

PROJECT MANAGEMENT FOR CLIMATE-RESILIENT RECONSTRUCTION AFTER FLOODING IN KERALA



MONTHLY PROGRESS REPORT FOR THE MONTH OF MAY 2021



Monthly Progress Report – May 2021

Project Name	Consulting Services for Project Management of Climate-Resilient Reconstruction after Flooding in Kerala	
Document Name	Monthly Progress Report – May 2021	
Document No.	4800221-PMC-11	Issue No. 1.0

ISSUE LOG/SIGNATURE PAGE

Issue No	Submission Date	Remark	Approved By	
			Name/Position	Signature
1.0		Monthly Submission	Mohan K. Krishnan Poduval Authorized Signatory	

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1. Introduction

1.1. Project Background

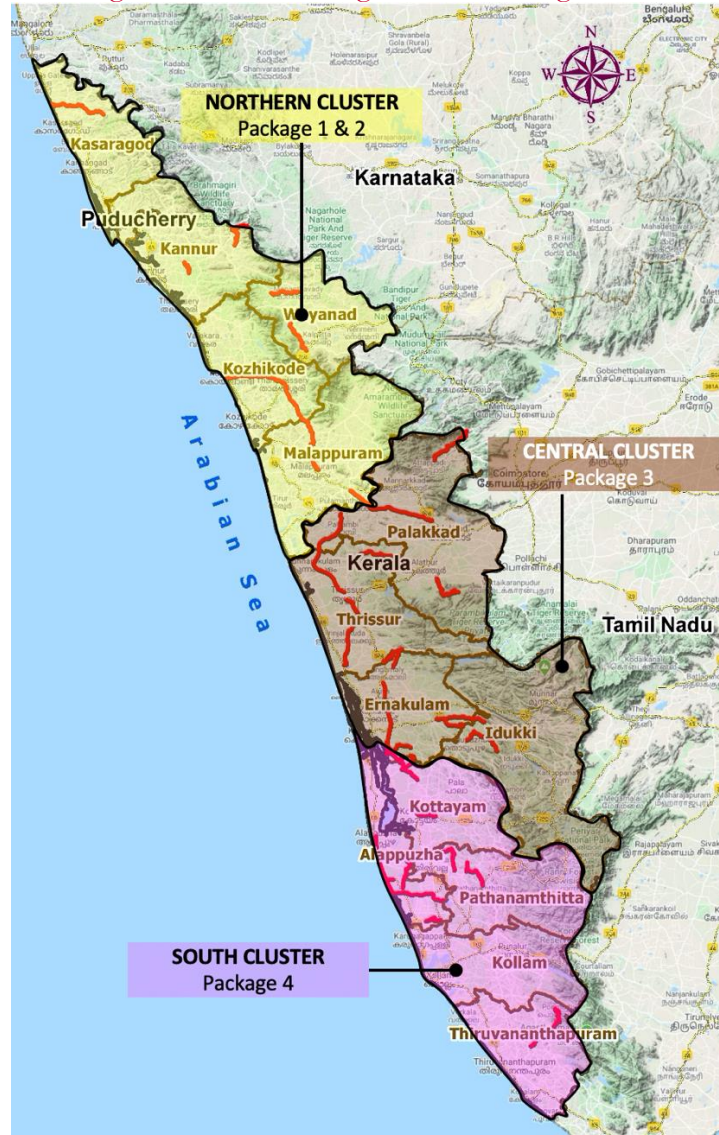
Kerala, a coastal State in the south of India, was inundated with a once in 100-year state-wide flood in 2018, by way of unusually high rainfall, that led to damages of nearly USD 5.6 billion, affected 5.4 million people, and left 483 people dead. This disaster, which affected thirteen out of the fourteen 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	Thattaranbalam-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)					218.73

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 and agreement was executed on 27th Oct’2020
- SAI-Orion JV has been selected as CSC for Lot 01 & 02.LOA has been issued on 28th May’2021.

Table 5 Supervision Consultants and Authority’s Engineer

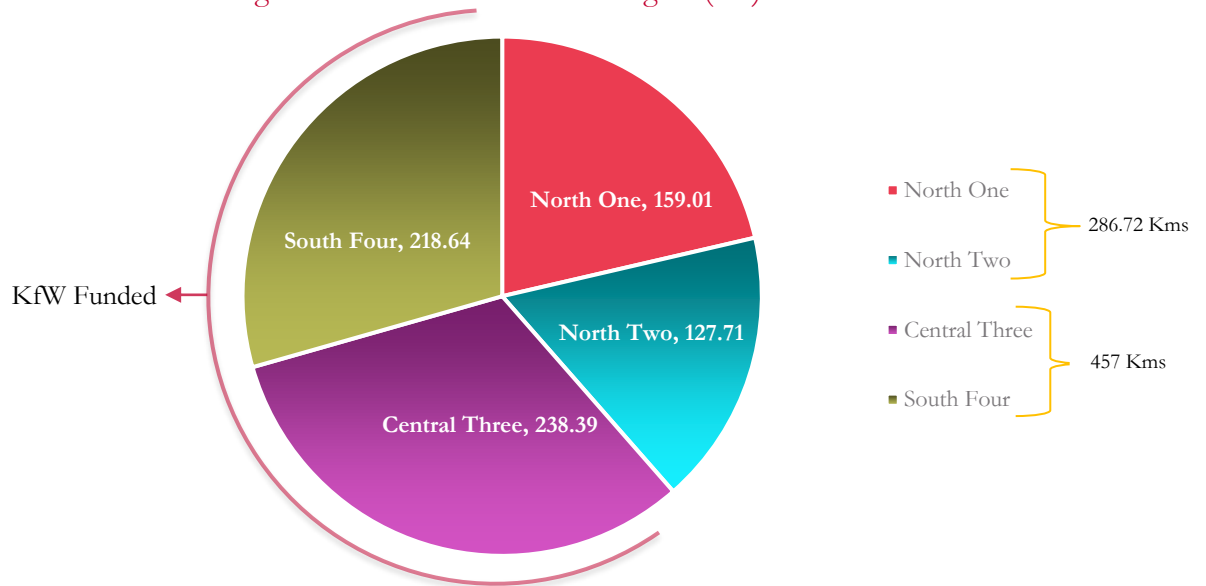
No	Contract Name	Package	Awarded to
1	Consulting Services for Construction Supervision for Climate Resilient Reconstruction after Flooding in Kerala	3 & 4	LOA issued to M/s SAI-Orion JV on 28 th May’2021
2	Consultancy Services For Authority’s Engineer For Supervision Of ‘Rehabilitation &Upgrading the 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 744 km (KfW 457 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.:

Figure 2 Bifurcation of Road Lengths (km)



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 :8
Report Duration	1-May-2021 to 31-May-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	Health and Safety Officer	Ghulam Jawed	02-May-2021		30	Full Time
6	Community Liaison Officer	Dilkush K	10-Sep-2020	-	30	Full Time
Non-Key Experts						
7	Materials & Pavement Engineer	Sunil Srivastava	10-Feb-2021	-	16	Full Time
8	Highway Engineer	Ambedkar Chilka	15-Feb-2021	-	20	Full Time
9	Bridge Engineer	S. Prasad	25-Feb-2021	-	16	Full Time
10	Environmental Specialist	V.Manikandhan	01-Apr-2021	-	16	Full Time
11	Planning Engineer	Amrutha	18-Aug-2020	07-Nov-2020	30	Full Time
		Y. Srikanth	8-Nov-2020	-		
12	Accompanying Pool of Experts (Intermittent)		11-Jan-2021		20	Intermittent
Supporting Staff						
13	Document Controller	Kishore Nair	24-Sep-2020	-	30	Full Time
14	Accountant	Balu V	23-Nov-2020	-	30	Full Time

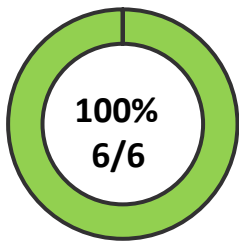
Source: Louis Berger Analysis

5. Progress of Construction

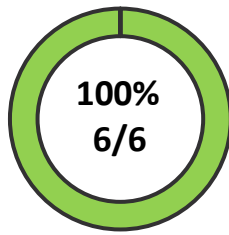
List of the Consultant(s) and Contractors incl. brief description of each Contractor's tasks, contract volume and results, appendices:

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

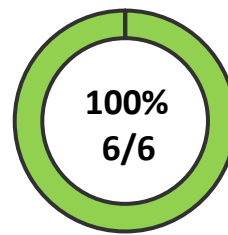
North Package 01 (Funded by World Bank)



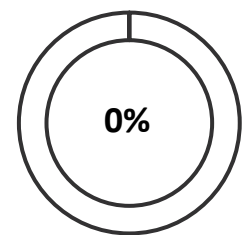
Tenders Published



Tenders Opened



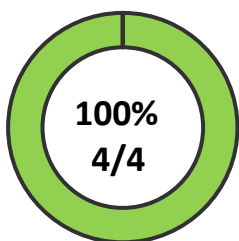
Contracts Awarded



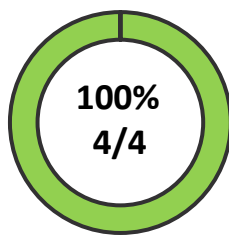
Construction Progress

- In North Package 01, all the contracts have been awarded and currently review of drawings and site establishment works 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.

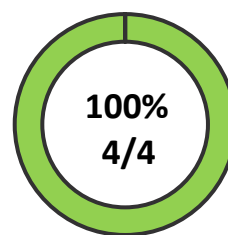
North Package 02 (Funded by World Bank)



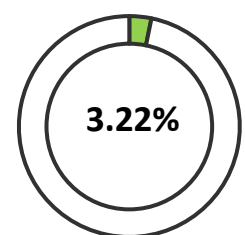
Tenders Published



Tenders Opened



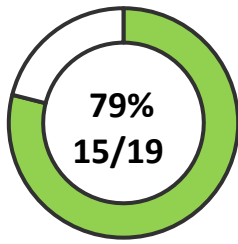
Contracts Awarded



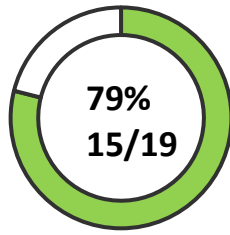
Construction Progress

- In North Package 02, progress achieved till May'21 is 25.41 Crs which is 3.22 % of 789.66 Cr
- M/s Egis India Consulting Engineer Pvt.Ltd. In JV with Orion Infra consulting Pvt.Ltd has been appointed as Authority Engineer 01 for North Package 01 and agreement has been signed on 27th Oct'2020.

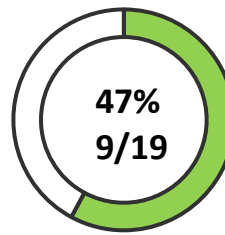
Central Package 03 & South Package 04 (Funded by KfW)



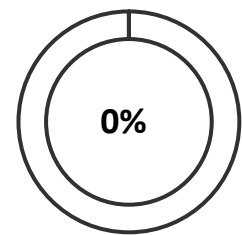
Tenders Published



Tenders Opened



Contracts Awarded



Construction Progress

- In Central Package 03, 3 roads (Rd-1,4,7) LOA has been issued, agreement of Rd 01 and Rd 07 has been signed, 5 roads (Rd-2,Rd-3,Rd -8,Rd-9,Rd-10) are in evaluation stage, Rd 06 in tendering stage and Rd 05 awaiting for KfW approval for tendering
- 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. Funding for Rd 06 will be done by World bank
- The commencement of contracts awarded in Pkg 3 and Pkg 4 are postponed until mobilisation of Construction Supervision Consultant

5.1. Status of North Package 01 & 02

Table 8 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	Contract Amount in INR Crores	Appointed Date	Completion Date	Contractor	Authority Engineer	Turnover Achieved till May'21 in Crs	Status till May'21
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	102.83	01-Mar-21	31-Aug-22	M/s ULCCS	M/s. MSV International Inc. JV M/s.JSV Associates Engineers Pvt.Ltd	-	* Appointed is revised from 29th Dec'2020 to 1st Mar'2021 *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	128.43	21-Dec-20	22-Jun-22	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 parallel to aqueduct at valayal)-Keezhallur Theerur Palayod-Vellaparamba Karimbala Colony Maruthaayi Road	Kannur	18.46	18	100.43	20-Apr-21	20-Oct-22	M/s EPIL		-	*Site Establishment and Survey Works are in progress
4		RKI-13	Kumbla- Badiadka-Mulleria Road	Kasargod	29.14	24	158.85	21-Jan-21	21-Jan-23	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	221.065	18-Mar-21	18-Mar-23	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	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	144	20-Jan-21	22-Jul-22	M/s KMC Constructions	M/s Egis India Consulting Engineer Pvt.Ltd. In JV with Orion Infra consulting Pvt.Ltd	10.45	*Financial progress achieved is 7.26%
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	189.76	23-Nov-20	25-May-22	M/s Shreedanya Construction Company		8.91	*Financial progress achieved is 4.69%
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	323.10	27-Jan-21	28-Jan-23	M/s KMC Constructions		0.55	*Financial progress achieved is 0.17%
10		RKI-8	Thavalam Mully Road CH 0/000 to 28/800	Palakkad	28.5	18	132.8	23-Nov-20	25-May-22	M/s Akshya Builder JV EKK		5.50	*Financial progress achieved is 4.14%
Total Length of North Package 1 & 2 (Kms)					286.72		1565.18					25.41	

* Contract Amount is Excluding Maintenance

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. Agreement was signed on 27th Oct'2020

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

Table 9 AE 01 Key Personnel Mobilization

S.No	Designation	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	To be joined
5	Assistant Resident Engineer 3	Sanu Soman
6	Assistant Resident Engineer 4	To be joined
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	To be joined
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

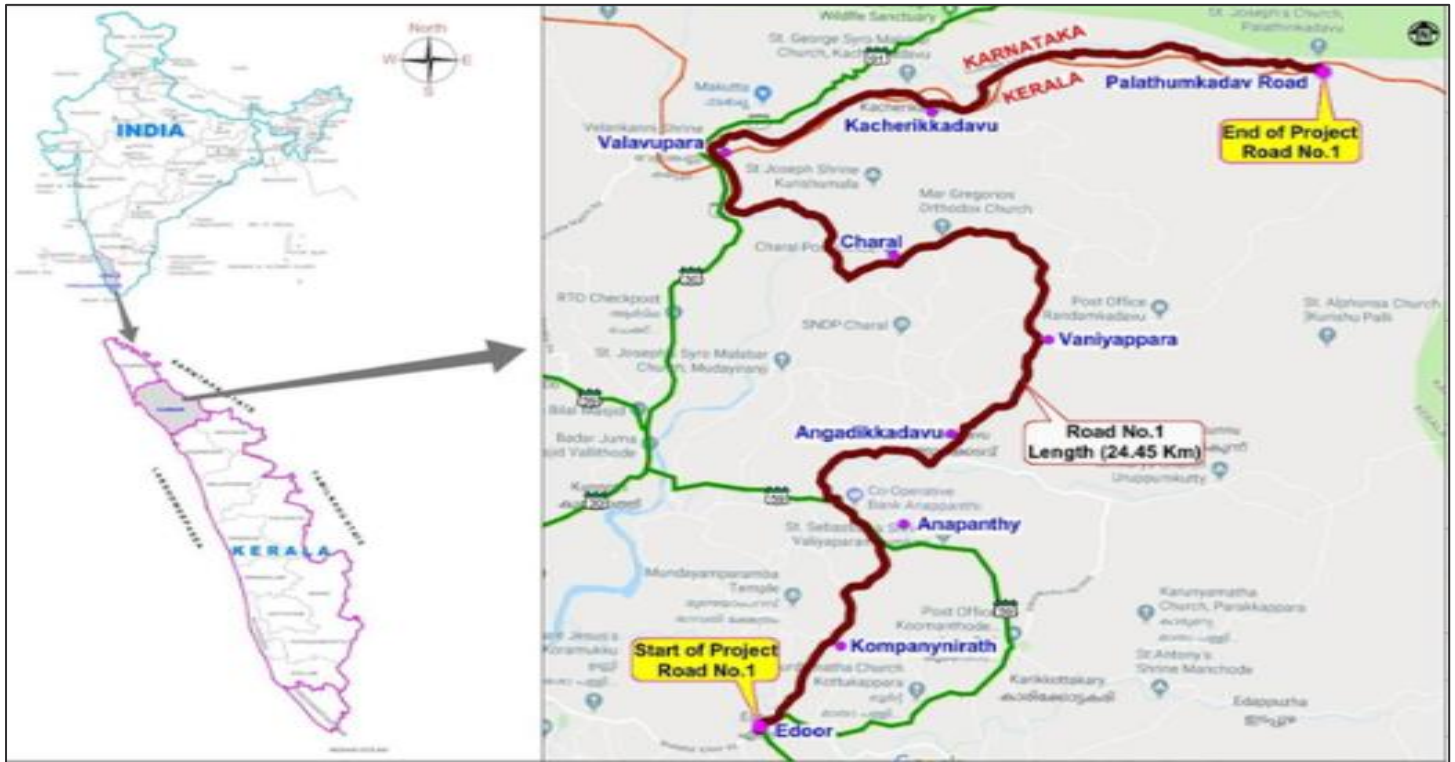
Table 10 AE 02 Key Personnel Mobilization

Sl No	Designation	Name
1	Team Leader cum Senior Highway Engineer	R Jethindra Gowd
2	Senior Quality cum Material Expert	G Thayalan
3	Senior Contract Specialist	T.P. Rama Rao
4	Assistant Resident Engineer	Nino Alex Kaleeckal
5	Road Safety Expert	Dr. M Murali Krishna
6	Labour/Social Specialist	V.Sunitha (Bhavesh Harkant Vyas)
1	Survey Engineer	Saravanan Muralitharan
2	Lab Technician	Praveen Ramakrishna
1	Office Manager	Hariharan KV
2	Accountant cum Cashier	Manas Chandra Sahoo
3	Steno Computer cum Operator-1	Krepalu.P
4	Steno Computer cum Operator-2	Sharvin T
5	Office Boy-1	Kavitha M

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).

Name of the contractor	Total Length	Duration in Months	Contract Value in Crores (Exc Maintenance)	Appointed Date	Original Date of Completion
M/s RDS Projects Ltd	24.45 Kms	18	128.43	21-Dec-2020	22-June-2022



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:

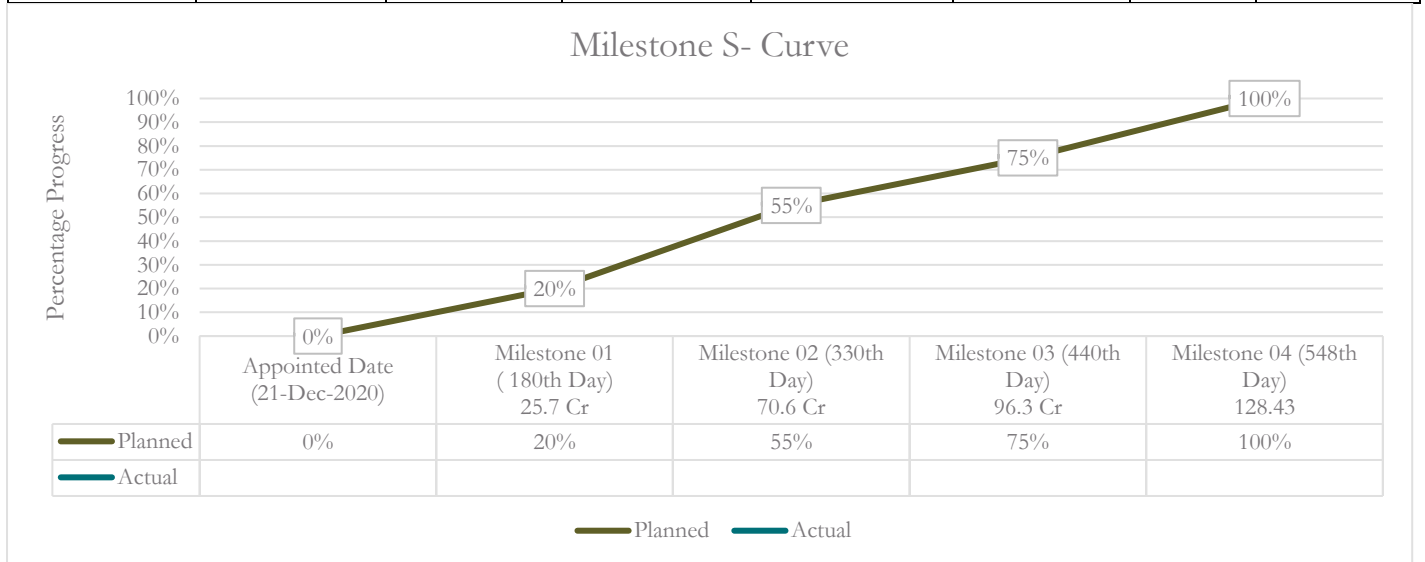
Length of Road	:	24.45 Km
Right of way average	:	10m (Varies 8m-12.5m)
Major Junction	:	4
Minor Junction	:	46
Major Bridge	:	Nil
Minor Bridge	:	9
Culverts	:	84

Status as on 31st May'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

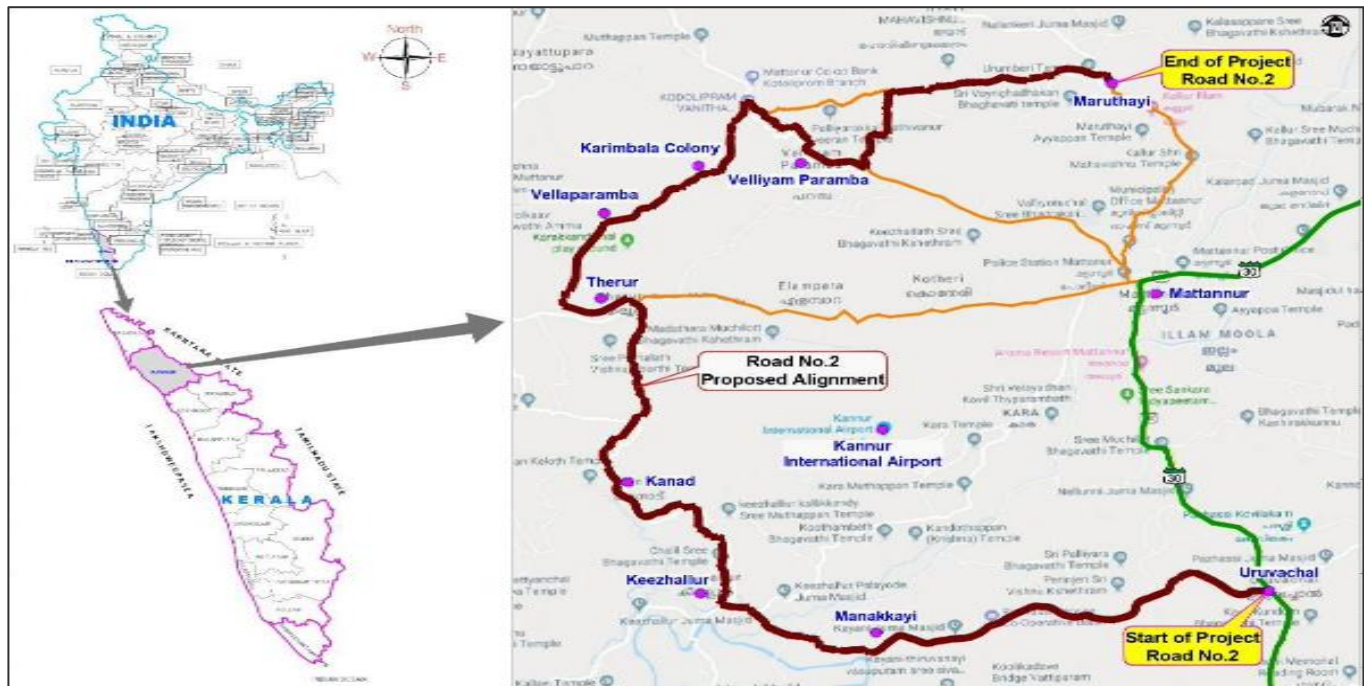
Table 11 Bank Guarantee RKI 11

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.

Name of the contractor	Total Length in Kms	Duration in Months	Contract Value in Crs (Exc Maintenance)	Appointed Date	Original Completion Date
M/s Engineering Projects (India) Ltd	18.46	18	100.43	20-Apr-2021	20-Oct-2022

Key Project Map



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

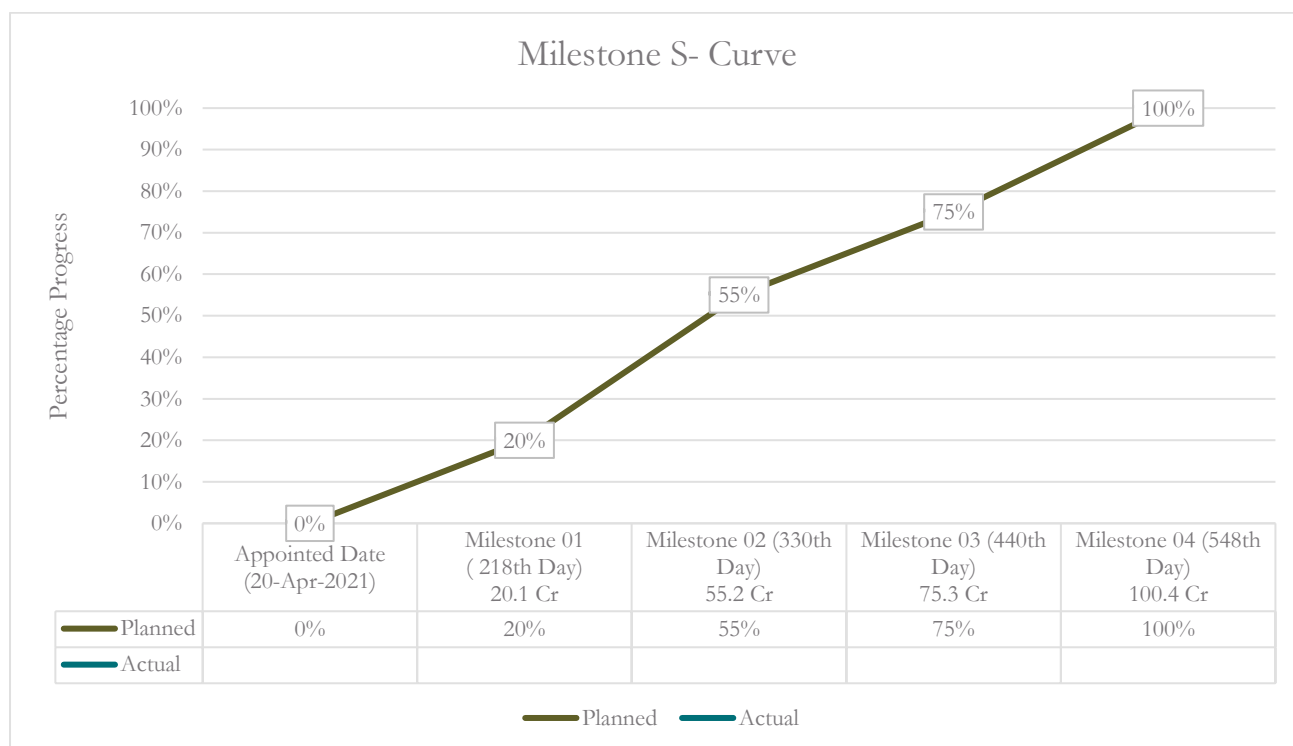
Length of Road	:	18.46 km
Right of way average	:	9 m (Varies 8-12.5m)
Major Junction	:	7
Minor Junction	:	42
Major Bridge	:	Nil
Minor Bridge	:	3
Culverts	:	41
Bus Shelters	:	16

Status as on 31st May'21:

- ❖ Site Establishment Works are 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%	-	24-Nov-21	-	-	
Milestone II	330	55%	-	16-Mar-22	-		
Milestone III	440	75%	-	04-Jul-22	-		
Milestone IV	548	100%	-	20-Oct-22	-		



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

Name of the contractor	Total Length in Kms	Duration in Months	Contract Value in Crores (Exc Maintenance)	Appointed Date	Original Completion Date
M/S RDS Project Ltd.	29.135	24	158.85	21-Jan-2021	21-Jan-2023

Key Map



The project starts at Kumbla (Ch: 0+000) and ends at Mulleria (Ch: 28+500) in Kasaragod 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:

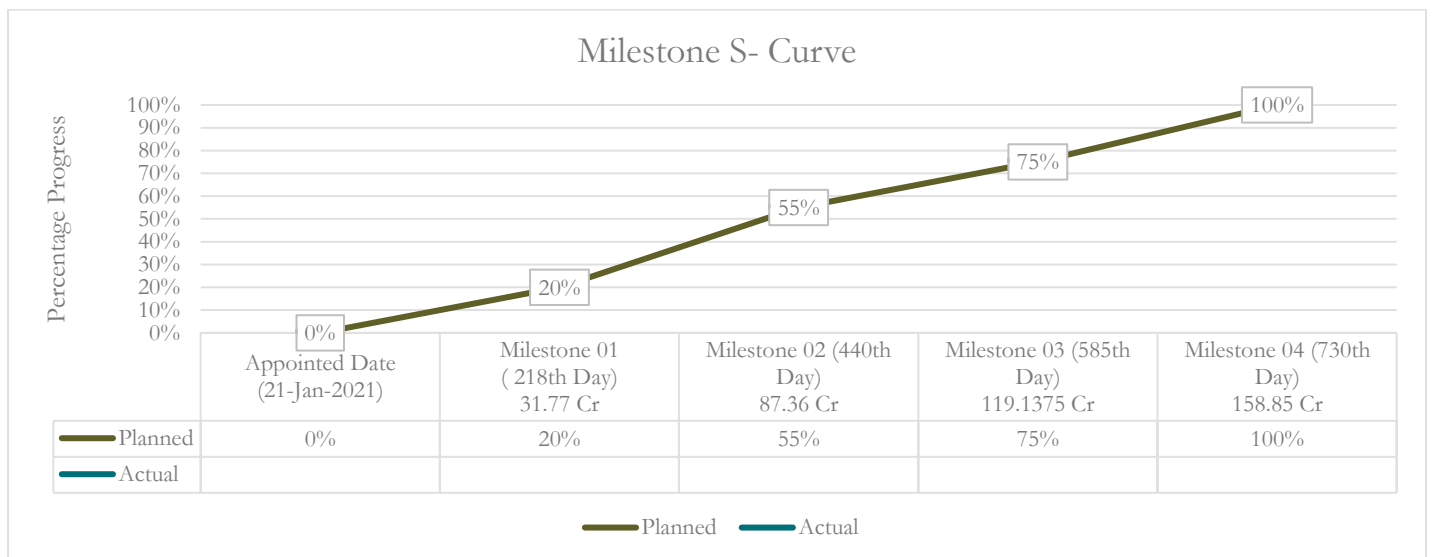
Length of Road	:	29.135 km
Right of way average	:	10 m (Varies 9-32m)
Major Junction	:	5
Minor Junction	:	48
Major Bridge	:	Nil
Minor Bridge	:	2
Causeways	:	2
Culverts	:	41
Bus Shelters	:	64

Status as on 31st May'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	730	100%	-	21-Jan-23	-		



Bank Guarantee:

Bank Guarantee details are presented below

Table 12 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

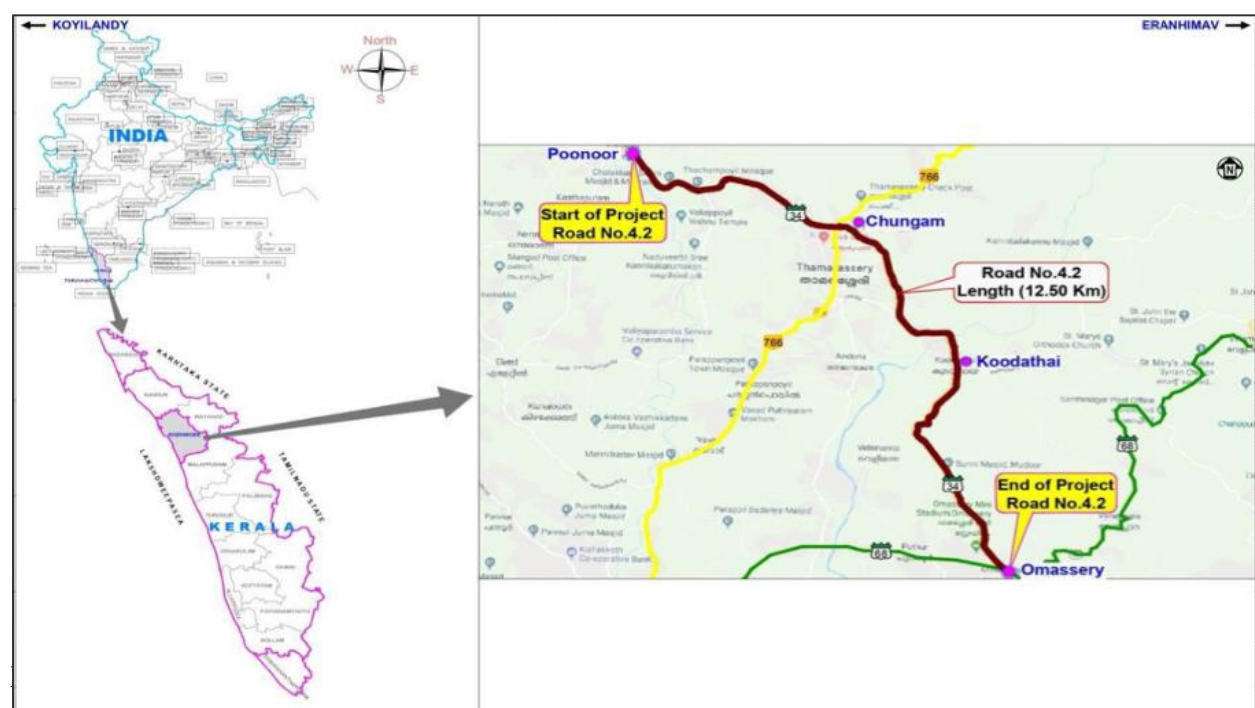
4) RKI-14 : Upgrading SH 34 Koyilandy –Thamarassery – Mukkam – Areekode Eranhimavu Road under Re-build Kerala Initiative

Name of the contractor	Total Length in Kms	Duration in Months	Contract Value in Crores (Exc Maintenance)	Appointed Date	Original Completion Date
M/s. Sreedhanya Construction Company	46.32	24	221.065	18-Mar-2021	18-Mar-2023

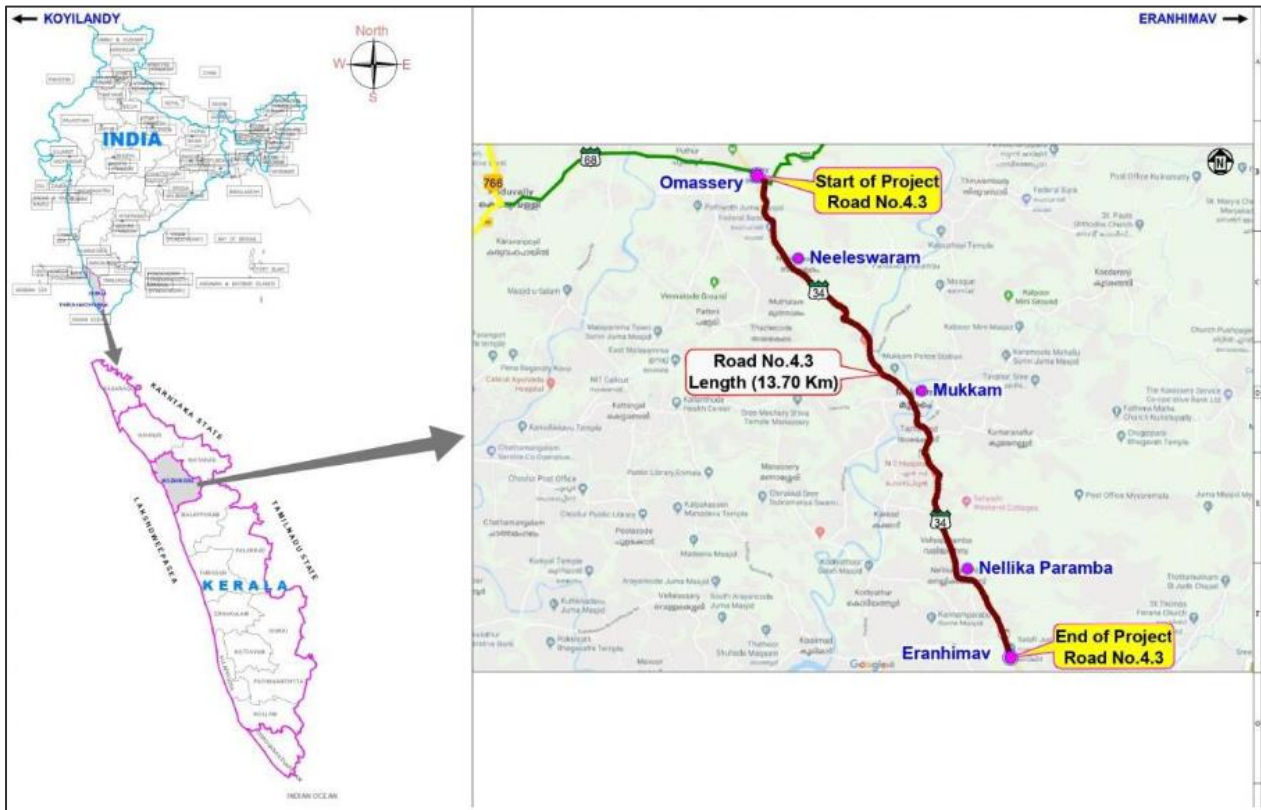
Location of Map Showing i) Koyilandy to Ponnor



Location of Map Showing ii) Ponnor - Omassery



Location of Map Showing iii) Omassery to Eranhimiv



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:

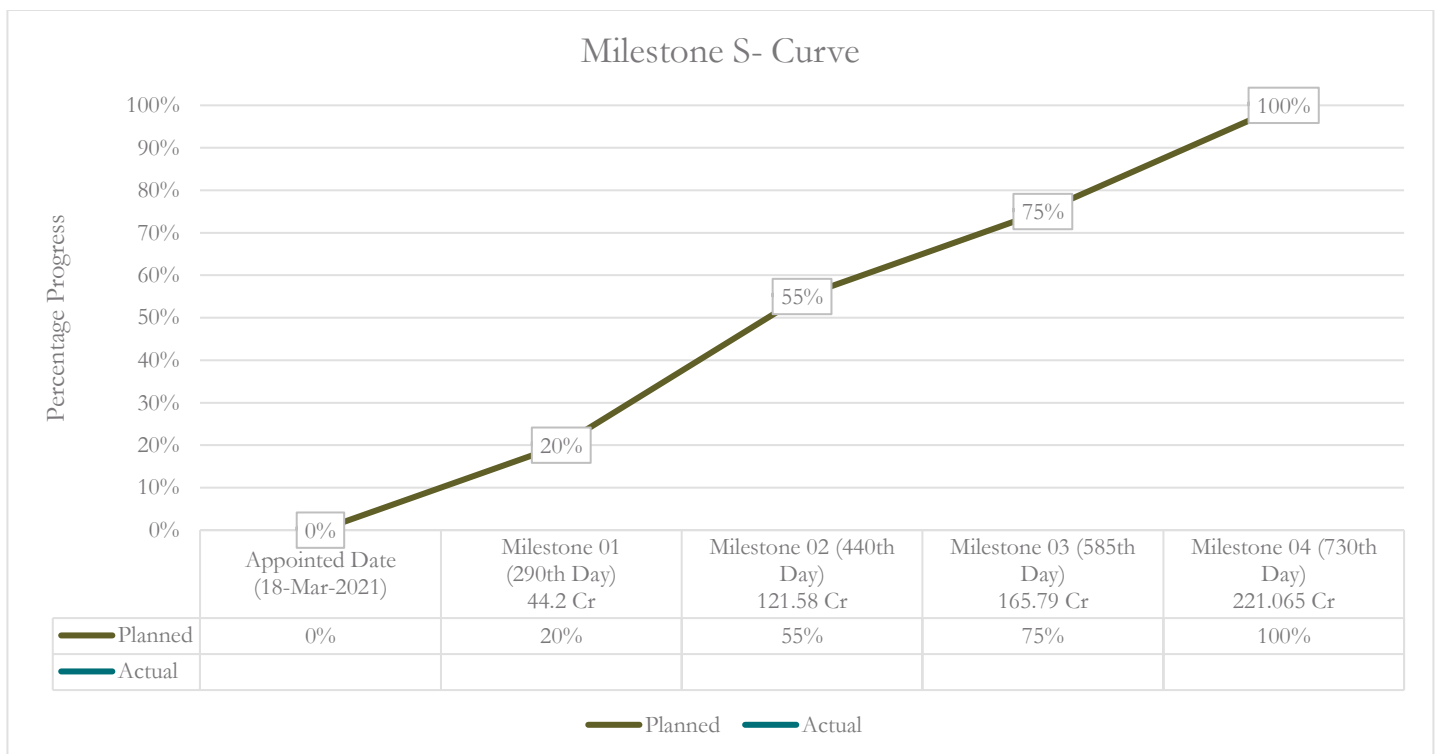
Length of Road	:	46.32 km
Right of way average	:	15 m (Varies 10-30m)
Major Junction	:	8
Minor Junction	:	44
Major Bridge	:	2
Minor Bridge	:	6
ROB	:	1
Culverts	:	99 (Existing)
Bus Shelters	:	81
Aquaduct	:	1

Status as on 31st May'2021

❖ Site Establishment Works 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%	-	02-Jan-2022	-	-	
Milestone II	440	55%	-	01-June-2022	-		
Milestone III	585	75%	-	24-Oct-2022	-		
Milestone IV	730	100%	-	18-Mar-2023	-		



5) RKI-15: Upgrading Vythiri - Tharuvana Road

Name of the contractor	Total Length in Kms	Duration in Months	Contract Value in Crores (Exc Maintenance)	Appointed Date
M/s Midland Engineering and Contracting Company	13.335	16	63.9	TBN

Key Map



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:

Length of Road	:	13.335 km
Right of way average	:	11 m (Varies 8.75-15m)
Major Junction	:	2
Minor Junction	:	7
Major Bridge	:	Nil
Minor Bridge	:	2

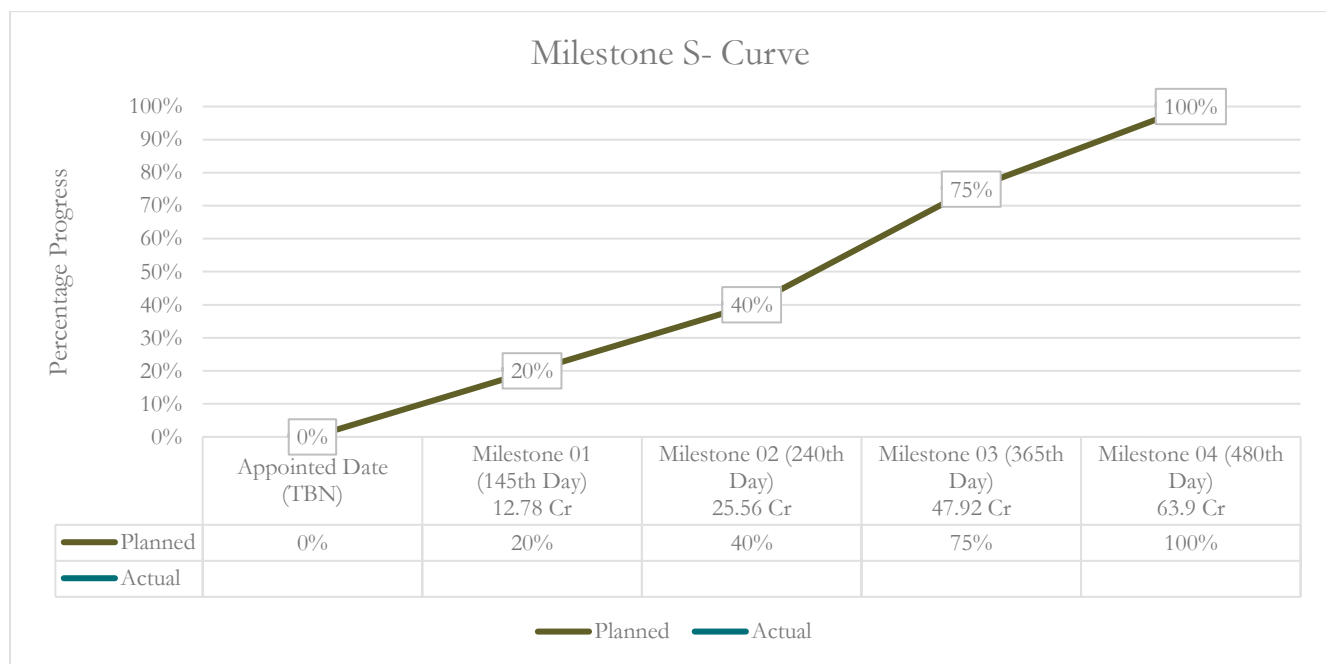
Culverts	:	41 (Existing)
Bus Shelters	:	15
Aqueduct	:	1

Status as on 31st May'2021:

- ❖ Inventor survey in progress

Milestone Schedule:

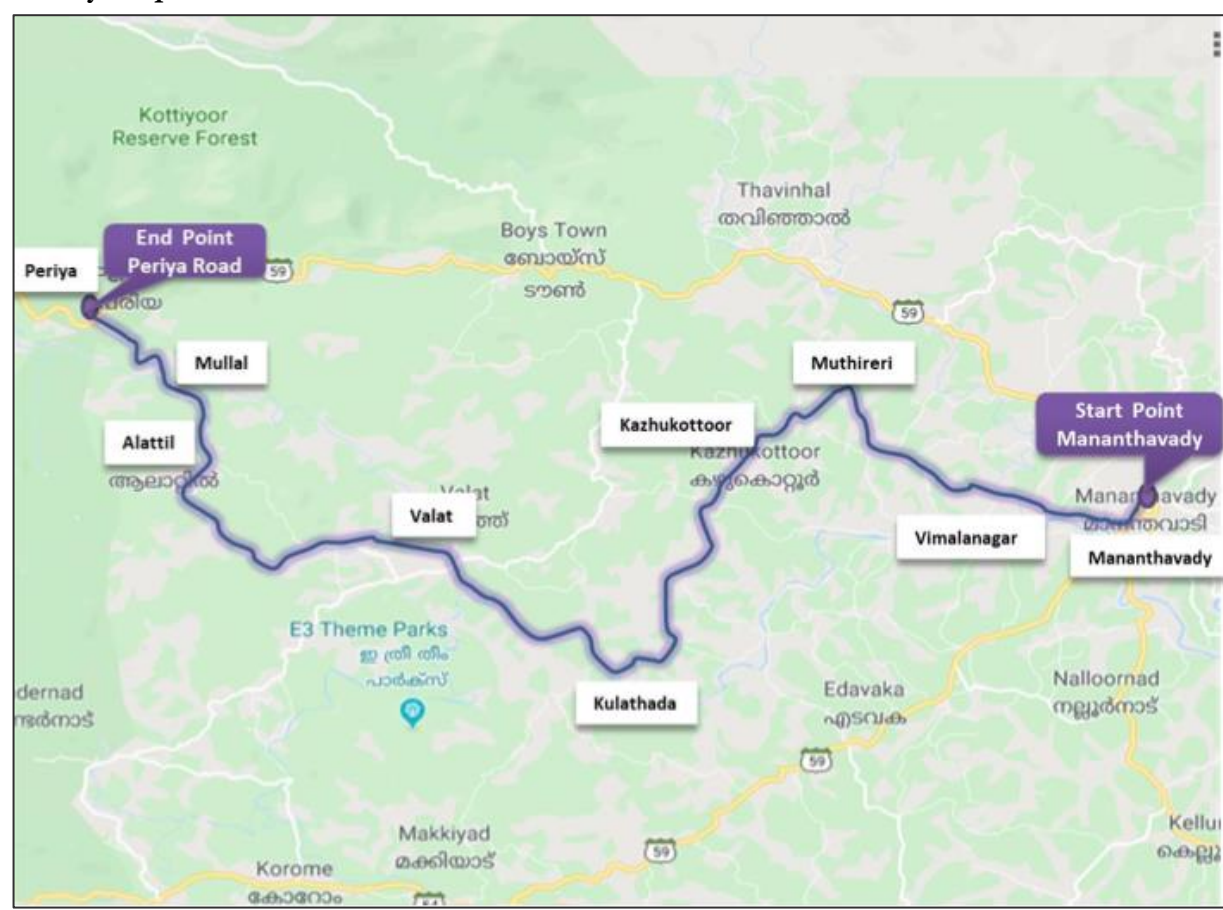
Project Milestone	Description (Days from Appointed Date)	Financial Progress		Milestone Date		EOT (If any)	Remarks
		Planned Financial Progress %age	Actual Financial Progress %age	Scheduled Date	Actual Date		
Milestone I	145	20%	-	Appointed Date yet to be notified	-	-	
Milestone II	240	40%	-		-		
Milestone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

Name of the contractor	Total Length in Kms	Duration in Months	Contract Value in Crores (Exc Maintenance)	Appointed Date		Completion Date	
				Original	Revised	Original	Revised
M/S ULCCS	27.30	18	102.83	29-Dec-2020	01-Mar-2021	30-Jun-2022	31-Aug-2022

Key Map



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:

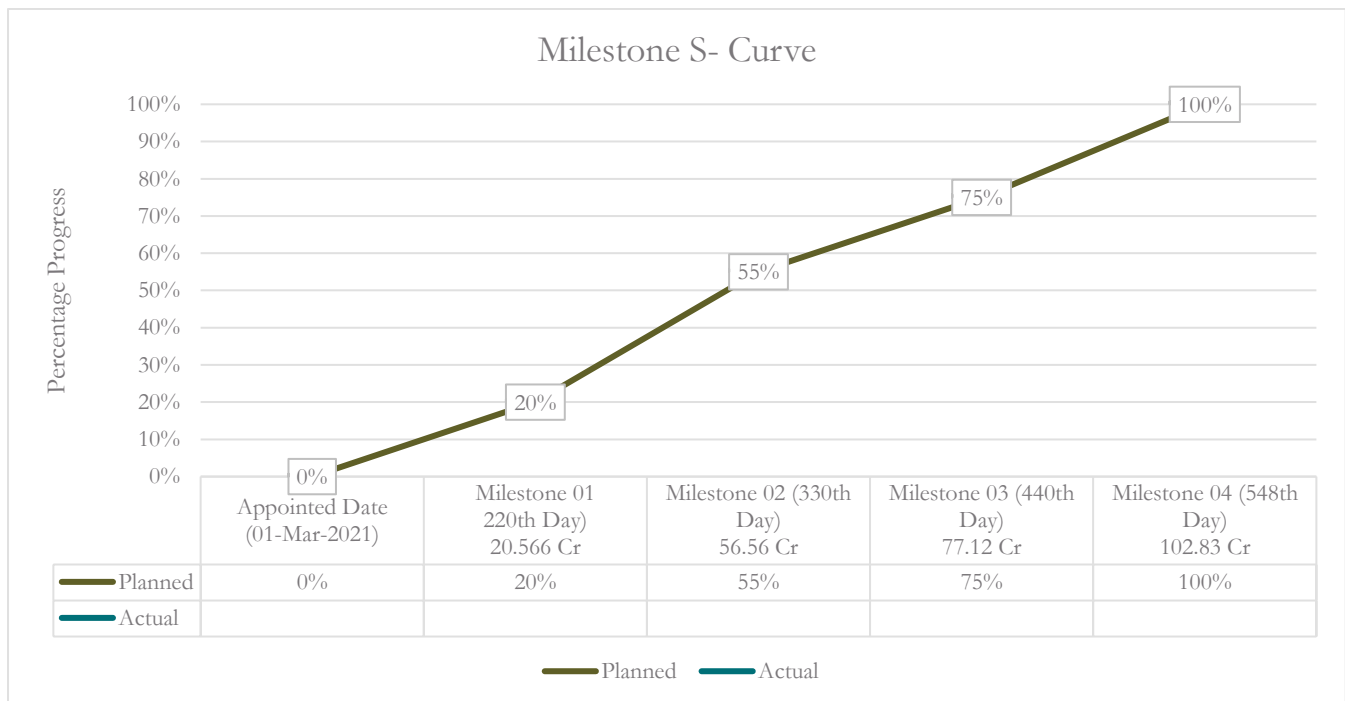
Length of Road	:	27.30 km
Carriage way average	:	4 m (Varies 3m-5.5m)
Major Junction	:	3
Minor Junction	:	8
Major Bridge	:	Nil
Minor Bridge	:	3
Culverts	:	64 (Existing)
Bus Shelters	:	20

Status as on 31st May'2021:

- ❖ Site installation and survey works are in progress
- ❖ Plan & Profile approved upto Km 8.00 and from Km 8 to Km 15 under review
- ❖ 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%	-	07-Oct-21	-	-	
Milestone II	330	55%	-	25-Jan-22	-		
Milestone III	440	75%	-	15-May-22	-		
Milestone IV	548	100%	-	31-Aug-22	-		

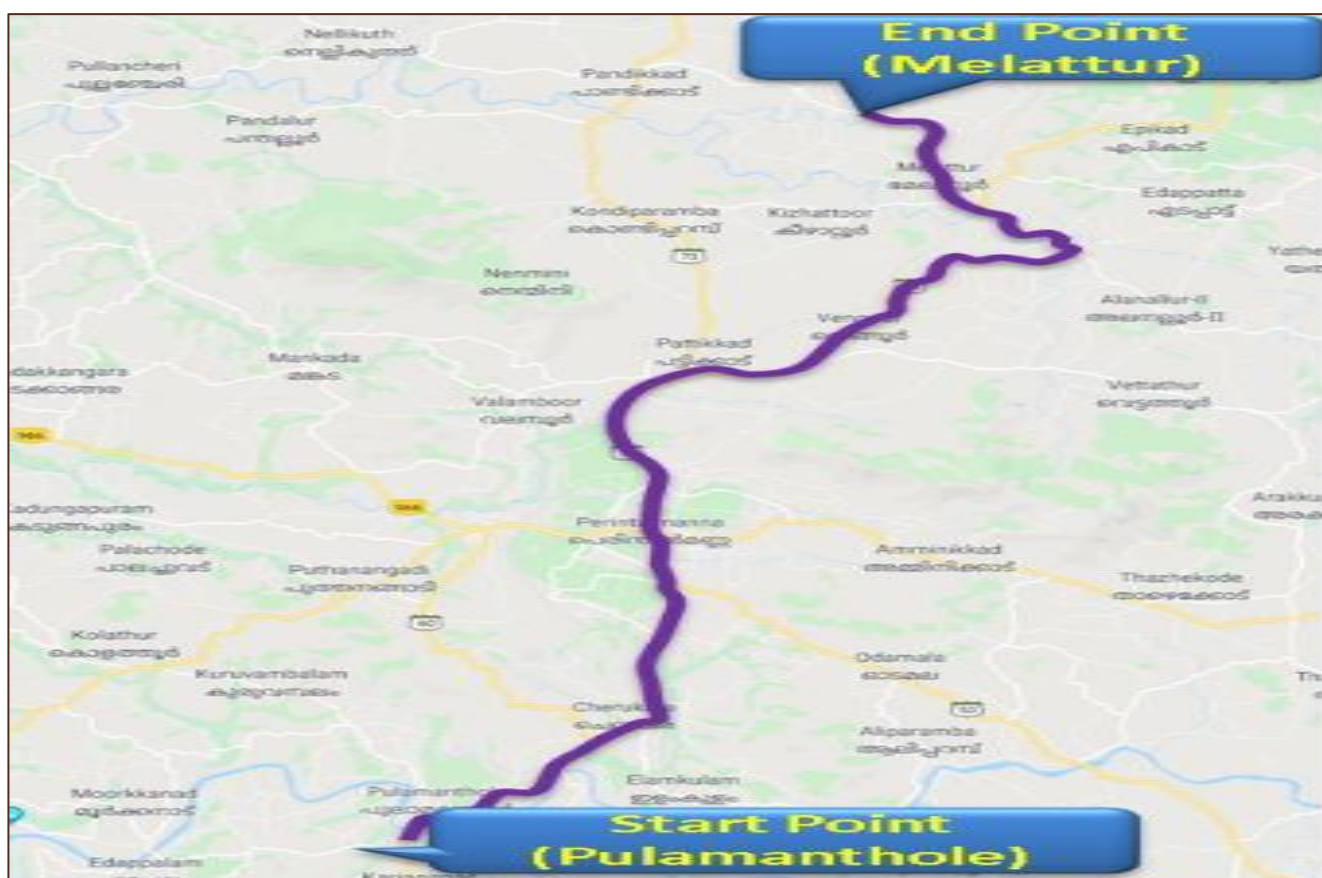


North Package 02 :

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

Name of the contractor	Total Length of the Road	Duration in Months	Contract Value in Crores (Exc Maintenance)	Appointed Date	Original Completion Date	Progress till May'21
M/S KMC Constructions	30.88	18	144	20-Jan-2021	22-Jul-2022	7.26%

Key Map



Salient features:

Length of Road	:	30.88 km
Right of way	:	Varies 9.7m- 49.8m
Carriage way average	:	Varies 5.5m-7m
Major Junction	:	5
Minor Junction	:	107
Major Bridge	:	Nil
Minor Bridge	:	5

Culverts	:	85
Bus Shelters	:	24
Railway Crossings		2

Status as on 31st May'2021:

Status of Manpower & Machinery Mobilization:

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

Table 13 RKI 05: Key Personnel Mobilization Status

Sl No	Designation	Name of the Personnel Mobilized	Planned as per Contract	Actual Mobilized
1	Project Manager Cum Planning Engineer	V.P Arun	1	1
2	Deputy Residential Engineer	R. Saravanan	1	1
3	Highway Engineer	Muthu Kumar	1	8
		Barani Raj		
		Obulesu		
		Antony		
		Rajesh		
		Sriram		
		Obhilesh		
4	Structural Engineer	Hari dass Giri	1	5
		Ramesh		
		Unnikrishnan		
		Siyad		
		Ram		
5	Materials Engineer	Rajagopal	1	4
		Kasi Ananth		
		Raghuram		
		Chandra Mohan		
6	Quantity Surveyor		1	
7	Plant/Equipment Manager	Sekhar	1	1
8	Plant & Equipment/Sr.Project Engineer		1	
9	Sr..Project Engineer		1	
10	Surveyor	Sankar	1	2
		Judith Carmel		
11	Surveyor/Site Engineer		1	
12	Site Supervisor		2	
13	Lab Technician		1	
14	Design Director	Vasanth	1	1
15	Health and Safety Engineer	Preshanth	1	3
		Monu		
		Bibin B Issac		

16	Road Safety Consultant	Prabhakar	1	1
17	Design Consultant		1	
18	Sociologist	Raghu Ramaiah		1
19	Environmental Specialist	Raj Kumar		1
20	Utility engineer (Elect)	Melwin		1

Table 14 RKI 05 Machinery Mobilization

Sl. No.	Equipment Name	Planned (As Per Contract)	Actual	Remarks
1	Dozer 175hp	2	2	
2	Excavator	3	4	
3	Hydraulic Excavator with Rock breaker	1	2	
4	Excavator (JCB)		5	
5	Front end loader	4	2	
6	Motor Grader	2	3	
7	Smooth Wheel Roller 8-10MT	1	3	
8	Vibratory Roller 8-10MT	2		
9	Tandem Vibratory Roller 6-10MT	1		
10	Tandem Vibratory Roller for compaction of Edges 8-10MT	1		
11	Pneumatic Tyred roller	1	-	
12	Paver	2	-	
13	Bitumen Sprayer (1750Sqm/hr)	4	-	
14	Water Tanker 6000Ltrs	2	3	
15	Dump Truck 8-10MT	12	15	
16	WMM Mixing Plant 100T/hr	2	1	
17	Hot mix plant 100T/hr	1	1	
18	Concrete Mixer	1	-	
19	Concrete Batching and mixing plant	1	1	
20	Total Station	1	1	
21	Auto Level	1	6	

Physical Progress:

Table 15 RKI 05 Physical Progress

Sl. No.	Description	Scope	Status	Remarks
1	Road inventory (MOI)		Completed	
2	Utility Shifting			
2.1	Electrical & Telephone Post Shifting		In Progress	
2.2	KWA Water line Shifting		In Progress	
2.3	Tree Valuation and Cutting		In Progress	
3	Geotechnical investigations		Completed	Bridge Location Pending
4	Topographic survey		Completed	
4.1	RoW identification with Revenue dept		In Progress	
5	Mobilization		Completed	
8	Construction Activities			
8.1	Roadway Construction Works			
	GSB & WMM	30.88 KM	16 Kms In Progress	
	DBM & BC	30.88 KM	Not Started	
8.2	Bridges	6 Nos	Not Started	
8.3	Culverts	87 Nos	Started	2 Nos one side Completed
8.4	Side Drain	52.70 KM	4.6 Km in Progress	
8.5	Retaining Wall	1 No	Not Started	

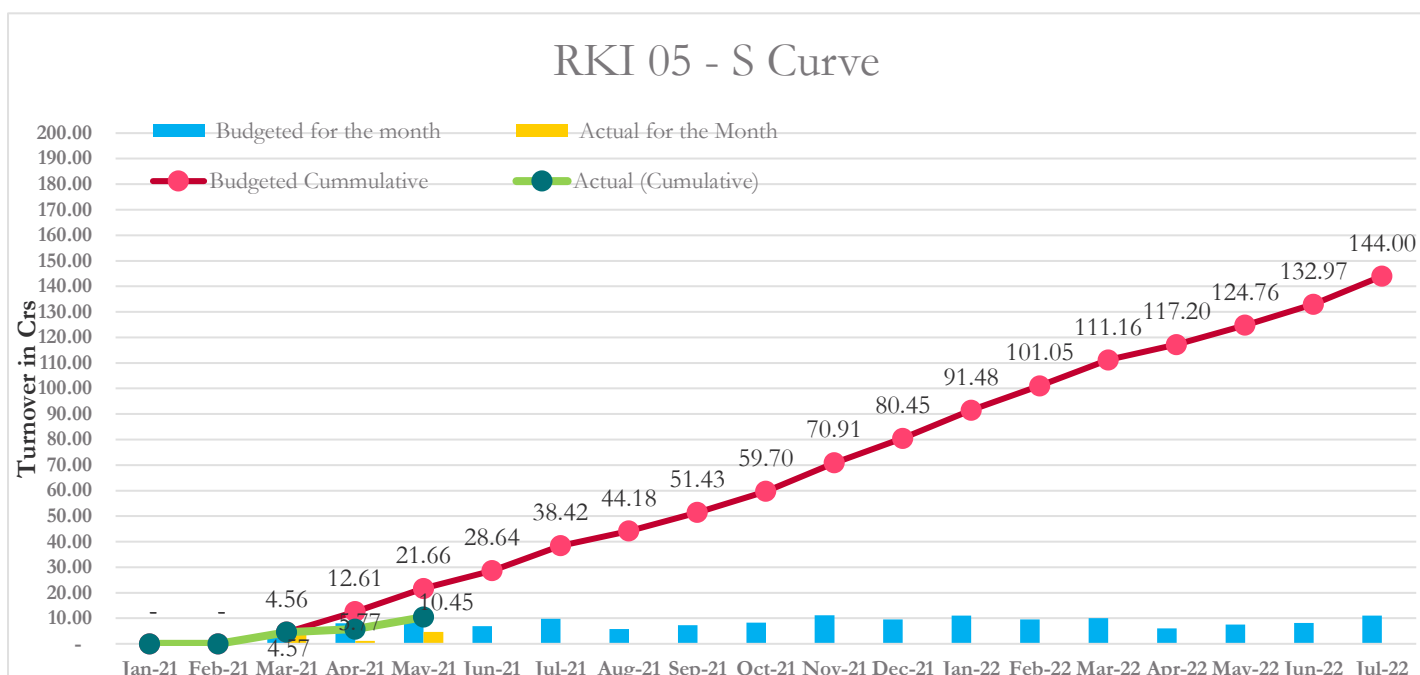
Current Status of Plan & Profile and Culvert design Approval

Chainage	Description	Remarks
39+000 to 48+000	Plan & Profile	Approved
48+000 to 62+480	Plan & Profile	48+000 to 50+000, 50+000 to 51+000, 52+000 to 62+240 approved with comments
30+700 to 39+000	Plan & Profile	With AE

S.No	Description	Total Numbers	Status		
			Approved	Approved with Comments	With Contractor
1	Box Culvert all sizes	17	17		
6	Widening Culvert all sizes	9	9		
	Total	26	26		

Milestone Schedule:

Project Milestone	Description (Days from Appointed Date)	Financial Progress		Milestone Date		EOT (If any)	Remarks
		Planned Financial Progress %age	Actual Financial Progress	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	-		



Source Approval:

The source approval details of RKI 05 is presented below

Table 16 Source Approval RKI 05

SL No	Raw Material	Source	Approval Date	Remarks
1	Cement	Ramco	03.03.2021	
		Penna	03.03.2021	
		Chettinad	25.03.2021	
2	Steel	Tulsyan TMT bars	08.03.2021	
		Kamachi industries	26.02.2021	
3	Admixture	Sikament,CAC	20.02.2021 08.03.2021	
4	Aggregate	Nalakath granites		Test Under Progress in third Party lab
6	NP4 class HumePipe	Perimer spun pipe	03.03.2021	
		Tamilnadu spun pipe	27.05.2021	

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 17 RKI 05 Status of Other Permits

Sl. No.	Types of clearance	Applicability	Status	Remarks
1.	Tree felling permission	For roadside 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 board/central	Extraction of groundwater	NA	

	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 18 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

Progress Photographs RKI 05

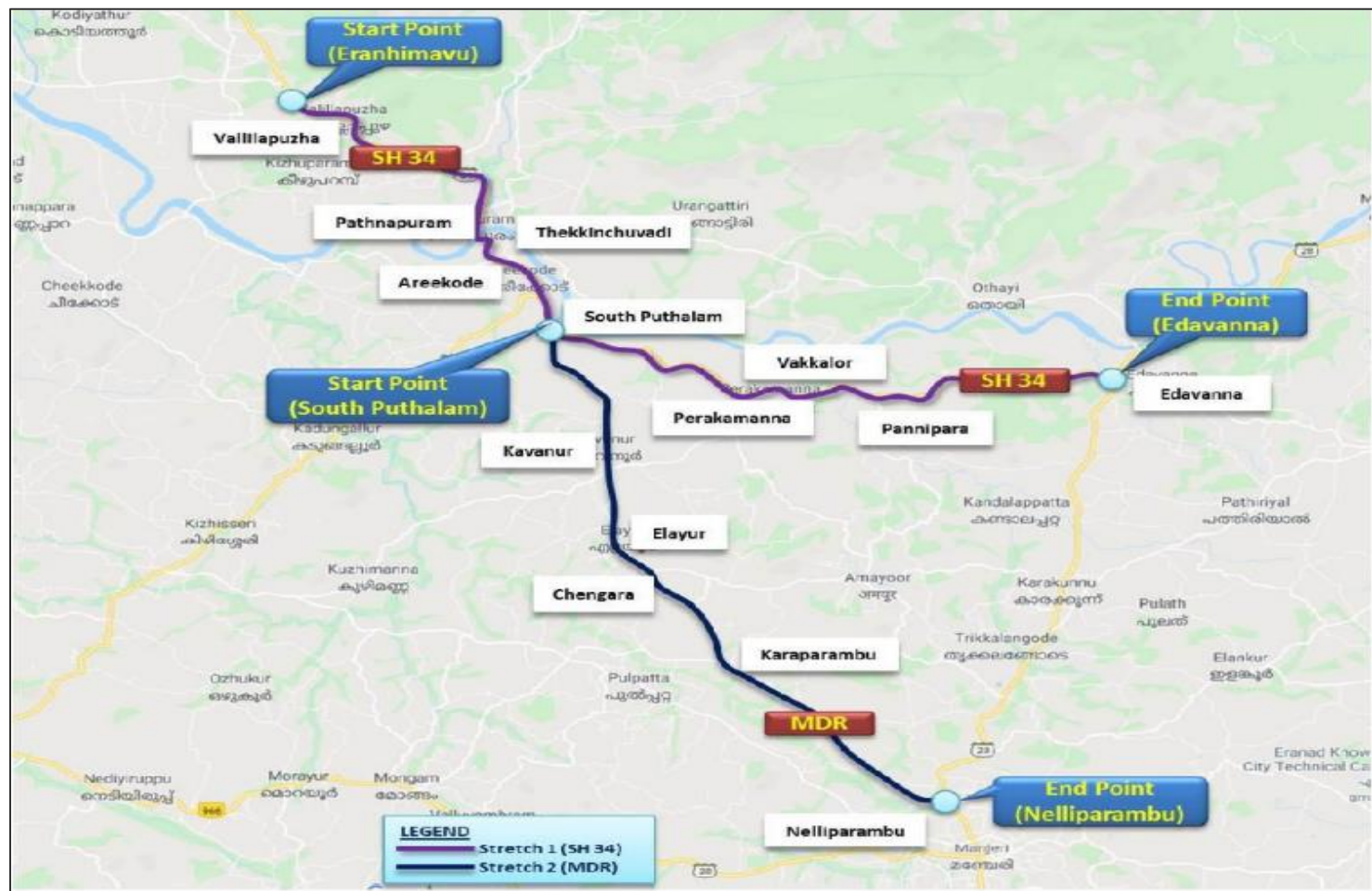


Side Drain, Culvert and Road Works are In Progress

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+000 to 13+350

Name of the contractor	Total Length in Kms	Duration in Months	Contract Value in Crores (Exc Maintenance)	Appointed Date	Original Date of Completion	Progress till 31 st May'21
M/s Sreedanya Construction Company	31.53	18	189.76	23-Nov-2020	25-May-22	4.7%

Key Map.



Salient features:

Length of Road	:	31.53 km
Carriage way	:	7 m
Major Junction	:	23
Minor Junction	:	93
Major Bridge	:	1
Minor Bridge	:	1
Culverts	:	114
Bus Shelters	:	34

Status as on 31st May'2021:

Status of Manpower & Machinery Mobilization:

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

Table 19 RKI 06 Key Personnel Mobilization Status

Sl No	Designation	Name of the Personnel	Planned as per Contract	Actual Mobilized
1	Project Manager Cum Planning Engineer	Mr. Sebastian Antony	1	1
2	Deputy Residential Engineer	-	1	-
3	Highway Engineer	Mr. Aromal S Rajeev	1	2
		Mr. Tom J Kuriakose		
4	Structural Engineer	-	1	-
5	Materials Engineer	Mr. A.S.Venugopal	1	2
		Mr. Gokul Raj		
6	Quantity Surveyor	Mr. Paul P Manoj	1	3
		Mr. Vaisakh Krishnan		
		Mr. Gopikrishna Ajay		
7	Plant/Equipment Manager	-	1	-
8	Utility Engineer (Electrical)	Mr. Prasannakumar	1	1
9	Utility Engineer (Civil)	-	1	-
10	Surveyor	Mr.Hari Kumar	2	5
		Mr. Shijas K		
		Mr.Kishore V.S		
		Mr.Arun Prasad A.M		
		Mr.Sanjay Pati		
11	Site Supervisors	Mr. Haneefa P	2	1
12	Laboratory Technician	-	1	-
13	Design Director	-	1	-
14	Environmental Specialist	Mr. Satheesh H	1	1
15	Health and Safety Engineer	Mr. Bipin Das CJ	1	4
		Mr.Ali Reza		
		Mr.Nithink.k		
		Mr.Rahul C		
16	Sociologist	Mr.Sujeesh Kalluparayil	1	1
17	Road Safety Consultant	-	1	-

Table 20 RKI 06 Machinery Mobilization

Sl. No.	Equipment Name	Planned (As Per Contract)	Actual Quantity	Remarks
1	Dozer 175hp	1	-	
2	Excavator	2	4	
3	Hydraulic Excavator with Rock breaker	1		
4	Front end loader	2	-	
5	Motor Grader	2	1	
6	Smooth Wheel Roller	1	4	
7	Vibratory Roller	2		
8	Tandem Vibratory Roller	1		
9	Tandem Vibratory Roller for compaction of Edges	1		
10	Pneumatic Tyred roller	1	-	
11	Paver	2	-	
12	Bitumen Sprayer	1	-	
13	Water Tanker	2	2	
14	Dump Truck	12	23	
15	WMM Mixing Plant	1	-	
16	Hot mix plant	1	-	
17	Concrete Mixer	1	1	
18	Concrete Batching and mixing plant	1	1	
19	Total Station	1	-	
20	Auto level	1	-	
21	Excavator JCB	3	9	
22	Hydra		2	

Physical Progress:

Table 21 RKI 06 Physical Progress

Sl. No.	Description	Scope	Status	Remarks
1	Road inventory (MOI)		Completed	
2	Utility Shifting			
2.1	Electrical & Telephone Post Shifting		In Progress	
2.2	KWA Water line Shifting		In Progress	
2.3	Tree Valuation and Cutting		In Progress	
3	Geotechnical investigations		Completed	Bridge Location Pending
4	Topographic survey		Completed	
4.1	ROW identification with Revenue dept		Completed	
5	Mobilization		Completed	

8	Construction Activities			
8.1	Roadway Construction Works			
	GSB & WMM	31.53 KM	2.3 Kms in Progress	
	DBM & BC	31.53 KM	Not Started	
8.2	Bridges	1 No	Not Started	
8.3	Culverts	117 Nos	32 Nos In Progress	
8.4	Pre-Cast Side Drain	52.52 KM	0.35Km. Placing Completed	9.2 Kms Casting Completed.

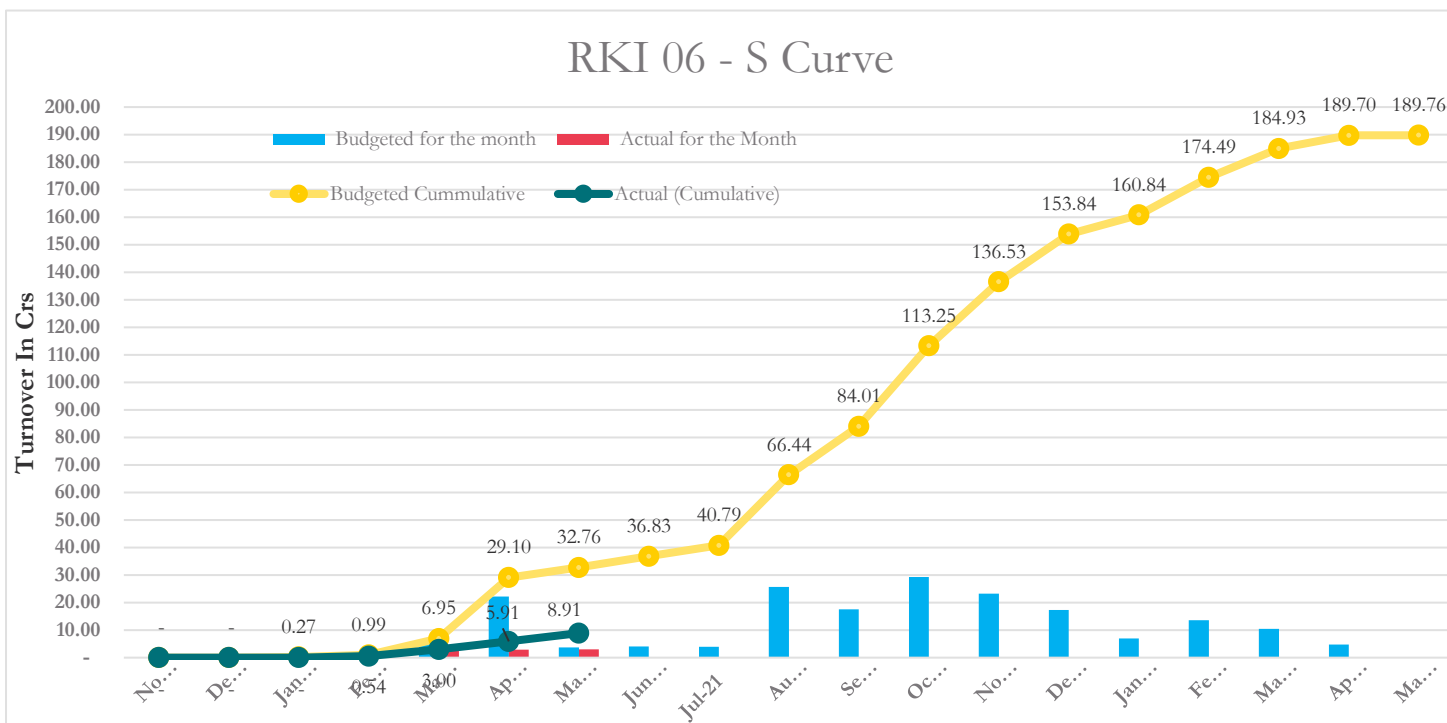
Current Status of Plan & Profile and Culvert design approval in RKI- 6

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
66+000 to 69+380	Plan & Profile	With AE
9+000 to 13+500	Plan & Profile	Approved
0+000 to 5+000	Plan & Profile	Approved
5+000 to 9+000	Plan & Profile	Approved

S. No	Description	Total Numbers	Status		
			Approved	Approved With Comments	With Contractor
1	Box Culvert (2 mX1.5 m)	35	33		2
2	Box Culvert (2.5 mX1.5 m)	1	1		
3	Box Culvert (2.5 mX1.5 m)	1	1		
4	Box Culvert (5 mX2 m)	3	1		2
5	Box Culvert (5.5 mX2 m)	1	1		
6	Pipe Culvert 1x1.2m	6	4		2
7	Pipe Culvert 1x1.2m (New)	5	3		2
8	Rehabilitation /Retain	2	2		
9	Storm water drain	1			1
10	Widening Culvert	25	9	11	5
11	Widening to 1mx1.5m	2	2		
12	Widening to 2mx1.5m	6	6		
13	Widening to 4.7mx4.5m	1			1
	Total	89	63	11	15

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:

Table 22 Change of Scope RKI 06

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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Source Approval:

The source approval details of RKI 06 is presented below

Table 23 RKI 06 Source Approval

S.No	Raw Material	Source	Submitted date	Approval Date	Remarks
1	Cement	Coromandel Cement	28-Nov-20	16-Dec-21	
		Chettinad Cement	11-Dec-20		
		Penna Cement	20-Nov-20		
		Ramco	11-Dec-20		
2	Steel	Tulsyan Steel	26-Nov-20	19-Dec-20	Conditional Approval
		Minar Steel	12-Jan-21	18-Jan-21	
3	Admixture	BASF India ltd	22-Dec-20	28-Dec-20	
4	Aggregate	Alpha Bricks and Metals -	11-Dec-20	16-Dec-20	
		PMR Granites India Pvt Ltd	15-Dec-20		
		Poabs Rock Products (P) Ltd	15-Dec-20		
		Friends Crushers	15-Dec-20		
		Al Madeena Granite - Metals	15-Dec-20		
		Aranhikkal	18-Dec-20		
6	NP4 class Hume Pipe	Premier Spun Pipe Company	03-Nov-20	28-Dec-20	
		Shanmugam Pipes	19-Dec-20	14-Jan-21	
		RBBR Infrastructure Pvt. Ltd	19-Dec-20	14-Jan-21	
		Tamil Nadu Spun Pipe	12-Jan-21	14-Jan-21	
7	Cast Iron Man Hole Covers	Binay Udyog Pvt. Ltd.	18-Dec-20	19-Dec-20	
8	DI pipe	Jai Balaji Industries Ltd.	05-Dec-20	17-Dec-20	
9	DI Pipe Valves	Jupiter Engineering Co.	19-Dec-20	22-Dec-20	
10	PVC Pipes	Apollo Pipes	05-Dec-20		Documents Pending Form Apollo
11	Environmental Quality monitoring	Enviro-design Eco Labs	25-Feb-21	26-Feb-21	

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 24 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 25 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

Progress Photographs RKI 06



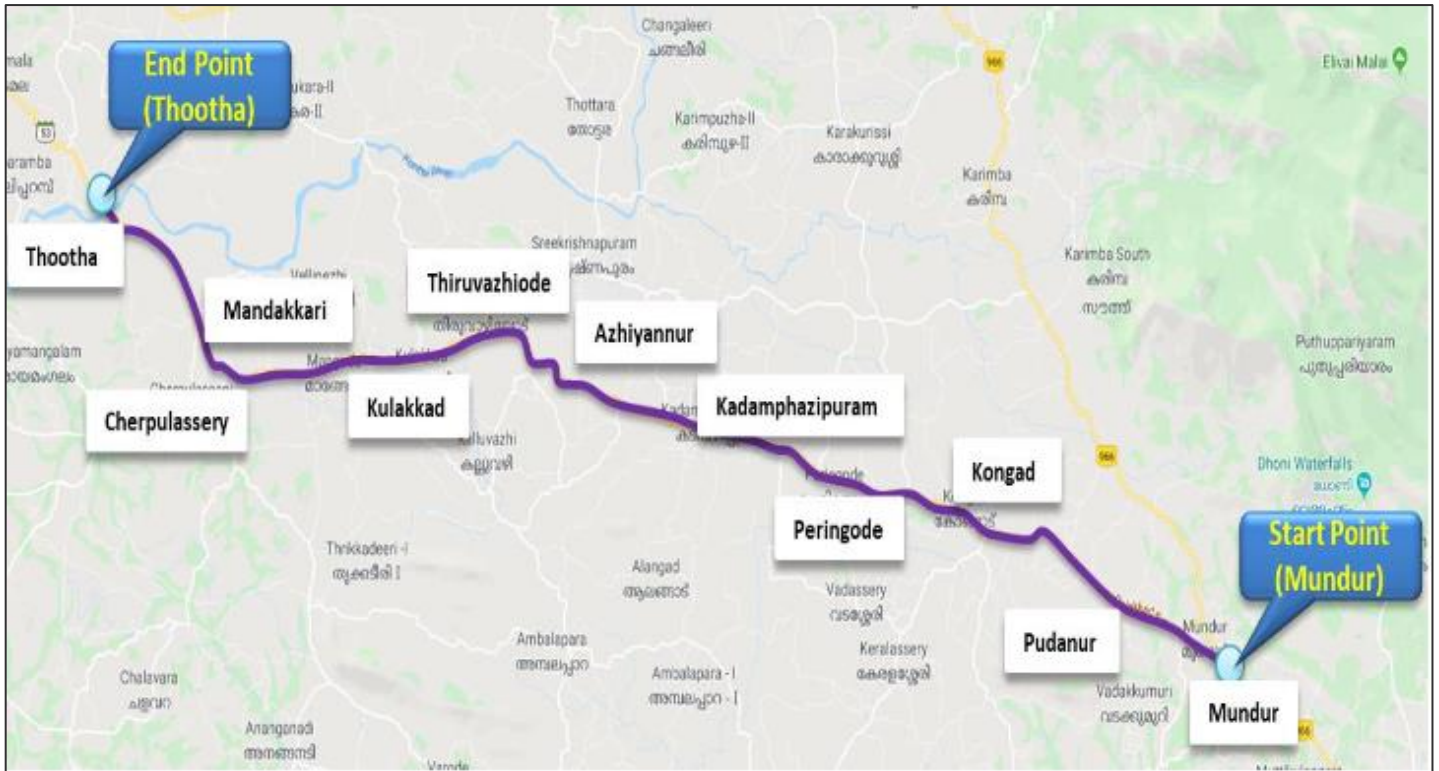
Culvert works, Precast drain works and Road works are in progress

During this month, RKI-6 construction site was affected by the Pandemic: COVID 19. Site staffs and Labour's were infected and some are in critical condition due to it. To prevent it's spread, the work was suspended, and the site was kept under lockdown from 21-04-2021. We are observing the protocols issued by the District Medical officer by maintaining quarantine for those with primary contact and Isolating those who were infected. We are also monitoring the arrangement of food and medical supplies for the staff and labour's quarantined at Site camp. They are being monitored and their conditions are being reported to the medical department.

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

Name of the contractor	Total length in Kms	Duration in Months	Contract Value in Crores (Exc Maintenance)	Appointed Date	Original Date of Completion	Progress achieved till 31 st May'21
M/s KMC Constructions	36.8	24	323.10	27-Jan-21	28-Jan-2023	0.17%

Key Map



Salient features:

Length of Road	:	36.8 km
Carriage way average	:	7 m (Varies 4.25m-10.57m)
Major Junction	:	16
Minor Junction	:	94
Major Bridge	:	1
Minor Bridge	:	4
Culverts	:	106
Bus Shelters	:	27

Status as on 31st May'2021:

Status of Manpower & Machinery Mobilization:

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

Table 26 RKI 07 Key Personnel Mobilization Status

S.No	Designation	Name	Planned (As per Contract)	Actual
1	Project Manager Cum Planning Engineer	M Balarami Reddy	1	1
2	Deputy Residential Engineer	M V N Murali Krishna	1	1
3	Highway Engineer	V Pratap Reddy	1	2
		K. Rajkumar		
4	Structural Engineer	D Ajay	1	1
5	Materials Engineer	M Penchal Rao	1	1
6	Quantity Surveyor	N V S Prasad	1	1
		R Satishkumar Reddy	1	1
7	Plant and Equipment Engineer	Ramakrishna Reddy	1	1
8	Utility Engineer (Elect)	V Narasaiah	1	1
9	Utility Engineer (Civil)		1	
10	Surveyor	Mahendra	2	1
11	Surveyor/Site Engineer		1	
12	Site Supervisor		2	
13	Design Director		1	
14	Health & Safety Engineer	Aarafath Sahib	1	1
15	Environmental Specialist	Aneesha Fatima	1	1
16	Sociologist		1	
17	Road Safety Consultant		1	
18	QA/QC Engineer	Sk. Davood		1
19	Utility Shifting Supervisor	N Mallikarjun		1
20	Survey Assistant	Shiva		1

Table 27 RKI 07 Machinery Mobilization Status

Sl. No.	Equipment Name	Planned (As Per Contract)	Actual Quantity	Remarks
1	Excavator	2	3	
2	Excavator cum Rock Beaker	1		
3	Front end loader	2	-	
4	Motor Grader	2	1	
5	Smooth wheeled Roller/Vibratory Roller	1	-	
6	Vibratory Roller	2	1	
7	Tandem Vibratory Roller	1	-	
8	Baby Tandem Roller	1	-	
9	Pneumatic Typred Roller	1	-	
10	Paver Finisher with Electronic Sensors	2	-	

11	Dump Truck	12	9	
12	Water Tanker		1	
13	Backhoe Loader JCB		3	

Physical Progress:

Table 28 RKI 07 Physical Progress

Sl. No.	Description	Scope	Status	Remarks
1	Road inventory (MOI)		Completed	
2	Utility Shifting			
2.1	Electrical & Telephone Post Shifting		In Progress	Very Slow Progress
2.2	KWA Water line Shifting		In Progress	Very Slow Progress
2.3	Tree Valuation and Cutting		In Progress	Very Slow Progress
3	Geotechnical investigations		Completed	Bridge Location Pending
4	Topographic survey		Completed	
4.1	RoW identification with Revenue dept		In Progress	
5	Mobilization		In Progress	Very Slow Progress
8	Construction Activities			
8.1	Roadway Construction Works		Not Started	
	GSB & WMM	36.80 KM		
	DBM & BC	36.80 KM		
8.2	Bridges	5 Nos	Not Started	
8.3	Culverts	110 Nos	Not Started	
8.4	Pre-Cast Side Drain	68.49 KM	1.2 Kms in Progress	

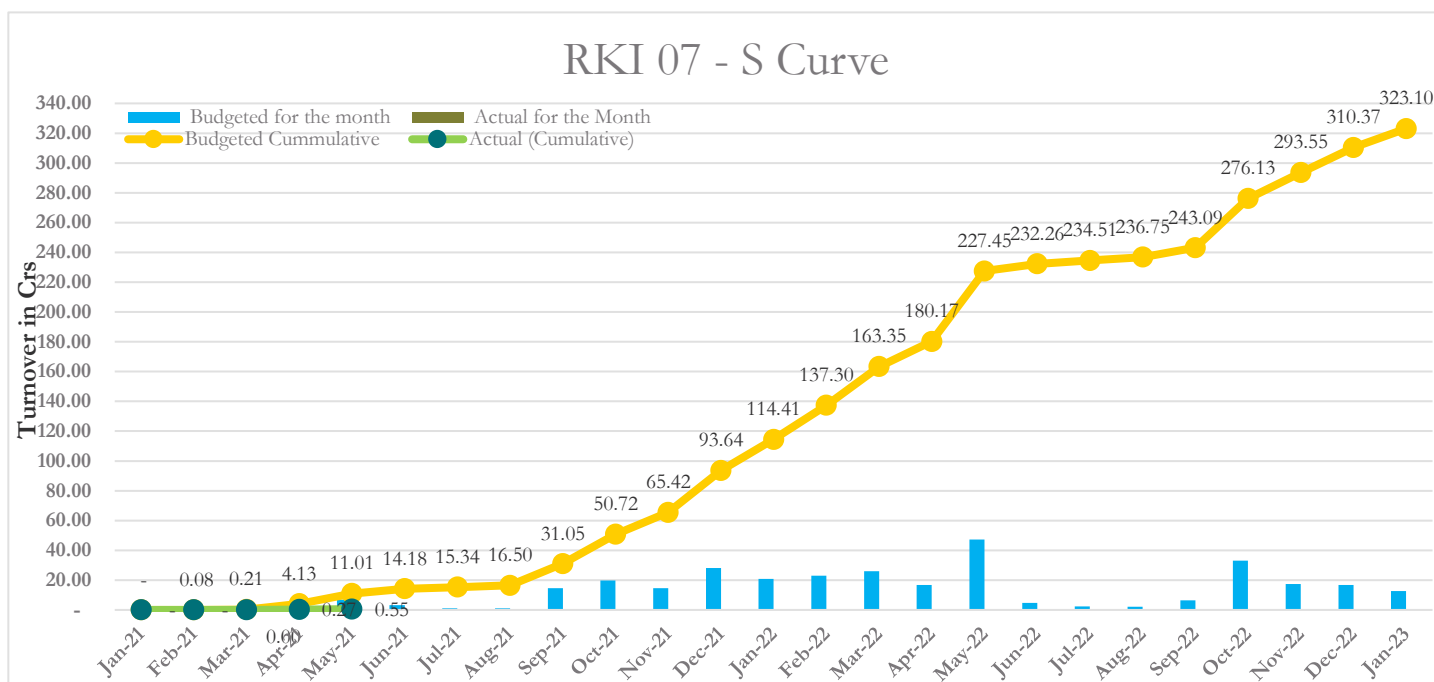
Current Status of Plan & Profile and Culvert design approval in RKI- 7

Chainage	Description	Remarks
10+000 to 20+000	Plan and Profile	Approved
0+250 to 10+000	Plan and Profile	With Contractor
19+900 to 28+160	Plan and Profile	With Contractor

S.No	Description	Total Numbers	Status		
			Approved	Approved With Comments	With Contractor
1	Box Culvert (2 mX1.5 m)	26	11	11	4
2	Pipe Culvert	7		3	4
3	Widening Culvert	28	28		
	Total	61	39	14	8

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	-		



Source Approval:

The source approval details of RKI 07 is presented below

Table 29 RKI 07 Source Approval

S.No	Raw Material	Source	Approval Date	Remarks
1	Cement	Ultratech cement	27-02-2021	
		Dalmia cement	03-03-2021	
		Ramco cement		
2	Steel	M/s Steel Authority of India Industries	27-02-2021	
3	Bitumen vg 30	Mangalore Refinery Petrochemical	04-03-2021	
		BPCL	04-03-2021	
4	GSB & WMM	Vadakancherry		Awaiting for Approval
5	RMC	QUBE RMC		Awaiting for Approval
		BEST (Valluvanad RMC)		
7	RCC hume pipes (Grade NP-4)	M/s Tamilnadu SpunPipe Industries	25-05-2021	Approved
		M/s Chennai Spun Pipe Industries		

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 30 RKI 07 Status of Other Permits

Sl. No.	Types of clearance	Applicability	Status	Remarks
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	Delayed due to Covid Lockdown
3.	Consent for operate	Hot mix plant, Batching plant, wet mix macadam, stone crushers	Under process	Delayed due to Covid Lockdown
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 (fornew quarry)	Under process	Delayed due to Covid Lockdown
6.	Permission for extraction of ground water for use in road construction activities from state ground water board/central ground water authority	Extraction of groundwater	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 14+600 LHS 6+420 RHS	

Bank Guarantee:

Bank Guarantee details of RKI 07 are presented below:

Table 31 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

Progress Photographs 07:

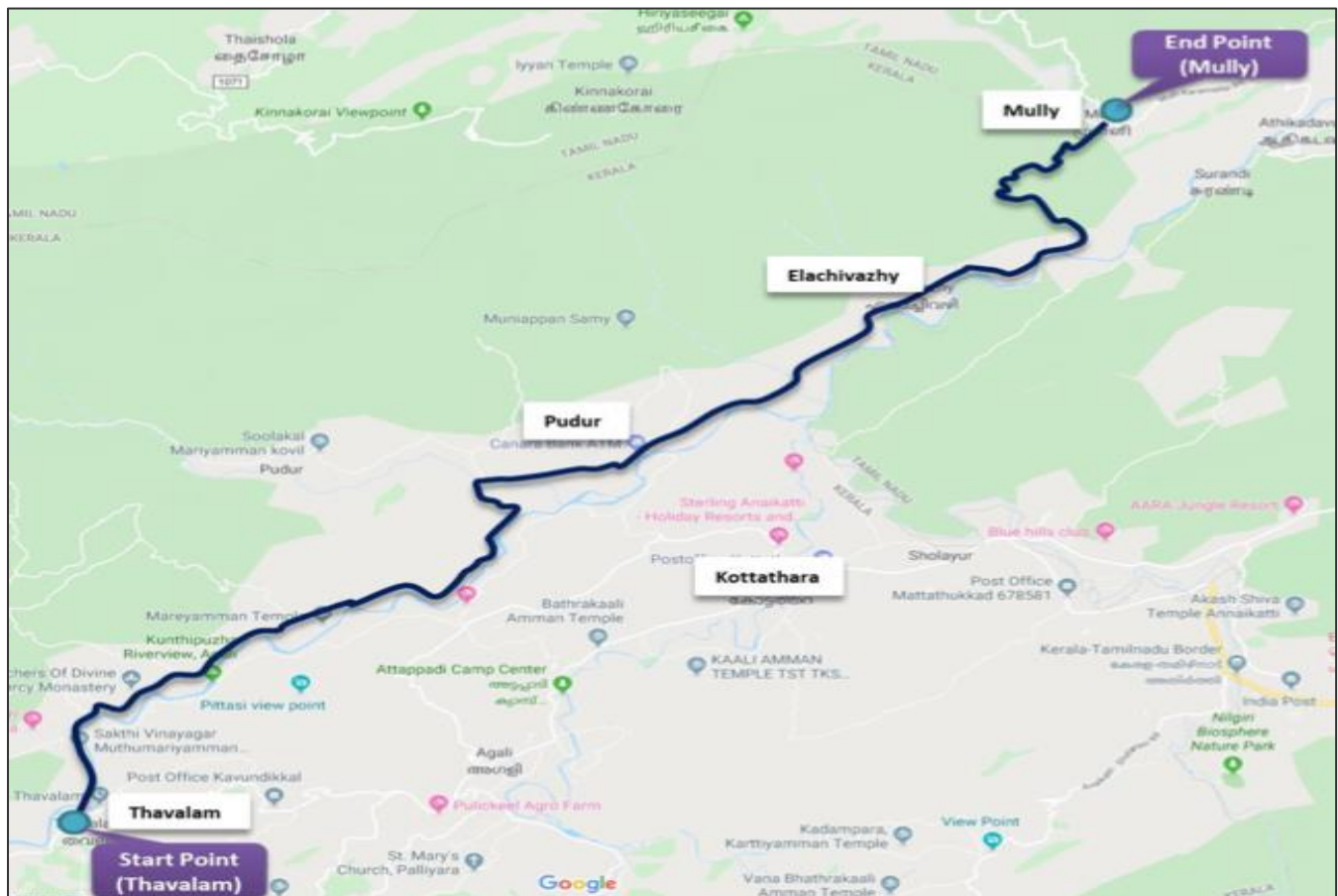


Drain Works are in Progress

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

Name of the contractor	Total Length in Kms	Duration in Months	Contract Value in Crores (Exc Maintenance)	Appointed Date	Original Date of Completion	Progress achieved till 31 st May'21
M/s Akshaya EKK JV	28.50	18	132.8	23-Nov-2020	25-May-2022	4.14%

Key Map



Salient features

Length of Road	:	28.5 km
Right of Way	:	Varies 6.6m-52.2m
Carriage way average	:	4m (Varies 3.75m-6m)
Major Junction	:	7
Minor Junction	:	39
Major Bridge	:	Nil
Minor Bridge	:	3
Culverts	:	37
Bus Shelters	:	10

Status as on 31st May'2021:

Status of Manpower & Machinery Mobilization:

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

Table 32 RKI 08 Key Personnel Mobilization Status

S.No	Designation	Name	Planned Total	Actual
1	Project Manager Cum Planning Engineer	Reghunathan.K	1	1
2	Deputy Residential Engineer	Radhakrishnan PM	1	1
3	Highway Engineer		1	
4	Structural Engineee	Jose Moan Antony	1	2
		Musthafa Ummar		
5	Materials Engineer	Aneesa Abdul Lathif	1	1
6	Quantity Surveyor	Ananthajith B	1	1
7	Plant and Equipment Enginner		1	
8	Utility Engineer (Elect)	Chandramohan	1	1
9	Utility Engineer (Civil)		1	
10	Surveyor		2	
12	Site Supervisor		2	
13	Laboratory Technician		1	
13	Design Director		1	
14	Health & Safety Engineer	Sreejith.S	1	1
15	Environmental Specialist		1	
16	Sociologist		1	
17	Road Safety Consultant		1	

Table 33 RKI 08 Machinery Mobilization Status

Sl. No.	Equipment Name	Planned (As per Contract)	Actual Quantity	Remarks
1	Dozer 175HP	1		
2	Excavator	2	4	
3	Excavator cum Rock Beaker	1	3	
4	Front end loader	2		
5	Motor Grader	2	2	
6	Smooth wheeled Roller/Vibratory Roller	1		
7	Vibratory Roller	2	2	
8	Tandem Vibratory Roller	1		
9	Baby Tandem Roller	1		
10	Pneumatic Tyred Roller	1		
11	Paver Finisher with Electronic Sensors	2		
12	Dump Truck	12	9	
13	Bitumen Sprayer	1		
14	Water Tanker	2	1	
15	WMM Mix plant	1	1	
16	Batch Plant Hot mix	1		
17	Concrete Mixer	1	4	Ajax 02 & TM 02

18	Concrete Batching and Mixing Plant	1	1	
19	Total Station	1	2	
20	Auto Level with micrometer	1	3	Dumpy Level

Physical Progress

Table 34 RKI 08 Physical Progress

SL No.	Description	Scope	Status	Remarks
1	Road inventory (MOI)		Completed	
2	Utility Shifting			
2.1	Electrical & Telephone Post Shifting		In Progress	
2.2	KWA Water line Shifting		In Progress	
2.3	Tree Valuation and Cutting		In Progress	
3	Geotechnical investigations		Completed	Bridge Location Pending
4	Topographic survey		Completed	
4.1	RoW identification with Revenue dept		In Progress	
5	Mobilization		Completed	
8	Construction Activities			
8.1	Roadway Construction Works		3.5 Kms in Progress	
	GSB & WMM	28.50 KM		
	DBM & BC	28.50 KM		
8.2	Bridges	4 Nos	Not Started	
8.3	Culverts	61 Nos	7 Nos in Progress	
8.4	Side Drain	54.15 KM	0.55Km. Completed,	
8.5	Retaining Wall	6.24 KM	1.0 Kms Completed	

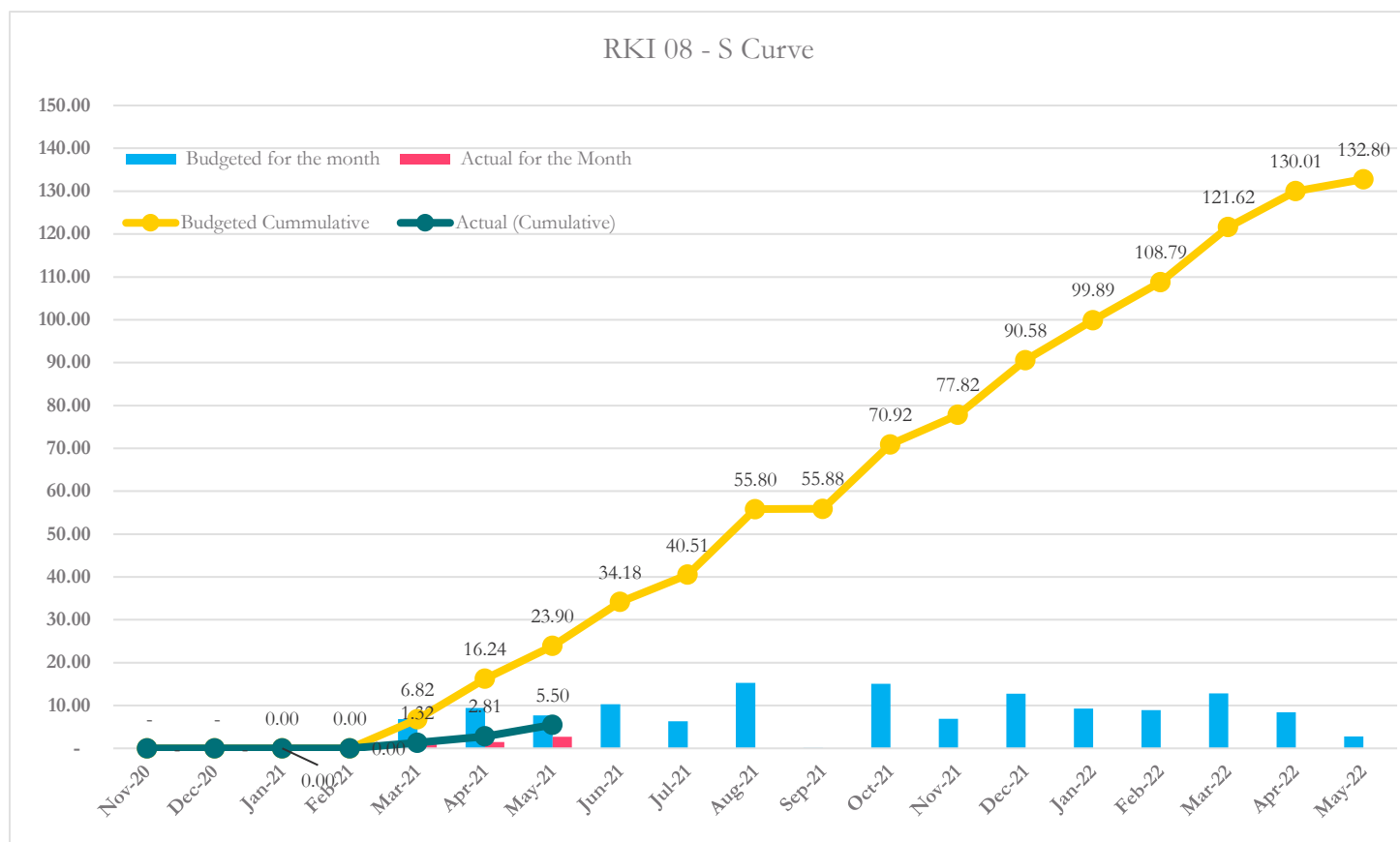
Current Status of Plan & Profile and Culvert design approval in RKI- 8

Chainage	Description	Remarks
0+450 to 9+990	Plan & Profile	Approved
9+900 to 17+000	Plan & Profile	With Contractor
17+000 to 22+000	Plan & Profile	With Contractor

S.No	Description	Total Numbers	Status		
			Approved	Approved With Comments	With Contractor
1	Box Culvert (2 mX1.5 m)	12	9	1	2
2	Box Culvert (3 mX1.5 m)	2		2	
3	Box Culvert (4 mX1.5 m)	1	1		
4	Box Culvert (4 mX2 m)	1		1	
5	Box Culvert (4 mX3 m)	1	1		
6	Box Culvert (6 mX6 m)	1	1		
7	Pipe Culvert 1.2m	2	1		1
	Total	20	13	4	3

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%	4.14%	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:

The change of scope proposals/approvals for RKI 08 till date is mentioned blow.

Table 35 Change of Scope RKI 08

Sl No	Change of Scope proposal	Submission letter	Status
1	1.2 dia 2 barrel pipe culverts at cause ways @Ch: 3+272 and 2+680	AB/KSTP/TM/2020/05/21(124) dated 11.05.2021	Recommendation letter sent by Authority Engineerto Authority vide. Egis India/HO/KSTP2/RKI-8/69563/2021 dated 25.05.2021

Source Approval:

The source approval details of RKI 08 is presented below

Table 36 RKI 08 Source Approval

Sl. No	Material	Source/Vendor	Date of Approval
1	Cement	ICL(Coromandal), Dalmia, Chettinadu	30.12.2020
2	Steel	Vizag Steel, JSW Steel	30.12.2020
		METCON TMT Steel	28.01.2021
		Tulsyan Steel	09.03.2021

		Kamachi Steel	19.04.2021
3	Aggregates, GSB, WMM	M/s Venkateswara Blue Metals, Coimbatore M/s SRI Blue Metals, Coimbatore	30.12.2020
4	Hume/Spun Pipes	M/s. Premier Spun Pipe Company	30.12.2020
5	Admixture	M/s. Master Builders Solutions India Pvt Ltd M/s. Fosroc Chemicals (India) Pvt Limited.	30.12.2020
6	Bitumen VG30, VG40, CRMB	Bharat Petroleum Corporation Ltd, Kochi.M/s. Mangalore Refinery and Petrochemicals Limited. M/s. Puma Bitumen, Puma Energy Private limited.	30.12.2020
7	Emulsion SS1, RS1	M/s. IWL India Ltd, Chennai	30.12.2020

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 37 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 controlboard 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 ourconstruction works in forest areas	Requested to Forest Department	Sanction awaited
5	Tree felling permission	Social Forestry Dept. sendcutting permission and estimate to KSTP.	KSTP must 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 landowners
12	Borrow areas		Sampling in progress

Bank Guarantee:

Bank Guarantee details of RKI 08 are presented below:

Table 38 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

Progress Photographs 08



Retaining Wall, Culvert, Side Drain and Road Works are in Progress

5.3. Central Package 03

Table 39 Central Package 03 Status

Status of Procurement of Central Package III														
Road Ref No	Road Name	District	Length (Kms)	Duration in months	Tender Submission Date	Technical bid Opening	Financial Bid Opening	LOA Issued	Tender Amount (DPR)	Lowest Bid Price in Crs	% above Tender Amount	Agreement Date	Contractor	Procurement Status
RD -1	Mookannoor Ezhattumugham and Blachippara Palissery Rd	Ernakulam	19.95	18	22-Oct-20	22-Oct-20	12-Jan-21	25-Feb-21	91.88	91.89	0.01%	03-May-21	M/s Marymatha-Akshaya (JV)	Procurement Completed
RD-02	Kakkadassery - Kaliyar road	Ernakulam	20.18	18	15-Mar-21	15-Mar-21	23-Apr-21		67.73	67.91	0.26%			NO for FBER from KfW received on 19th May'21
RD-03	Muvattupuzha - Theni SH	Ernakulam	16.18	18	08-Feb-21	08-Feb-21	24-Mar-21		80.91	87.73	8.44%			NO for FBER from KfW received on 21st Apr'2021
RD-04	Kumarakom Nedumbassery from Peruva to Peruvammuzhi	Ernakulam	21.40	18	26-Feb-21	26-Feb-21	30-Mar-21	21-Apr-21	96.85	97.88	1.06%		M/s Ray Engineering -PRL JV	Conditional NO for Draft Agreement received on 6th May'2021
RD-05	Neyyassery Thokkumbansaddle road	Idukki	31.92	24					144.30					NO for tendering requested from KfW
RD-06	Nenmara - Nellyampathy road	Palakkad	30.47	24					92.00					Conditional NO for tendering received from KfW on 27th May'2021
RD-07	Kodungallur- Shornur	Thrissur	34.35	24	02-Nov-20	02-Nov-20	01-Jan-21	22-Jan-21	194.96	203.22	4.24%	08-Mar-21	M/s. Gawar . ATCON JV	Procurement Completed
RD-08	Vazhakkodu Plazhy road	Thrissur	22.72	18	29-Mar-21	29-Mar-21			102.33					Revised TBER submitted by LTPMC on 19th May'21
RD-09	Thrissur Kuttippuram Road	Thrissur	33.24	24	09-Mar-20	09-Mar-20	05-May-21		212.82	218.45	2.65%			FBER submitted by to KfW on 6th June'2021
RD-10	Arakunnam-Amballoor-Poothatta-Piravam Road	Ernakulam	7.98	12	18-Mar-21	18-Mar-21	24-May-21		27.94	31.41	12.40%			FBER submitted by LTPMC on 26th May'2021
Total Length of Central Package 03			238.39						1111.72	798.49				

Bid Price is including GST and maintenance cost for 5 years

5.4. South Package 04

Table 40 South Package 04 Status

Status of Procurement of South Package -IV														
Road Ref No	Road Name	District	Length (Kms)	Duration in months	Tender Submission Date	Technical bid Opening	Financial Bid Opening	LOA Issued	Tender Amount (DPR)	Lowest Bid Price in Crs	% above Tender Amount	Agreement Date	Contractor	Procurement Status
Rd-1	Gandhinagar-Medical College	Kottayam	20.20	18	18-Dec-20	18-Dec-20	11-Jan-21	25-Feb-21	104.30	121.11	16.12%	27-May-21	M/s Sreedhanya Construction Company	Procurement Completed
Rd-2	Vadayar Mulakkulam Road and Vadayar Kallattippalam Muttuchira Road	Kottayam	22.48	18	29-Mar-21	29-Mar-21	07-May-21		97.49	111.10	13.95%			NO for FBER received from KfW on 27th May'21
Rd-3	Pathanamthitta Ayroor-Muttukudukka	Pathanamthitta	28.20	18	18-Dec-20	18-Dec-20	21-Jan-21	25-Feb-21	97.12	107.53	10.71%	22-Apr-21	M/s Theruvath-PRL (JV)	Procurement Completed
Rd-4	Mallapally, Komalam Paduthodu	Pathanamthitta	23.13	18	30-Nov-20	30-Nov-20	18-Jan-21	25-Feb-21	98.98	102.90	3.96%	09-Apr-21	M/s SPL-RM JV	Procurement Completed
Rd-5	Malamekkara Kunnathukala Chala Puthenchanda	Pathanamthitta	7.87	18	05-Oct-20	05-Oct-20	13-Jan-21	22-Jan-21	27.67	28.80	4.08%	08-Mar-21	M/s. KNM-EKK JV	Procurement Completed
Rd-6	Thiruvananthapuram Ponmudi road (From Nedumangad to Ponmudi)	Thiruvananthapuram	41.75	24					203.42					Decided to be funded by world bank and awaiting for DPR submission
Rd-7	Thattarambalam-Michael Junction-Kochalumood-Mangankuzhy-Pandalam	Allapuzha	18.66	18	30-Nov-20	30-Nov-20	18-Jan-21	25-Feb-21	109.30	119.13	9.00%	29-Apr-21	M/s Begorra PRL JV	Procurement Completed
Rd-8	Veeyapuram-Edathua-Puthukarry-Marnbuzhakkary-Kidangara- Kunnamgary-Kumarangary-Valady-Mullakarnthuruthy	Allapuzha	21.45	18	18-Dec-20	18-Dec-20	11-Jan-21	22-Jan-21	103.90	108.89	4.80%	03-Mar-21	M/s Sreedhanya Construction Company	Procurement Completed
Rd-9	Vayyattupuzha – Potheppad road	Pathanamthitta	35.00	18										*Final DPR yet to be received *AS to be accorded
Total Length of South Package 04 (Kms)			218.73						842.18	699.46				

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			Expenditure 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 May'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 May 2021:

Table 41 Activities Completed in May'2021

Task	Description	Status
Steering Accompanying Measures	Prequalification Evaluation Report of Vulnerability Assessment	<ul style="list-style-type: none"> Submitted on 7th May'2021 to KSTP
Evaluation of RD 09 (Pkg III)	<p>Rehabilitation and Up gradation of Thrissur – Kuttipuram Road in Thrissur District</p> <ul style="list-style-type: none"> Following are the Technically Responsive Bids of Rd 09 <ol style="list-style-type: none"> M/s. Cherian Varkey Construction Co. (P) Ltd M/s. Gawar - Atcon JV M/s. Marymatha - MKC JV M/s Ray-PRL JV M/s Sreedhanya – Prathmesh JV 	<ul style="list-style-type: none"> Financial bids are opened on 5th May'2021 FBER was submitted by LTPMC to KSTP on 11th May'2021 The price bids submitted by M/s Ray-PRL JV is the lowest i.e 2.65% above the tender value.
Evaluation of RD 02 (Pkg IV)	<p>Rehabilitation and Up gradation of Vadayar – Chandappalam</p> <ul style="list-style-type: none"> Following are the Technically Responsive Bids of Rd 02 <ol style="list-style-type: none"> M/s. Antech -PRL JV M/s. Marymatha Infrastructure (P) Ltd M/s Tarmat Ltd 	<ul style="list-style-type: none"> Financial bids are opened on 7th May'2021 FBER was submitted by LTPMC to KSTP on 13th May'2021 The price bid submitted by M/s. Marymatha Infrastructure (P) Ltd is the lowest i.e.,13.95% above the tender value

Task	Description	Status
Evaluation of RD 08 (Pkg III)	<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"> M/s Antec – PRL JV M/s Marymatha Infrastructure (P) Ltd M/s Tarmat Ltd M/s EKK Infrastructure Ltd M/s KMC Constructions Ltd M/s Midland Engineering and Contracting company JV with M/s Udhayshivkumar Infra Pvt Ltd 	<ul style="list-style-type: none"> Technical bid was opened on 29th March'2021. Revised TBER was submitted to KSTP on 19th May'2021.
Evaluation of RD 10 (Pkg III)	<p>Re-habilitation and Up gradation of Arakunnam – Amballoor road and Poothotta – Piravom road in Ernakulam District</p> <ul style="list-style-type: none"> Following are the Technically Responsive Bids of Rd 10 <ol style="list-style-type: none"> M/s Marymatha Infrastructure (P) Ltd 	<ul style="list-style-type: none"> Price bids are opened on 24th May'2021 FBER was submitted by LTPMC to KSTP on 26th May'2021. The price bid submitted by M/s Marymatha Infrastructure (P) Ltd is 12.40% above the tender value
Monthly Progress Report	Monthly Progress Report for the month of Apr'20	<ul style="list-style-type: none"> Submitted on 26th May'2021

Source: Louis Berger Analysis

6. 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 May'2021.