

Date: 24-02-2020

Ref: RRRPL/BOT-KASARGOD/0078/2020-2021

To,

Team Leader,

Shrikhande Consultant Pvt. Ltd

SreejaBhavan, TC 9/1464

Sasthamangalam,

Trivandrum- 695010.

Sub: "Rehabilitation of state Road Highways and Major District Roads – Package-A(modified)-
Kasargod District" – **Submission of O & M Monthly Plan MARCH-2020**

Ref: -1. Concession Agreement Dt. 29.02.2016

Dear Sir,

This is with reference to the above cited subject; we are submitting the O & M Monthly planning for the Month of MARCH-2020 for your information and records.

Thanking You,

Yours Faithfully,

For, **ROHAN RAJDEEP KERALA ROAD PROJECTS LTD.**

**Manager (Maintenance)
ROHAN RAJDEEP
KERALA ROAD PROJECTS (L)
Room No. 35, Ward No.18
ALAKARI CENTRE
Near Palvalike Village Office
P.O Palvalike, Manjeshwara Block
Kasaragod Dist-671348**

For Manager



Manager (Maintenance)

CC: **The Managing Director,** Road Infrastructure Company Kerala Limited, GNA No.215,
"Sarojini", Gandhi Nagar IInd Street, Vazhuthacaud, Trivandrum – 695014, Kerala State, India

Encl; MAR-2020 O&M Plan

OPERATION & MAINTENANCE REPORT

For

“Rehabilitation of state highways and major district roads Package A (Modified) (Kasargod District) Under DBFMT on Annuity Basis”

By

“Concessionaire: Rohan Rajdeep Kerala Road Project Limited”



Authority



Road Infrastructure Kerala Company Limited

Road Infrastructure Company Kerala Limited,
GNA No.215, “Sarojini”, Gandhi Nagar IInd Street,
Vazhuthacaud, Trivandrum - 695014
Kerala State, India

MARCH -2020



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SECTION – I

INTRODUCTION



INTRODUCTION

- The Government of Kerala has established a new firm "Road Infrastructure Company Kerala Limited. (RICKL) with equity participation of Kerala Fund Road Board and GOK for the implementation of the Project.
- The Government of Kerala has appointed "The Managing Director RICKL" as Authority.
- The Government of Kerala has entrusted the Authority to Design Build Maintain & Transfer (DBFMT) of State Highway and Major District Road- Package A (Modified). Total length 25km in State of Kerala
- The Authority accordingly had invited proposal and have selected M/s Rohan Rajdeep Tollways Limited as a Concessionaire for the above captioned project.
- The Concessionaire with respect to Provision of the Tender has incorporated a SPV company viz. M/s Rohan Rajdeep Kerala Road Projects Limited and accordingly the Agreement has been executed between M/s Road Infrastructure Company Kerala limited and M/s Rohan Rajdeep Kerala Road Projects Limited on 29th February 2016.
- M/S Rohan Rajdeep Kerala Road Projects Limited (SPV) a company incorporated under the provisions of the companies act, 2013.
- The Concessionaire has appointed Rajdeep Buildcon Pvt. Ltd., Ahmednagar as an EPC Contractor vide agreement dated 3rd March 2016.
- The Authority has appointed M/s Shrikhande Consultants as the Independent Engineer.
- There are two roads Vidyanagar Seethangoli (9.40KM) and Uppala Kaniyana Road (15.60Km) both comprising of 25Kms.
- The Concessionaire appointed Rajdeep Buildcon Pvt.Ltd for Operation and maintenance of the Road project and signed the Agreement 15-June 2017.
- COD obtained is from 13-06-2017 and completion date of project is 01-11-2017.



SECTION – II

**OPERATION & MAINTENANCE PART OF THE O&M
MANUAL**



OPERATION AND MAINTENANCE REQUIREMENTS

We have maintained and assured with the following details at site since Commercial Operation i.e 13-06-2017.

- We have ensured the safety of the personnel deployed on and users of the Project facilities or part thereof;
- Kept the project facilities from undue deterioration and wear.

During the COD since 13-06-2017, we maintained the following:

- The Project Facilities are kept free from undue deterioration and undue wear;
- Applicable and adequate safety measures are taken;
- No delay is caused to users of the Project Facilities
- Adverse effects on the environment and to the owners and occupiers of property and/or land in the vicinity of the Project Facilities, due to any of its actions, are not observed.
- No situation which has occurred on account of any accident or other emergency, if any mishap occurs will be responded as quickly as possible.
- Users are provided with adequate information and forewarned of any event or any other matter affecting the Project Facilities to enable them to control/ minimize any adverse consequences by such event or matter;
- Registers are maintained to record grievances or appreciations of members of public in relation to the operation and maintenance of project/project facilities.
- All materials used in the maintenance, repair and replacement of any of the Project Facilities meet the Design Requirements/standards.



As scope of Operation and Maintenance of the project is different, O & M Manual is divided in two sections i.e.:

- Section I – Operation Part of the O & M Manual
- Section II – Maintenance Part of the O & M Manual

Section –I Operation Part of O & M Manual

We have followed and maintained the below:

- Permitted smooth and uninterrupted flow of traffic during normal operating conditions.
- All the lighting System has been installed at site and is in working condition.
- All the Project Facilities and Road Furniture's are properly maintained at site.
 - i. Pickup Bus Stops

ROUTINE MAINTENANCE

In order to ensure smooth and uninterrupted flow of traffic during normal operating conditions for all 24 hours of a day, routine maintenance of the Project Facilities are maintained as per :

- Prompt repairs of concrete joints, drains, lane marking, signage, patching, raised shoulders, drain cleaning, repairing of signs, road marking, carrying out repairs to pavement cracks by sealing, barricades, railing etc are taken care of. No issues have been found regarding this.
- Replacement of equipment/consumables, horticultural maintenance and repairs to equipment, pavements, bridges, structures and other civil works which are part of the Project/Project Facilities:
- Undertaking regular condition surveys, including regular monitoring and reporting of the condition of all Roads under the Agreement.
- Undertaking inspections at the frequencies required (as a minimum) and identifying defects and carrying out maintenance works.
- Scheduling maintenance work to meet the required maintenance standards.
- Providing effective traffic management for all works undertaken to ensure public safety and the safety of the Concessionaire's / his agents workforce.
- Maintaining records of all work undertaken.
- Maintenance of the approach roads to structures and drainage facilities within the Project Site in accordance with Good Industry Practice:



- Keeping the Project Site / Project Facilities in a clean, tidy and orderly condition and taking all practical measures to prevent damage to the Project Facilities or any other property on or near the Project Site.
- Undertaking maintenance works in accordance with the O & M Plan and O&M Manual:
- Preventing, with the assistance of concerned law enforcement agencies where necessary, any unauthorized entry to and exit from including any encroachments on the ROW / Project Site:
- Taking all reasonable measures for the safety of all the workmen, material, supplies and equipment brought to the Project Site.
- Maintenance of road furniture like KM post, Hectometer stones, ROW pillar etc. and attending to repairs to various parts of the road furniture and connected services as and when necessary, and replacement of irreparable items of work in responsible period. At the end of the Concession Period, all road furniture will handed over to Agency in neat, tidy and in usable and working order.
- All traffic signs and markings is kept clear visible and in correct alignment and position.
-

- **PREVENTIVE MAINTENANCE**

- We regularly carry out the necessary preventive maintenance activities for the Project Facilities to ensure adherence to the Design Requirements and specifications throughout the Concession Period.
- Preventive Maintenance includes the activities related to each element and the system as a whole of the Project Highway to ensure that during the Operation Period and at its end is in sound, durable and functional condition



PERIODIC MAINTENANCE

- Carriageway
 - a) The activities will be carried out as and when required and at least once between 5th and 7th year (from COD) within the Operation period. Road marking as specified and other road side features is restored to meet the relevant standards to the satisfaction of the Independent Engineer.
 - b) The periodic maintenance activities includes profile corrective course of the road pavement overlaid with the periodic renewal of the wearing course.
 - c) The paved shoulders are found to be in good condition.
 - d) The periodic renewal will result in improvement of the riding quality, meeting road roughness as per the standards.
 - e) Road marking as specified and other roadside features wherever required is restored to meet the relevant standard specified.
 - f) Any other repairs as suggested by IE is carried out
 - g) No damage due to impact is observed to Crash Barrier.



SECTION – III

- a.** Vidhyanagar-Seethangoli Road
- b.** Uppala-Kaniyana Road



State Road Improvement Project Package-A		Schedule K																																			
Kerala State Highway Improvement Project :		Rehabilitation of State Highways Major District Roads Package A (Modified)- (Kasaragod District) in the state of Kerala Under - DBFMT on Anuity basis total length of 25.00 Km .																								Form OM06											
Name of Road:- Uppala-Kaniyana road																																					
MONTHLY WORKS PROGRAM PLAN																																					
Concessionaire : ROHAN RAJDEEP KERALA ROAD PROJECTS LIMITED															Project Road Name : Uppala-Kaniyana road (15.600KM)																						
Period from : 01-03-2020 to 31-03-2020																																					
No.	Standard Work item (Activity)	Location	Gang size	Equipments	Quantity in days	1-Mar-2020	2-Mar-2020	3-Mar-2020	4-Mar-2020	5-Mar-2020	6-Mar-2020	7-Mar-2020	8-Mar-2020	9-Mar-2020	10-Mar-2020	11-Mar-2020	12-Mar-2020	13-Mar-2020	14-Mar-2020	15-Mar-2020	16-Mar-2020	17-Mar-2020	18-Mar-2020	19-Mar-2020	20-Mar-2020	21-Mar-2020	22-Mar-2020	23-Mar-2020	24-Mar-2020	25-Mar-2020	26-Mar-2020	27-Mar-2020	28-Mar-2020	29-Mar-2020	30-Mar-2020	31-Mar-2020	Remarks
						S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	
A Cleaning Activity																																					
i	Cleaning of Grass, Debris	8+000 to 10+500	4	Grass cutting machine, knife, hand saw	2 week																									Routine activity							
ii	Cleaning of Kilometer Stone, Guard Stone, foot path	0+000 to 8+600	2	broom, knife, wipers	2 week																					Routine activity											
iii	Cleaning of Road signage board	0+000 to 15+600	2	cleaning towel, cleaning liquid	7 days																					Routine activity											
iv	Cleaning of Bus Shelters and Bus Bays	0+000 to 15+600	2	Broom, cleaning tools	10 days																					Routine activity											
B Road Activity if Persists																																					
i	Repairing of Pot holes, Crack Sealing	0+000 to 15+600	6	Grass cutting machine, knife, hand saw	2 days for repair																									Emergency work							
ii	Preparation of Earthen Shoulder due to Rain cuts	0+000 to 15+600	4	broom, knife, wipers	3 weeks																									Routine activity							
iii	Re-painting of Thermoplastic road paint	0+000 to 15+600	5	cleaning towel, cleaning liquid	2 week																					Routine activity											
iv	Re-fixing of missing Road sign board	0+000 to 15+600	2	Broom, cleaning tools	5 days																					Routine activity											
v	Re-Casting, painting of breakage kerb stone	0+000 to 15+600	2	Broom, cleaning tools, painting tools, paint	6 days																									Routine activity							
C Culvert Activity																																					
i	Repairing Structural cracks, painting etc.	0+000 to 15+600	5	Cleaning tools, painting tools	2 days for repair																									Routine activity							
ii	Culvert outlet cleaning work, debris removal	0+000 to 15+600	2	Cleaning tools	2 week																																
Miscellaneous Activities																																					
i	Cleaning of foot path , joints, gutters, vent holes etc.	0+000 to 15+600	3	Cleaning tools	2 week																									Routine activity							
ii	Paint work for hand rail, parapets, etc. (If Required)																																				

