

PROJECT MANAGEMENT FOR CLIMATE-RESILIENT RECONSTRUCTION AFTER FLOODING IN KERALA



MONTHLY PROGRESS REPORT FOR THE MONTH OF APRIL 2021



Monthly Progress Report – April 2021

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1. Introduction

1.1. Project Background

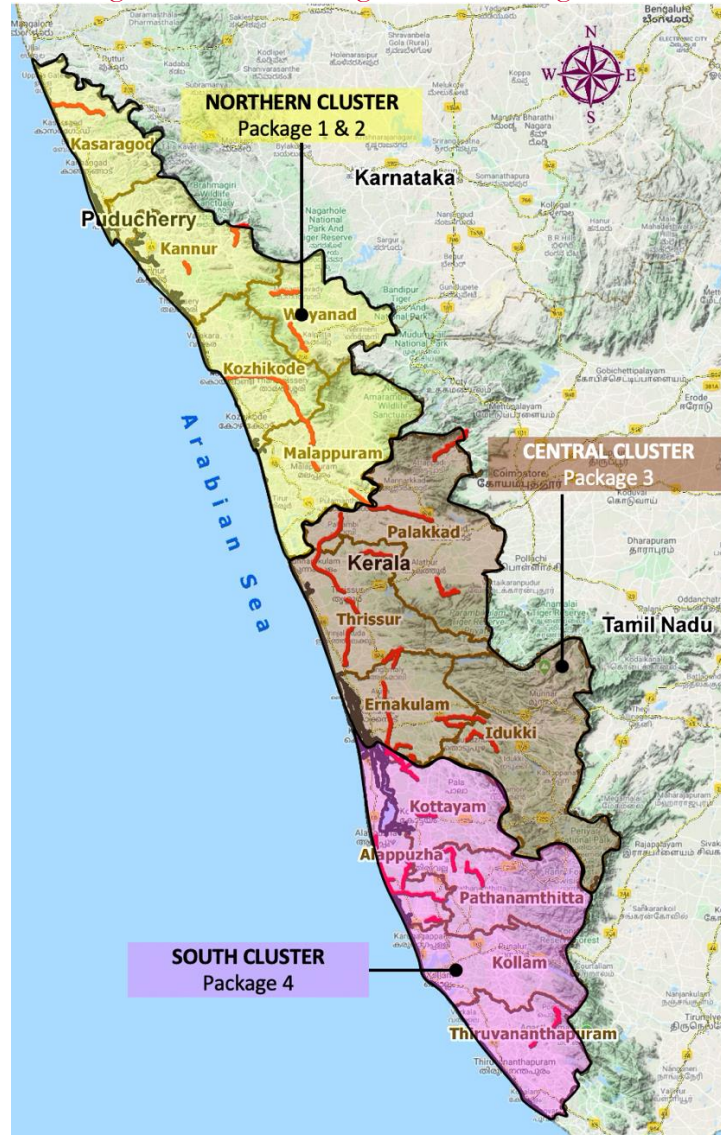
Kerala, a coastal State in the south of India, was inundated with a once in 100-year state-wide flood in 2018, by way of unusually high rainfall, that led to damages of nearly USD 5.6 billion, affected 5.4 million people, and left 483 people dead. This disaster, which affected thirteen out of the fourteen districts, led to the Government of Kerala launching a comprehensive rebuild framework and emergency action plan, under the umbrella scheme of the Rebuild Kerala Programme, that is being directed by the Kerala Public Works Department (PWD), with the core vision, strategy and way forward being articulated in the Government document titled “Rebuild Kerala Development Programme: A Resilient Recovery Policy Framework and Action Plan for Shaping Kerala’s Resilient, Risk-Informed Development and Recovery from 2018 Floods”.

It is with this background, that the Kerala State Transport Project (KSTP), a wing of PWD of Government of Kerala, and hereafter referred to as project management unit/implementation unit, was tasked with the development of a more sustainable and climate resilient reconstruction of flood damaged roads and bridges in Kerala. The mission of the Climate-Resilient Reconstruction Project is profound; increase the usability of rehabilitated road infrastructure in Kerala and reduce its vulnerability towards future climate-related damages.

Globally, there is a growing conjuncture from Scientists and Climate Change Experts that due to the effects of Global Warming and the subsequent rise in average temperatures, the occurrence of extreme weather and climate events has increased in recent decades. Specifically, for wet and maritime tropical climate regions located close to the equator, such as Kerala, the rise in temperatures are resulting in extreme swings in weather, from droughts in the summer months to an increase in extreme rainfall during the monsoon. Thus, going forward, the State must be adequately prepared for an increased frequency of such calamitic events such as the 2018 floods and must strengthen its Institutional Capacity, Sectoral and Urban Planning, Disaster Financing, Building Standards, Data Analysis and Infrastructure Quality.

To tackle the tremendous task of rebuilding the State, the Government of Kerala reached out to multilateral funding agencies, such as the World Bank and the Kreditanstalt für Wiederaufbau Bank (KfW), for development loans. For ease of coordination, the Government split the works for the flood damaged roads into four packages, with two located in the north of Kerala, one in central and one in south Kerala, as shown in Figure 1 below:

Figure 1 List of Packages for RKI Programme



Source: Government of Kerala

In this regard, the Government of Kerala, and the KfW, formerly KfW Bankengruppe, based in Frankfurt, Germany, signed two Loan Agreements in November 2019, totalling EUR 170 million, with a grant of EUR 3 million, for the rebuilding of the State’s road infrastructure.

Parallely, the Government also entered into a Loan Agreement of USD 250 million with the World Bank Group, to enhance the State's resilience against the impacts of natural disasters and climate change.

Thus, under the ambit of the KSTP-II initiative, the Government, as a first step, undertook the prioritization of the roads to be rebuilt in 2019, through a study conducted by M/s L&T Infrastructure Engineering Limited (LNTIEL). The list of roads to be funded were approved in July 2019, at the 5th Meeting of the High-Level Empowered Committee (HLEC) of the Rebuild Kerala

Initiative. The meeting further decided that the two clusters in the north would be financed through the World Bank, while the southern and central cluster would be financed through the KfW Development Bank. On this basis, the KSTP bifurcated the roads into their respective clusters and appointed Detailed Project Report (DPR) Consultants. The main objective of the DPR Consultants were to design roads that would be resilient to adverse climatic elements and that would be safer, and more robust than the existing infrastructure.

1.2. Project Objective

The mission of the Climate-Resilient Reconstruction Project is to increase the usability of rehabilitated road infrastructure in Kerala and reduce its vulnerability towards future climate-related damages.

1.3. Project Components

The overall Project Objective would be achieved through the following Project Cluster Packages:

- (1) North Cluster Package 01
- (2) North Cluster Package 02
- (3) Central Cluster Package 03
- (4) South Cluster Package 04



1.3.1. North Cluster Package 01

Table 1 Roads in North Cluster Package One

No	Reference	District	Category	Road Name	Total Length (Kms)
1	RKI-11	Kannur	Major District Road (MDR)	Edoor - Companynirath - Anapanthy - Angadikkadavu- Vaniyappara - Charal - Valavupara - Kacherikkadavu Palathumkadav road	24.45
2	RKI-12	Kannur	Major District Road (MDR)	Uruvachal Manakkayi valayal (including bridge parallel to aqueduct at valayal)- Keezhallur Therur Palayod-Vellaparamba Karimbala Colony Maruthaayi road	18.46
3	RKI-13	Kasargod	Major District Road (MDR)	Kumbla- badiadka-Mulleria road	29.14
4	RKI-14	Kozhikode	State Highway SH -34	Koyilandy Thamrassery Mukkam Areekode Edavanna road: 1. km 0.00 to 25.00-Koyilandy to Poonoor: 2. km:25.00 to 37.500-Poonoor- Omassery 3. km 37.500 to 51.200 Omassery to Eranhimav	46.32
5	RKI-15	Wayanad	Major District Road (MDR)	Vythiri-Tharuvana road	13.33
6	RKI-10	Wayanad	Major District Road (MDR)	Mananthavady - Vimalanagar - Kulathada - Valad HS - Periya road between km2/500 to 27/300 in Wayanad District	27.3
Total Length of Roads (Kms)					159.01

Source: Government of Kerala



1.3.2. North Cluster Package 02

Table 2 Roads in North Cluster Package Two

No	Reference	District	Category	Road Name	Total Length (Kms)
1	RKI-5	Malappuram	State Highway SH -39	Perumbilavu-Nilambur Road B/W Km30/700 to 42/780 and 50/000 to 62/320 including upgradation of 53/000 to 54/000, 54/000 to 54/800 and 56/000 to 57/200.	30.88
2	RKI-6	Malappuram	SH-34/MDR	Koyilandy - Edavanna road between Km 51/200 to 69/700 & Areekode - Manjeri road Km 0/000 to 13/600	31.53
3	RKI-7	Palakkad	SH-53	Palakkad -Perinthalmanna Road (Mundur Junction to Thootha Junction of SH-53 from Km 12/800 to Km 49/600)	36.8
4	RKI-8	Palakkad	Major District Road (MDR)	Thavalam Mully Road CH 0/000 to 28/800	28.50
Total Length of Roads (Kms)					127.71

Source: Government of Kerala

1.3.3. Central Cluster Package 03

Table 3 Roads in Central Cluster Package Three

No	Reference	District	Category	Road Name	Total Length (Kms)
1	Rd-1	Ernakulam	MDR	Mookannoor Ezhattumugham Rd ch 0/000 to 14/200 and Blachippara Palissery Rd ch 0/000 to 6/000 (Model/ Pilot Road)	19.95
2	Rd-2	Ernakulam	MDR	Kakkadassery - Kaliyar road Ch. 0/000 to 20/000	20.18
3	Rd-3	Ernakulam	SH-43	Muvattupuzha - Theni SH (Ch. 0/000 to 15/750)	16.18
4	Rd-4	Ernakulam	MDR	Kumarakom Nedumbassery (proposed SH) from Peruva to Peruvammuzhi	21.4
5	Rd-5	Idukki	MDR	Neyyassery Thokkumbansaddle road	31.92
6	Rd-6	Palakkad	MDR	Nenmara - Nellyampathy road km 0/00 to 30/714	30.47
7	Rd-7	Thrissur	SH-22	Kodungallur- shornur SH (SH 22) (Model/ Pilot Road)	34.35
8	Rd-8	Thrissur	SH-74	Vazhakkodu Plazhy road Km.0/000 to 22/642	22.72
9	Rd-9	Thrissur	SH-69	Thrissur Kuttippuram Road (SH 69) 4 stretches (Many stretches in between in progress by other agency KIIFB)	33.24
10	Rd-10	Ernakulam	MDR	Arakunnam-Amballoor-Poothatta-Piravam Road (Additional Road Added)	7.98
Total Length of Roads (Kms)					238.39

Source: Government of Kerala

1.3.4. South Cluster Package 04

Table 4 Roads in South Cluster Package Four

No	Reference	District	Category	Road Name	Total Length (Kms)
1	Rd-1	Kottayam	MDR	Gandhinagar-Medical College-Babu Chazhikadan Road- Kottayam-Parippu Road- Athirampuzha Liessue-Kaippuzha- Mannanam-Pulikkuttissery-Parolickal-Muttappally Road	20.20
2	Rd-2	Kottayam	MDR	Vadayar Chandappalam- Mulakkulam Road and Vadayar Kallattippalam Muttuchira Road	22.48
3	Rd-3	Pathanamthitta	MDR	Pathanamthitta Ayroor-Muttukudukka illathupadi - Muttukudukka prakkanam - Parakkanam Elavumathitta - Kulanada Ramanchira - Thanikkuzhy Thonnamala	28.20
4	Rd-4	Pathanamthitta	MDR	Mallapally, Komalam Paduthodu Kalloopara Chengaroor Komalam Kavungumprayar Pattakala, TMV road	23.13
5	Rd-5	Pathanamthitta	MDR	Malamekkara Kunnathukala Chala Puthenchanda factory Jn Azad Jn road 0/00 to 8/600	7.87
6	Rd-6	Thiruvananthapuram	SH	Thiruvananthapuram Ponmudi road (From Nedumangad to Ponmudi)	41.75
7	Rd-7	Alappuzha	SH/MDR	Thattararnbalam-Michael Junction-Kochalumood-Mangankuzhy-Pandalam	18.66
8	Rd-8	Alappuzha	MDR	Veeyapuram-Edathua-Puthukarry-Marnbuzhakkary-Kidangara- Kunnamgary- Kumarangary-Valady-Mullakarthuruthy	21.45
9	Rd-9	Pathanamthitta	MDR	Vayuttupuzha-Potheppad Road	35
Total Length of Roads (Kms)					218.64

Source: Government of Kerala

1.3.5. Supervision Consultants/ Authority's Engineer

In addition to the total 29 road contracts for these aforementioned packages, the Government of Kerala has also initiated the procurement for Authority's Engineers for the northern packages (as the contracts for the road contractors are on EPC Mode), as well as Supervision Consultants for the central and south packages (as the contracts for the road contractors are on Item Rate Mode), as per the following:

- For North Package 01, Agreement has been signed with M/s. MSV International Inc. JV M/s.JSV Associates Engineers Pvt.Ltd on 17th Mar'2021.
- For North Package 02, M/s Egis India Consulting Engineer Pvt.Ltd. In JV with Orion Infra consulting Pvt.Ltd has been selected as AE 01
- Bids of Supervision Consultants for Central package 03 and South Package 04 has been opened on 19th Feb'21. FBER submitted to KfW on 26th Apr'21.

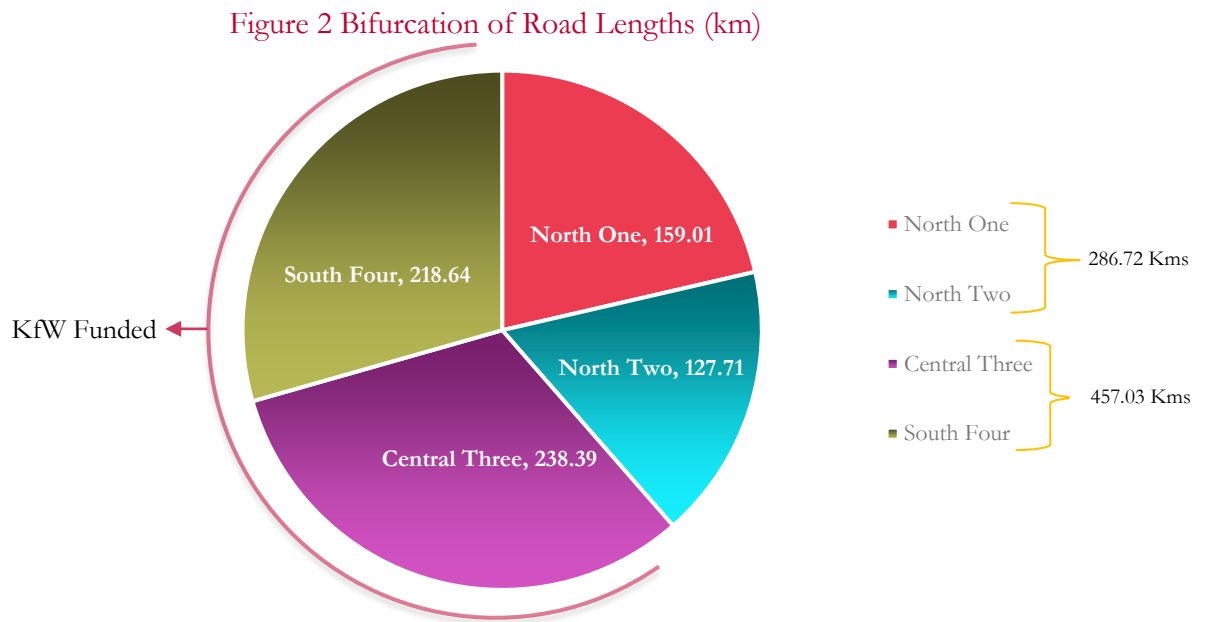
Table 5 Supervision Consultants and Authority's Engineer

No	Contract Name	Package	Awarded to
1	Consulting Services for Construction Supervision for Climate Resilient Reconstruction after Flooding in Kerala	3 & 4	Draft agreement received from KfW on 27 th April'21
2	Consultancy Services For Authority's Engineer For Supervision Of 'Rehabilitation &Upgrading the State Highways & Major District Roads, having varying width, by Climatic Resilient Reconstruction, 6 roads in the Northern Districts of Kannur, Kasaragod, Kozhikode & Wayanad of Kerala State under Rebuild Kerala Initiative' on EPC.	1	M/s. MSV International Inc. JV M/s.JSV Associates Engineers Pvt.Ltd
3	Selection of Consulting Services for Authority's Engineer for Supervision of 'Rehabilitation &Upgrading the State Highways & Major District Roads, having varying width, by Climatic Resilient Reconstruction, 4 roads in the Northern Districts of Malappuram & Palakkad of Kerala State) under Rebuild Kerala Initiative'	2	M/s Egis India Consulting Engineer Pvt.Ltd. In JV with Orion Infra consulting Pvt.Ltd

Source: Government of Kerala

1.3.6. Overall Package Specifics

With total road contracts numbering 29 (10 north, 10 central and 9 south), with 743.75 km (KfW 456.78 and World Bank 286.72Kms), an overview of the roads from a pan Kerala perspective is provided below as part of Figure 2. These numbers are provisional, and subject to be updated, as the contracts for these road packages are awarded.:



Source: Government of Kerala, Louis Berger Analysis

2. Key Data Page

Client	Project Executing Agency – PWD of Kerala Project Management Unit- Kerala State Transport Project	
External Financier 01	World Bank	
External Financier 02	Kfw (Germany)	
Long Term Consultant	Louis Berger Consulting Pvt. Ltd., India JV with The Louis Berger Group, Inc., USA”	
Report Title & No.	Monthly Progress Report	No :7
Report Duration	1-April-2021 to 30-April-2021	
Date of Agreement	14-Aug-2020	
Date of Commencement	18-Aug-2020	
Duration of Contract	42 Months	

3. Project Cockpit

3.1. Objectives of Project Partners

The project Cockpit aims at improving the management of construction processes and at supporting the communication among its various participants. The method is based on the minimization of waste during the whole process. The result will be a methodology integrated into an IT solution, with the aim of:

Allowing for real-time progress monitoring, used to update process modelling and scheduling, so as to meet real conditions on-site which is divided into three matrices, namely:

1. Modelling
2. Scheduling
3. Monitoring

3.2. Project Context

The construction industry comprises of one of the biggest shares of the market for Small and Medium Enterprises (SMEs) in the region. Unfortunately, it is generally plagued by a low productivity rate, bad resource management, frequent delays, and cost overruns.

The main reasons are:

- High fragmentation of the sector, mostly consisting of professional individuals or SMEs.
- High complexity of the final product and high unpredictability of the work environment on a construction site, characterized by unforeseen circumstances and subject to uncontrollable external factors.

These aspects make activity planning difficult, also due to the low degree of digitalization and IT-support in the construction sector. In this setting, a flexible activity planning together with a high level of communication between the stakeholders are needed to promptly adjust the building process, so as to react to possible causes of delays and cost increases.

3.3. Goals

3.3.1. Collaborative Process Modelling

Participation of all the different players involved in the construction project from the very beginning of the planning stage, in order to achieve a more reliable construction process model. The model is supposed to be comprehensive of all relevant process information for execution.

3.3.2. Short-time Scheduling:

Construction schedule for short period of time and periodically revised based on the actual results achieved on the construction site. The schedule is thus flexible and tailored to counteract potential changes of plan or delays due to unforeseeable circumstances.

3.3.3. Real-time Progress Monitoring:

Real-time monitoring aimed to have a constant, instant comparison with the process as planned. The schedule can be then revised based on the progress data, thus allowing an interactive optimization of the construction process

4. Consultant's Activities, Staffing and Time Schedule

4.1. Project Scope

A list of Tasks to be performed by Louis Berger as part of the Project Long Term Consultancy Services is provided below:

Table 6 Consultant's Project Scope

No	Task List
1	PM01 Bid Evaluation Process, Contract Negotiations and Award
2	PM02 Quality Assurance and Control Monitoring
3	PM03 Liaison with Client and Governmental Agencies
4	PM04 Public Information
5	PM05 Project Controls
6	PM06 Contract Management
7	PM07 Financial Management
8	PM08 Claims Management
9	PM09 Change/Variation Management
10	PM10 Risk Management
11	PM11 Document Control
12	PM12 Environmental, Social, Health and Safety Management and Monitoring
13	PM13 Assistance during Defect Liability Period
14	PM14 Steering Accompanying Measures

Source: Louis Berger Analysis, Government of Kerala

4.2. Team Composition

The PMC Project Team led by Mr. Mohan K. Krishnan Poduval is being supported by Key Project Staff and Support Staff as illustrated in the table below:

Table 7 Status of Mobilization

No	Position	Name	Date of Joining	Date of Leaving	Total Planned Man months	Remarks
Key Experts						
1	Team Leader	Mohan K. Krishnan Poduval	18-Aug-2020	-	33	Full Time
2	Senior Cost Surveyor	Shalini Thomas	20-Aug-2020	-	30	Full Time
3	Contract/Procurement Expert	Sanjeev Agarwal	18-Aug-20	08-Sep-2020	33	Full Time
4	Environmental & Social Specialist	AM Reddy	29-Oct-2020	-	30	Full Time
5	Community Liaison Officer	Dilkush K	10-Sep-2020	-	30	Full Time
Non-Key Experts						
6	Materials & Pavement Engineer	Sunil Srivastava	10-Feb-2021	-	16	Full Time
7	Highway Engineer	Ambedkar Chilka	15-Feb-2021	-	20	Full Time
8	Bridge Engineer	S. Prasad	25-Feb-2021	-	16	Full Time
9	Environmental Specialist	V.Manikandhan	01-Apr-2021	-	16	Full Time
10	Planning Engineer	Amrutha	18-Aug-2020	07-Nov-2020	30	Full Time
		Y. Srikanth	8-Nov-2020	-		
11	Accompanying Pool of Experts (Intermittent)		11-Jan-2021		20	Intermittent
Supporting Staff						
12	Document Controller	Kishore Nair	24-Sep-2020	-	30	Full Time
13	Accountant	Balu V	23-Nov-2020	-	30	Full Time

Source: Louis Berger Analysis

4.3. Organization of meetings

Meetings organized and attended by Long term PMC is listed below

Table 8 Event Dairy

S.No	Event	Date & Location	Agenda
1	Meeting with Chief Engineer KSTP	Date :12th Apr'21 Location : KSTP	Discussion on M&E framework and financing agreement
2	Meeting with Finance Manager	Date : 17 th Apr'21 Location: KSTP	Discussion regarding financing plan
2	Meeting with Chief Engineer KSTP	Date : 22 nd Apr'21 Location: KSTP	Discussion on Financing agreement and disbursement procedures

4.4. Table of Correspondences

Table 9 List of Outward Correspondences in April'21

Sr. No	Letter No.	Date	Addressed To	Reference	Subject
1	4800221-Contracts-AE-1/07	03-Apr-21	KSTP	Egis India/HIO/KSTP-II/68175/2021 dt 23.03.2021	Replacement of Asst. Resident Engineer -3 of Authority Engineer - 1
2	4800221-GGN-OC-99	03-Apr-21	CE KSTP	Financial Evaluation Report PKG III R 3	PKG III R 3 - Submission of Financial Evaluation of Bids
3	4800221-GGN-OC-100	07-Apr-21	CE KSTP	OC 90 dt 12.03.2021	PKG III R 4: Submission of Financial Evaluation of Bids
4	4800221-GGN-OC-101	09-Apr-21	CE KSTP	Bid document and Five bids	Pkg III R2 Kakkadassery - Kaliyar : Submission of Technical Evaluation of Bids
5	4800221-GGN-OC-102	09-Apr-21	CE KSTP	KSTP/227/2020-AE9 dt 23.03.2021	Intimation on Joining of Environmental Specialist : Mr. Manikandan V
6	4800221-GGN-OC-103	13-Apr-21	CE KSTP	OC 91 dt18.03.2021 OC 82 dt24.02.2021 OC 63 dt18.01.2021 OC 51 dt22.12.2020	Reminder for Payment of Mobilization Advance
7	4800221-GGN-OC-104	15-Apr-21	CE KSTP	OC 85 dt04.03.2021 OC 79 dt18.02.2021 OC 47 dt11.12.2020	Submission of Contract/ Procurement Expert (K4) Mr. Pappu Srinivasa Rao
8	4800221-GGN-OC-105	20-Apr-21	CE KSTP	KSTP/J821/2019-EE-Part(4) dt 18.08.2020	Submission of Quarterly Progress Report (January 2021 to March 2021)
9	4800221-GGN-OC-106	20-Apr-21	CE KSTP	OC 56 dt02.01.2021 OC 14 dt23.09.2020 OC 71 dt02.02.2021 KSTP/J821/2019-EE-Part(4) dt 18.08.2020	Role of PMC for Northern World Bank Package and Southern & Central KFW Packages
10	4800221-GGN-OC-107	20-Apr-21	CE KSTP	OC 30 dt06.11.2020 OC 74 dt05.02.2021 OC 75 dt05.02.2021 OC 104 dt15.04.2021 OC 71 dt28.01.2021 KSTP/J821/2019-EE-Part(4) dt 18.08.2020	Approval of CV's of Key Experts
11	4800221-GGN-OC-108	21-Apr-21	CE KSTP	Bid document and Four bids	Pkg IV R 2 Vadayar - Muttuchira : Submission of Technical Evaluation Report
12	4800221-GGN-OC-109	22-Apr-21	CE KSTP	Order issued by Government of Kerala	Notice of Force Majeure Under General Conditions Clause 4.5.1 of the Agreement
13	4800221-GGN-OC-110	27-Apr-21	CE KSTP	OC 93 dt19.03.2021 328/ KSTP/PMT/PWD/2020 dt14.08.2020	Renewed Professional Indemnity Insurance
14	4800221-GGN-OC-111	28-Apr-21	CE KSTP	Bid Documents and Four bids	PKG III R2 Kakkadassery - Kaliyar : Submission of Financial Bid Evaluation Report
15	4800221-GGN-OC-112	28-Apr-21	CE KSTP	KSTP/J821/2019-EE-P(4) dt18/08/2020	Submission of Monthly Progress Report for March 2021
16	4800221-Contracts-RKI-09/10	15-Apr-21	KSTP	KSTP/359/2020/AE7 dt 28.01.2021 ULCCS-EVRASCON/ENGG/8787/2020-21 dt01.02.2021 ULCCS-EVRASCON/ENGG/8787/2020-21 dt25.02.2021	Remarks on Proposal to Postpone the appointed date
17	4800221-Contracts-RKI-14/01	09-Apr-21	KSTP	SDC/KOZ/2021/03 dt 23.02.2021	Submission of Proposal for Road Safety Consultant
18	4800221-Contracts-RKI-14/02	09-Apr-21	KSTP	SDC/KOZ/2021/02 dt 23.02.2021	Submission of Proposal for Design Director
19	4800221-Contracts-RKI-14/03	20-Apr-21	KSTP	SDC/KOZ/2021/04 dt 23.02.2021	Submission of Proposal for Proof Consultant

Table 10 Inward Correspondences April'21

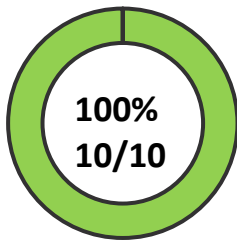
S.NO	Received On	From	Lette No	Subject/Particulars
1	15-Apr-21	KSTP	KSTP/PMT/128/2020-(part-2)/AE-2	Replacement for Senior Quantity Surveyor and ARE-3
2	15-Apr-21	EGIS - TL	email	Approval of Variation 1
3	22-Apr-21	KSTP	email	Disbursement format of SDP and SOE
4	08-Apr-21	KMC - Karthik	email - KMC/KSTP/Pkg-5/2020-21/017	Request for revision/modification of Schedule H - for approval
5	09-Apr-21	egis - TL	email	Incoming letters from RKI 5
7	21-Apr-21	KFW	email- KFW Letter	No objection to the Prequalification Documents for Consulting Services Services for Technical Assistance for Enhancing Climate Resilience of Keralas Road
8	22-Apr-21	KSTP- By hand	email	Vulnerability Assessment - Evaluation Report of EOI
9	03-Apr-21	KFW-KORNEL	email - KFW Letter	PKG III R1 & PKG IV R7 - No objection to the Final Draft Contract for the Tender Packages
10	07-Apr-21	KSTP - AE	email	PKG III R4 Kumarakom -Nedumpassery Road : Financial Bid Opening
11	07-Apr-21	KFW-JAN	email	Disbursement KSTP in 04/2021
12	07-Apr-21	KSTP	email- 79/2015/AE-9/KSTP-PMT	Distribution of Works in PMT
13	08-Apr-21	KFW-JAN	email	KFW KSTP Project Kerala Preparation of Withdrawal Application
14	08-Apr-21	KFW-JAN	email	KFW KSTP Project Kerala Preparation of Withdrawal Application for PMC services(reimbursement procedure)
15	15-Apr-21	KFW - Kornel	email- KFW Letter	No objection Letter TBER Supervision Consultant
16	15-Apr-21	KFW - Kornel	email- KFW Letter	No objection Letter Package IV Road 1
17	19-Apr-21	KFW - Kornel	email	PKG III R4 Kumarakom -Nedumpassery Road : Financial Evaluation Report -Signed Copy
18	20-Apr-21	KFW - Kiran	email	RE: KFW KSTP Project Preparation of Withdrawel Application
19	20-Apr-21	Epista- Vijay	email	RE: KFW KSTP Road to be Financed with KFW resources PKG IV R6 : Feedback from KFW
20	21-Apr-21	KFW - Kiran	email	Important process to share the withdrawal Application with CAAA
21	22-Apr-21	KFW-JAN	email	RKI - Supervision Consultant - FBER
22	22-Apr-21	KFW-JAN	email	ESIA and FDPR - Road 6 Pkg - III
23	23-Apr-21	Michel - ICE	email	RKI - Supervision Consultant - FBER
24	23-Apr-21	KSTP	email	PKG III R2 Kakkadassery-Kaliyur : Financial Bid opening
25	26-Apr-21	KFW-JAN	email	KFW Kerala Road Swap of Roads to be financed with KFW resources
26	28-Apr-21	KFW-Kornel	email- KFW Letter	No objection Letter - Supervision Consultant - FBER

5. Progress of Construction

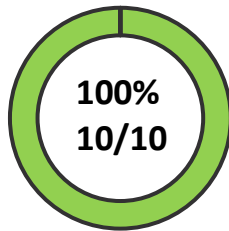
List of the Consultant(s) and Contractors incl. brief description of each Contractor’s tasks, contract volume and results, appendices:

- Status of tenders published, Contractors finalized and Construction progress of all the packages are Shown below:

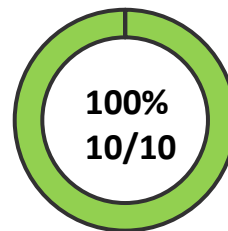
North Package 01 & 02 (Funded by World Bank)



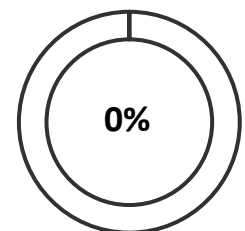
Tenders Published



Tenders Opened



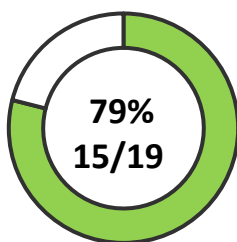
Contracts Awarded



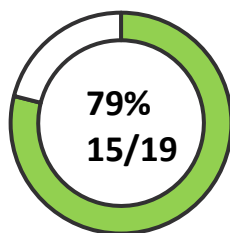
Construction Progress

- In North Packages, all the contracts has been awarded and execution of drains and culverts are in progress
- M/s. MSV International Inc. JV M/s.JSV Associates Engineers Pvt.Ltd has been appointed as Authority Engineer 02 for North Package 01 and agreement has been signed on 17th Mar'21 and commencement date of services is 10th April'21.

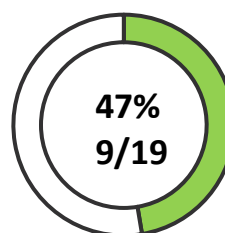
Central Package 03 & South Package 04 (Funded by KfW)



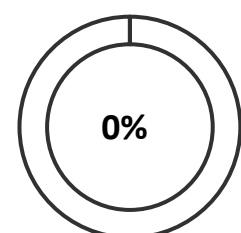
Tenders Published



Tenders Opened



Contracts Awarded



Construction Progress

- In Central Package 03, 2 roads (Rd-1,4,7) LOA has been issued, Rd 07 agreement has been signed and advance of Rs.9.73 Cr has been released to contractor , 6 roads (Rd-2,Rd-3,Rd - 8,Rd-9,Rd-10) are in evaluation stage and 2 roads (Rd-5,Rd-6) are in DPR approval stage.
- In South Package 04, 6 roads (Rd-1,Rd-3,Rd-4,Rd-5,Rd-7 & Rd-8) LOA has been issued, 5 Roads (Rd 3,4,5,7,8)Agreement signed and advance of Rs.4.92 Cr has been issued to Rd 4, 1 road (Rd-2) in tender evaluation stage and 2 road (Rd-6 & Rd-9) are in DPR approval stage

5.1. Status of North Package 01 & 02

Table 11 Status of North Package 01 & 02

Procurement Status of North Package 01 & 02 funded by World bank under EPC Mode												
S.No	Package	Road Ref No	Description	District	Length (Kms)	Duration	Maintenance Period	Agreement Date	Contract Amount in INR Crores	Appointed Date	Contractor	Status
1	Package 01	RKI-10	Mananthavady - Vimalanagar - Kulathada - Valad HS - Periya road between km2/500 to 27/300 in Wayanad District	Wayanad	27.3	18	60	28-Oct-20	107.45	29-Dec-20	M/s ULCCS	* Mobilization advance of Rs.2.06 Cr has been issued to the Contractor * Site Installation and Survey Works are in progress
2		RKI-11	Edoor – Companynirath - Anapanthy - Angadikkadavu- Vaniyappara - Charal - Valavupara - Kacherikkadavu - Palathumkadav road	Kannur	24.45	18	60	28-Oct-20	136.21	21-Dec-20	M/s RDS Projects	* Mobilization advance of Rs.5.60 Cr has been issued to the Contractor ** Site Installation and Survey Works are in progress
3		RKI-12	Uruvachal Manakkayi valayal (including bridge pallel to aqueduct at valayal)-Keezhallur Therur Palayod-Vellaparamba Karimbala Colony Maruthaayi Road	Kannur	18.46	18	60	14-Dec-20	100.42	TBN	M/s EPIL	*Survey Works are in progress
4		RKI-13	Kumbla- Badiadka-Mulleria Road	Kasargod	29.14	24	60	14-Dec-20	167.99	21-Jan-21	M/s RDS Projects	* Mobilization advance of Rs.3.18 Cr has been issued to the Contractor *Site Installation and Survey Works are in progress
5		RKI-14	Koyilandy Thamrassery Mukkam Areekode Edavanna road	Kozikode	46.32	24	60	16-Feb-21	221.065	TBN	M/s. Sreedhanya Construction Company	* Mobilization advance of Rs.4.42 Cr has been issued to the Contractor *Site Installation and Survey Works are in progress
6		RKI-15	Vythiri-Tharuvana road	Wayanad	13.335	16	60	10-Mar-21	63.9	TBN	M/s. Midland Engineering and Contracting Company	*Site Installation and Survey Works are in progress
7	Package 02	RKI-5	Perumbilavu-Nilambur Road B/W Km30/700 to 42/780 and 50/000 to 62/320 including upgradation of 53/000 to 54/000, 54/000 to 54/800 and 56/000 to 57/200.	Mallapuram	30.88	18	60	07-Oct-20	144	20-Jan-21	M/s KMC Constructions	*Plan & Profile for 9Kms (39+000 to 48+000) approved *Traffic survey completed * Road Excavation,Side drains and culvert works are in progress
8		RKI-6	Koyilandy - Edavanna road between Km 51/200 to 69/700 & Areekode - Manjeri road Km 0/000 to 13/600	Mallapuram	31.53	18	60	08-Oct-20	189.76	23-Nov-20	M/s Shreedanya Construction Company	* Mobilization advance of Rs.9.48 Cr has been issued to the Contractors *Reconstruction of Culverts in Progress *Traffic Survey Completed
9		RKI-7	Palakkad -Perinthalmanna Road (Mundur Junction to Thootha Junction of SH-53 from Km 12/800 to Km 49/600)	Palakkad	36.8	24	60	13-Nov-20	323.10	27-Jan-21	M/s KMC Constructions	*Plan & Profile of 10Kms approved *Culvert,Retaining wall and drain drawings review in progress *Road excavation,drain excavation and culvert widening works are in progress *Traffic Survey Completed
10		RKI-8	Thavalam Mully Road CH 0/000 to 28/800	Palakkad	28.5	18	60	28-Oct-20	132.8	23-Nov-20	M/s Akshya Builder JV EKK	* Mobilization advance of Rs.6.64 Cr has been issued to the Contractor * Plan & profile CH 0+450 to 9+990Kms approved *RCC drain drawings approved with comments * Road excavation works are in progress
Total Length of North Package 1 & 2 (Kms)					286.72							

5.2. Authority Engineer:

5.2.1. Authority Engineer 01:

- ❖ M/s Egis India Consulting Engineer Pvt.Ltd. In JV with Orion Infra consulting Pvt.Ltd has been awarded the supervision works of North Package 02.

Key Personnel Mobilization of Authority Engineer 01 are presented in the below table

Table 12 AE 01 Key Personnel Mobilization

S.No	Position	Name of the Person
1	Team Leader	Ramana Rao Bhogati
2	Resident Engineer cum Pavement Specialist Road safety Expert	P.N. Sasikumar
3	Assistant Resident Engineer 1	Desireddy Pavan K Reddy
4	Assistant Resident Engineer 2	Jailabdeen
5	Assistant Resident Engineer 3	Sanu Soman
6	Assistant Resident Engineer 4	
7	Road Safety Expert	Bala Uttam
8	Sr. Contract Specialist	Kota Srinivasa Sastry
9	Highway Design Specialist	Nirupam Singh
10	Bridge Design Specialist	Rashid Najfi
11	Senior Quantity Surveyor	
12	Bridge/Structural Engineer	Vijil k Arjun
13	Material Engineer	Saji Mon
14	Environmental Specialist	Hari Shankar Prasad
15	Health & Safety Engineer	Durga Kiran Kotra
16	Labour / Social Specialist	Ravindra

5.2.2. Authority Engineer 02:

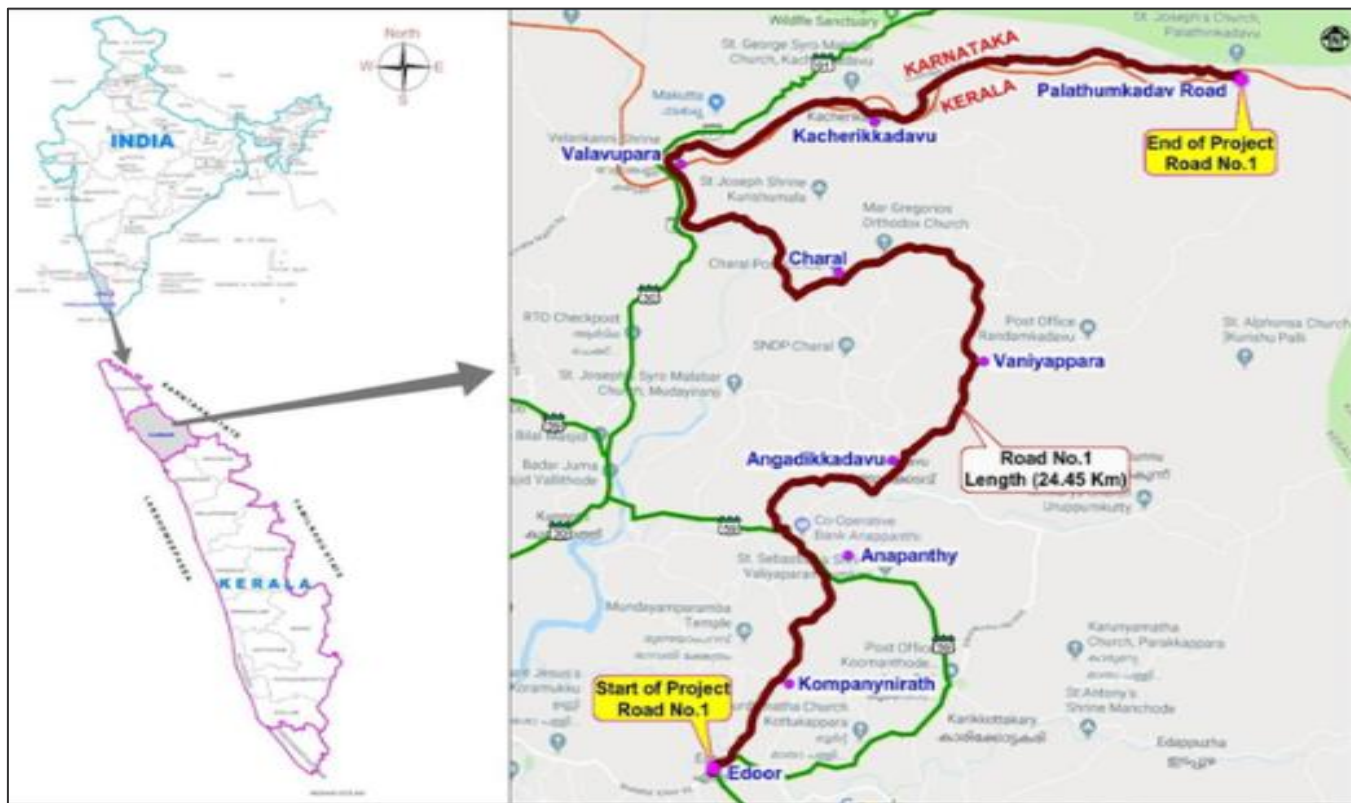
- ❖ M/s. MSV International Inc. JV M/s.JSV Associates Engineers Pvt.Ltd has been appointed as Authority Engineer 02 for North Package 01 and agreement has been signed on 17th Mar'21 and commencement date of services is 10th Apr'2021.

Sl No	Name	Designation	Actual Date of Mobilization	Remarks
Key Professional				
1	R Jethindra Gowd	Team Leader cum Senior Highway Engineer	10-April-2021	Full Time
2	G Thayalan	Senior Quality cum Material Expert	10-April-2021	Full Time
3	T.P. Rama Rao	Senior Contract Specialist	20-April-2021	Intermediate Input
4	Nino Alex Kaleeckal	Assistant Resident Engineer	30-April-2021	Full Time
Support Staff				
1	Hariharan KV	Office Manager	16-April-2021	Full Time
2	Manas Chandra Sahoo	Accountant cum Cashier	16-April-2021	Full Time
3	Krepalu.P	Steno Computer cum Operator-1	16-April-2021	Full Time
4	Sharvin T	Steno Computer cum Operator-2	24-April-2021	Full Time
5	Kavitha M	Office Boy-1	16-April-2021	Full Time

North Package 01:

- 1) RKI-11: Edoor – Companynirath - Anapanthy- Angadikkadavu– Vaniyappara - Charal - Valavupara - Kacherikkadavu - Palathumkadav road (MDR Road from Km 0+000 to Km 24+450).

The project alignment and the major towns/ villages along the project road are presented below.



The project highway consists of Edoor – Companynirath – Anapanthy - Angadikkadavu–Vaniyappara - Charal - Valavupara - Kacherikkadavu - Palathumkadav road section of MDR from Km 0+000 to 24+45 for the length of 24.45km. The project stretch is predominantly a 2-lane road with/without the paved shoulder. The terrain is plain to rolling Ribbon development observed all along the stretch. Land use is agricultural, and the riding quality is fair. Built-up areas are predominant along the entire stretch, since MDR is arterial road, the traffic predominantly consist of cars, but local movements of 2 wheelers and auto were observed. Hence traffic diversion during construction is a key factor

Salient features of the project:

S.No	Description of Item	Quantity
1	The Total Length of Road proposed	24.246 km
1.1	MDR	24.246 km.
2	Carriageway width	5.5m – 7m
2.1	2 Lane with Paved Shoulders	0.48km
2.2	2 Lane	3.415km

2.3	Intermediate lane with Earthen Shoulders	20.351km
3	Road Side Drain (Both side- Total)	
3.1	RCC Cover Drain	6.965km
3.2	RCC Open Drain	7.131km
3.3	RCC Trapezoidal Drain	25.325km
3.4	Existing Drain Utilization	2.645km
4	Major Bridges	Nil
5.0	Minor Bridges	9nos.
5.1	Reconstruction	Nil
5.2	Widening	Nil
5.3	Retained and Repiars	9nos.
6	Culverts	
6.1	Reconstructions: Pipe Culverts to Pipe Culverts	Nil
6.2	Reconstructions: Pipe Culverts to Box Culverts	Nil
6.3	Reconstructions: Slab Culverts to Box Culverts	47 Nos.
6.4	New Construction: Box Culverts	Nil
6.5	Retaining & Repair Culverts	37 Nos.
6.6	Additional New Box Culverts	5 Nos.
6.7	New Pipe Culverts at Cross Road Locations	50 Nos.
7	Bus Bays & Bus Shelters	19 Nos.
8	Crash Barrier	0.94 Km
9	Pedestrian Guard Rail	6.965 Km
10	Major Junctions	4 Nos.
11	Minor Junctions	46 Nos.
12	Retaining wall	1.901km
13	Breast Wall	3.756km
14	Hill Slope Protection	2.476km
15	Foot Path Both sides	6.965 km

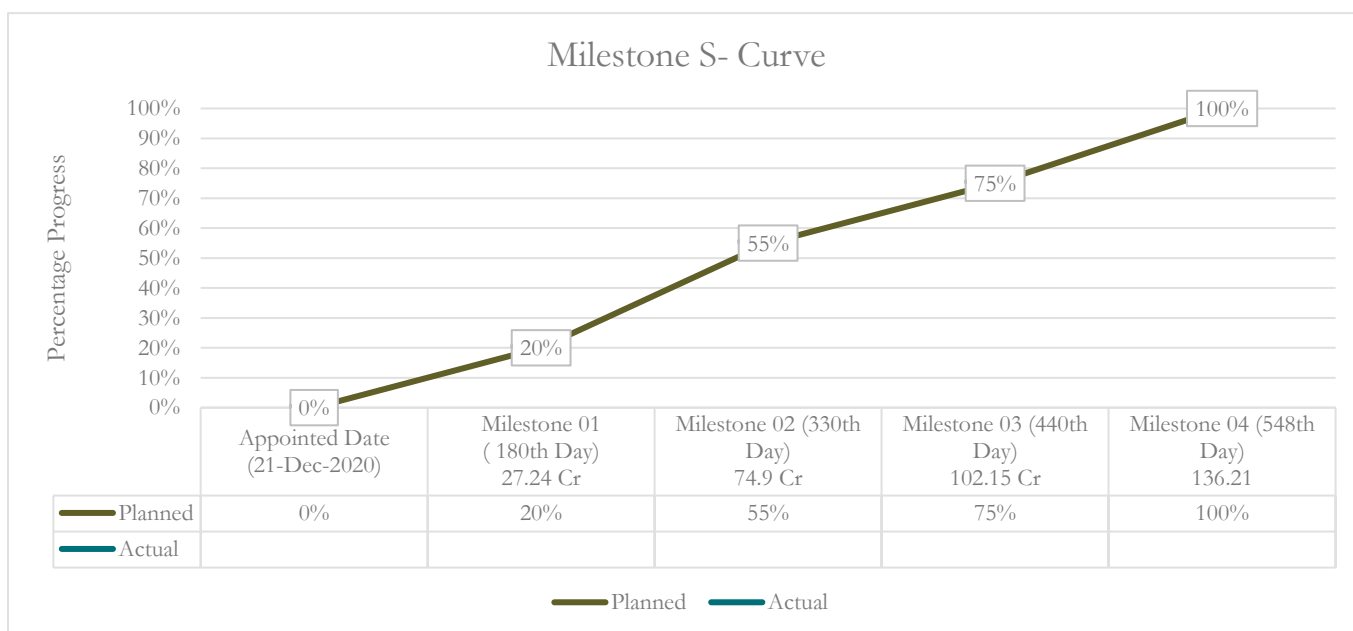
Name of the contractor	Duration in Months	Contract Value in Crores	Appointed Date	Original Date of Completion
M/s RDS Projects Ltd	18	136.21	21-Dec-2020	22-June-2022

Status as on 30th Apr '2021:

- ❖ Site installation and survey works are in progress
- ❖ Mobilization advance of Rs.5.60 Cr has been issued to the contractor in two instalments)

Milestone Schedule:

Project Milestone	Description (Days from Appointed Date)	Financial Progress		Milestone Date		EOT (If any)	Remarks
		Planned Financial Progress %age	Actual Financial Progress %age	Scheduled Date	Actual Date		
Milestone I	180	20%	-	19-Jun-2021	-	-	
Milestone II	330	55%	-	16-Nov-2021	-		
Milestone III	440	75%	-	06-Mar-2022	-		
Milestone IV	548	100%	-	22-Jun-2022	-		



Bank Guarantee:

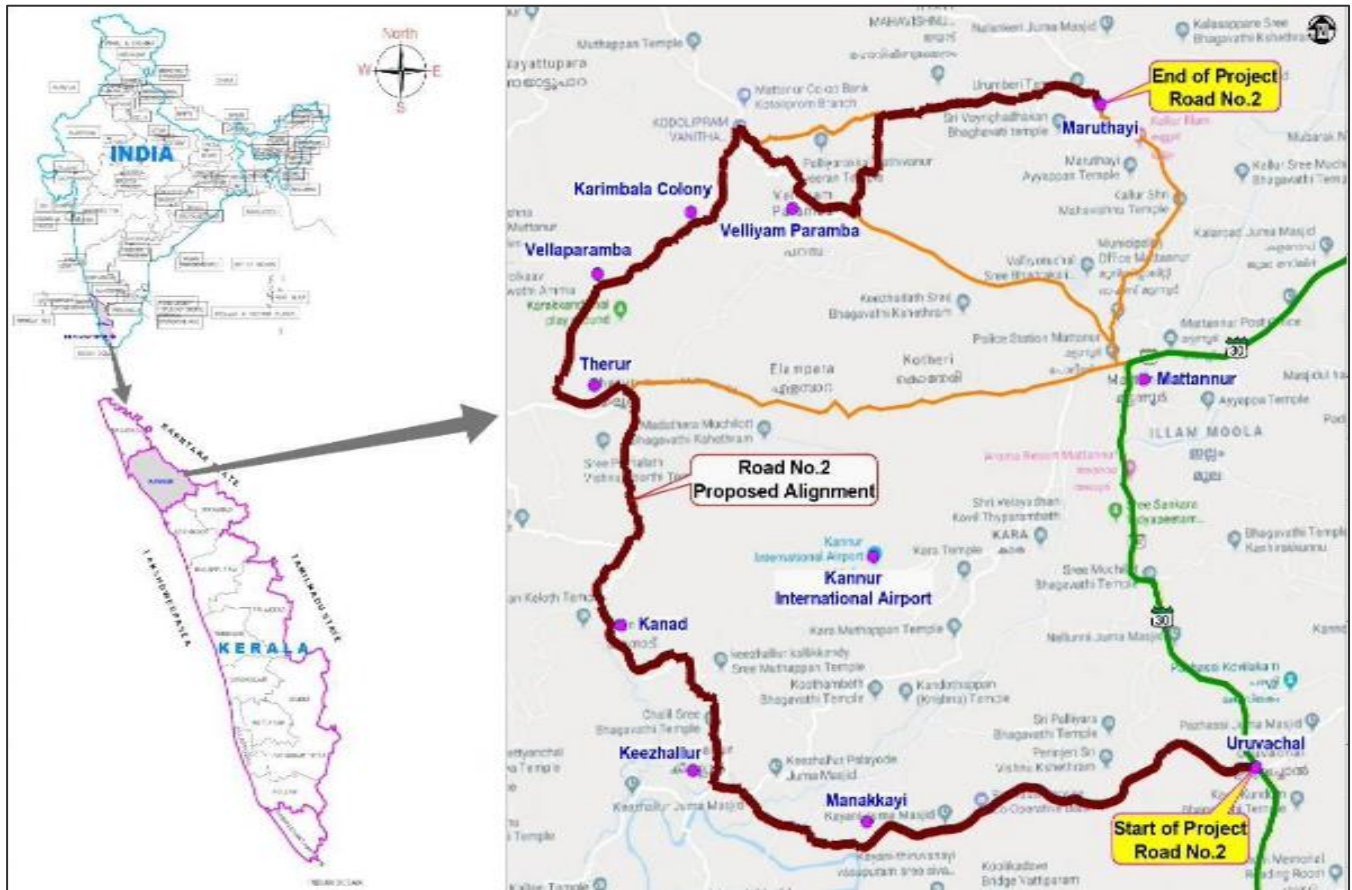
Bank Guarantee details are presented below

Table 13 Bank Guarantee RKI 11

S.No	Description	Bank GuaranteeNo.	Value of Bank Guarantee (CR)	Valid		Remarks
				From	To	
1	Bank guarantee Against Performance Security	BG/27/2020-21	8.23	23/10/2020	25/04/2028	Kerala State Co-operative Bank
2	Bank guarantee Against Environmental, Social, Health and Safety (ESHS)	BG/28/2020-21	2.05	23/10/2020	25/04/2028	Kerala State Co-operative Bank

2) RKI-12: Upgrading Uruvachal-Manakkai-Valayal, Kezhallur Therur-Palayod, Vallaparamba-Karimbala Colony- Kodolipram & Cholakkari-Nerammal- Maruthaayi road in Kannur district.

The project alignment and the major towns/ villages along the project road are presented below.



The Project starts at Uruvachal Junction and ends at Marythaayi Road Junction. The project stretch is predominantly Single Lane / Intermediate Lane / Two Lane road with/without the paved shoulder. The condition and the riding quality of the road is fair to poor. The terrain is plain to rolling Ribbon development observed all along the stretch. Land use is agricultural. Out of 18.46km, 7.785Km is built up Location. Since MDR is an important road, which is crossing 1 SH roads and 6 MDR in the Kannur district as well to the Kannur International Airport. The traffic predominantly consists of cars but local movements of 2 wheelers and auto were observed. Hence traffic diversion during construction is the key factor.

Salient features

S.No	Description of Item	Quantity
1	The Total Length of Road proposed	18.46 km
1.1	MDR	18.46 km.
2	Carriageway width	3.5m-7.5m
2.1	2 Lane with Paved Shoulders	Nil
2.2	2 Lane	Nil
2.3	Intermediate lane with Earthen Shoulders	18.46km
3	Road Side Drain (Both side- Total)	
3.1	RCC Cover Drain	10.840km
3.2	RCC Open Drain	24.900km
3.3	RCC Trapezoidal Drain	0.24km
3.4	Existing Drain Utilization	Nil
4	Major Bridges	Nil
5.0	Minor Bridges	3nos.
5.1	Reconstruction	Nil
5.2	Widening	Nil
5.3	Retained and Repairs	3nos.
6	Culverts	
6.1	Reconstructions: Pipe Culverts to Box Culverts	8 Nos.
6.2	Reconstructions: Slab Culverts to Box Culverts	24 Nos.
6.3	Widening: Slab Culverts to Box Culverts	1 No.
6.4	New Construction: Box Culverts	18
6.5	Retaining & Repair Culverts	8 Nos.
6.6	Additional New Box Culverts	5 Nos.
6.7	New Pipe Culverts at Cross Road Locations	52 Nos.
7	Bus Bays & Bus Shelters	16 Nos.
8	Crash Barrier	0.54 Km
9	Pedestrian Guard Rail	As required
10	Major Junctions	7 Nos.
11	Minor Junctions	42 Nos.
12	Retaining wall	1.0901km
13	Breast Wall/Toe Wall	0.190km/0.240km
14	Hill Slope Protection	0.140km
15	Foot Path Both sides	10.840 km

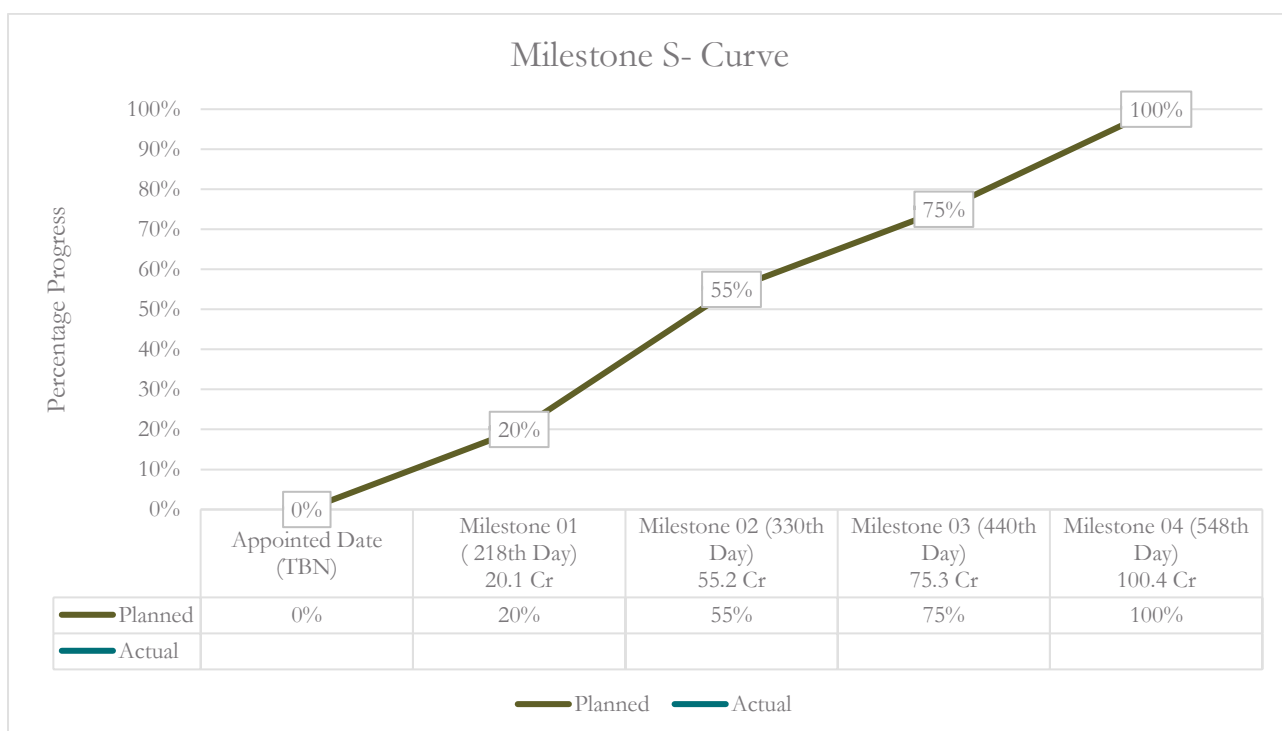
Name of the contractor	Duration in Months	Contract Value in Crores	Appointed Date
M/s Engineering Projects (India) Ltd	18	100.42	To be Notified

Status as on 30th April'21:

- ❖ Inventor survey in progress

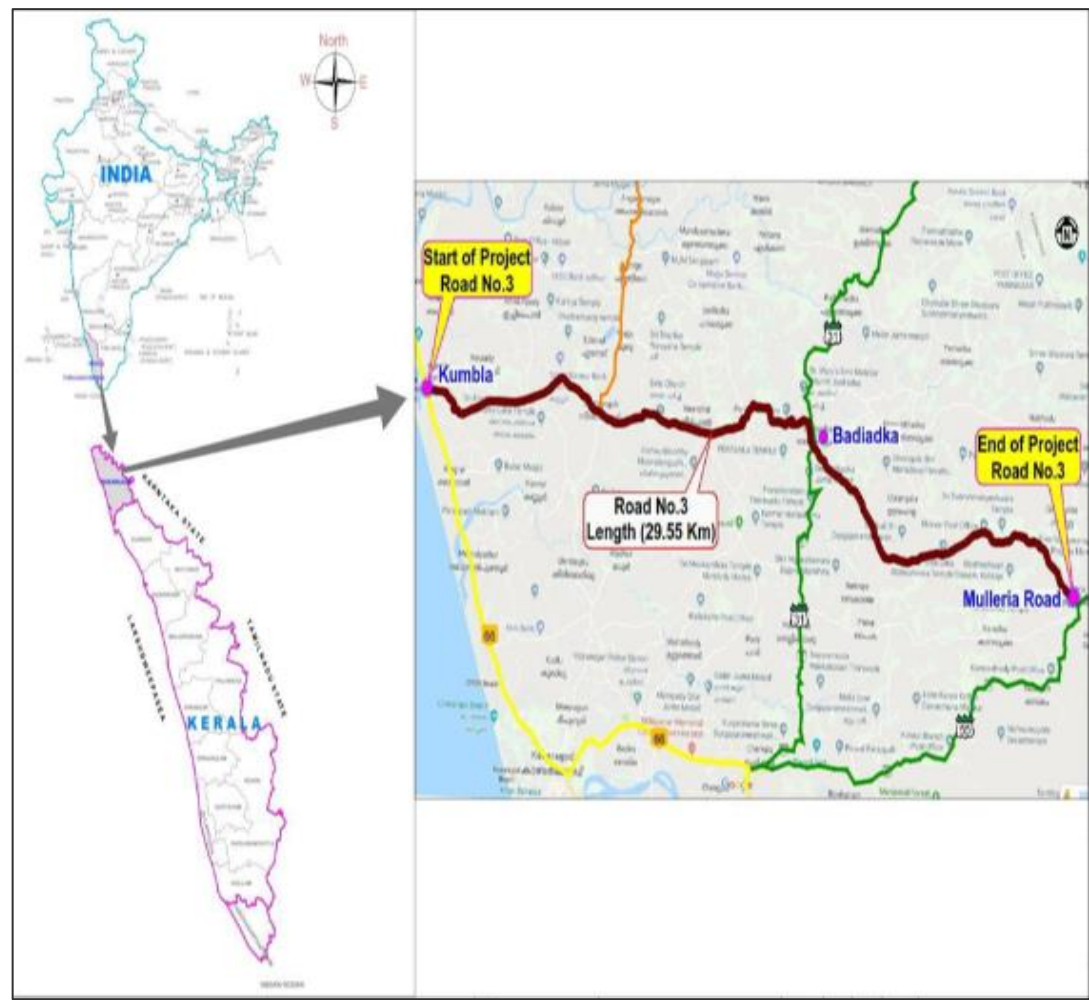
Milestone Schedule

Project Milestone	Description (Days from Appointed Date)	Financial Progress		Milestone Date		EOT (If any)	Remarks
		Planned Financial Progress %age	Actual Financial Progress %age	Scheduled Date	Actual Date		
Milestone I	218	20%	-	Appointed Date yet to be notified	-	-	
Milestone II	330	55%	-		-		
Milestone III	440	75%	-		-		
Milestone IV	548	100%	-		-		



3) RKI- 13: Upgrading Kumbla – Badiadka - Mulleria Road: Km 0+000 (Kumbla) to Km 29+135 (Mulleria) under Re-build Kerala Initiative

The project alignment and the major towns/ villages along the project road are presented below.



The project starts at Kumbla (Ch: 0+000) and ends at Mulleria (Ch: 28+500) in Kasaragode District. The project stretch is predominantly Intermediate Lane / Two Lane road with/without the paved shoulder / Four Lane. The condition and the riding quality of the road is fair. The terrain is plain to rolling Ribbon development observed all along the stretch. Land use is agricultural. Out of 29.135km length, 9.65Km is built up Location. The traffic predominantly consists of Trucks, Buses, cars but local movements of 2 wheelers and auto were observed. Hence traffic diversion during construction is the key factor.

Salient features:

Sl. No:	Description of Item	Quantity
1	The Total Length of Road proposed	29.135 km
1.1	MDR	29.135 km.
2	Carriageway width	5.5m-7m
2.1	4 Lane with Paved Shoulders	1.090Km
2.2	2 Lane with Paved Shoulders	28.045Km
2.3	Intermediate lane with Earthen Shoulders	Nil
3	Road Side Drain (Both side- Total)	
3.1	RCC Cover Drain	9.000km
3.2	RCC Open Drain	4.800km
3.3	RCC Trapezoidal Drain	0.82km
3.4	Existing Drain Utilization	Nil

4	Major Bridges	Nil
5.0	Minor Bridges	4nos.
5.1	Reconstruction	2nos.
5.2	Widening	Nil
5.3	Retained and Repairs	2nos.
6	Culverts	42nos.
6.1	Reconstructions: Pipe Culverts to Box Culverts	6 Nos.
6.2	Reconstructions: Slab Culverts to Box Culverts	25 Nos.
6.3	Widening: Slab Culverts to Box Culverts	5 No.
6.4	New Construction: Box Culverts	1No
6.5	Retaining & Repair Culverts	5 Nos.
6.6	Additional New Box Culverts	Nil
6.7	New Pipe Culverts at Cross Road Locations	59 Nos.
7	Bus Bays & Bus Shelters	16 Nos.
8	Crash Barrier	0.54 Km
9	Pedestrian Guard Rail	As required
10	Major Junctions	7 Nos.
11	Minor Junctions	42 Nos.
12	Retaining wall	1.460km
13	Breast Wall/Toe Wall	2.520km
14	Hill Slope Protection	1.060km
15	Foot Path Both sides	9.000 km

Name of the contractor	Duration in Months	Contract Value in Crores	Appointed Date	Original Completion Date
M/S RDS Project Ltd.	24	168	21-Jan-2021	11-Jan-2023

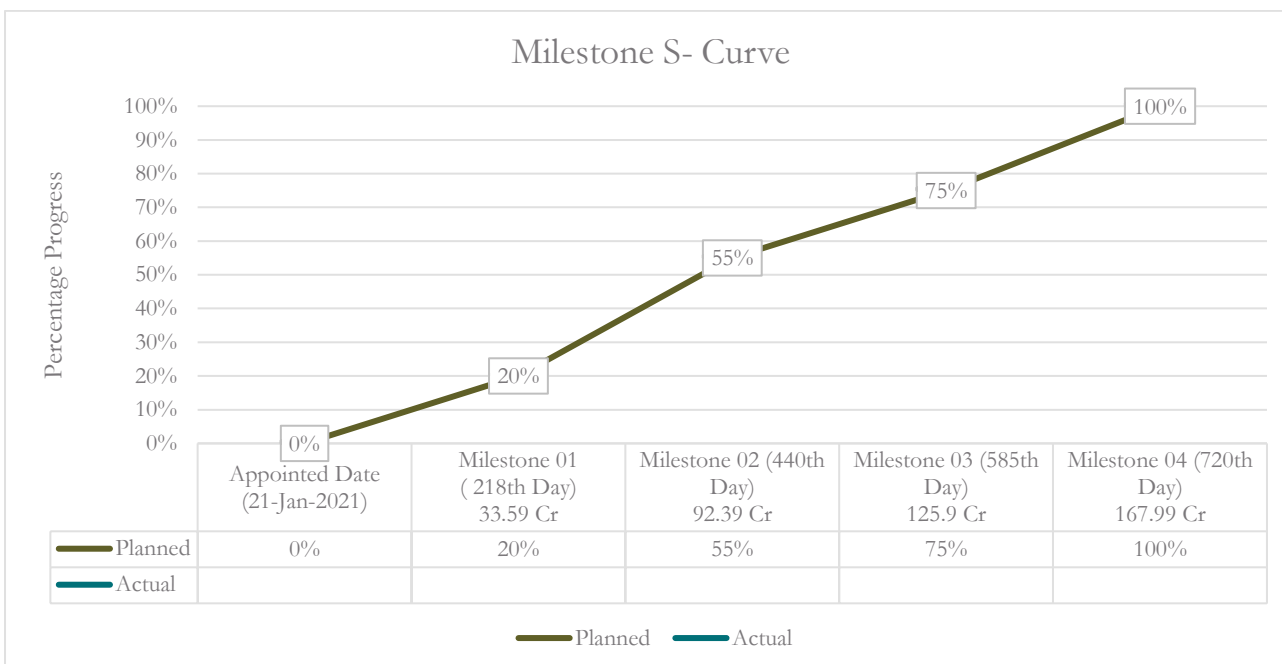
Status as on 30th Apr '2021:

- ❖ Site installation and survey works are in progress
- ❖ First Mobilization advance of Rs.3.18 Cr has been issued to the contract

Milestone Schedule

Project Milestone	Description (Days from Appointed Date)	Financial Progress		Milestone Date		EOT (If any)	Remarks
		Planned Financial Progress %age	Actual Financial Progress %age	Scheduled Date	Actual Date		
Milestone I	218	20%	-	27-Aug-21	-	-	
Milestone II	440	55%	-	06-Apr-22	-		
Milestone III	585	75%	-	29-Aug-22	-		

Milestone IV	720	100%	-	11-Jan-23	-		
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Bank Guarantee:

Bank Guarantee details are presented below

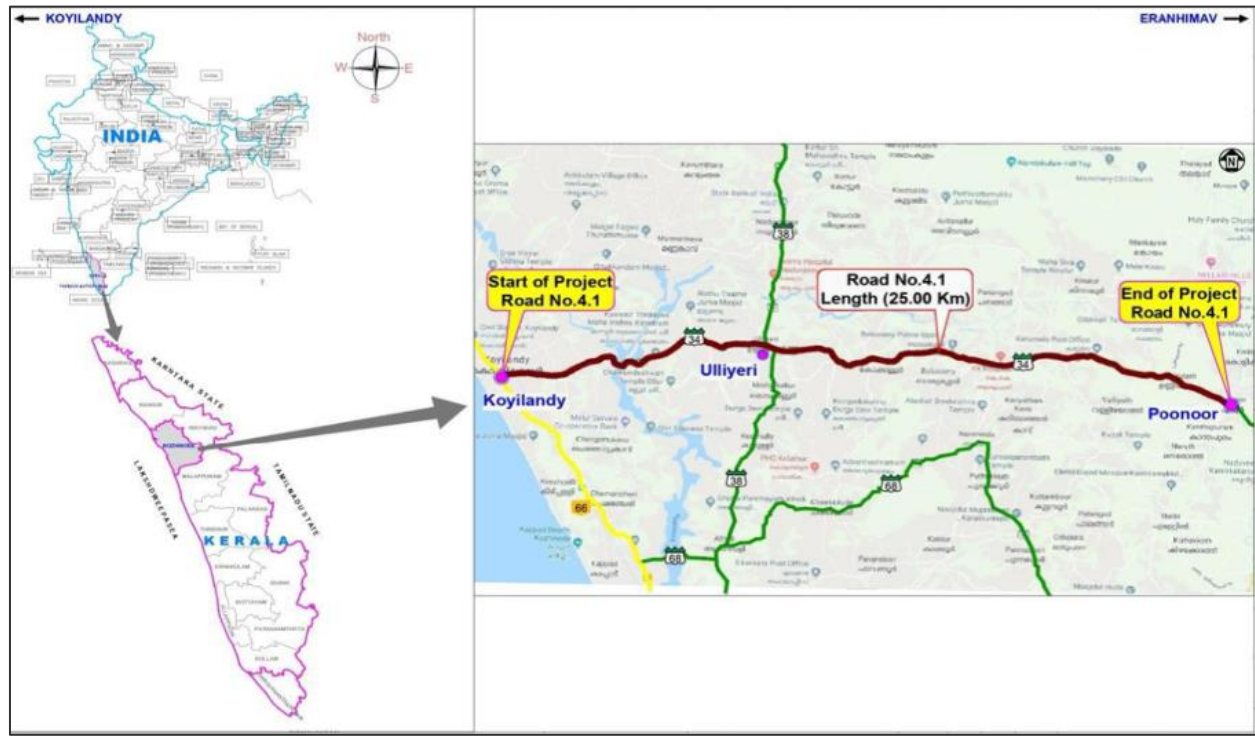
Table 14 Bank Guarantee RKI 13

S.No	Description	Bank GuaranteeNo.	Value of Bank Guarantee (CR)	Valid		Remarks
				From	To	
1	Bank guarantee Against Performance Security	0078IGP001231620	12.7080	21/11/2020	20/02/2023	Bank of Baroda
2	Bank guarantee Against Environmental, Social, Health and Safety (ESHS)	0078IGP001231520	3.1770	21/11/2020	20/02/2023	Bank of Baroda

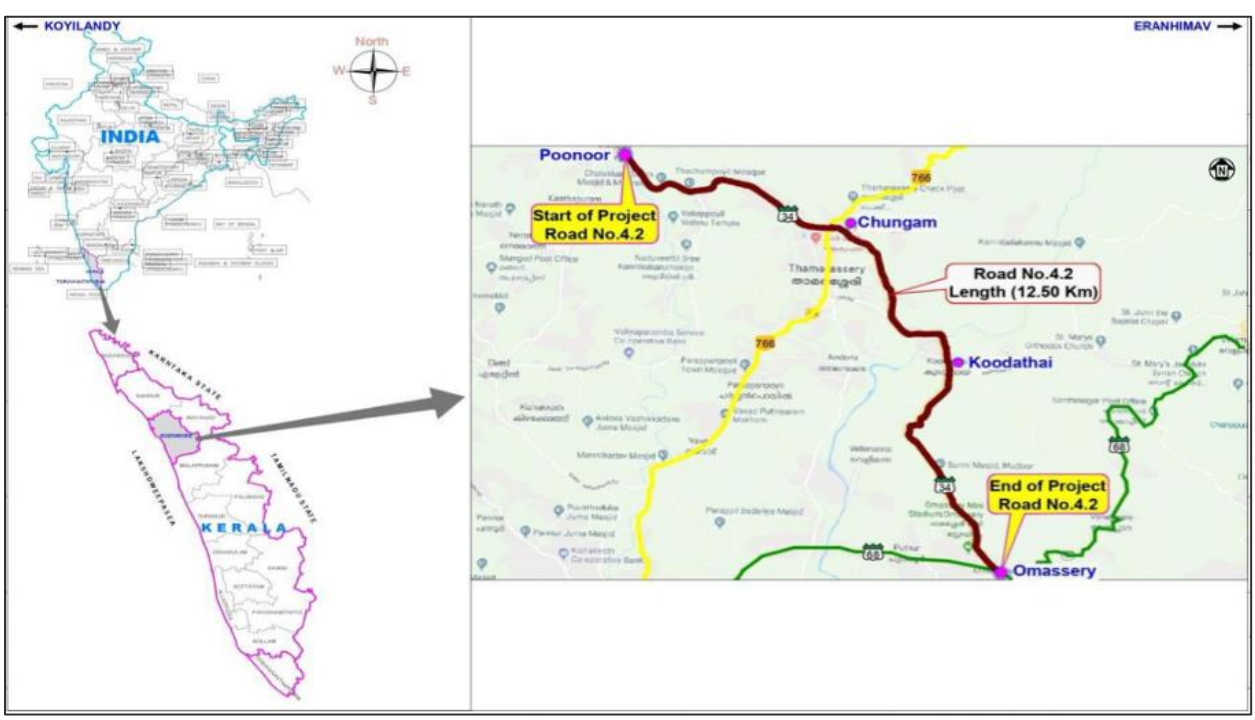
4) RKI-14 : Upgrading SH 34 Koyilandy –Thamarassery – Mukkam – Areekode Eranhimavu Road under Re-build Kerala Initiative

The project alignment and the major towns/ villages along the project road are presented below.

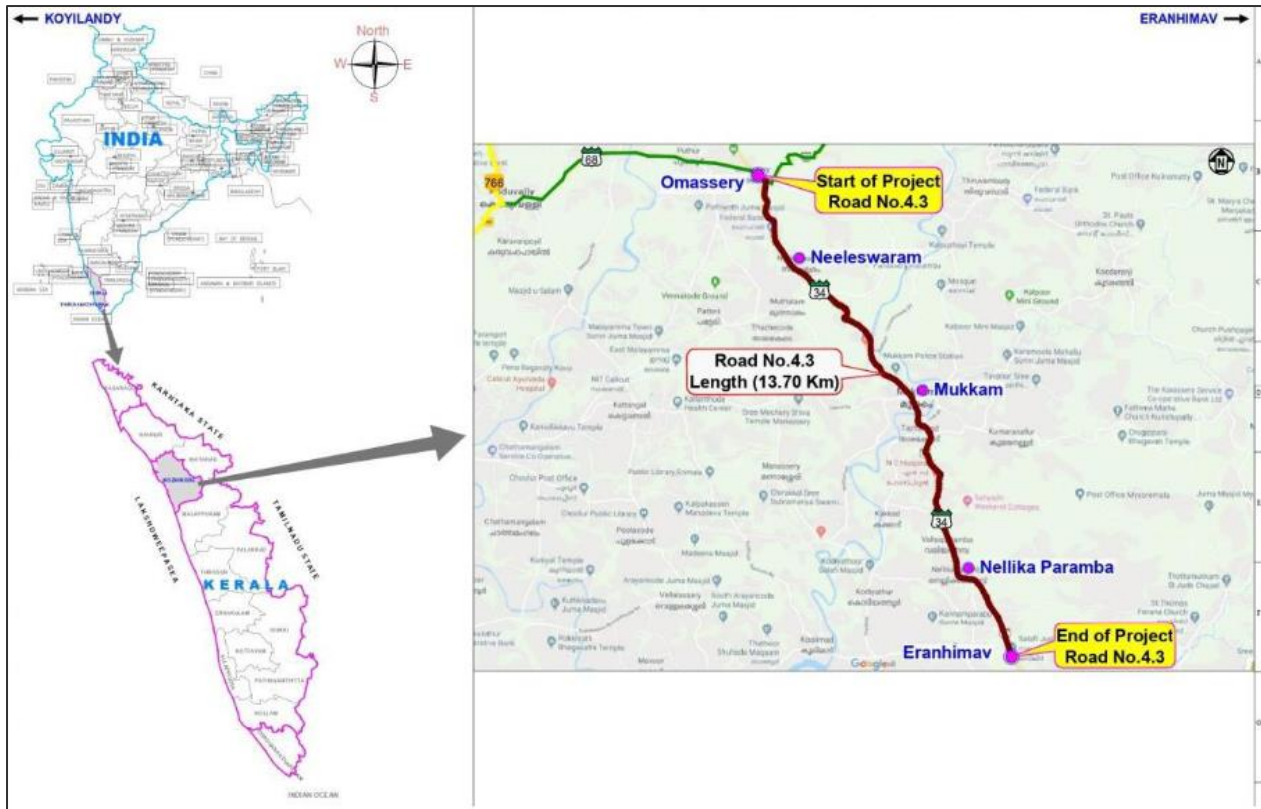
Location of Map Showing i) Koyilandy to Ponnor



Location of Map Showing ii) Ponnor - Omassery



Location of Map Showing iii) Omassery to Eranhmiv



The project starts at Koyilandy (Ch: 0+000) and ends at Edavanna (Ch: 51+020) in Kozhikode District. Project is divided into three sections i) Km 4+100 to 25+000 (Koyilandy to Poonoor) ii) Km:25+000 to 37+500 (Poonoor- Omassery) iii) Km 37+500 to 44+000 and 44+600 to 51+020 (Omassery to Eranhimav) for a length of 46.32 km. The project stretch is predominantly Intermediate Lane / Two Lane road with/without the paved shoulder / Four Lane. The condition and the riding quality of the road is fair. The terrain is plain to rolling Ribbon development observed all along the stretch. Land use is agricultural. Out of 46.32km length, 19.90Km is builtup Location. The traffic predominantly consists of Trucks, Buses, cars but local movements of 2wheelers and auto were observed. Hence traffic diversion during construction is the key factor.

Salient features:

The salient features of the project are presented in Table 2.5. The existing carriageway width varies from 5.5m to 14.0m. The Carriageway width is 5.0 to 5.5 Intermediate Lane and 2 lane width from 6.50 to 7.5 m and 4 lane width of 14 m for small stretch. The type of the existing pavement is flexible.

Sl. No:	Description of Item	Quantity
1	The Total Length of Road proposed	46.32 km
1.1	SH-34	46.32 km.
2	Carriageway width	
2.1	4 Lane with Paved Shoulders	Nil
2.2	2 Lane with Paved Shoulders	23.34km
2.3	2 Lane	22.98km
3	Road Side Drain (Both side- Total)	



3.1	RCC Cover Drain	47.220km
3.2	RCC Open Drain	Nil
3.3	RCC Trapezoidal Drain	43.930km
3.4	Existing Drain Utilization	Nil
4	Major Bridges (Retained and Repairs(2nos.
5.0	Minor Bridges	6nos.
5.1	Reconstruction	1no.
5.2	Widening	Nil
5.3	Retained and Repairs	5nos.
6	Culverts	99nos.
6.1	Reconstructions: Pipe Culverts to Box Culverts	Nil
6.2	Reconstructions: Slab Culverts to Box Culverts	71 Nos.
6.3	Widening: Slab Culverts to Box Culverts	5 Nos.
6.4	New Construction: Box Culverts	Nil
6.5	Retaining & Repair Culverts	23 Nos.
6.6	Additional New Box Culverts	1no.
6.7	New Pipe Culverts at Cross Road Locations	55 Nos.
7	Bus Bays & Bus Shelters	79 Nos.
8	Crash Barrier	0.20 Km
9	Pedestrian Guard Rail	As required
10	Major Junctions	7 Nos.
11	Minor Junctions	39 Nos.
12	Retaining wall	0.200km
13	Breast Wall/Toe Wall	1.150km
14	Hill Slope Protection	Nil
15	Foot Path Both sides	47.240km

Name of the contractor	Duration in Months	Contract Value in Crores	Appointed Date
M/s. Sreedhanya Construction Company	24	221.065	TBN

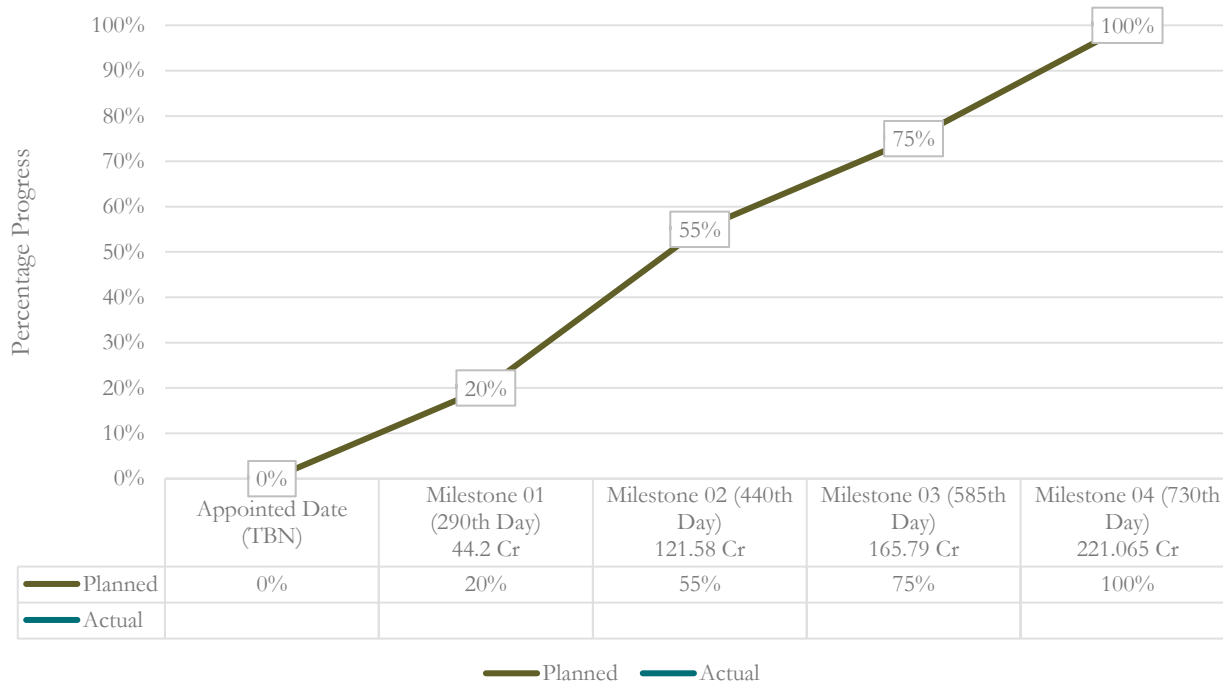
Status as on 30th Apr '2021:

- ❖ Inventor survey in progress

Milestone Schedule:

Project Milestone	Description (Days from Appointed Date)	Financial Progress		Milestone Date		EOT (If any)	Remarks
		Planned Financial Progress %age	Actual Financial Progress %age	Scheduled Date	Actual Date		
Milestone I	290	20%	-	Appointed Date yet to be notified	-	-	
Milestone II	440	55%	-		-		
Milestone III	585	75%	-		-		
Milestone IV	730	100%	-		-		

Milestone S- Curve



5) RKI-15: Upgrading Vythiri - Tharuvana Road

The project alignment and the major towns/ villages along the project road are presented below.



The project starts at Achooranam (Ch: 8+500) and ends at Padinjathara (Tharuvana Road) (Ch: 21+835) for a length of 13.335km in Wayanad District. The project stretch is predominantly Intermediate Lane / Two Lane road. The condition and the riding quality of the road is fair to Poor. The terrain is plain to rolling Ribbon development observed all along the stretch. Land use is agricultural. Out of 13.335km length, 2.00km is built up Location. The traffic predominantly consists of Trucks, Buses, cars but local movements of 2 wheelers and auto were observed. Hence traffic diversion during construction is the key factor.

Salient features:

The salient features of the project are presented in Table 2.6. The existing carriageway width varies from 5.5m to 5.70m. The Carriageway width is 5.0 to 5.5 Intermediate Lane and 2 lane width from 7.00 to 7.5 m. The type of the existing pavement is flexible.

Sl. No:	Description of Item	Quantity
1	The Total Length of Road proposed	13.335 km
1.1	MDR	13.335 km.
2	Carriageway width	
2.1	2 Lane with Paved Shoulders	Nil
2.2	2 Lane	1.155km



2.3	Intermediate lane	12.18km
3	Road Side Drain (Both side- Total)	
3.1	RCC Cover Drain	4.630km
3.2	RCC Open Drain	21.950km
3.3	RCC Trapezoidal Drain	Nil
3.4	Existing Drain Utilization	Nil
4	Major Bridges (Retained and Repairs)	Nil
5.0	Minor Bridges	2nos.
5.1	Reconstruction	Nil
5.2	Widening	Nil
5.3	Retained and Repairs	2nos.
6	Culverts	41nos.
6.1	Reconstructions: Pipe Culverts to Box Culverts	Nil
6.2	Reconstructions: Slab Culverts to Box Culverts	28 Nos.
6.3	Widening: Slab Culverts to Box Culverts	Nil
6.4	New Construction: Box Culverts	Nil
6.5	Retaining & Repair Culverts	13 Nos.
6.6	Additional New Box Culverts	Nil
6.7	New Pipe Culverts at Cross Road Locations	9 Nos.
7	Bus Bays & Bus Shelters	14 Nos.
8	Crash Barrier	As required
9	Pedestrian Guard Rail	As required
10	Major Junctions	2 Nos.
11	Minor Junctions	7 Nos.
12	Retaining wall	Nil
13	Breast Wall/Toe Wall	2.260km
14	Hill Slope Protection	Nil
15	Foot Path Both sides	2.37km

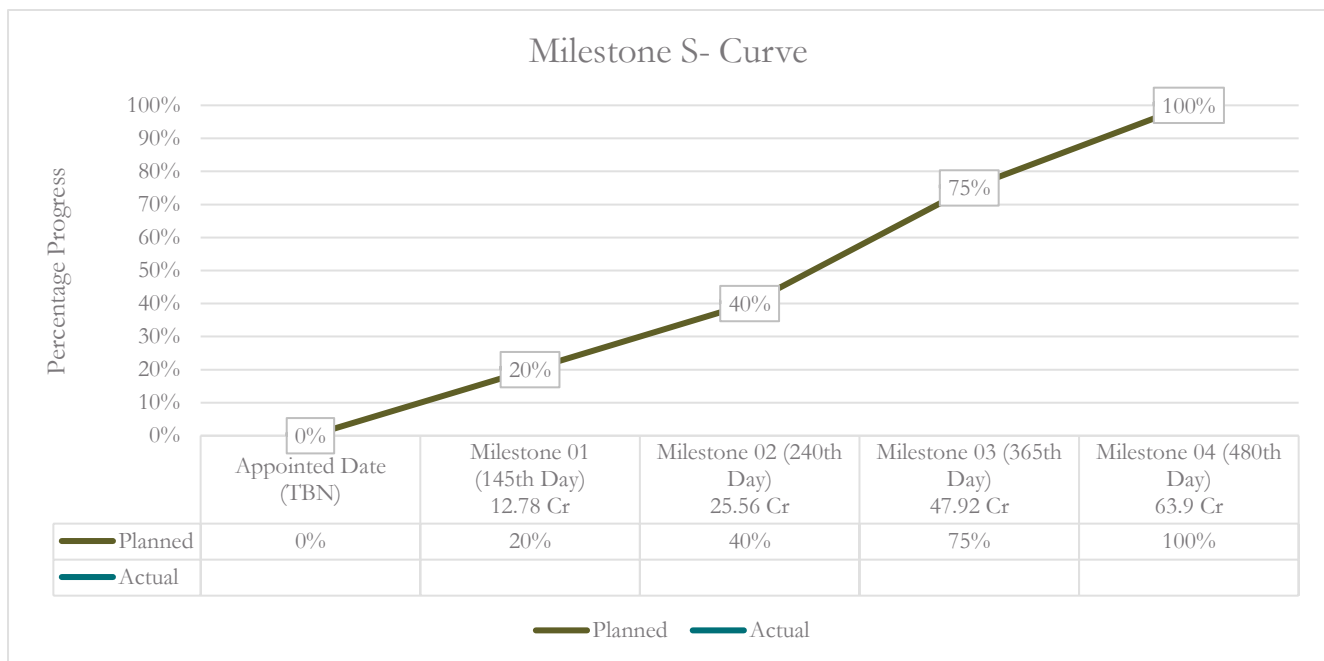
Name of the contractor	Duration in Months	Contract Value in Crores	Appointed Date
M/SM/s. Midland Engineering and Contracting Company	16	63.9	TBN

Status as on 30th Apr '2021:

- ❖ Inventor survey in progress

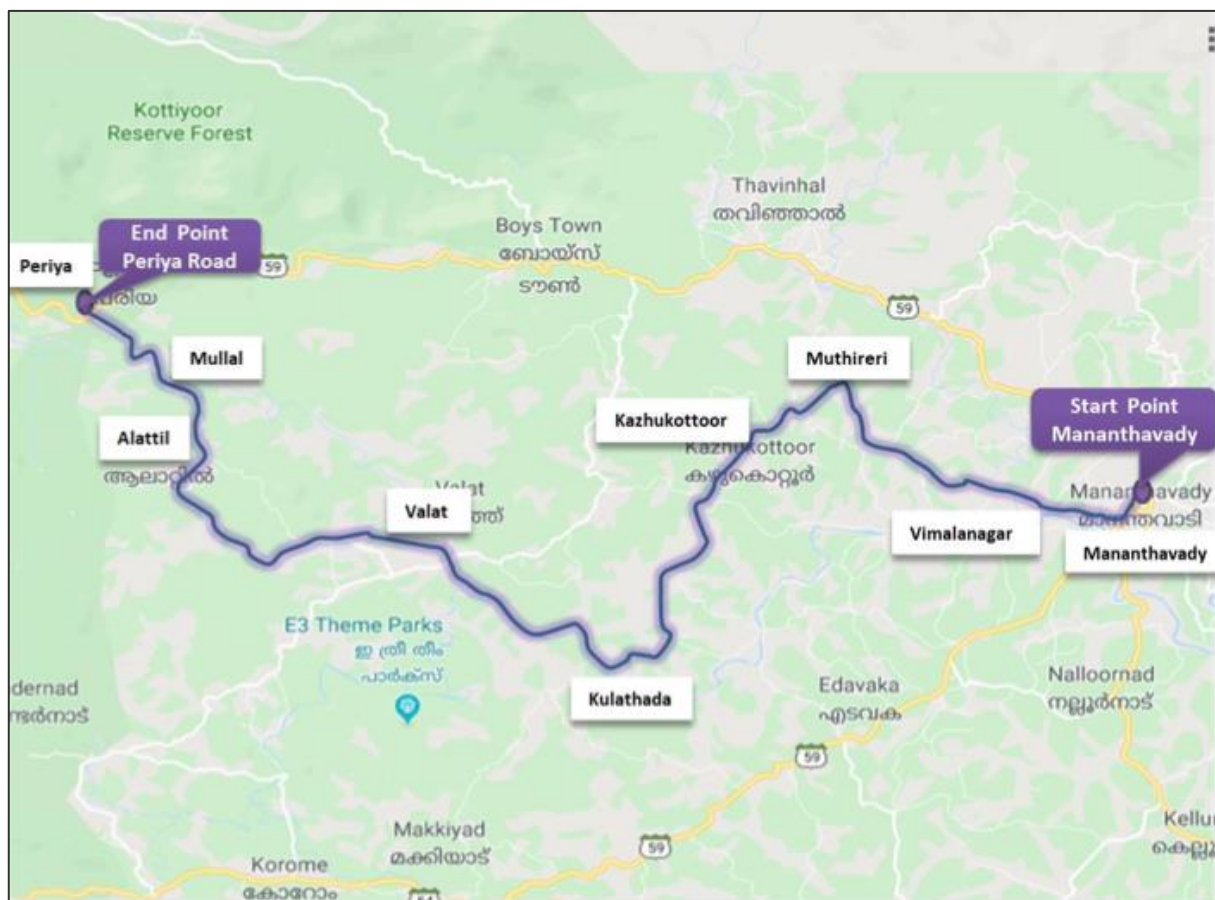
Milestone Schedule:

Project Milestone	Description (Days from Appointed Date)	Financial Progress		Milestone Date		EOT (If any)	Remarks
		Planned Financial Progress %age	Actual Financial Progress %age	Scheduled Date	Actual Date		
Milestone I	145	20%	-	Appointed Date yet to be notified	-	-	
Milestone II	240	40%	-		-		
Milestone III	365	75%	-		-		
Milestone IV	480	100%	-		-		



6) RKI-10: Upgrading the road from Mananthavady to Periya Road of Major district road (Length of 27.30km), in Wayanad district under Rebuild Kerala Initiative (RKI)

A key map of the project Highway is shown below.



The Site of the Project Highway comprises “Rehabilitation and Upgrading of Mananthavady to Periya Road to intermediate lane (27.30 Km) in Waynad District under Rebuild Kerala Initiative (RKI)”

Salient features:

Sl. No:	Description of Item	Quantity
1	The Total Length of Road proposed	27.30 km (Both side)
2	Carriageway width + Paved shoulder	5.5m + (0m)
3	Bituminous Length	22.510Km
4	Paver Block Length	4.790Km
5	Road Side Drain (Both side- Total 2.810KM)	2.810 km
6	Major Bridges Widening	Nil
7	Minor Bridge widening/ Reconstruction	2 Nos.

8	Minor Bridge Retain	1No
9	Minor New Construction	1No
10	Culverts	
10.1	Reconstructions: Pipe Culverts to Pipe Culverts	37 Nos.
10.2	Widening: Pipe Culverts to Pipe Culverts	Nil
10.3	Reconstructions: Pipe Culverts to Box Culverts	2 Nos.
10.4	Widening: Pipe Culverts to Box Culverts	Nil
10.5	Reconstructions: Slab Culverts to Box Culverts	14 Nos.
10.6	New Construction: Box Culverts	--
10.7	Retain & Widening Culverts	10 Nos.
11	Bus Bays & Bus Shelters	Nil & 14 Nos.
12	Crash Barrier	3.16 Km
13	Pedestrian Guard Rail (Both sides Total)	1.20 Km
14	Major Junctions	4 Nos.
15	Minor Junctions	32 Nos.
16	Slope Protection	1.470Km
17	Toe wall	0.61Km
18	Foot Path	2.74 Km

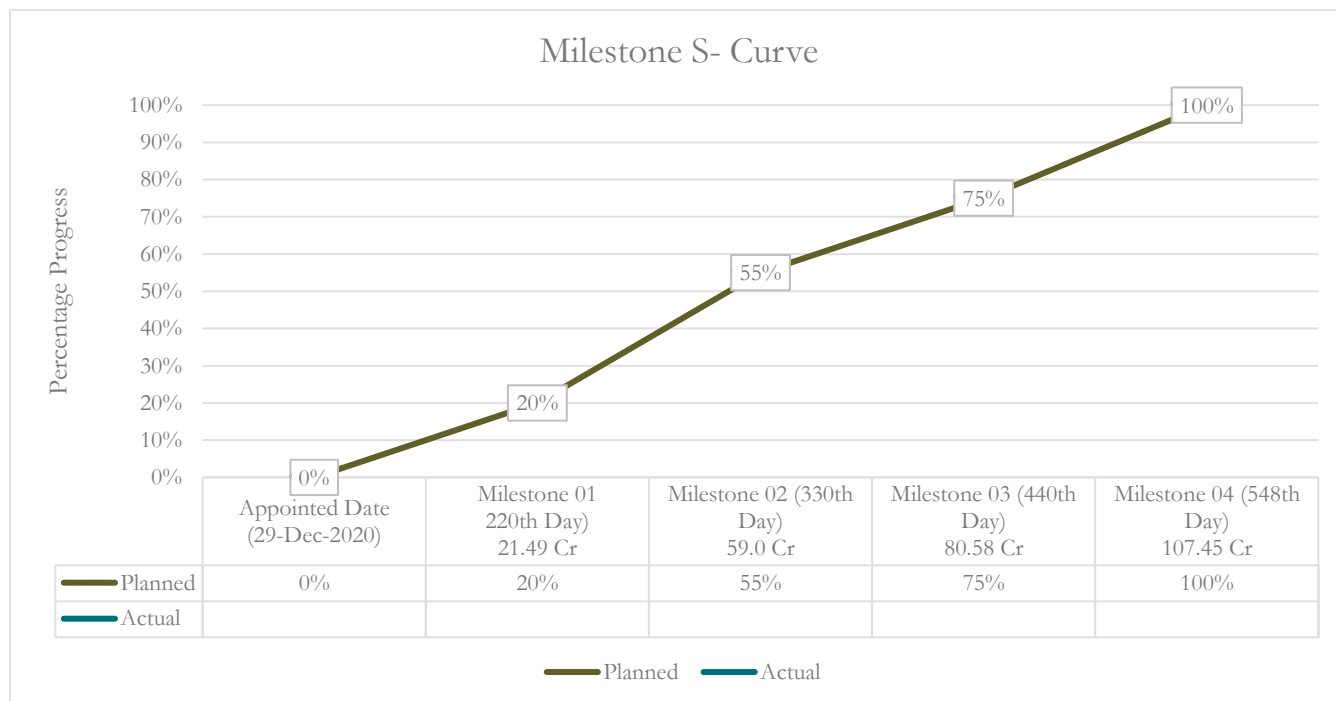
Name of the contractor	Duration in Months	Contract Value in Crores	Appointed Date	Original Completion Date
M/S ULCCS	18	107.45	29-Dec-2020	30-June-22

Status as on 30th Apr '2021:

- ❖ Site installation and survey works are in progress
- ❖ First instalment of Mobilization advance of Rs.2.06 Cr has been issued to the contractor

Milestone Schedule:

Project Milestone	Description (Days from Appointed Date)	Financial Progress		Milestone Date		EOT (If any)	Remarks
		Planned Financial Progress %age	Actual Financial Progress %age	Scheduled Date	Actual Date		
Milestone I	220	20%	-	06-Aug-21	-	-	
Milestone II	330	55%	-	24-Nov-21	-		
Milestone III	440	75%	-	14-Mar-22	-		
Milestone IV	548	100%	-	30-Jun-22	-		



North Package 02 :

7) RKI -5 : Upgrading the road Perambilavu to Nilambur section of SH-39

Project Description:

The project road starts from km 30.700 It provides connectivity between Perumbilavu – Koottanad – Pattambi – Perinthalmanna – Pattikkadu – Karuvarakundu – Kalikavu – Nilambur Road. It also connects SH – 53, NH – 213, SH – 73 and SH – 60. The state highway SH-39 is an important conduit of travel in the state especially in the district of Malappuram. The project stretch is predominantly a 2-lane road with/without the paved shoulder. The condition (Except potholes in some section of Perinthalmanna town) and the riding quality is fair. Built-up areas are predominant along the entire stretch, Land use is agricultural since SH-39 is an arterial road, the traffic predominantly consist of cars, but local movements of 2 wheelers and auto were observed. Hence traffic diversion during construction is a key factor.

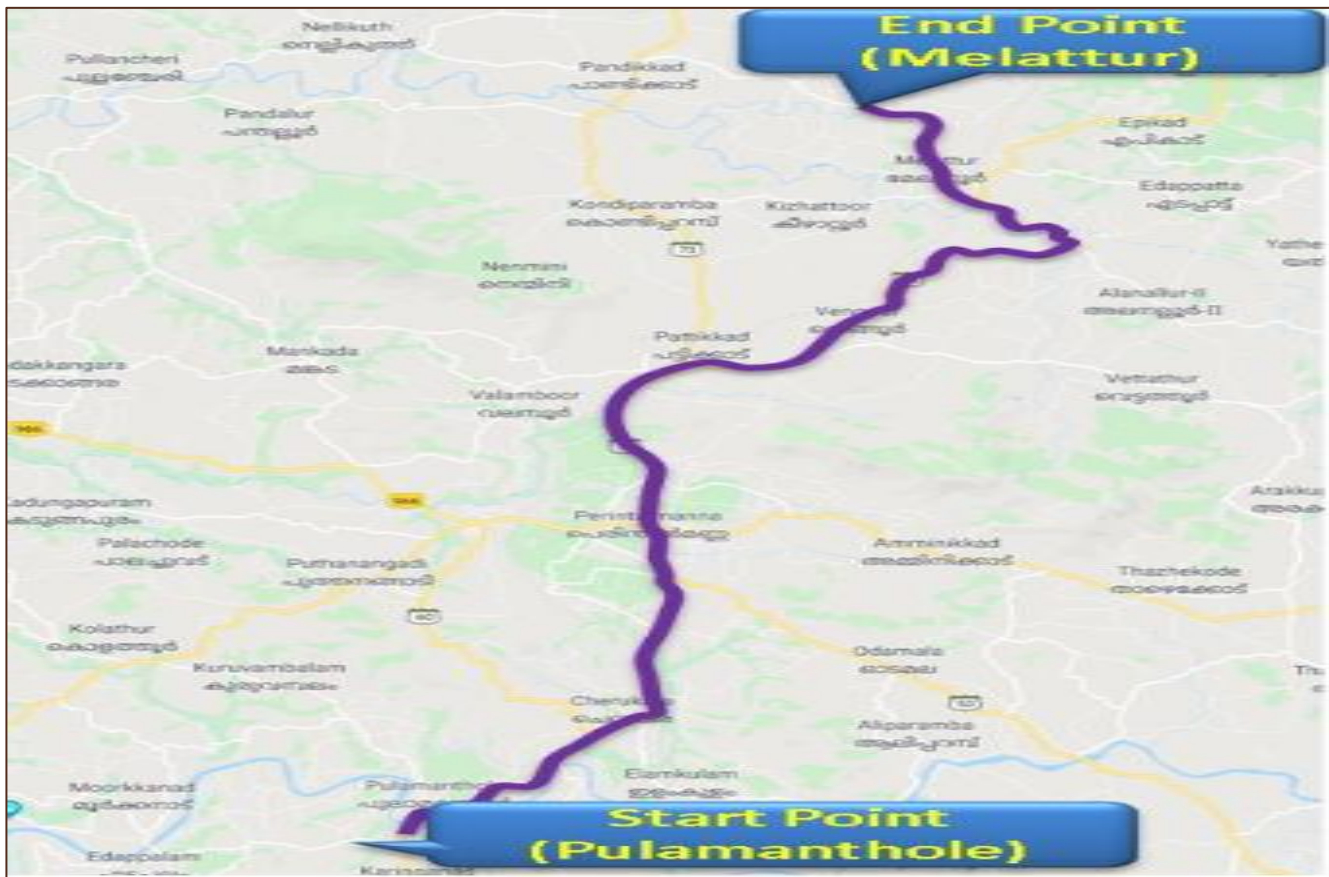
General philosophy followed in formulating the improvement proposals are:

- ❖ Limit the improvements within the land identified for the project.
- ❖ Introduce transition to all the curves along the alignment.
- ❖ Utilize the available Right of Way (ROW) to the maximum extent possible so as to avoid additional land acquisitions.
- ❖ Retain the geometric properties of finalized alignment during the study carried out.
- ❖ Improve and introduce the project facilities.

Improvement of road safety features accordingly, the following optimum level of improvements is proposed:

- ❖ Widening of the project road as the traffic warrants.
- ❖ Strengthening or reconstruction of the existing pavement for the entire length.
- ❖ Provision of footpath cum built-up drain at built up
- ❖ Improving / redesigning sharp curves.
- ❖ Widening / reconstruction of existing culverts and provision of additional culverts depending on the cross-drainage requirements.
- ❖ Bridge and cross drainage rehabilitation, widening and reconstruction.
- ❖ Junction improvements.
- ❖ Provision of pedestrian crossing facilities.
- ❖ Provision of traffic signs and road furniture.
- ❖ Provision of bus shelters based on the above improvements, realignments are proposed at various locations

A key map of the project Highway is shown below.



Salient features:

S.No	Description of Item	Quantity
1	The Total Length of Road proposed	30.88 km (Both side)
2	Carriageway width + Paved shoulder	7m + (0-1.5m)
3	Road Side Drain (Both side- Total 52.7KM) (SH39-30.88 km)	52.70 km
4	Major Bridges Widening	Nil
5	Minor Bridge widening/ Reconstruction	6 Nos.
Culverts		
5.1	Reconstructions: Pipe Culverts to Pipe Culverts	6 Nos.
	Widening: Pipe Culverts to Pipe Culverts	3 Nos.
5.2	Reconstructions: Pipe Culverts to Box Culverts	28 Nos
	Widening: Pipe Culverts to Box Culverts	38 Nos
5.3	Reconstructions: Slab Culverts to Box Culverts	Nil
5.4	New Construction: Box Culverts	3 Nos

5.5	Retaining Culverts	9 Nos
6	Bus Bays & Bus Shelters	12 Nos & 19 Nos
7	Crash Barrier	5.15 Km
8	Pedestrian Guard Rail (Both sides Total)	4.48 Km
7	Major Junctions	5 Nos
8	Minor Junctions	107 Nos
9	Railway Crossings	2 (not in scope)
10	Foot Path (SH 39-km) Both sides	52.70 Km

Name of the contractor	Duration in Months	Contract Value in Crores	Appointed Date	Original Completion Date
M/S KMC Constructions	18	144	20-Jan-2021	22-Jul-2022

Status as on 30th Apr '2021:

Status of Manpower & Machinery Mobilization:

The details of contractor key personal and machinery details are presented in the below

Table 15 RKI 05: Key Personnel Mobilization Status

S. No	Name	Designation	
1.	Mr.V.P Arun	Project Manager Cum Planning Engineer	
2.	Mr. Saravanan	Deputy Project manager	
3.	Mr.Muthu Kumar	Highway Engineer	
4.	Mr.Barani Raj		
5.	Mr.Obulesu		
6.	Mr.Antony		
7.	Mr.Rajesh		
8.	Mr.Sriram		
9.	Mr.Obhilesh		
10.	Mr.Ananthan		
11.	Mr.Hari Das Giri		Engineer Structures
12.	Mr.Ramesh		
13.	Mr.Unnikrishnan		
14.	Mr.Siyad		
15.	Mr.Ram		
16.	Mr.Vasanth	Design Director	

17.	Mr.Prabhakar	Road Safety Consultant
18.	Mr.Rajagopal	Material Engineer
19.	Mr.Kasi Ananth	
20.	Mr.Raghuram	
21.	Mr.Chandra Mohan	
22.	Mr.Sekhar	Plant/Equipment Manager
23.	Mr.Melwin	Utility Engineer (Electrical)
24.	Mr.Sankar	Surveyor
25.	Mr.Judith Carmel	
26.	Mr.Raj Kumar	Environmental Specialist
27.	Mr.Preshanth Monu	Health and Safety Engineer
28.	Mr.Mithun	
29.	Mr.Bibin B Issac	
30.	Mr. Raghuramaiah	HR/Sociologist

Table 16 RKI 05 Machinery Mobilization

S No	Type of equipment	Capacity	No.
1	Dozer	175HP	2
2	Grader (3mWidth)		1
3	Garder (1mWidth)		2
3	Excavator Cum Breaker	PC210	2
4	Excavators	Minimum 1m3 bucketsize	4
5	Excavator(JCB)	0.30cum	5
6	Front End Loader	Minimum 1m3 bucketsize	2
7	Vibratory Roller for Compaction of edges	1ton(self-propelling type)8-10ton;	3
8	Water Tanker	20000 Litre	1
9	Water Tanker	6000litre	2
10	LMV	Labor Shifting	10
11	Dumpers	16ton	15
12	Hot Mix Plant	100ton/hr	1
13	Concreting Batching andMixing Plant		1
14	Wet Mix Plant		1
15	Total Station with Accessories	Minimum 2sec accuracy	1
16	Auto-Level with Micrometer	--	6

Physical Progress:

Table 17 RKI 05 Physical Progress

Sl.No.	Description	Status	Remarks
1	Chainage and Center line marking of Existing Road	Completed	
2	Road inventory:	Completed	
3	Clearing and Grubbing	Completed	
4	Utility Shifting estimate–Water Authority	Under Process	
5	KSEB	Under process	
6	Tree cutting valuation and cutting permission	Under process	
7	RoW identification with revenue dept	In Progress	
8	Culvert inventory condition surveys	Completed	
9	Cleaning of Culverts	Under process	
10	MOI	Completed	
11	Geotechnical investigations – Soil Samples were collected from SH and MDR for CBR value, OMC, SG.	Completed	
11.1	CBR sample collection and crust details at every 2 km	Completed	
11.2	FWD testing in SH	Completed	
11.3	Crest detail identification in SH	Completed	
11.4	Soil investigation at Road completed at	Completed	
11.5	Soil Investigation for Structures Minor Bridge.	Completed	
12	Videography of existing road with narration	Completed	
13	Topographic survey		
13.1	Erection of GPS Pillars- 50X50X70 cm in SH	Completed	
13.2	Conducted GPS survey at SH	Completed	
13.3	Erection of TBM pillars 30X30X500cm in SH	Completed	
13.4	Topography Survey for the road from 30+700 to 62+480 of the SH-39	Completed	
13.5	Detailing	Completed	
14	Traffic surveys		
14.1	Traffic Volume Count at 30+700 at SH39 and 62+480	Completed	
14.2	Junction Volume count	Completed	
14.3	Axial Load survey at CH 30+700 at SH39 and 62+480 in MDR	Completed	
15	Mobilization for Base Camp	Completed	
16	Site office for the project.	Completed	
17	Approvals (Drawings)		
17.1	Design & Drawings of RCC Drain	Approved	
17.2	Typical Cross Section of Road	Approved	

Current Status of Plan & Profile and Culvert design approval in RKI- 5

Status of Plan & Profile

Table 18 Status of Plan & Profile RKI 05

Chainage	Description	Remarks
39+000 to 48+000	Plan & Profile	Approved

Status of Culvert Design

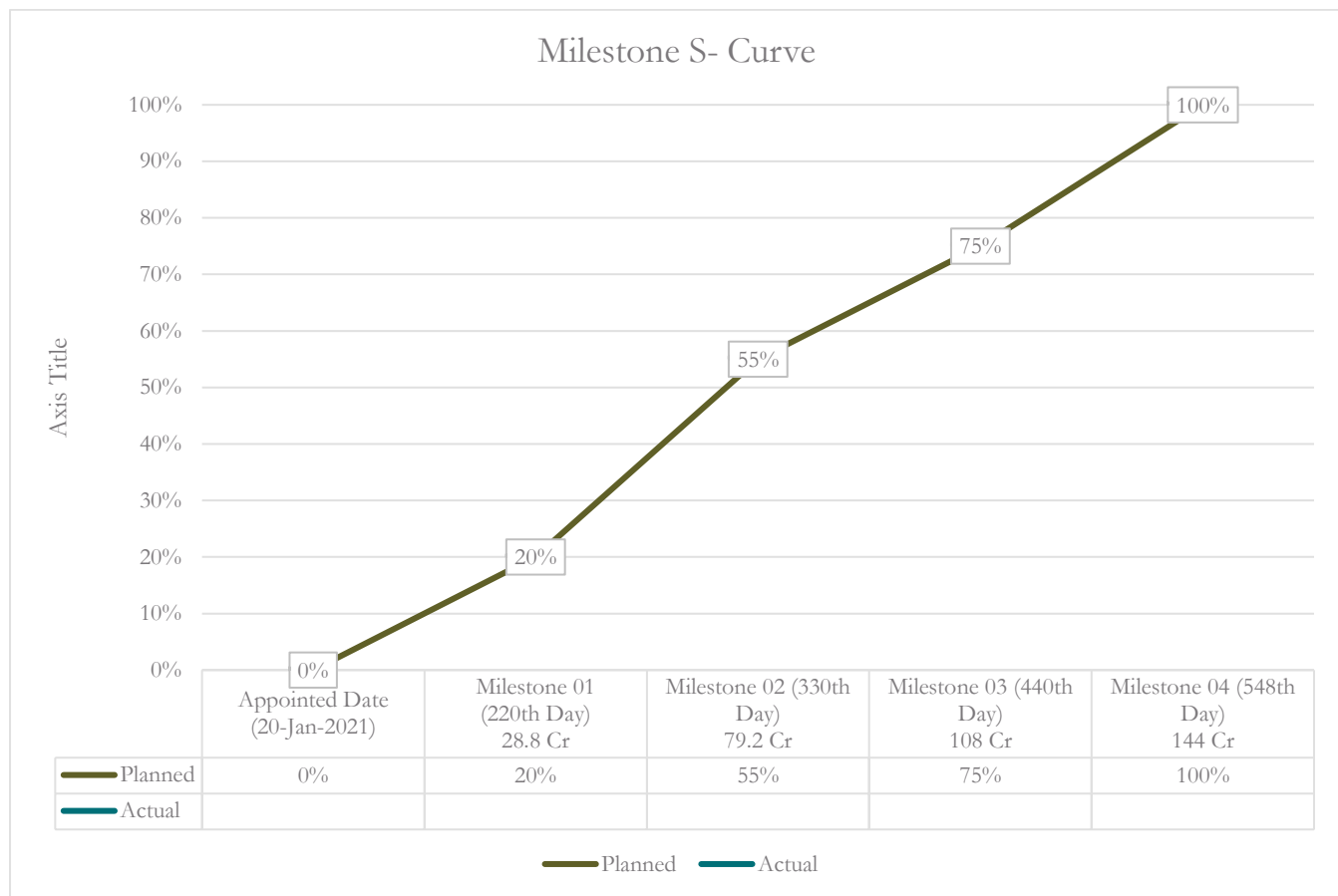
Table 19 Status of Culvert Design RKI 05

SNO	Description	No	Remarks
1	Box Culvert (2 mX1.5 m)	12	Approved
2	Box Culvert (4.5 mX2 m)	1	Approved
3	Box Culvert (5 mX3.00 m)	3	Approved
4	Widening Culvert (1.8x 1.8 m)	1	Approved
5	Widening Culvert (2.0x 1.0 m)	1	Approved
6	Widening Culvert (3.5x 1.3 m)	1	Approved
7	Widening Culvert (3.0x 1.7 m)	1	Approved
8	Widening Culvert (1.6 x 1.7 m)	1	Approved
9	Widening Culvert (1.5 x 1.0 m)	1	Approved
10	Box Culvert (5.5 mX3.00 m)	1	Approved
11	Widening Culvert (5.2x 1.8 m)	1	Approved
12	Widening Culvert (1.0x 1.1 m)	1	Approved
13	Widening Culvert (1.25x 1.0 m)	1	Approved

Financial Progress:

Milestone Schedule:

Project Milestone	Description (Days from Appointed Date)	Financial Progress		Milestone Date		EOT (If any)	Remarks
		Planned Financial Progress %age	Actual Financial Progress %age	Scheduled Date	Actual Date		
Milestone I	220	20%	-	28-Aug-21	-	-	
Milestone II	330	55%	-	16-Dec-21	-		
Milestone III	440	75%	-	05-Apr-22	-		
Milestone IV	548	100%	-	22-Jul-22	-		



Summary of Quality Control Tests:

The summary of quality control tests conducted/witnessed by Authority Engineer are presented below

Table 20 RKI 05 Quality Control Tests

Sl. No.	Item of Work	Name of Test	No. of Tests conducted / witnessed
1	OGL cum subgradetop	FDD testing	35 sets
2	ConcreteM15grade	07 days compressive strength	19set
		28 days compressive strength	25 set
		Slump test	15 test
	M25grade	07 days compressive strength	42 set
		28 days compressive strength	51 set
		Slump test	35 test
	M30grade	07 days compressive strength	7 set
		28 days compressive strength	4 set
		Slump test	4 test
3	Coarse aggregatefor concrete	Gradation	
		(20mm&12.5mm)	28
		Aggregate Impact Value (AIV)	28

4	Fine aggregate for Concrete (M/Sand)	Gradation	28
5	Cement test	Consistency	4 test
		Initial and final setting time	4 test
		Soundness	4 test
		Gradation	4 test
6	GSB	Gradation	15
		Field Dry Density	26 test
7	WMM	Gradation	60 test
		Flakiness Index & Elongation index	60 Test
		Aggregate Impact Value	58 test
		Field Dry Density	22 test

Land Encroachments and Clearances:

The confirmation regarding encroachment and clearance details is still pending from the Revenue department. Contractor is in process of getting other permits as listed in the below table

Table 21 RKI 05 Status of Other Permits

Sl. No.	Types of clearance	Applicability	Status	Remarks
1.	Tree felling permission	For road side tree cutting	Under process	
2.	Consent for establish	Hot mix plant, Batching plant, wet mix macadam, Stone crushers	Completed	
3.	Consent for operate	Hot mix plant, Batching plant, wet mix macadam, stone crushers	Completed	
4.	Explosive license from chief controller of explosives	For storing fuel oil, lubricants, diesel etc.,	Completed	
5.	Quarry lease deed and quarry mining from state Department of mines and geology	Quarry operation (for new quarry)	Obtained	
6.	Permission for extraction of groundwater for use in road construction activities from state ground water	Extraction of groundwater	NA	

	board/central ground Water authority			
7.	Permission for use of water for construction purposes from irrigation department`	Use of surface water for construction	NA	
8.	Labour license from Labour commissioner office	Engagement of labour	Under process	
9.	Stockyard	Stocking materials for the project	Completed	
10.	Borrow areas	Stocking of soil along the stretch	Under process	

Bank Guarantee:

Bank Guarantee details of RKI 05 is listed below

Table 22 RKI 05 Bank Guarantee

S.No	Description	Bank Guarantee No.	Value of Bank Guarantee (CR)	Valid		Remarks
				From	To	
1	Bank guarantee Against Performance Security	200133IBGP00241	7.52	10/3/2020	4/2/2023	IDBI Bank
2	Bank guarantee Against Performance Security	020520IGPER0038	4	10/3/2020	4/2/2023	Andhra Bank
3	Bank guarantee Against Environmental, Social, Health and Safety (ESHS)	200133IBGP00240	2.88	10/3/2020	4/2/2023	IDBI Bank

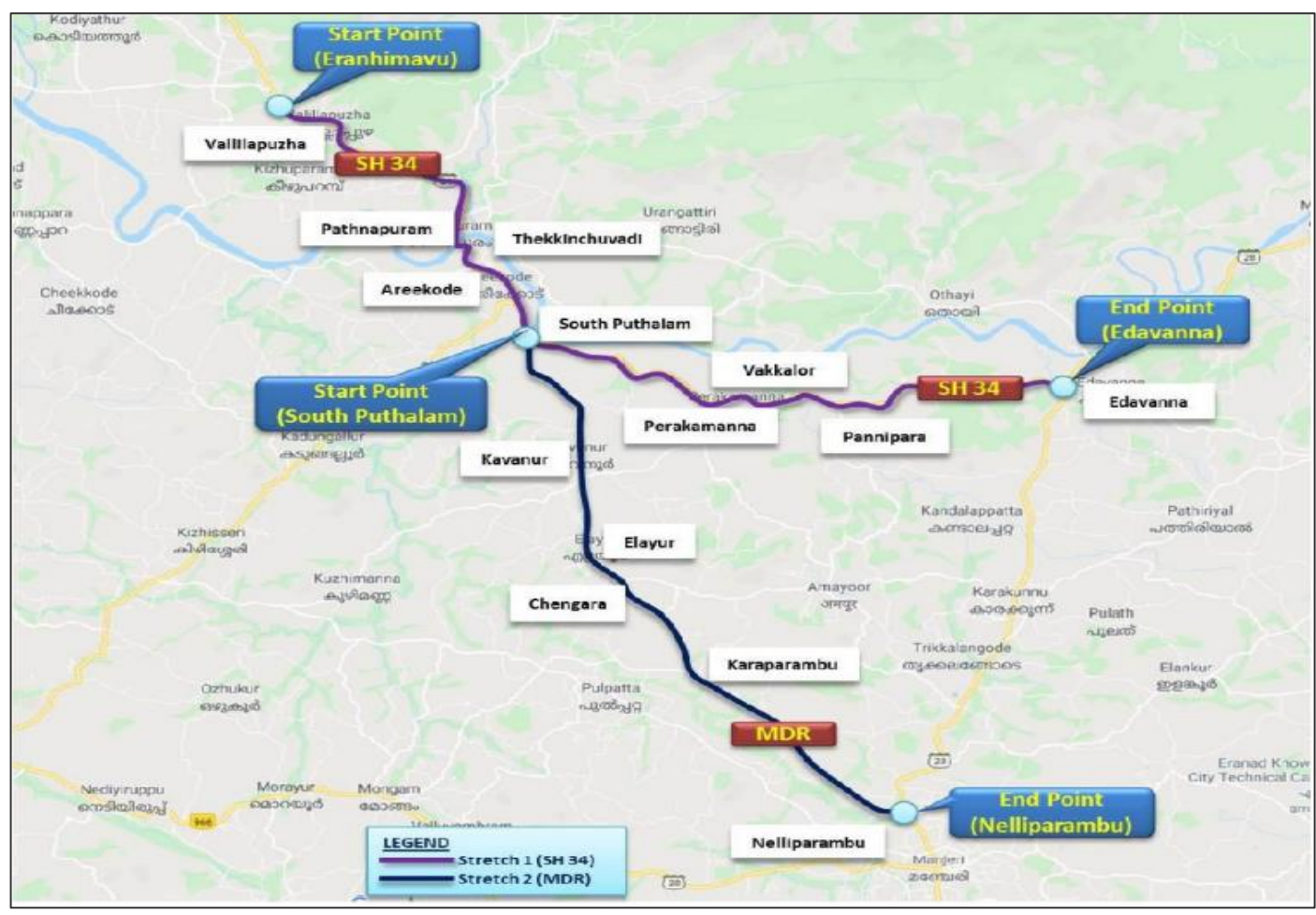
8) RKI-6: Eranhimavu to Edavanna Section of SH-34 from Km 51+200 to 69+380 and South Puthalam to Nelliparambu from Km 0+00 to 13+350

Project Description:

The project highway consists of Eranhimavu to Edavanna section of SH-34 from Km 51+200 to 69+380 for the length of 18.18km and South Puthalam to Nelliparambu section of MDR from Km 0+00 to Km 13+350 for the length of 13.35 Km. Both state highway and MDR are important conduits of travel in the state especially in the district of Mallapuram. The project stretch is predominantly a 2-lane road with/without the paved shoulder.

The riding quality is fair. Built-up areas are predominant along the entire stretch, since SH and MDR are arterial roads, the traffic predominantly consist of cars, but local movements of 2 wheelers and auto were observed. Hence traffic diversion during construction is a key factor.

The key map of the project Highway is shown below.



Salient features:

S.No	Description of Item	Quantity
1	The Total Length of Road proposed	31.53 Km
1.1	SH 34 & MDR	18.18 & 13.35 Km.
2	Carriageway width + Paved shoulder	7+2 m
3	Road Side Drain (Both side- Total) (SH34- 30.28 km, MDR- 22.7km)	52.98 Km
4	Major Bridges Widening	1 No.
4.1	Minor Bridge widening/ Reconstruction	1 No.
5	Culverts	
5.1	Reconstructions: Pipe Culverts to Pipe Culverts (SH34- 7nos, MDR-2 nos)	9 Nos
5.2	Reconstructions: Pipe Culverts to Box Culverts (SH34- 1nos, MDR-3 nos)	4 Nos
5.3	Reconstructions: Slab Culverts to Box Culverts (SH34- 15nos, MDR-23 nos)	38 Nos.
5.4	New Construction: Box Culverts	-
5.5	Retaining/ Widening Culverts	63 Nos.
5.5.1	Retaining/ Widening Culverts in SH34 (Retain: 11 nos, Widening: 25 nos)	36 Nos
5.5.2	Retaining/ Widening Culverts in MDR(Retain: 4 nos, Widening: 23 nos)	27 Nos.
6	Bus Bays & Bus Shelters (SH34- 11 nos, MDR-13 nos)	24 Nos
7	Crash Barrier (SH34- 12.03 km, MDR-5.92 km)	17.95 Km
8	Pedestrian Guard Rail (Both sides Total) (SH34- 10.16 Km, MDR-10.7 Km)	20.28 Km
9	Major Junctions (SH34- 15nos, MDR-8 nos)	23 Nos
10	Minor Junctions (SH34- 37 nos, MDR-56 nos)	93 Nos
11	Railway Crossings	-
12	Foot Path (SH 34-5.85 km & MDR-6.43 km) Both sides	24.56 Km

Name of the contractor	Duration in Months	Contract Value in Crores	Appointed Date	Original Date of Completion
M/s Sreedanya Construction Company	18	189.76	23-Nov-2020	25-May-22

Status as on 30th Apr'2021:

Status of Manpower & Machinery Mobilization:

The details of contractor key personal and machinery details are presented in the below

Table 23 RKI 06 Key Personnel Mobilization Status

Sl No	Name	Designation
	Technical	
1	Mr. Sebastian Antony	Project Manager
	Highway	
2	Mr. Aromal S Rajeev	Site In Charge
3	Mr. Tom J Kuriakose	Site In Charge
4	Mr. Prasannakumar	Utility Engineer
5	Mr. Haneefa P	Utility Shifting Supervisor
6	Mr. Vijith WG	Supervisor
7	Justin Jacob	Supervisor
8	Jilson P	Supervisor
9	Hariprasad	Supervisor
10	Karthikeyan	Supervisor
11	M Nadarajan	Supervisor
12	Sreejith	Supervisor
13	Nibin	Supervisor
14	Shaji Kumar A	Site In Charge
15	Jacob John	Supervisor
16	ArunMozhi.v	Site Engineer
17	Jithin. J	Supervisor
18	Pranur Pradeep	Supervisor
19	Rajanmon. R	Supervisor
20	Skaria C.M	Supervisor
21	Mr. Abiram S B	Site Engineer
22	Mr. Sunil Shetty	Site Engineer
23	Mr. Yogendra Yadav	Site Engineer
24	Mr. Deepak PL	Site Engineer
	Quality Control	
25	Mr. A.S.Venugopal	Material Engineer
26	Mr. Gokul Raj	QA/QC Engineer
	Planning / QS Department	
27	Mr. Paul P Manoj	Planning Engineer
28	Mr. Vaisakh Krishnan	Planning Engineer
29	Mr. Gopikrishna Ajay	Planning Engineer

	Survey	
29	Hari Kumar	Sr. Surveyor
30	Mr. Shijas K	Surveyor
31	Kishore V.S	Surveyor
32	Arun Prasad A.M	Surveyor
33	Sanjay Pati	Surveyor
34	Mr. Pradeep MB	Survey Assist
	EHS	
35	Mr. Satheesh H	EHS Officer
36	Mr. Bipin Das CJ	Safety officer
36	Ali Reza	Safety officer
37	Nithin.k	Safety officer
38	Rahul C	Safety
39	SujeeshKalluparayil	Sociologist

Table 24 RKI 06 Machinery Mobilization

SL No	Equipment Type	Make/Capacity/ Reg No.	Date of Mobilization
	Fixed Equipment		
1	Batching Plant	M30	29-Dec-20
	Field Equipments		
2	Hydraulic Excavator	CAT 323	13-Jan-21
3	Hydraulic Excavator	CAT 323	13-Jan-21
4	Hydraulic Excavator	CAT 313	13-Jan-21
5	Hydraulic Excavator	Komatsu PC210	20-Jan-21
6	Hydra	KL-01-BT-9902	24-Feb-21
7	Hydra	KL-01-BX-5283	10-Mar-21
8	Soil Compactor	CA-305	25-Feb-21
9	Soil Compactor	CA-305	25-Feb-21
10	Soil Compactor	CA-305	25-Feb-21
11	Soil Compactor	CA-305	25-Feb-21
	Transport Equipments		
12	Tipper	KL-01-CQ-2973	05-Dec-20
13	Tipper	KL-01-CQ-2964	05-Dec-20
14	Tipper (340 CFT)	KL-01-CQ-3021	28-Mar-21
15	Tipper	KL-01-CQ-3023	05-Dec-20
16	Tipper	KL-01-CQ-3056	16-Feb-21
17	Tipper (340 CFT)	KL-01-CQ-3092	27-Mar-21
18	Tipper	KL-01-CQ-3136	05-Dec-20
19	Tipper	KL-01-CQ-3139	05-Dec-20
20	Tipper	KL-01-CQ-3175	05-Dec-20

21	Tipper	KL-01-CQ-3153	16-Feb-21
22	Tipper	KL-01-CQ-3120	16-Feb-21
23	Tipper	KL-01-CQ-2937	16-Feb-21
24	Tipper	KL-01-CQ-3113	16-Feb-21
25	Tipper	KL-01-CR-1908	16-Feb-21
26	Tipper	KL-01-CR-1914	16-Feb-21
27	Tipper	KL-01-CQ-3177	25-Feb-21
28	Tipper	KL-01-CQ-3246	5-Mar-21
29	Tipper	KL-01-CR-3275	6-Mar-21
30	Tipper	KL-01-CR-3291	6-Mar-21
31	Tipper	KL-01-CQ-3053	22-Mar-21
32	Tipper	KL-01-CQ-2986	22-Mar-21
33	Tipper (340 CFT)	KL-01-CQ-3091	27-Mar-21
34	Tipper (340 CFT)	KL-01-CQ-3064	27-Mar-21
35	Transit Mixer 8 cum	Reg - Pending	27-Mar-21
36	JCB	KL-01-CQ-2175	31-Oct-20
37	JCB	KL-01-CQ-2584	20-Feb-21
38	JCB	KL-01-CQ-2597	20-Feb-21
39	JCB	KL-01-CQ-2584	20-Feb-21
40	JCB	KL-01-CM-1245	20-Feb-21
41	JCB	KL-01-CR-4468	10-Mar-21
42	JCB	KL-01-CR-4472	10-Mar-21
43	JCB	KL-01-CR-4494	10-Mar-21
44	JCB	KL-01-CR-4454	10-Mar-21
45	Pick up	KL-01-CQ-6861	26-Dec-20
46	Pick up	KL-01-BS-974	16-Mar-21
47	Pick up	Reg - Pending	8-Mar-21
48	Pick up	Reg - Pending	1-Mar-21
49	Pick up	KL-01-AR-1443	28-Mar-21
50	Low bed Trailor	KL-01-CQ-2580	31-Oct-20
51	Low bed Trailor	KL-01-BX-9087	17-Mar-21
52	Low bed Platform	KL-01-CR-6765	27-Mar-21
53	Low bed Platform	KL-01-CR-6766	27-Mar-21
54	6000L Tanker	KL-01-BD-4591	17-Feb-21
55	12,000 L Trailer	KL-07-BZ-7366	16-Mar-21
56	600L Diesel Tanker	KL-01-CQ-8795	17-Feb-21
57	Grader - 124	KL-01-BZ-5746	10-Mar-21
58	Innova	KL-01-CD-5333	10-Nov-20
59	Innova	KL-21-N-9720	10-Nov-20

60	Bolero	KL-01-BR-6420	04-Feb-21
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Physical Progress:

Table 25 RKI 06 Physical Progress

Sl. No.	Description	Status	Remarks
1	Chainage and Centerline marking of Existing Road	Completed	
2	Road inventory:	Completed	
3	Clearing and Grubbing	In Progress	90% Completed
4	Utility Shifting estimate –Water Authority	In Progress(With KWA)	
5	KSEB	In Progress	
6	Tree cutting valuation andcutting permission	In Progress (With CEOoffice)	
7	RoW identification with revenue dept	In Progress	90% Completed
8	Culvert inventory condition surveys	Completed	
9	Cleaning of Culverts	In progress	
10	MOI	Signed	
11	Geotechnical investigations-Soil Samples were collected from SH and MDR for CBR value, OMC, SG.	Completed	
11.1	CBR sample collection and crust details at every 2 km	Completed	
11.2	FWD testing in SH and MDR	Completed	
11.3	Crest detail identification in SH and MDR	Completed	
11.4	Soil investigation at Roadcompleted at CH 65+520, 59+150, 52+200, 6+405.	Completed	
11.5	Soil Investigation for Structures at CH 64+200 minor bridge	Completed	
12	Videography of existing road with narration	Not started	
13	Topographic survey		
13.1	Erection of GPS Pillars- 50X50X70 cm in SH and MDR	Completed	
13.2	Conducted GPS survey at SH and MDR	Completed	
13.3	Erection of TBM pillars 30X30X500 cm in SH and MDR.	Completed	
13.4	Topography Survey for the road from 51+200 to 69+380		

	and 0+000 to 13+350 of the SH and MDR respectively.	Completed	
13.5	Detailing	Completed	
14	Traffic surveys		
14.1	Traffic Volume Count at 55+200 at SH and 5+400 at MDR	Completed	
14.2	Junction Volume count at South Puthalam (59+100) and Edavanna (69+400) in SH and Nelliparambu at CH 13+350.	Completed	
14.3	Axial Load survey at CH 55+200 at SH and 5+400 in MDR	Completed	
14.4	Origin – destination Survey at CH 55+200 in SH and CH 5+400 in MDR	Completed	
15	Mobilization for Base Camp and required Plants	In Progress	
16	Site office for the project.	Completed	At CH 55+060
17	RMC Plant	Completed	At Karathaparambu
18	Reconstruction Culverts	In Progress	

Current Status of Plan & Profile and Culvert design approval in RKI- 6

Status of Plan & Profile

Table 26 Status of Plan & Profile RKI 06

Chainage	Description	Remarks
51+200 to 57+000	Plan & Profile	Approved
60+000 to 66+000	Plan & Profile	With Contractor
57+000 TO 60+000	Plan & Profile	Approved with comments
9+000 to 13+500	Plan & Profile	Approved
0+000 to 5+000	Plan & Profile	Approved
5+000 to 9+000	Plan & Profile	Approved

Status of Culvert Design

Table 27 Status of Culvert Design RKI 06

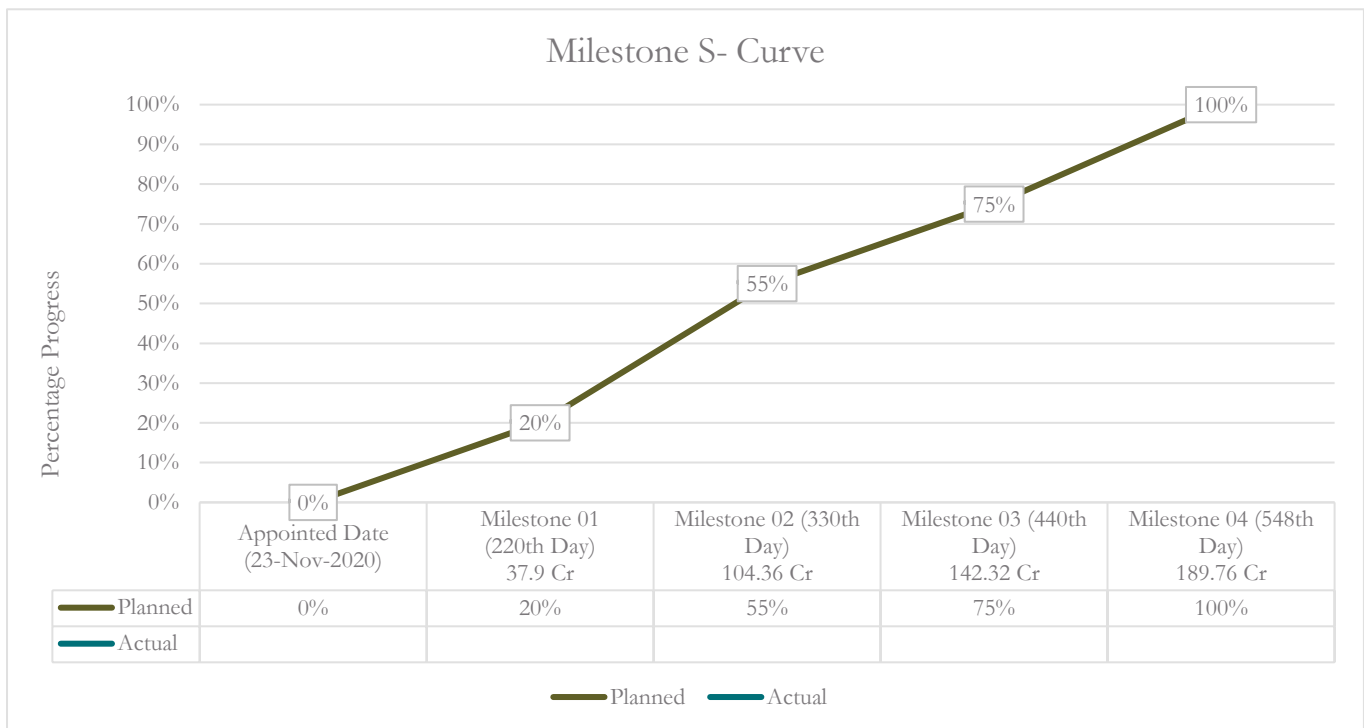
S.No	Description	No	Remarks
1	Box Culvert (2 mX1.5 m)	25	Approved
2	Box Culvert (5.5 mX2 m)	1	Approved
3	Box Culvert (2.5 mX1.5 m)	1	Approved
4	Box Culvert 4x2m	1	Approved
5	Box Culvert (5mx 2 m)	1	Approved
6	Widening Culvert	15	Approved
7	Pipe Culvert 1x1.2m (New)	3	Approved
8	Rehabilitation /Retain	2	Approved

Financial Progress :

❖ Mobilization Advance of Rs.9.48 Cr has been issued to the contractor

Milestone Schedule:

Project Milestone	Description (Days from Appointed Date)	Financial Progress		Milestone Date		EOT (If any)	Remarks
		Planned Financial Progress %age	Actual Financial Progress %age	Scheduled Date	Actual Date		
Milestone I	220	20%	-	01-Jul-21	-	-	
Milestone II	330	55%	-	19-Oct-21	-		
Milestone III	440	75%	-	06-Feb-22	-		
Milestone IV	548	100%	-	25-May-22	-		



Change of Scope:

S.No	Details	Status	Reference letters
1.	Reconstruction Length of Road Stretch	Accepted Proposal – Contractor is Preparing rates and Other necessary documents	SDC/MLPRM/2020/137dt 23-02-2021 & Continuation Letters
2	Shifting of Storm Drain	Under Review	SDC/MLPRM/2020/138dt 24-02-2021 & Continuation Letters

3	Reconstruction of Culvert at 69+059	Under Review	SDC/MLPRM/2020/294dt 27.04.2021
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Summary of Quality Control Tests:

The summary of quality control tests conducted/witnessed by Authority Engineer are presented below

Table 28 RKI 06 Quality Control Tests

SL Nos	Item of Work	Name of Test	No. of Tests conducted/witnessed
1	OGL Soil	Proctor Test	84
		LL & PL Test	84
		GSA Test	103
		FSI Test	108
		CBR Test	84
		FDD Test	40
2	M 15 Grade Concrete	Slump Test	22
		07 Days Compressive Strength	22 set
		28 Days Compressive Strength	27 set
	M 25 Grade Concrete	Slump Test	25
		07 Days Compressive Strength	25 set
		28 Days Compressive Strength	12 set
	M 30 Grade Concrete	Slump Test	60
		07 Days Compressive Strength	60 set
		28 Days Compressive Strength	54 set
3	GSB	Gradation	4
		LL & PL Test	4
		FDD Test	21
		Compaction	Nil
		Aggregate Impact Value (AIV)	Nil
		Atterberg's Limit	Nil
		Modified Proctor Density Test	Nil
		California Bearing Ratio	Nil
4	Fine aggregate for Concrete (M/Sand)	Gradation	4
	Coarse Aggregate for Concrete	Gradation	4
		LL & PL Test	4
		FDD Test	21
5	WMM Mix Design	Individual Gradation	Nil
		MDD test	Nil
		Water absorption	Nil
		Aggregate Impact Value	Nil
6	Concrete Mix Design	M15	2
		M25	2
		M30	2
		M40	1

Land Encroachments and Clearances :

The confirmation regarding encroachment and clearance details is still pending from the Revenue department. Contractor is in process of getting other permits as listed in the table

Table 29 RKI 06 Status of Other Permits

Sl. No	Permit	Status
1	Permission of the State Government for extraction of boulders from quarry	Not Applicable
		Contractor intend to procure aggregate from authorized/approved suppliers and accordingly contractor will not be extracting any boulders from quarry
2	Permission of Village Panchayats and Pollution Control Board for installation of crushers	Not Applicable
		Contractor intend to procure aggregate from authorized/approved suppliers and accordingly contractor will not be operating any crusher
3	License for use of explosives	Not Applicable
4	Permission of the State Government for drawing water from river/reservoir	Under Process
5	License from inspector of factories or other competent for setting up batching plant	Under process.
6	Clearance of Pollution Control Board for setting up batching plant	Under process.
7	Clearance of Village Panchayats and Pollution Control Board for setting up asphalt plant	Contractor intend to engage authorized subcontractor with valid licenses
8	Permission of Village Panchayats and State Government for borrow earth	Borrow Earth area identified and applied for source approval. Once borrow area and suitability of earth is approved by AE, balance procedure for obtaining permits will be taken up.
9	Any other permits or clearances required Applicable laws	District labour officer issued labour license valid up to 8-10-2021
		Permission to extract sand from River is not required to be obtained as contractor propose to use M-Sand from approved sources for the construction works.
		Pollution under Control (PUC) certificates for all RTO registered vehicles are being maintained.
		Agreement with Landowner is concluded.
		NOC from Grama Panchayath for Land Lease is under process.

Other Clearances :

Sl. No	Types of clearance	Applicability	Status	Remarks
1	Tree felling permission	For road side tree cutting	Received for 1 st 5 km	
2	Consent for establish Hot mixplant, Batching plant, wet mix macadam, stone crushers		Under process	
3	Consent for operate Hot mixplant, Batching plant, wet mix macadam, stone crushers		Under process	
4	Explosive license from chief controller of explosives	For storing fuel oil, lubricants, diesel etc.,	Obtained	
5	Quarry lease deed and quarry mining from state department of mines and geology	Quarry operation (for new quarry)	Obtained	
6	Permission for extraction of ground water for use in road construction activities from state ground water board/central ground water authority	Extraction of ground water	Under process	
7	Permission for use of water for construction purposes from irrigation department`	Use of surface water for construction	Under process	
8	Labour license from labour commissioner office	Engagement of labour	Under process	
9	Stock yard	Stocking materials for the project	Under process	
10	Borrow areas	Stocking of soil along the stretch	Under process	

Bank Guarantee:

Bank Guarantee details of RKI 06 are presented below:

Table 30 RKI 06 Bank Guarantee

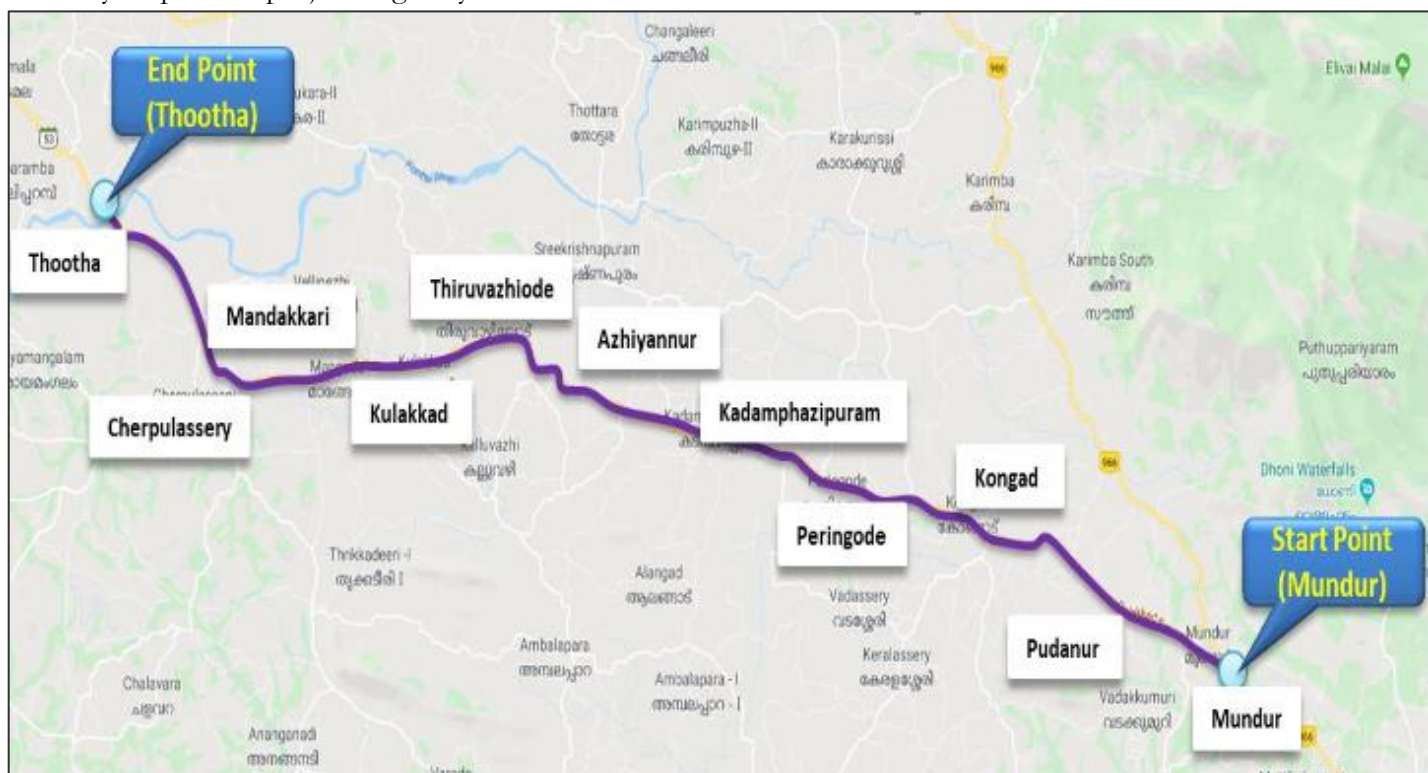
S.No	Description	Bank Guarantee No.	Value of Bank Guarantee (CR)	Valid		Remarks
				From	To	
1	Bank guarantee Against Performance Security	0435020BG0000 100	15.1812	10/6/2020	4/15/2023	State Bank of India
2	Bank guarantee Against Environmental, Social, Health and Safety (ESHS)	0435020BG0000 103	3.7953	10/6/2020	4/15/2023	State Bank of India

9) RKI-7: Upgrading the section of SH 53 from Mundur Junction to Thootha Junction

Project Description:

The Project starts at Mundur Junction and ends at Thootha Junction. The project stretch is predominantly a 2lane road with/without the paved shoulder. The condition and the riding quality of the road is fair except in some areas. The terrain is plain to rolling Ribbon development observed all along the stretch. Land use is agricultural. Since SH-53 is an important road in the district, the traffic predominantly consists of cars, but local movements of 2 wheelers and auto were observed. Hence traffic diversion during construction is the key factor.

A key map of the project Highway is shown below.



Salient features:

S. No	Description of Item	Quantity
1	The Total Length of Road proposed	36.80 Km
2	Carriageway width + shoulder (Both sides)	7.25 +1 m
3	Road Side Drain (Both side- Total)	68.49 Km
4	Major Bridges -LHS NEW	1 No.
4.1	Minor Bridges (Re construction -1 No, Widening-2 No)	3 No.
5	Culverts	
5.1	Reconstructions: Pipe Culverts to Pipe Culverts	11 Nos
5.2	Reconstructions: Pipe Culverts to Box Culverts	2 Nos
5.3	Reconstructions: Slab Culverts to Box Culverts	30 Nos.
5.4	New Construction: Box Culverts	2 No

5.5	Retaining/ Widening Culverts	0
5.5.1	Widening Culverts	65 Nos
6	Bus Shelters	54 Nos
7	Metal Beam Crash Barrier	5.6 Km
8	Pedestrian Guard Rail	13.90 Km
9	Major Junctions	16 Nos
10	Minor Junctions	94 Nos
11	Railway Crossings	-
12	Foot Path Both sides (Lhs-2.12+ Rhs 3.44)	5.56 Km

Name of the contractor	Duration in Months	Contract Value in Crores	Appointed Date	Original Date of Completion
M/s KMC Constructions	24	323.10	27-Jan-21	28-Jan-2023

Status as on 30th Apr '2021:

Status of Manpower & Machinery Mobilization:

The details of contractor key personal and machinery details are presented in the below

Table 31 RKI 07 Key Personnel Mobilization Status

SL No	Name	Designation
1	M Balarami Reddy	Sr. Project Manager
2	M V N Murali Krishna	Deputy Project Manager
3	N V S Prasad	Quantity Surveyor
4	M Penchal Rao	Material Engineer
5	Ramakrishna Reddy	Plant & Machinery Coordinator
6	N Mallikarjun	Utility Shifting Supervisor
7	V Narasaiah	Utility Shifting Engineer
8	Aneesha Fatima	Environment Engineer
9	Aarafath Sahib	Health & Safety Engineer
10	V Pratap Reddy	Highway Engineer
11	Mahendra	Surveyor
12	Shiva	Survey Assistant
13	R Satishkumar Reddy	QS & Planning Engineer
14	K.Rajkumar	Highway Engineer
14	D Ajay	Structural Engineer

15	Sk.Davood	QA/QC Engineer
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Table 32 RKI 07 Machinery Mobilization Status

S.No	Machinery	Registration No	Number of machines	Remarks
1	Excavator	L & T KOMATSU 130	1	
2	Excavator	VOLVO	1	
3	Excavator	TATA	1	
4	JCB	AP 26 AY 8425	1	
5	JCB	KL 14H 3941	1	
6	JCB		1	
7	Water Tanker	KL 08 BU 8469	1	12000 lts
8	Tippers	KL 10 AF 5299	1	1.5 Unit
9	Tippers	KL 13 AH 1455	1	1.5 Unit
10	Tippers	KL 51 B 7546	1	1.5 Unit
11	Tippers	KL 31 B 5085	1	1.5 Unit
12	Tippers	KL 51 A 7693	1	1.5 Unit
13	Tippers	KL 09 R 4761	1	1.5 Unit
14	Tippers	KL 51 B 7546	1	1.5 Unit
15	Tippers	KL 52 A 6708	1	1.5 Unit

Physical Progress:

Table 33 RKI 07 Physical Progress

Sl. No.	Description	Status	Remarks
1	Chainage and Centerline marking of Existing Road	Completed	
3	Clearing and Grubbing	Completed	17+000 to 20+0000 BHS & 3+000 to 5+000 BHS
4	Utility Shifting estimate – Water Authority	In Progress	Estimate Under Process by KWA
5	KSEB	In Progress	Estimate Under Process by KSEB
6	Tree cutting valuation and cutting permission	In Progress	Tree counting & Numbering completed.
7	RoW identification with revenue dept	In progress	
9	Cleaning & Excavation of Culverts	In progress	10+734 RHS,11+033 RHS,19+435 RHS,19+475LHS
11.1	CBR sample collection and crust details at every 2 km	In progress	10 Kms completed
11.2	Excavation of Drain	In progress	1958 Rm Completed
11.3	Drain PCC	In progress	990 Rm Completed
	Drain Raft	In progress	523 Rm Completed
	Drain Wall	In progress	65 Rm Completed
11.4	Soil Investigation for Structures	Not started	
12	Videography of existing road with narration	Not started	

12 a	Environmental tests (Noise, Air, Sound, & Water)	Completed	27/04/2021
13	Topographic survey		
13.2	Conducted GPS survey	Completed	
13.3	Erection of TBM pillars.	Completed	
13.4	Topography Survey for the road	Completed	
13.5	Detailing	-	
14	Traffic surveys		
14.1	Traffic Volume Count	Completed	
14.2	Junction Volume count	Completed	
14.3	Axial Load survey	Completed	
14.4	Origin – destination Survey	Completed	
15	Mobilization for Base Camp and required Plants	In Progress	
16	Temp. Site office for the project.	Completed	At CH 20+200
17	Approvals (Drawings)		
17.1	Plan & Profile (10+000 to 19+900)	Approved	
17.2	Plan & Profile (19+900 to 28+160)	Submitted	Awaiting Approval drawing.
17.3	Plan & Profile (0+250 to 10+000)	Submitted	Awaiting Approval drawing.
17.4	Design and Drawings for Box culverts	Review comments given	Awaiting Final drawing.
17.5	Strip Chart	Submitted	Awaiting Approval drawing.
17.6	Cross road Utility at every 1Km interval along the stretch	Submitted	Awaiting Approval drawing.
17.7	Drain Invert Levels from 10+000 to 20+000	Review comments given	Awaiting Revised submission..
17.8	Drain Design and Drawing	Resubmitted	Awaiting Approval drawing.

Current Status of Plan & Profile and Culvert design approval in RKI- 7

Status of Plan & Profile

Table 34 Status of Plan & Profile RKI 07

Chainage	Description	Remarks
10+000 to 20+000	Plan and Profile	Approved

Status of Culvert Design

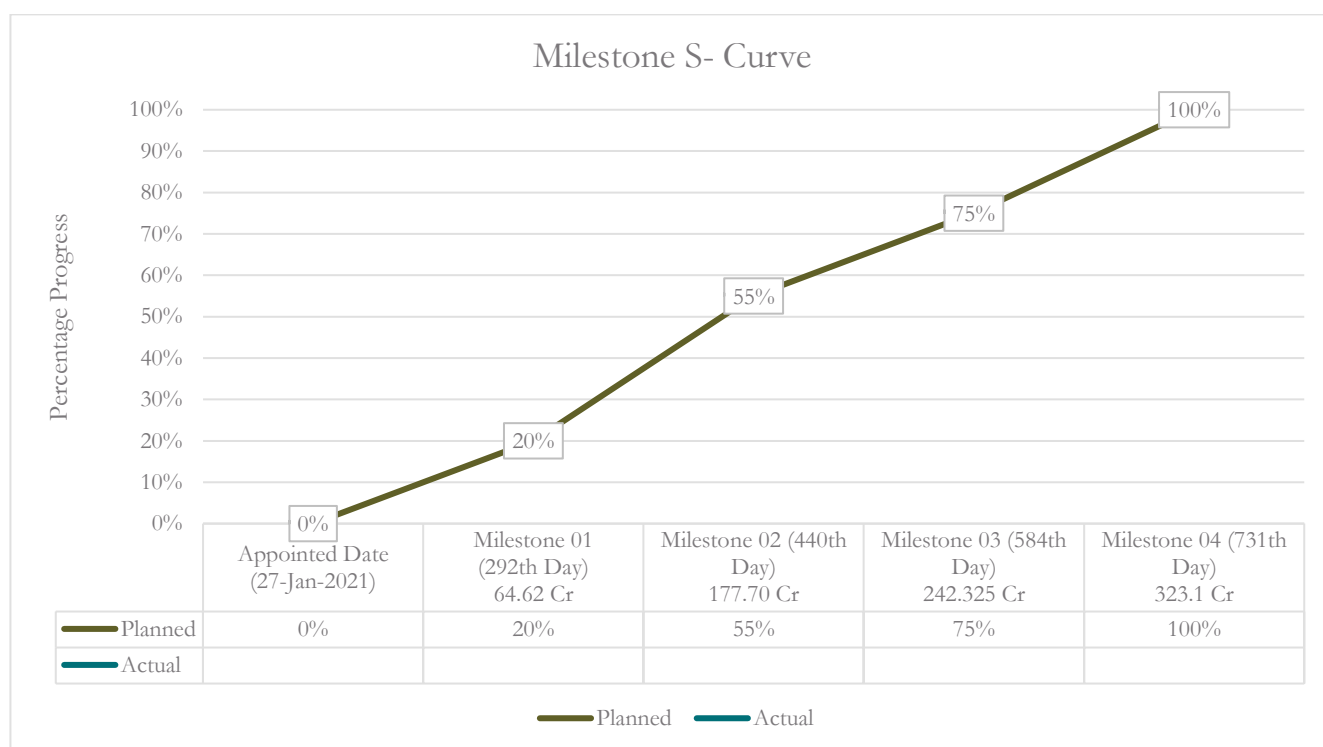
Table 35 Status of Culvert Design RKI 07

SNO	Description	No	Remarks
1	Box Culvert (2 mX1.5 m)	11	Approved with Comments
2	Box Culvert (2 mX1.5 m)	4	Approved
3	Box Culvert (2 mX1.5 m)	8	With Contractor
4	Widening Culvert	11	With Contractor
5	Widening Culvert	11	Approved with Comments
6	Pipe Culvert	3	Approved with Comments

Financial Progress:

Milestone Schedule:

Project Milestone	Description (Days from Appointed Date)	Financial Progress		Milestone Date		EOT (If any)	Remarks
		Planned Financial Progress %age	Actual Financial Progress %age	Scheduled Date	Actual Date		
Milestone I	292	20%	-	15-Nov-21	-	-	
Milestone II	440	55%	-	12-Apr-22	-		
Milestone III	584	75%	-	03-Sep-22	-		
Milestone IV	731	100%	-	28-Jan-23	-		



Summary of Quality Control Tests:

The summary of quality control tests conducted/witnessed by Authority Engineer are presented below

Table 36 RKI 07 Quality Control Tests

S.NO	Item of Work	Name of Test	No. of Tests conducted/ witnessed
1	OGL Soil	FSI	40 Nos
		Proctor test	40 Nos
		LL & PL test	40 Nos
		GSA test	40 Nos
		CBR Test	20 Nos
		FDD Test	-
2	Concrete M 15 grade	slump test	10 Nos
		07 days compressive strength	30 Nos
		28 days compressive strength	09 Nos
3	Concrete M 25 grade	07 days compressive strength	24 Nos
		28 days compressive strength	-
		slump test	6 Nos
3	Coarse aggregate for concrete	Gradation	6 Nos each
		(20mm & 12.5 mm)	6 Nos each
		Aggregate Impact Value (AIV)	8 Nos
		FI & EI Test	8 Nos
4	Fine aggregate for Concrete (M/Sand)	Gradation	6 Nos
5	WMM Mix Design	Gradation	10 Nos
		Proctor test	01 No
		AIV test	02 Nos
		LL & PL Test	01 Nos
		FI & EI Test	01 Nos
		W/ Absorption test	02 Nos
6	GSB Mix Design	Gradation	10 Nos
		LL & PL test	1 Nos
		Proctor test	1 Nos
		CBR Test	1 Nos
		W/Absorption	2 Nos
		FDD Test	-

Land Encroachments and Clearances:

The confirmation regarding encroachment and clearance details is still pending from the Revenue department. Contractor is in process of getting other permits as listed

Table 37 RKI 07 Status of Other Permits

Sl. No.	Types of clearance	Applicability	Status
1.	Tree felling permission	For roadside tree cutting	Under process
2.	Consent for establish	Hot mix plant, Batching plant, wet mix macadam, stone crushers	Under process
3.	Consent for operate	Hot mix plant, Batching plant, wet mix macadam, stone crushers	NIL
4.	Explosive license from chief controller of explosives	For storing fuel oil, lubricants, diesel etc.,	NIL
5.	Quarry lease deed and quarry mining from state department of mines and geology	Quarry operation (for new quarry)	Under process
6.	Permission for extraction of ground water for use in road construction activities from state ground water board/central ground water authority	Extraction of ground water	Under process
7.	Permission for use of water for construction purposes from irrigation department`	Use of surface water for construction	NIL
8.	Labour license from labour commissioner office	Engagement of labour	Under process
9.	Stock yard	Stocking materials for the project	15+300 LHS
10.	Borrow areas	Stocking of soil along the stretch	18+300 RHS 15+300 LHS

Bank Guarantee:

Bank Guarantee details of RKI 07 are presented below:

Table 38 RKI 07 Bank Guarantee

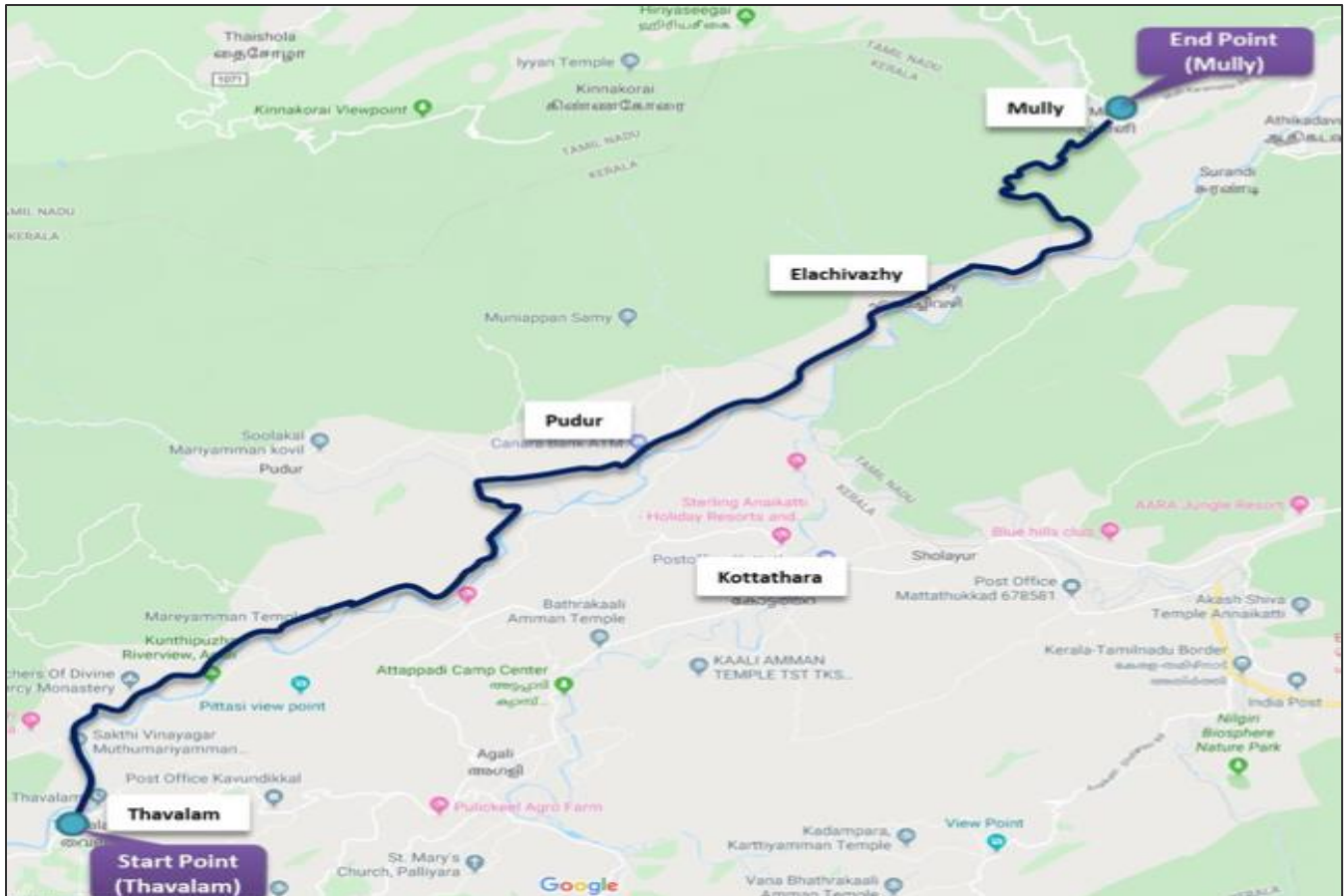
S.No	Description	Bank Guarantee No.	Value of Bank Guarantee (CR)	Valid		Remarks
				From	To	
1	Performance Security bank guarantee Against the advance payment	00054IG200000016	25.8480	9/11/2020	8/11/2023	Indian Bank
2	Performance Security bank guarantee Against the advance payment (ESHS)	100620IGPER0237	6.462	9/11/2020	8/11/2023	Union Bank of India

10) RKI-8 : Upgrading of Thavalam to Mulli road to intermediate lane

Project Description :

The project starts at Thavalam (Ch: 0+000) and ends at Mulli, with sharing the border with Tamil Nadu (Ch: 28+500) in Palakkad District.

A key map of the project Highway is shown below.



Salient features

Sl. No	Important Parameters	Original Contract
1.	Total Length of Project	28.50 Km
2.	Widening/Reconstruction of Road	25.4 Km
3.	Partial Reconstruction of Road	3.1 Km
4.	Widening of Existing Bridges	3 Nos
5.	New Minor Bridges	1 Nos
6.	Reconstruction of Culverts to Minor Bridges	3 Nos
7.	Reconstruction of Pipe Culvert to New Pipe Culvert	6 Nos

8.	Reconstruction of Slab Culvert to Box Culvert	7 Nos
9.	Widening of Slab Culvert to Box Culvert	3 Nos
10.	New Box Culverts	27 Nos
11.	Major Junctions	7 Nos
12.	Minor Junctions	39 Nos
13.	Bus Shelter	10 Nos
14.	Stone masonry/Concrete Retaining wall	6240 m
15	RCC Drain	6100 m
16	Slope Protection	3140 m

Name of the contractor	Duration in Months	Contract Value in Crores	Appointed Date	Original Date of Completion
M/s Akshaya EKK JV	18	132.8	23-Nov-2020	25-May-2022

Status as on 30th Apr '2021:

Status of Manpower & Machinery Mobilization:

The details of contractor key personal and machinery details are presented in the below

Table 39 RKI 08 Key Personnel Mobilization Status

Sl. No	Name	Designation
1)	Reghunathan.K	Project Manager
2)	Radhakrishnan PM	Deputy Project Manager
3)	Jose Moan Antony	Senior Structural Engineer
4)	Musthafa Ummar	Senior Structural Engineer
5)	Chandramohan	Utility Engineer
6)	Aneesa Abdul Lathif	Material Engineer
7)	Ananthajith B	Quantity Surveyor
8)	Umeshkumar K P	Highway Engineer
9)	Sreejith.S	Health & Safety Engineer

Table 40 RKI 08 Machinery Mobilization Status

Sl No.	Type of equipment	Capacity	Nos.
1	Concrete batching plant	30 m ³ /hr	1
2	WMM/CTB plant	30 m ³ /hr	1
3	Ajax	2 m ³ /batch	1
4	Excavators	1 m ³ bucket size	3
5	Hydraulic excavator with rock breaker	6 cum per hour	3
6	Vibratory Roller	8 - 10 ton	2
7	Grader		1
8	Water Tanker	12000 litre	1
9	Dump Truck	150 cft	4
10	Tippers	600 cft	2
11	Total Station with Accessories	Minimum 2 sec accuracy	2
12	Dumpy level		3

Physical Progress

Table 41 RKI 08 Physical Progress

SL No.	Description	Status	Remarks
1	Marking of existing chainage @ 25 m interval	Completed	
2	Road inventory	Completed	
3	Utilities, Trees, forest area, RoW Listing	Completed	
4	Utility Shifting cost and shifting-Electrical	In Progress	Commenced
5	Utility Shifting cost and shifting-Water Pipe lines	In Progress	Estimate sent to KSTP
6	Tree cutting valuation and cutting	In Progress	Cutting permission from Forest dept. sent to KSTP. KSTP has to initiate the auction works.

7	RoW identification with revenue dept	In Progress	
8	Culvert inventory condition surveys	Completed	
9	MOU	Completed	
10	Geotechnical investigations	Commenced at bridge locations	
11	CBR sample collection and crust details at every 2km	Completed	
12	Videography of existing road with narration	Completed	
13	Topographic survey		
13.1	Erection of GPS Pillars- 50X50X70 cm	Completed	
13.2	GPS observation	Completed	
13.3	Erection of TBM pillars 30X30X500 cm	Completed	
13.4	Total station traversing	Completed	
13.5	Level traversing	Completed	
13.6	Detailing	Completed	
14	Traffic surveys- Axle load, volume Count,	Completed	
15	Horizontal alignment	23 Km	
16	Vertical Alignment	23 Km	
17	Plan and Profile	17 Km	
18	GADs of structures	In Progress	GADs of MNB @ 0+189 and 3+711 submitted.
19	GADs for culverts	In progress	
20	Detailed Design of bridges	In progress	
21	Detailed Design of Culverts	In progress	
22	Traffic Analysis and Pavement Design	Completed	
23	CL transfer	In progress	
24	OGI survey	Completed	
25	Detailed cross section	In progress	
26	Material source identification, test, cement and steel reports	completed	

27	Mix design and approval	In progress	Concrete mix designs of M15, M20, M25 and M30 are approved.
28	Construction start	commenced	
29	Submission of Programme, HSE & TMP Plan	Submitted	Approved
30	Submission of Plan & Profile	0 to 9.96 km submitted	Approved.

Site works

1	Clearing and Grabbing	4.5 Km completed	
2	Dismantling and removal of BT	3.85 Km RHS and 2.4 Km LHS complete	
3	Subgrade preparation	160 m LHS complete	
4	Retaining wall	160 m stone masonry retaining wall complete except parapet	
5	RCC Drain	190 m PCC Complete	
6	Culverts	One side PCC complete for BC @ 1+860, 5+625, 8+548, 9+179	

SL No	Item	Scope	During April21	Up to date	Remarks
1	Clearing and Grubbing	28500 m	3000	7600	
2	BT removal and excavation	28500 m	300	3470	
3	Subgrade	28500 m	500	300	300 m subgrade work in progress
4	CTSB	25400 m	-	-	
5	CTB	25400 m	-	-	
6	GSB (Km.12+400 to Km.15+500)	3100 m	-	-	
7	WMM (Km.12+400 to Km.15+500)	3100 m	-	-	
8	BC	28500 m	-	-	

Current Status of Plan & Profile and Culvert design approval in RKI- 8

Status of Plan & Profile

Table 42 Plan & Profile Status RKI 8

Chainage	Description	Remarks
0+450 to 9+990	Plan & Profile	Approved

Status of Culvert Design

Table 43 Status of Culver Design RKI 8

SNO	Description	No	Remarks
1	Box Culvert (2 mX1.5 m)	3	Reviewed and returned to Contractor for resubmission
2	Box Culvert (2 mX1.5 m)	8	Approved
3	Box Culvert (6 mX6 m)	1	Approved

Utility Shifting (Electrical and Water)

Regarding electrical utility shifting, KSTP has paid the supervision charges to KSEB and commenced the shifting works from 23.03.2021 in coordination with Agali and Kottathara sections.

Puthur Grama Panchayath sent estimate for shifting water pipelines to KSTP ExecutiveEngineer Office, Kannur. KSTP EE forwarded the same to KSTP CE office for sanction and supervision charge remittance.

Tree Cutting

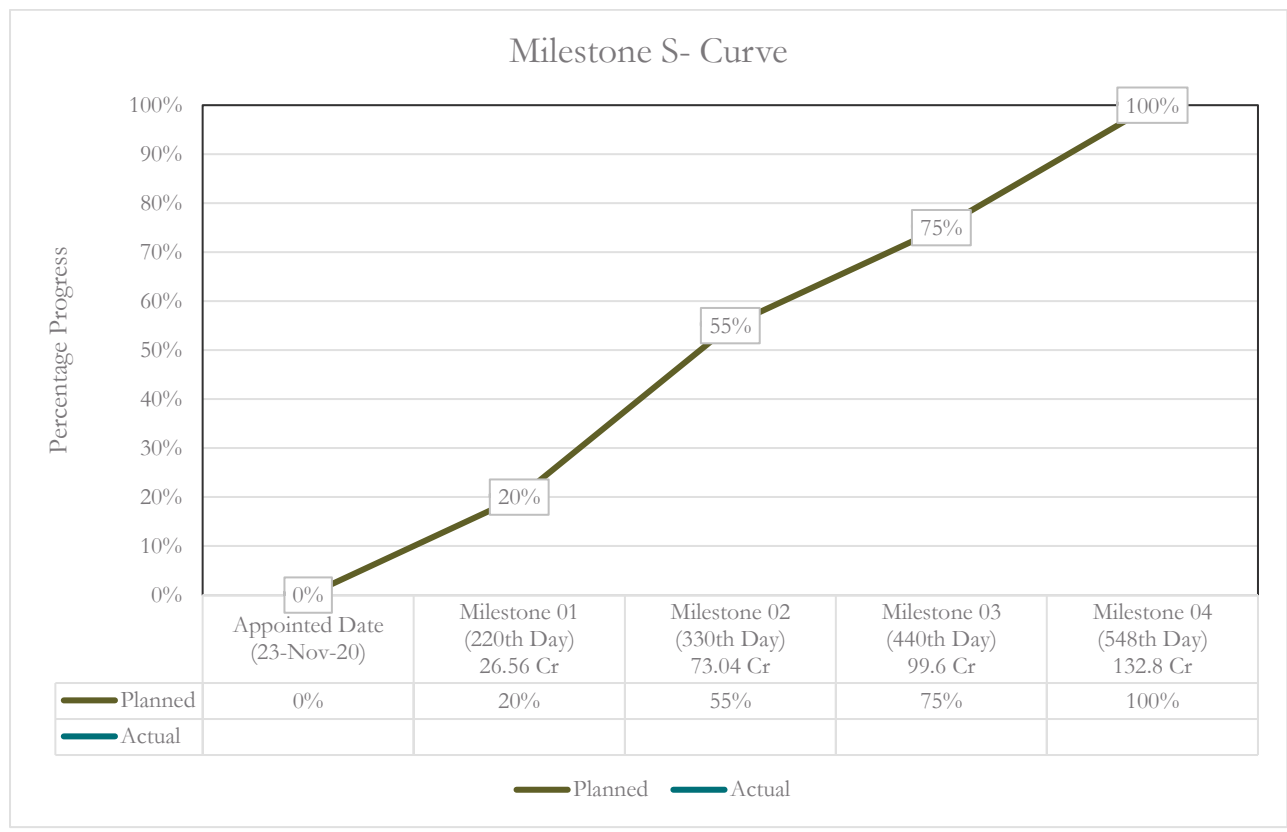
From Social Forest Office, cutting permission letter sent to KSTP Kannur office on 25.03.2021.KSTP has to commence the auction for the same.

Financial Progress:

- ❖ Mobilization Advance of Rs.6.64 Cr has been issued to Contractor

Milestone Schedule:

Project Milestone	Description (Days from Appointed Date)	Financial Progress		Milestone Date		EOT (If any)	Remarks
		Planned Financial Progress %age	Actual Financial Progress %age	Scheduled Date	Actual Date		
Milestone I	220	20%	-	01-Jul-21	-	-	
Milestone II	330	55%	-	19-Oct-21	-		
Milestone III	440	75%	-	06-Feb-22	-		
Milestone IV	548	100%	-	25-May-22	-		



Summary of Quality Control Tests:

The summary of quality control tests conducted/witnessed by Authority Engineer are presented below

Table 44 RKI 08 Quality Control Tests

Sl No.	Item of Work	Name of Test	No. of Tests conducted/witnessed
1	OGL Soil	MDD and OMC	6 Nos
		LL & PL test	6 Nos
		Free Swell index (FSI)	6 Nos
2	Concrete M 15 grade	slump test	5 Nos
		07 days compressive strength	5 Sets
		28th days compressive strength	3 sets
	M 20 grade	slump test	5 Nos
		07 days compressive strength	2 Sets
		28th days compressive strength	3 sets
3	Coarse aggregate for concrete	Gradation	10 Nos
		Moisture Content	10 Nos
		AIV	10 Nos
		FI	10 Nos
		Specific gravity and Water absorption	2 Nos
4	Coarse aggregate for concrete	Gradation	22 Nos
		Silt Content	22 Nos
		Moisture Content	22 Nos

		Specific gravity and Water absorption	2 Nos
5	Cement	Fineness	1 Nos
		Consistency	1 Nos
		Initial and Final Setting time	1 Nos
		Cement Motar Cube	16 ets

Land Encroachments and Clearances

There is no land acquisition proposed in the EPC agreement. The surveyors from Revenue Dept. commenced the boundary identification of existing road from 22.03.2021. The clearances summary for the project requested/received in listed in the below table .

Table 45 RKI 08 Status of Other Permits

Sl No	Permit type	Action	Status/Remarks
1	Environment Clearances		Not required as per Notification of MoEF dated 22/08/2013 (Schedule A (Annex.4))
2	Clearance of Pollution control board for installation of batching plant	Applied to PCB	Approval received
3	Building permit from Panchayat for camp/plant	Applied to Puthoor Panchayath	Permit Received
4	Sanction from Forest department for carrying our construction works in forest areas	Requested to Forest Department	Sanction awaited
5	Tree felling permission	Social Forestry Dept. send cutting permission and estimate to KSTP.	KSTP has to commence the auction works.
6	Consent for establish	Applied to Puthoor Panchayath	Consent Received
7	Consent for operate	Applied to Puthoor Panchayath	Under processing
8	Explosive license from chief controller of explosives	NA	
9	Quarry lease deed and quarry mining from state department of mines and geology		Under processing
10	Labour license from labour commissioner office		Under progress
11	Stock yard		NOC Received from land owners
12	Borrow areas		Sampling in progress

Bank Guarantee:

Bank Guarantee details of RKI 08 are presented below:

Table 46 RKI 08 Bank Guarantee

S.No	Description	Bank Guarantee No.	Value of Bank Guarantee (CR)	Valid		Remarks
				From	To	
1	Bank guarantee Against Performance Security	IBG110852	106.248	10/28/2020	4/28/2023	Federal Bank
2	Bank guarantee Against Environmental, Social, Health and Safety (ESHS)	IBG110853	2.6562	10/28/2020	4/28/2023	Federal Bank

5.3. Central Package 03

Table 47 Central Package 03 Status

Status of Central Package 03 funded by Kfw																
S.No	Packag e	Road Name	Road Ref No	District	Length (Kms)	Duration	Maintenan ce Period	Tender Submission Date	Technical bid Opening	Financial Bid Opening	LOA Issued	*Bid Price in Crs	Agreement Date	Contractor	Status	
1	Packag e 03	Mookannoor Ezhattumugham Rd ch 0/000 to 14/200 and Blachippara Palissery Rd ch 0/000 to 6/000	RD -1	Ernakulam	19.95	18	60	22-Oct-20	22-Oct-20	12-Jan-21	25-Feb-21	91.89	29-Apr-21	M/s Marymatha-Akshaya (JV)	* Agreement Executed on 29th Apr'21	
2		Kakkadassery - Kaliyar road Ch. 0/000 to 20/000	RD-02	Ernakulam	20.18	18	60	15-Mar-21	15-Mar-21	23-Apr-21	-	67.74	-	-	*Financial bid opened on 23rd April'21 *FBER submitted by LBI on 28th Apr'21	
3		Muvattupuzha - Theni SH (Ch. 0/000 to 15/750)	RD-03	Ernakulam	16.18	18	60	08-Feb-21	08-Feb-21	24-Mar-21	-	80.91	-	-	*NO for FBER from KfW received on 21st Apr'2021 *Quoted amount is 8.44% above estimated amount *Waiting for steering committee approval to issue LOA	
4		Kumarakom Nedumbassery (proposed SH) from Peruva to Peruvammuzhi	RD-04	Ernakulam	21.40	18	60	26-Feb-21	26-Feb-21	30-Mar-21	21-Apr-21	96.85	-	-	M/s Ray Engineering - PRL JV	*LOA issued to M/s Ray Engineering -PRL JV on 21st Apr'2021
5		Neyyassery Thokkumbansaddle road	RD-05	Idukki	31.92	24	60					-	144.3	-	-	Modified ESIA report descoping 2.72 Km has been sent to KfW on 20th Apr'21
6		Nenmara - Nellyampathy road km 0/00 to 30/714	RD-06	Palakkad	30.47	24	60					-	95.72	-	-	Forest land Issues
7		Kodungallur- shornur SH (SH 22)	RD-07	Thrissur	34.35	24	60	02-Nov-20	02-Nov-20	01-Jan-21	22-Jan-21	203.22	08-Mar-21	M/s. Gawar Construction Ltd. ATCON India Ltd. (JV)	*Agreement executed on 8th Mar'21 *Advance payment of Rs.9.73cr has been released	
8		Vazhakkodu Plazhy road Km.0/000 to 22/642	RD-08	Thrissur	22.72	18	60	29-Mar-21	29-Mar-21	-	-	93.68	-	-	-	*Bid opened on 29th Mar'2021 *TBER submitted by LBI on 29th Apr'21
9		Thrissur Kuttippuram Road (SH 69) 4 stretches (Many stretches in between in progress by other agency KIIFB)	RD-09	Thrissur	33.24	24	60	09-Mar-20	09-Mar-20			-	212.82	-	-	*Bid opened on 9th Mar'21 *TBER submitted by LBI on 24th Mar'21
10		Arakunnam-Amballoor-Poothatta-Piravam Road	RD-10	Ernakulam	7.98	12	60	18-Mar-21	18-Mar-21	-	-	27.94	-	-	-	*Tender Opened on 18th Mar'2021 *TBER submitted by LBI on 30th Mar'21
Total Length of Central Package 03 (Kms)					238.39											

Note: Bid Price is including GST and maintenace cost for 5 years

5.4. South Package 04

Table 48 South Package 04 Status

Status of South Package 04 funded by KfW																		
S.No	Package	Road Name	Road Ref No	District	Length (Kms)	Duration	Maintenance Period	Tender Submission Last Date	Technical bid Opening	TBER Submission	NO from KfW	Financial Bid Opening	FBER Submission	LOA Issued	*Bid Price in Crs	Agreement Date	Contractor	Status
1	Package 04	Gandhinagar-Medical College-Babu Chazhikadan Road- Kottayam-Parippu Road-Athirampuzha Liessue-Kaippuzha- Mannanam-Pulikuttissery-Parolickal-Muttappally Road	Rd-1	Kottayam	20.20	18	60	18-Dec-20	18-Dec-20	28-Dec-20	07-Jan-21	11-Jan-21	25-Jan-21	25-Feb-21	121.11	-	M/s Sreedhanya Construction Company	*Draft Agreement sent to KfW for NO on 8th Mar'2021 *NO for draft agreement received on 14th Apr'21
2		Vadayar Chandappalam- Mulakkulam Road and Vadayar Kallattippalam Muttuchira Road	Rd-2	Kottayam	22.48	18	60	29-Mar-21	29-Mar-21					-	98.96	-		*Bids are opened on 29th Mar'21 * TBER submitted by LBI on 21st Apr'21
3		Pathanamthitta Ayroor-Muttukudukka illathupadi - Muttukudukka prakkanam - Parakkanam Elavumathitta - Kulanada Ramanchira - Thanikkuzhy Thonnamala	Rd-3	Pathanamthitta	28.20	18	60	18-Dec-20	18-Dec-20	29-Dec-20	20-Jan-21	21-Jan-21	08-Feb-21	25-Feb-21	107.52	22-Apr-21	M/s Theruvath-PRL (JV)	Agreement executed on 22nd Apr'2021
4		Mallapally, Komalam Paduthodu Kalloopara Chengaroor Komalam Kavungumprayar Pattakala, TMV road (Road 4)	Rd-4	Pathanamthitta	23.13	18	60	30-Nov-20	30-Nov-20	18-Dec-20	12-Jan-21	18-Jan-21	08-Feb-21	25-Feb-21	102.90	09-Apr-21	M/s SPL-RM JV	* Agreement was executed on 9th Apr'21 *Advance payment of Rs.4.92 Cr has been release to the contractor
5		Malamekkara Kunnathukala Chala Puthenchanda factory Jn Azad Jn road 0/00 to 8/600	Rd-5	Pathanamthitta	7.87	18	60	05-Oct-20	05-Oct-20	12-Dec-20	05-Jan-21	13-Jan-21	25-Jan-21	22-Jan-21	28.80	08-Mar-21	M/s. KNM-EKK JV	*Agreement executed on 8-Mar-21 * Contractors Request for mobilization advance is in process
6		Thiruvananthapuram Pomudi road (From Nedumangad to Pomudi)	Rd-6	Thiruvananthapuram	41.75	24	60								203.42	-	-	* Estimate to be reworked due to de-scoping of project
7		Thattarambalam-Michael Junction-Kochalumood-Mangankuzhy-Pandalam	Rd-7	Allapuzha	18.66	18	60	30-Nov-20	30-Nov-20	18-Dec-20	12-Jan-21	18-Jan-21	12-Feb-21	25-Feb-21	119.13	29-Apr-21	M/s Begorra PRL JV	*Agreement executed on 29th Apr'21
8		Veeyapuram-Edathua-Puthukarry-Marnbuzhakkary-Kidangara-Kunnamgary-Kumarangary-Valady-Mullakamthuruthy	Rd-8	Allapuzha	21.45	18	60	18-Dec-20	18-Dec-20	23-Dec-20	07-Jan-21	11-Jan-21	20-Jan-21	22-Jan-21	108.9	03-Mar-21	M/s Sreedhanya Construction Company	*Agreement executed on 03-Mar-21
9		Vayuttupuzha-Potheppad Road	Rd-9	Pathanamthitta	35	18	60	-	-				-	-	-	-	-	-
Total Length of South Package 04 (Kms)					218.64													

Note: Bid Price is including GST and maintenance cost for 5 years

5.5. Statement of Expenditure 01 for KfW projects

Road Name		Amount Budgeted/Contract Amount			Exepnditure in Preceding Accounting Periods		Expenditure in current accounting Period				Total Expenditure till Date		
		Total*	PWD (30%)	KfW (70%)	PWD (30%)	KfW (70%)	PWD (30%)	KfW (70%)		Total Amount (100%)	PWD (30%)	KfW (70%)	Total Amount (100%)
								Loan 80 Million (47%)	Loan 90 Million (53%)				
Pkg III Rd 7	Kodungallur Shornur Road	1,94,47,33,496	58,34,20,049	1,36,13,13,447	0	0	2,91,71,003	9,72,36,675	3,60,74,806	9,72,36,675	2,91,71,003	6,80,65,672	9,72,36,675
Pkg IV Rd 4	Mallapally Komalam Road	98,46,87,711.0	29,54,06,313	68,92,81,398	0	0	1,47,70,316	4,92,34,385	1,82,65,957	4,92,34,385	1,47,70,316	3,44,64,069	4,92,34,385
Total							4,39,41,319	10,25,29,741		14,64,71,060	4,39,41,319	10,25,29,741	14,64,71,060

*Contract Amount is Excluding Maintenance

❖ In addition to the above expenditure, Mobilization advance of Rs.1,89,26,422 against fixed fee has been released to Louis Berger Consulting Pvt. Ltd., India JV with The Louis Berger Group, Inc., USA

5.6. Activities Completed by PMC in the month of Apr'2021

The following Table provides a brief snapshot of the bid evaluations and other activities that has been taken up and completed in the month of March 2021:

Table 49 Activities Completed in Apr'2021

Task	Description	Status
Evaluation of RD 02 (Pkg III)	<p>Rehabilitation and Up gradation of Kakkadassery - Kaliyar road</p> <ul style="list-style-type: none"> Bidders for Rd-02 (Package III) include <ol style="list-style-type: none"> M/s VKJ -RKIPL JV M/s EKK Infrastructure M/s Marymatha – George Elia JV M/s Radiance Realty Developers India Ltd. M/s Sreedhanya Construction Company 	<ul style="list-style-type: none"> Technical bids are opened on 15th Mar'21 Evaluation committee evaluated the bids and found M/s VKJ-RKIPL JV is incomplete without bid fee and therefore rejected. TBER has been submitted by LTPMC on 9th Apr'21. Financial bids are opened on 23rd Mar'2021. FBER submitted by LTPMC on 28th Apr'2021 The financial bid submitted by M/s Sreedhanya Construction Company is the lowest of four bids which is 0.26% above tendered amount
Evaluation of RD 03 (Pkg III)	<p>Rehabilitation and Up gradation of Muvattupuzha - Theni SH road</p> <ul style="list-style-type: none"> Technically responsive Bidders for Rd-03 (Package III) are mentioned below 	<ul style="list-style-type: none"> Financial bids are opened on 24th Mar'2021 LTPMC submitted the FBER on 3rd Apr'2021.

Task	Description	Status
	<ol style="list-style-type: none"> 1) M/s Marymatha Infrastructure (P) Ltd 2) M/s Sreedhanya Construction Company 	<ul style="list-style-type: none"> • The financial bid submitted by M/s Sreedhanya Construction Company is the lowest which is 8.44% above the tendered amount.
<p>Evaluation of RD 04 (Pkg III)</p>	<p>Rehabilitation and Up gradation of Kumarakom-Nedumbassery road (proposed SH)</p> <ul style="list-style-type: none"> • Technically responsive Bidders for Rd-04 (Package III) are mentioned below <ol style="list-style-type: none"> 1) M/s Marymatha Infrastructure (P) Ltd 2) M/s SPL-AF JV 3) M/s Ray Engineering – PRL JV 	<ul style="list-style-type: none"> • Financial bids are opened on 30th Mar'21 • LTPMC has submitted the FBER on 7th Apr'21 • The financial bid submitted by M/s Ray engineering -PRL JV is the lowest which is 1.06% above the tendered amount. • LOA issued to M/s Ray Engineering – PRL JV On 21st Apr'21
<p>Evaluation of RD 08 (Pkg III)</p>	<p>Rehabilitation and Up gradation of Vazhakkodu Plazhy road</p> <ul style="list-style-type: none"> • Bidders for Rd-8 (Package III) include <ol style="list-style-type: none"> 1) M/s Antec – PRL JV 2) M/s Marymatha Infrastructure (P) Ltd 3) M/s Tarmat Ltd 4) M/s EKK Infrastructure Ltd 5) M/s KMC Constructions Ltd 6) M/s Midland Engineering and Contracting company JV with M/s Udhayshivkumar Infra Pvt Ltd 	<ul style="list-style-type: none"> • Technical bids are opened on 29th Mar'21. • TBER has been submitted by LTPMC on 29th Apr'2021 • Five out of six bidders are found technically responsive and M/s Midland Engineering Contracting Company JV with M/s Udhayshivkumat Infra Pvt ltd is not found responsive.

Task	Description	Status
Evaluation of RD 2 (Pkg IV)	Rehabilitation and Up gradation of Vadayar Chandappalam- Mulakkulam Road and Vadayar Kallattippalam Muttuchira Road <ul style="list-style-type: none"> • Bidders for Rd-2 (Package IV) include <ol style="list-style-type: none"> 1) M/s Antech – PRL JV 2) M/s Marymatha Infrastructure (P) Ltd 3) M/s PCML -SM JV 4) M/s Tarmat Ltd 	<ul style="list-style-type: none"> • Technical bid was opened on 29th Mar’21 • TBER was submitted by LTPMC on 21st Apr’21. • Three bids out of 4 bids are found responsive and bid submitted by M/s PCML-SM JV is found not responsive due to noncompliance of financial requirements and shortfall in minimum quantities of work executed and key personnel prescribed for the project.
Review and Recommendations	RKI 14 Submission of Proposal for Road safety Consultant and Design Director	<ul style="list-style-type: none"> • LTPMC received the proposal on 19th Mar’21 • Reviewed the proposal and recommendation where submitted to KSTP on 9th Apr’21
Review and Recommendations	RKI 14 Submission of Proposal for Proof Consultants	<ul style="list-style-type: none"> • Reviewed the proposal and recommendation where submitted to KSTP on 20th Apr’21
With Drawal Application No 01	Withdrawal application of Rd 07 (Pkg III) and Rd 04 (Pkg IV)	<ul style="list-style-type: none"> • Submission of withdrawal application No 01 with necessary documents and consultants checklist is submitted on 23rd Apr’21

Task	Description	Status
Review and recommendations	Contractors Proposal to Postpone appointed date	<ul style="list-style-type: none">Remarks on proposal to postpone appointed date of RKI 09 has been submitted on 15th Apr'21

Source: Louis Berger Analysis

6. PROJECT PHOTOGRAPH

1. RKI 05 – Perumbilavu-Nilambur Road (Length 30.88)



Culvert Work In Progress



Side Drain Work In Progress



Road Work In Progress

2. RKI 06 - Koyilandy - Edavanna road between Km 51/200 to 69/700 & Areekode - Manjeri road Km 0/000 to 13/600



Culvert works, Precast drain works and Road works are in progress

3. RKI -7 : Palakkad -Perinthalmanna Road (Mundur Junction to Thootha Junction of SH-53)



Drain works in progress

4. RKI- 08 Thavalam Mully Road CH 0/000 to 28/800



Retaining Wall, Side drain, Culvert and Road Works are in progress

7. Conclusion

The intent of this Report has been to give a brief overview about the project along with the status of works that has been started/completed in April'2021.