarvee Associates for information & necessary action.



ದೂರವರ್ತಿ / Tel: 0821-2424673/74
 ಫ್ಯಾಕ್ಸ್ / Fax: 0821-2424685
 ಈ-ಮೇಲ್ / E-mail: comr_ash@yahoo.in

ಕರ್ನಾಟಕ ಕರ್ನಾಟಕ ಪ್ರದರ್ಶನ ಪ್ರಧಾನ

ಪುರಾತತ್ವ, ಸಂಗ್ರಹಾಲಯಗಳು ಮತ್ತು ಪರಂಪರೆ ಇಲಾಖೆ
Department of Archaeology, Museums and Heritage

ಕರ್ನಾಟಕ ಪ್ರದರ್ಶನ ಪ್ರಧಾನ ಅಧಿಕಾರಿ ಕಛೇರಿ, ಮೈಸೂರು - 570010 / Karnataka Exhibition Authority Premises, Mysuru - 570010.

ಶಂಖ್ಯೆ:ಆಮಸಂಪ/ಎಪಿಇ-ಶಿ/ದ.ವ/ಎನ್/ಒಪಿ/2018-19

ದಿನಾಂಕ:29-08-2018
 ೧7/೦೮/2018

ನಮೂನೆ III

- ವಿಷಯ:-** ವಿರಾಪೇಕ್ಷಣಾ ಪತ್ರವನ್ನು ನೀಡುವ ಕುರಿತು.
- ಉಲ್ಲೇಖ:-** 1. ಕಛೇರಿಯ ಶಮಸಂಖ್ಯೆ ಪತ್ರ ದಿನಾಂಕ:02.08.2018.
 2. ಯೋಜನಾ ನಿರ್ದೇಶಕರು, ಯೋಜನಾ ಅನುಷ್ಠಾನ ವಿಭಾಗ, ಕರ್ನಾಟಕ ರಾಜ್ಯ ಹೆದ್ದಾರಿ ಅಭಿವೃದ್ಧಿ, ಬೆಂಗಳೂರು, ಇವರ ಮನವಿ ಪತ್ರ ದಿನಾಂಕ:20.08.2018 ಮತ್ತು 12.12.2018.

ಮೇಲ್ಕಂಡ ವಿಷಯಕ್ಕೆ ಸಂಬಂಧಿಸಿದಂತೆ, ಉಲ್ಲೇಖಿತ ಪತ್ರದಲ್ಲಿ ಹಾಸನ ಜಿಲ್ಲೆ, ಅರಕಲಗೂಡು ತಾಲ್ಲೂಕು, ರಾಮನಾಥಪುರವಲ್ಲದ ಇಲಾಖೆಯ ಸಂರಕ್ಷಿತ ಸ್ಮಾರಕವಾಗಿರುವ ಶ್ರೀ ರಾಮೇಶ್ವರ ಮತ್ತು ಅಗಸ್ತೇಶ್ವರ ದೇವಾಲಯದ ನಿಯಂತ್ರಿತ ಪ್ರದೇಶದಲ್ಲಿ 182ಮೀ ಮತ್ತು 190ಮೀಗಳ ಅಂತರದಲ್ಲಿ ಕರ್ನಾಟಕ ರಾಜ್ಯ ಹೆದ್ದಾರಿಗಳ ಅಭಿವೃದ್ಧಿ, ಬೆಂಗಳೂರು ಇವರ ವತಿಯಿಂದ ರಸ್ತೆಗಳ ಅಭಿವೃದ್ಧಿ ಕಾಮಗಾರಿಯನ್ನು ಕೈಗೊಳ್ಳಲು ಯೋಜನಾ ಅನುಷ್ಠಾನ ವಿಭಾಗ, ಕರ್ನಾಟಕ ರಾಜ್ಯ ಹೆದ್ದಾರಿ ಅಭಿವೃದ್ಧಿ, ಬೆಂಗಳೂರು ಇವರಿಗೆ ಕರ್ನಾಟಕ ಪ್ರಾಚೀನ ಮತ್ತು ಐತಿಹಾಸಿಕ ಸ್ಮಾರಕಗಳು ಮತ್ತು ಪುರಾತತ್ವ ಸ್ಥಳಗಳು ಮತ್ತು ಅವಶೇಷಗಳ ಅಧಿನಿಯಮ, 1961 ಮತ್ತು 1963ರ ನಿಯಮಗಳ ಕನಿಷ್ಠ ನಿಯಮದ (2)ನೇ ಉಪನಿಯಮದ ಮೇರೆಗೆ ಕೆಲವು ಪರಿಷ್ಕರಣೆಗಳನ್ನು ವಿವಿಧ ಅನುಮತಿಯನ್ನು ನೀಡಲಾಗಿದೆ.

ಆದರೆ ಕೆಲವು ಅಡಳಿತಾತ್ಮಕ ಕಾರಣದಿಂದಾಗಿ ಕಾಮಗಾರಿಯನ್ನು ಅನುಷ್ಠಾನಗೊಳಿಸಲು ವಿಳಂಬವಾಗಿರುವ ಹಿನ್ನೆಲೆಯಲ್ಲಿ ಮುಂದಿನ ಮೂರು ವರ್ಷದ ಅವಧಿಗೆ ಈ ಅನುಮತಿಯನ್ನು ವಿಶ್ಲೇಷಿಸಿ ನೀಡಲು ಉಲ್ಲೇಖಿತ (2)ರ ಪತ್ರದಲ್ಲಿ ಯೋಜನ ನಿರ್ದೇಶಕರು ಯೋಜನಾ ಅನುಷ್ಠಾನ ವಿಭಾಗ, ಕರ್ನಾಟಕ ರಾಜ್ಯ ಹೆದ್ದಾರಿ ಅಭಿವೃದ್ಧಿ, ಬೆಂಗಳೂರು, ಇವರು ಮನವಿಯನ್ನು ಸಲ್ಲಿಸಿರುತ್ತಾರೆ.

ಮೇಲ್ಕಂಡ ಹಿನ್ನೆಲೆಯಲ್ಲಿ ಹಾಸನ ಜಿಲ್ಲೆ, ಅರಕಲಗೂಡು ತಾಲ್ಲೂಕು, ರಾಮನಾಥಪುರವಲ್ಲದ ಇಲಾಖೆಯ ಸಂರಕ್ಷಿತ ಸ್ಮಾರಕವಾಗಿರುವ ಶ್ರೀ ರಾಮೇಶ್ವರ ಮತ್ತು ಅಗಸ್ತೇಶ್ವರ ದೇವಾಲಯದ ನಿಯಂತ್ರಿತ ಪ್ರದೇಶದಲ್ಲಿ 182ಮೀ ಮತ್ತು 190ಮೀಗಳ ಅಂತರದಲ್ಲಿ ಕರ್ನಾಟಕ ರಾಜ್ಯ ಹೆದ್ದಾರಿಗಳ ಅಭಿವೃದ್ಧಿ, ಬೆಂಗಳೂರು ಇವರ ವತಿಯಿಂದ ರಸ್ತೆಗಳ ಅಭಿವೃದ್ಧಿ ಕಾಮಗಾರಿಯನ್ನು ಕೈಗೊಳ್ಳಲು ಈ ಹಿಂದೆ ವಿಧಿಸಿದ್ದ, ಪರಿಷ್ಕರಣೆ ಮತ್ತು ನಿಭಂಜನೆಗಳಿಗೊಳಪಟ್ಟು ಸವಲಿ ದಿನಾಂಕದಿಂದ ಪ್ರಾರಂಭವಾಗಿ ಮುಂದಿನ ಮೂರು ವರ್ಷದ ಅವಧಿಗೆ ಪರಿಷ್ಕರಣೆಯನ್ನು ವಿಶ್ಲೇಷಿಸಿದೆ.

(ಸಹಿ)
ಅಯ್ಯಪ್ಪ
 ಸುರಾತತ್ವ ಸಂಗ್ರಹಾಲಯಗಳು ಮತ್ತು
 ಪರಂಪರೆ ಇಲಾಖೆ, ಮೈಸೂರು.

ಗೆ,
 ಯೋಜನಾ ನಿರ್ದೇಶಕರು
 ಯೋಜನಾ ಅನುಷ್ಠಾನ ವಿಭಾಗ,
 ಕರ್ನಾಟಕ ರಾಜ್ಯ ಹೆದ್ದಾರಿ ಅಭಿವೃದ್ಧಿ,
 ಕೆ.ಆರ್.ಪಹರ್ಲೆ, ಬೆಂಗಳೂರು - 560 001

UDSha.kem 2018-19/ACT-6/Annex-1/10

ANNEXURE-2**Status of Forest Land Diversion under ADB -2 KSHIP- III Projects**

Name of the Road	Extent of Forest Land required for Diversion	Status of Acquisition	Remarks
Package 1A	Nil	Not Applicable	-
Package 1B	14.5788 Ha	In Process	Online Application for Forest Clearance is uploaded and awaited for approval
Package 1C	Nil	Not Applicable	-
Package 2	39.1597 Ha	In Process	Online Application for Forest Clearance is uploaded and awaited for approval
Package 3	5.4659 Ha	In Process	Online Application for Forest Clearance is uploaded and awaited for approval

Status of Tree Cutting and Tree Plantation – KSHIP-III

Name of the Road	No. of trees jointly enumerated for cutting	Status of Removal	Status of Plantation	Remarks
Package 1A	845	-	Not Applicable	Tender in Process
Package 1B	3539	-	Not Applicable	Tender in Process
Package 1C	3307		Not Applicable	Tender in Process
Package 2	7916	1633	Not Applicable	Work is Progress
Package 3	2609		Not Applicable	Tender in Process

Applicable Permits (Condition Precedent) For ADB assisted KSHIP-III**ANNEXURE 3**

The Concessionaire shall obtain, as required under the applicable laws, the following Applicable Permits on or before the Appointed Date, save and except to the extent of a waiver granted by the Authority in accordance with Clause 4.1.3 of the Agreement.

Permission description	<u>Package-1</u> M/s K. N Highways Development Ltd	<u>Package-2</u> M/s KNR Somwarpet Infra Project Pvt. Ltd.	<u>Package-3</u> M/s SadbhavGadag Highway Pvt. Ltd	Status of Fulfillment of Condition Precedent.
1. Permission for new quarries from; <ul style="list-style-type: none"> • Department of Mines and Geology. • State Pollution Control Board. • Land conversion from State Revenue Department and District Administration. • If mining area comes under forest land, permission from State Forest Department 	Concessionaire has submitted following documents: <ol style="list-style-type: none"> 1. Pkg 1A: Lease agreement signed with Mr. Nanja Shetty of Y.K. Mole village, Yellandur taluk for operating Stone Quarry in 5-95.5 cents of land allotted by Mines and Geology Department in sy. No. 9, 10/A3, 10/B2 of Tagarpur village and sy. No. 11/1, 11/2, 11/3, 11/4, 11/5 & 11/6 and 14/A1 and 14/B1 of Kuntur village of Kollegal taluk. 2. Pkg 1B: Quarry lease permission from Mines & Geology in Process. 3. Pkg 1C: Quarry Lease/ License deed is issued from Dept of Mines & Geology for execution of Quarry lease in favour of M/s Vinyaka Stone crusher for 9-34 acres in Sy no 29 of Hulevenahalli village, Bangalore Urban District. 	Concessionaire has submitted following documents: <ol style="list-style-type: none"> 1. Existing quarry of M/s DP Jain located on sy no.64 of revenue village, Kalashgiri village, Develapura: DC permission is available for operation. However, as per “Transferability of Environmental Clearance (EC) EIA Notification, 2016, the EC which is issued in the name of M/s DP Jain is to be transferred to M/s KNRSIPL. 2. DC Mandya letter dtd 12.03.2019 for Stone quarrying from 7 Acres of land in Sy. No. 64 of Kasalgere village Nagamangala taluk, Mandy district. Final approval from the Director, Mines & Geology Department is awaited. 3. Concessionaire has submitted lease agreement signed with M/s. Krishna Stone Crushers for 	Concessionaire has drawn an agreement with Mr. Sanjay S Maharajpet in the name of M/s Maharaj Traders having Quarry License No:87/2018-19 located at SY.No:71/6 & 71/1 Chikkasavanur Village, Shirahatti Taluk.	Package 1: Partially fulfilled (Pkg 1B not complied) Package 2: Fulfilled Package 3: Fulfilled

		<p>operating stone quarry in 10 Acres of land sy. No. 82 in P. H. Halli village, Kunigal taluk, Tumkur district.</p> <p>M/s. Krishna Stone crushers has obtained permission from Mines & Geology Department. The Concessionaire is required to submit the copy of EC.</p>		
<p>2. Permission of Village Panchayat and Pollution Control Board for installation of crushers (as per the recent guidelines from Supreme Court)</p>	<p>Concessionaire has submitted following documents:</p> <ol style="list-style-type: none"> Pkg 1A: CFE from KSPCB is obtained. However, Concessionaire has to obtain CFO from KSPCB to Operate the crusher. Pkg 1C: Mobile Crusher Mobilized. 	<p>Concessionaire has submitted following documents:</p> <ol style="list-style-type: none"> The concessionaire has obtained combined (CFO) order no. 313235 dtd 17.06.2019 for operation of crusher located at sy no. 64/5P14, Devalapura, Hobli, Taluk Nagamangala district, Mandya. NOC from village Panchayat (Devalapura) is obtained vide ltr.no GPO/ADM/CR/57/2019-20 dtd 27.06.2019 However the Concessionaire has also made arrangement for procurement of aggregate from M/s Krishna Stone for which, Concessionaire is required to submit copy of CFO issued in the name M/s Krishna Stone Crusher. 	<p>The Concessionaire has assured that the CFO by M/s Maharaj Traders is under renewal and the same will be made available on or before 14.03.2020</p>	<p>Package 1: Partially fulfilled (Pkg 1B not complied)</p> <p>Package 2: Fulfilled</p> <p>Package 3: Not Fulfilled</p>
<p>3. License for use of explosive from the office of Explosives controller, Site specific license to be obtained from District</p>	<p>Concessionaire has not produced document.</p>	<ol style="list-style-type: none"> Concessionaire has submitted agreement signed with Explosive agency M/s. Balaji Enterprises, Kunigal. Permission for blasting in 	<p>Mr. Sanjay S Maharajpet has drawn an agreement with Mr. Ram lal Jat in the name of M/s Super Traders having Blasting</p>	<p>Package 1: Not Fulfilled</p> <p>Package 2: Partially fulfilled</p> <p>Package 3: Partially fulfilled</p>

<p>Magistrate subsequent to license from the office of Explosives controller.</p>		<p>the specified area (Quarry) is also to be obtained from the office of DC, Mandya. 3. In case of existing crusher of M/s Krishna Stone Crusher, copy of permission for blasting in the specified area (Quarry) is to be submitted.</p>	<p>License. However, Concessionaire has to obtain NOC for control blasting from DC.</p>	
<p>4. Permission for drawing water from bore well/pond/river from village Panchayat/Irrigation Department as applicable.</p>	<p>Concessionaire has submitted following documents: 1. Pkg 1A: NOC from Village Panchayat Doddinduwadi, Kollegala taluk to use bore-well water from sy. No. 251. However, permission from Ground Water Board is required. 2. Pkg 1B: Rental agreement for purchase of water from bore-well in Sy. No. 29/3 of Patpalli village, Srinivaspura hobli from Mr. Devraj and Sy. No. 26/1 of laxmipura village, Nelvanki hobli of Srinivaspura taluk from Mr.Timmayya. 3. Pkg 1C: Permission letter from Bachenatti village panchayat for usage of bore-well water For Sy no 39/4, 53/1, 53/1 dated 17-10-2019 is available. However, Permission from Ground Water board is required.</p>	<p>Concessionaire has submitted that the land purchased for establishment of camp site has an existing bore well. However, the Concessionaire has to submit the permission letter obtained for drilling of the existing bore well by the seller.</p>	<p>Reported as under progress</p>	<p>Package 1: Fulfilled Package 2: Fulfilled Package 3: Not Fulfilled</p>
<p>5. License from Inspectorate of factories or other</p>	<p>Concessionaire has not submitted any document.</p>	<p>Concessionaire has submitted that skilled labours employed</p>	<p>The Plant is Concrete Batching Plant</p>	<p>Package 1:Not Fulfilled</p>

<p>competent authority for setting up Batching Plant.</p>		<p>for batching plant are less than 10 and hence license from Inspectorate of Factories is not required.</p>		<p>Package 2: Fulfilled Package 3: Not Applicable</p>
<p>6. Consent for Establishment and Operation of Asphalt Plant, WMM Plant and Concrete Batching Plant from State Pollution Control Board;</p>	<p>Concessionaire has submitted following documents: 1.Pkg 1A: CFE from KSPCB to establish -HMP, WMM and RMC in Sy. No. 244, 244/A, 246/A, 246/B,247/1, 247/2, 251, & 252, 252/2, 265/1 at Doddinduvadi, Kollegal taluk, Chamarajanagar. However, Concessionaire has to obtain CFO from KSPCB for operating the above plants. 2.Pkg 1B: CFE from KSPCB to establish -HMP, WMM and RMC in Sy. No. 74, 75& 76 in Jodikattapalli of Nelvanki hobli. Srinivasapura taluk. However, Concessionaire has to obtain CFO from KSPCB for operating the above plants. 3. Pkg 1C: Karnataka State pollution Board issued consent for establishment letter vide no CTE-315537 IN the name DRN Infrastructure UNIT 1 at Sy.No 39/4, 53/1, and 53/1P, Maralagondala Village, Ramanagaram.</p>	<p>Concessionaire has submitted document pertaining to CFE and CFO for establishment and Operation of Asphalt plant, WMM plant, from KSPCB vide dtd.17.6.2019 and valid till 30.9.2023.</p>	<p>Concessionaire has assured to obtain CFE by 20.03.2020 & CFO by 20.04.2020</p>	<p>Package 1: Partially fulfilled Package 2: Fulfilled Package 3: Not Fulfilled</p>

	However, Concessionaire has to obtain CFO from KSPCB for operating the above plants.			
<p>7. Borrow Earth:</p> <ul style="list-style-type: none"> • Permission required from Village Panchayat and owner of the land in case of private land. • Permission from Local Municipalities and Development Authorities. 	<p>Concessionaire has submitted following documents:</p> <p>1. Pkg 1B: NOC from Village Panchayat Nelavanki, Srinivasapura taluk for extracting borrow earth from sy. No 14/P1 (2-00A), 13(2-00A), 22(2-05) and sy. No. 103 (1-28) of Sonnipalli village and signed agreement from the owners to borrow earth material for road construction.</p> <p>2. Pkg 1C: NOC from</p> <ul style="list-style-type: none"> • Kodigehalli VP Bangalore North taluk to borrow earth from village tanks viz., (a)Kannalli tank sy. No. 5&36; total 1.35 lakh cum., (b)Kodigehalli tank sy.no. 30 total 1.0 lakh cum., • NOC from Kalya VP Ramanagaram taluk for borrow earth from (c)Venkatamma kere total. 40,000cum, (d)Harohallikere. Total. 40,000cum (e)Chandurayanahalli kere total. 31,000cum. 	<p>Concessionaire has submitted letters from Minor Irrigation Dept. Tumkur dtd 01.6.2019 granting permission to remove borrow earth from 3 MI tanks (yalagalwadi, Deepambudhi and Kempambudhi) for a total of 3.0 lakh cum.</p>	<p>Reported as under progress</p>	<p>Package 1: Partially fulfilled (Not complied wrt Pkg 1A)</p> <p>Package 2: Fulfilled</p> <p>Package 3: Not Fulfilled</p>
<p>8. Any other permits or clearances required under Applicable Laws.</p>	--	--	--	--

Photographs of Project Sites – Package wise

ANNEXURE 4

Package 1:



Labour Camp at site



Beds provided inside the labour Camp



Toilet inside labour Camp



Bath Room inside labour Camp



First Aid Kit at labour Camp



Training on safety measures



Site workers with PPE's



Workers Mess Store





Quarry Area Pck-1B



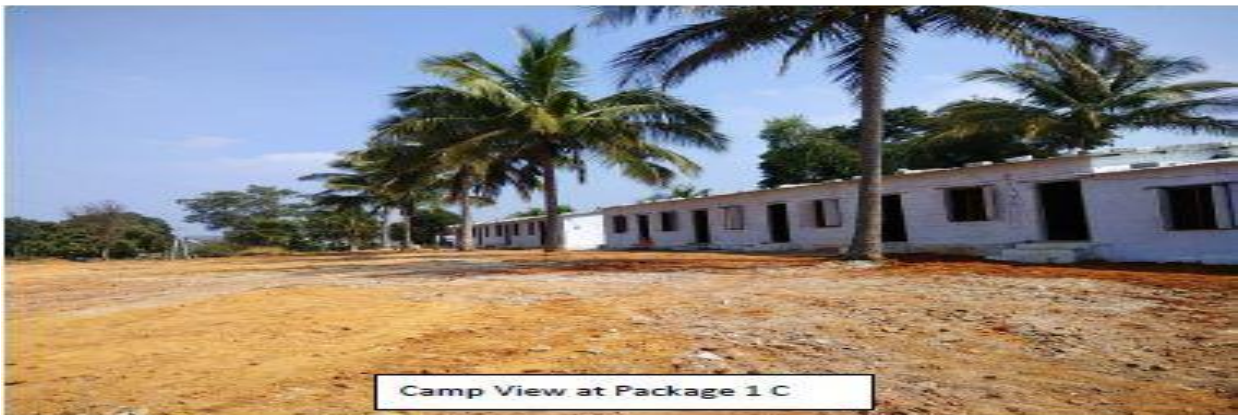
Borrow Area Pck-1B



Tree Marking in Pck-1B LHS



Tree Marking in Pck-1B RHS



Camp View at Package 1 C



Septic Tank at Package 1 C



Consultation with site workers at inside campside at Package 1 C

Package 2:



Discussion with PIU Env. Expert regarding Forest Clearance and EMP



View of Borrow Area at km 58+300 in MI Tank



View of Construction yard @km 94+00



View of Construction yard @km 94+00 HMP erected



Latitude: 12.793752
Longitude: 76.864048
Elevation: 729.81m
Accuracy: 3.2m
Time: 21-06-2019 15:40
Note: Somarpet-Magdi quarry Kasalkere



Latitude: 12.793737
Longitude: 76.864033
Elevation: 732.81m
Accuracy: 3.2m
Time: 21-06-2019 15:40
Note: Somarpet-Magdi quarry Kasalkere

View of Stone crusher site (Mobile Crusher)

View of Stone crusher site



Latitude: 12.807087
Longitude: 76.902284
Elevation: 695.75m
Accuracy: 3.2m
Time: 21-06-2019 13:57
Note: Somarpet-Magdi km 94+000



Latitude: 12.806091
Longitude: 76.933273
Accuracy: 3210.0m
Time: 21-06-2019 15:25
Note: Somarpet-Magdi km 94+000 Construction Camp

View of concessionaire office

View of concessionaire office

Package 3:



ESTABLISHMENTS OF THE CONSTRUCTION SITE AND PLANT SITE
ITAGI CAMP, KM 161+700

