

# PROJECT MANAGEMENT FOR CLIMATE-RESILIENT RECONSTRUCTION AFTER FLOODING IN KERALA



**MONTHLY PROGRESS REPORT FOR THE MONTH OF JANUARY 2021**



## Monthly Progress Report – January 2021

|                      |  |               |
|----------------------|--|---------------|
| <b>Project Name</b>  | Consulting Services for Project Management of Climate-Resilient Reconstruction after Flooding in Kerala              |               |
| <b>Document Name</b> | Monthly Progress Report – January 2021   |               |
| <b>Document No.</b>  | 4800221-PMC-07   | Issue No. 1.0 |
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### ISSUE LOG/SIGNATURE PAGE

| Issue No | Submission Date | Remark             | Approved By                                       |           |
|----------|-----------------|--------------------|---|-----------|
|          |                 |                    | Name/Position                                     | Signature |
| 1.0      | 12-Feb-2021     | Monthly Submission | Mohan K. Krishnan Poduval<br>Authorized Signatory |           |

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# 1. Introduction

## 1.1. Project Background

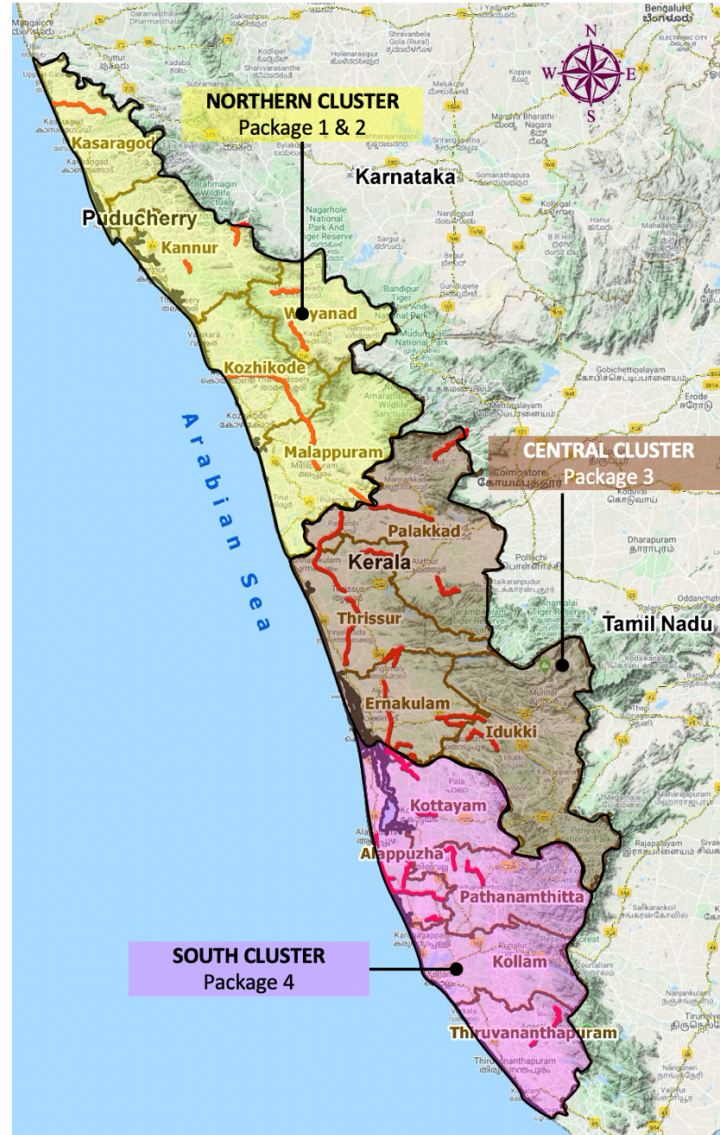
Kerala, a coastal State in the south of India, was inundated with a once in 100-year state-wide flood in 2018, by way of unusually high rainfall, that led to damages of nearly USD 5.6 billion, affected 5.4 million people, and left 483 people dead. This disaster, which affected thirteen out of the fourteen 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), an extension of the PWD of the Government of Kerala, and hereafter referred to as the PEA/ Client, 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 an additional Loan 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 5<sup>th</sup> 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-<br>Vaniyappara - Charal - Valavupara - Kacherikkadavu<br>Palathumkadav road   | 24.45              |
| 2                                  | RKI-12    | Kannur    | Major District Road (MDR) | Uruvachal Manakkayi valayal (including bridge parallel to<br>aqueduct at valayal)- Keezhallur Therur Palayod-Vellaparamba<br>Karimbala Colony Maruthaayi road                                | 20.90              |
| 3                                  | RKI-13    | Kasaragod | Major District Road (MDR) | Kumbla- badiadka-Mulleria road   | 29.14              |
| 4                                  | RKI-14    | Kozhikode | State Highway SH -34      | Koyilandy Thamrassery Mukkam Areekode Edavanna road:<br>1. km 0.00 to 25.00-Koyilandy to Poonoor:<br>2. km:25.00 to 37.500-Poonoor- Omassery<br>3. km 37.500 to 51.200 Omassery to Eranhimav | 46.32              |
| 5                                  | RKI-15    | Wayanad   | Major District Road (MDR) | Vythiri-Tharuvana road   | 13.62              |
| 6                                  | RKI-10    | Wayanad   | Major District Road (MDR) | Mananthavady - Vimalanagar - Kulathada - Valad HS - Periya<br>road between km2/500 to 27/300 in Wayanad District   | 27.3               |
| <b>Total Length of Roads (Kms)</b> |           |           |                           |  | <b>161.73</b>      |

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              |
| <b>Total Length of Roads (Kms)</b> |           |            |                           |   | <b>127.71</b>      |

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                 |
| 10                                 | Rd-10     | Ernakulam | MDR      | Arakunnam-Amballoor-Poothatta-Piravam Road (Additional Road Added)  | 7.98               |
| <b>Total Length of Roads (Kms)</b> |           |           |          |   | <b>238.14</b>      |

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 (Model/ Pilot 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 (Model/ Pilot Road)  | 7.87               |
| 6                                  | Rd-6      | Thiruvananthapuram | SH       | Thiruvananthapuram Ponmudi road (From Nedumangad to Ponmudi)   | 41.75              |
| 7                                  | Rd-7      | Alappuzha          | SH/MDR   | Thattarambalam-Michael Junction-Kochalumood-Mangankuzhy-Pandalam (Additional Road Added)   | 18.66              |
| 8                                  | Rd-8      | Alappuzha          | MDR      | Veeyapuram-Edathua-Puthukarry-Marnbuzhakkary-Kidangara- Kunnamgary-Kumarangary-Valady-Mullakarthuruthy (Additional Road Added)                                 | 21.45              |
| 9                                  | Rd-9      | Ranni              | MDR      | Vayuttupuzha-Potheppad Road (Additional Road Added)  | 38.50              |
| <b>Total Length of Roads (Kms)</b> |           |                    |          |  | <b>222.23</b>      |

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 , M/s. MSV International Inc. JV M/s.JSV Associates Engineers Pvt.Ltd is the successful bidder. Observations on financial proposal with amendment to cost schedules and advice for negotiation meeting submitted on 29-10-2020
- 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
- Supervision Consultants for Central package 03 and South Package 04 are in procurement stage

Table 5 Supervision Consultants and Authority's Engineer

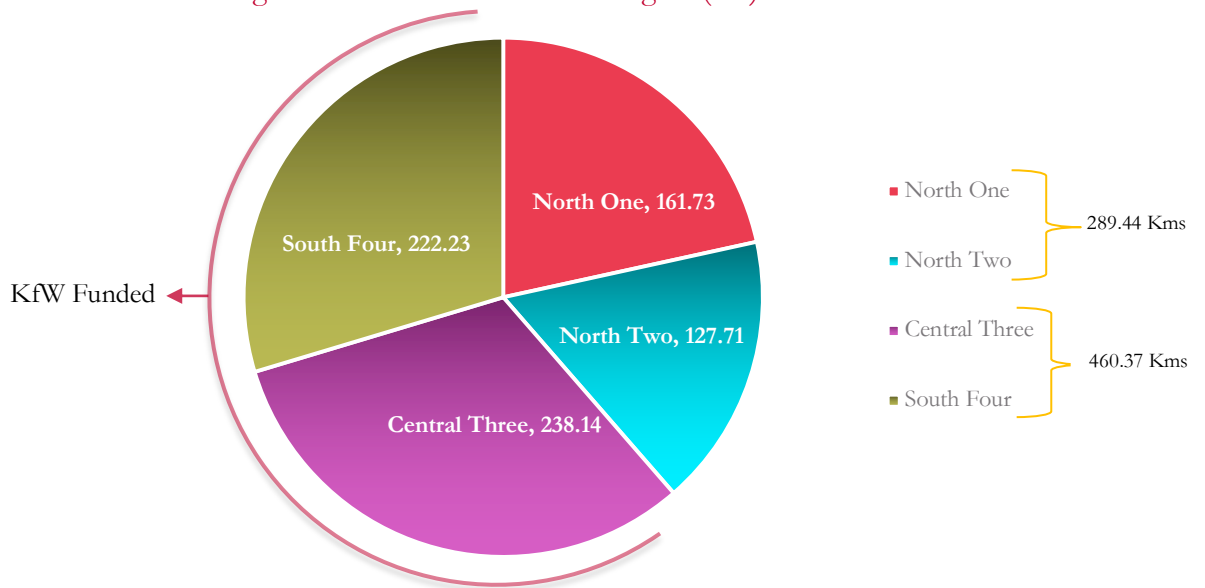
| No | Contract Name   | Package | Awarded to   |
|----|---|---------|--|
| 1  | Consulting Services for Construction Supervision for Climate Resilient Reconstruction after Flooding in Kerala  | 3 & 4   | Tender opening on 19-02-2021   |
| 2  | Consultancy Services For Authority's Engineer For Supervision 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 is Successful bidder |
| 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 at Bid Stage

With total road contracts numbering 29 (10 north, 10 central and 9 south), with 749.81 km (KfW 460.37 and World Bank 289.44Kms), 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<br>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 :4 |
| Report Duration       | 1-Jan-2021 to 31-Jan-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.

The following sub chapters relating to the Real Time Progress Monitoring is tabled below and will be updated in the forthcoming Progress Reports since no construction activities has commenced during the reporting month:

- 3.4. Forward Schedule**
- 3.5. Current and Projected Costs**
- 3.6. Overall Construction Progress**
- 3.7. Risk Exposure**
- 3.8. Open Changes and Claims**
- 3.9. Health and Safety Statistics**
- 3.10. Staff Deployment**

## 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  | <b>PM01</b> Bid Evaluation Process, Contract Negotiations and Award            |
| 2  | <b>PM02</b> Quality Assurance and Control Monitoring                           |
| 3  | <b>PM03</b> Liaison with Client and Governmental Agencies                      |
| 4  | <b>PM04</b> Public Information   |
| 5  | <b>PM05</b> Project Controls   |
| 6  | <b>PM06</b> Contract Management  |
| 7  | <b>PM07</b> Financial Management   |
| 8  | <b>PM08</b> Claims Management  |
| 9  | <b>PM09</b> Change/Variation Management  |
| 10 | <b>PM10</b> Risk Management  |
| 11 | <b>PM11</b> Document Control   |
| 12 | <b>PM12</b> Environmental, Social, Health and Safety Management and Monitoring |
| 13 | <b>PM13</b> Assistance during Defect Liability Period                          |
| 14 | <b>PM14</b> 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 | Utilized Man months | Balance Man months |
|------------------|-----------------------------------|---------------------------|-----------------|-----------------|--------------------------|---------------------|--------------------|
| Key Experts      |                                   |                           |                 |                 |                          |                     |                    |
| 1                | Team Leader                       | Mohan K. Krishnan Poduval | 18-Aug-2020     | -               | 33                       | 5.5                 | 27.54              |
| 2                | Senior Cost Surveyor              | Shalini Thomas            | 20-Aug-2020     | -               | 30                       | 5.4                 | 24.61              |
| 3                | Contract/Procurement Expert       | Sanjeev Agarwal           | 18-Aug-20       | 08-Sep-2020     | 30                       | 0.69                | 29.31              |
| 4                | Environmental & Social Specialist | AM Reddy                  | 29-Oct-2020     | -               | 30                       | 3.09                | 26.91              |
| 5                | Community Liaison Officer         | Dilkush K                 | 16-Sep-2020     | -               | 30                       | 4.50                | 25.50              |
| Non-Key Expert   |                                   |                           |                 |                 |                          |                     |                    |
| 6                | Planning Engineer                 | Amrutha                   | 18-Aug-2020     | 07-Nov-2020     | 30                       | 2.66                | 24.58              |
|                  |                                   | Y. Srikanth               | 8-Nov-2020      | -               |                          | 2.76                |                    |
| Supporting Staff |                                   |                           |                 |                 |                          |                     |                    |
| 7                | Document Controller               | Kishore Nair              | 24-Sep-2020     | -               | 30                       | 4.24                | 25.76              |
| 8                | Accountant                        | Balu V                    | 23-Nov-2020     | -               | 30                       | 2.27                | 27.73              |

Source: Louis Berger Analysis



The following sub chapters form part of this report: will be updated in the forthcoming progress reports since no construction activities has commenced during the reporting month:

### 4.3. Main Activities

### 4.4. Target/Actual Comparison of activities

### 4.5. Time

### 4.6. Preparation of documents and approvals

### 4.7. 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    | Kick-off Meeting for projects under Package 2 of KSTP-RKI funded by World Bank (MOM attached as Annexure 01) | Date :4 <sup>th</sup> Jan'21<br>Location :KSTP office     | Principal agenda of the meeting was to have a formal introduction between client KSTP. Long-term PMC (LTPMC) Louis Berger, Authority Engineer (AE02) Egis-Orion and respective package 2 contractors. |
| 2    | Meeting with Project Director  | Date : 12 <sup>th</sup> Jan'2021<br>Location: KSTP office | LTPMC Introductory meeting with the Project Director<br>Sh. Pranabjyothi Nath IAS at KSTP office  |
| 3    | LTPMC Site visit RKI -8 (Thavalam Mully Road)  | Date : 18 <sup>th</sup> Jan'21<br>Location : RKI-8        | Main agenda of the site visit was conducting training sessions on initial activities and to address project site specific issues (Site Visit Photographs attached as annexure 02)                     |
| 4    | LTPMC Site Visit RKI -7 (Mundoor- Thootha Junction)  | Date : 19 <sup>th</sup> Jan'21<br>Location : RKI-7        |   |
| 5    | LTPMC Site Visit RKI -6 (Koyilandy - Edavanna road)  | Date : 20 <sup>th</sup> Jan'21<br>Location: RKI-6         |   |
| 6    | LTPMC Site Visit RKI -5 (Perumbilavu-Nilambur Road)  | Date : 21 <sup>st</sup> Jan'21<br>Location: RKI-5         |   |
| 7    | LTPMC Site Visit Pckg 3 Rd-7 (Kodungallur- shornur SH (SH 22)  | Date : 22 <sup>nd</sup> Jan'21<br>Location : Pkg 3 Rd7    |   |
| 8    | LTPMC Site Visit Pckg 3 Rd-10 (Arakunnam-Amballoor-Poothatta-Piravam Road)                                   | Date : 23 <sup>rd</sup> Jan'21<br>Location : Pkg 3 Rd10   | Main agenda is to look at practical condition of the project site   |

## 4.8. Table of Correspondences

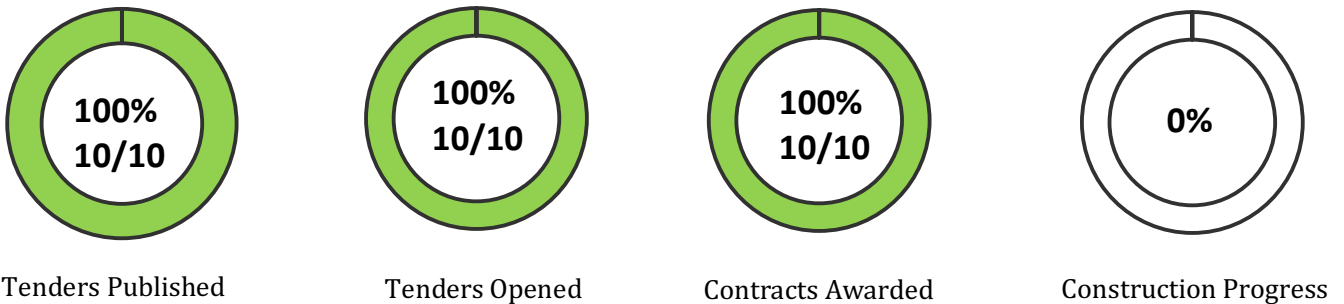
## 4.9. Audit

# 5. Progress of Construction

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

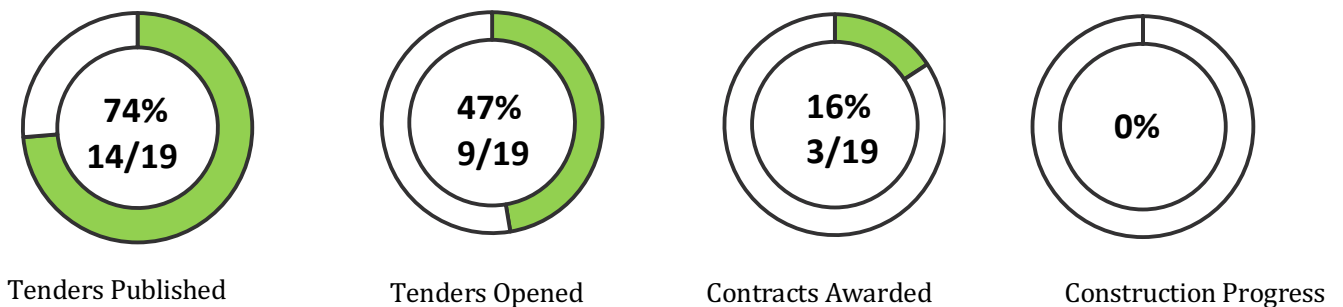
- Status of tenders published, Contractors finalized and Construction progress of all the packages are Shown below:

### North Package 01 & 02 (Funded by World Bank)



- In North Package 01 & 02 ,10 roads (RKI-5,RKI-6,RKI-7,RKI-8,RKI-10,RKI-11,RKI-12,RKI-13,RKI-14 & RKI-15) has been awarded .

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



- In Central Package 03, 1 road (Rd-7) LOA has been issued , 6 roads (Rd-1,Rd-2,Rd-3,Rd-4,Rd-9,Rd-10) are in procurement stage and 3 roads (Rd-5,Rd-6 and Rd-8) are in DPR approval stage.
- In South Package 04, 2 roads (Rd-5 & Rd-8) LOA has been issued , 4 roads(Rd-1,Rd-3,Rd-4,Rd-7) financial evaluation had been completed, 1 road (Rd-2) to be retendered(NO awaited from KfW) and 2 road (Rd-6 & Rd-9) are in DPR approval stage.

## 5.1. North Package 01

Table 9 Status of North Package 01

| Procurement Status of North Package 01 funded by World bank under EPC Mode |            |             |  |          |               |          |                    |                        |                       |                       |                |                               |                |  |                              |
|--|------------|-------------|--|----------|---------------|----------|--------------------|------------------------|-----------------------|-----------------------|----------------|-------------------------------|----------------|--|------------------------------|
| S.No   | Package    | Road Ref No | Description  | District | Length (Kms)  | Duration | Maintenance Period | Tender Submission Date | Technical bid Opening | Financial Bid Opening | 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                 | 24-Aug-20              | 24-Aug-20             | 11-Sep-20             | 28-Oct-20      | 102.83                        | 29-Dec-20      | M/s ULCCS  | Design works in progress     |
| 2  |            | RKI-11      | Edoor – Companynirath - Anapanthy - Angadikkadavu- Vaniyappara - Charal - Valavupara - Kacherikkadavu - Palathumkadav road   | Kannur   | 24.45         | 18       | 60                 | 7-Sep-20               | 7-Sep-20              | 18-Sep-20             | 28-Oct-20      | 136.2                         | 21-Dec-20      | M/s RDS Projects                                 | Design works in progress     |
| 3  |            | RKI-12      | Uruvachal Manakkayi valayal (including bridge parallel to aqueduct at valayal)- Keezhallur Therur Palayod-Vellaparamba Karimbala Colony Maruthaayi Road                                  | Kannur   | 20.9          | 18       | 60                 | 12-Oct-20              | 12-Oct-20             | 23-Oct-20             | 14-Dec-20      | 106.94                        | TBN            | M/s EPIL   | Inventory Survey in Progress |
| 4  |            | RKI-13      | Kumbla- Badiadka-Mulleria Road   | Kasargod | 29.14         | 24       | 60                 | 12-Oct-20              | 12-Oct-20             | 21-Oct-20             | 14-Dec-20      | 167.99                        | TBN            | M/s RDS Projects                                 | Inventory Survey in Progress |
| 5  |            | RKI-14      | Koyilandy Thamrassery Mukkam Areekode Edavanna road:<br>1) km 0.00 to 25.31-Koyilandy to Poonoor:<br>2) km 25.31 to 37.93-Poonoor- Omassery<br>3) km 37.93 to 51.02Omassery to Eranhimav | Kozikode | 46.32         | 24       | 60                 | 27-Oct-20              | 27-Oct-20             | 12-Nov-20             |                | 235.01                        | TBN            | M/s. Sreedhanya Construction Company             | LOA Issued                   |
| 6  |            | RKI-15      | Vythiri-Tharuvana road   | Wayanad  | 13.62         | 16       | 60                 | 27-Oct-20              | 27-Oct-20             | 10-Nov-20             |                | 68.27                         | TBN            | M/s. Midland Engineering and Contracting Company | LOA Issued                   |
| <b>Total Length of North Package 01 (Kms)</b>                              |            |             |  |          | <b>161.73</b> |          |                    |                        |                       |                       |                |                               |                |  |                              |

## 5.2. North Package 02

Table 10 Status of North package 02

| Procurement Status of North Package 02 funded by World bank under EPC Mode |            |             |   |            |              |          |                    |                        |                       |                       |                |                               |                |                                     |  |
|--|------------|-------------|---|------------|--------------|----------|--------------------|------------------------|-----------------------|-----------------------|----------------|-------------------------------|----------------|-------------------------------------|--|
| S.No   | Package    | Road Ref No | Description   | District   | Length (Kms) | Duration | Maintenance Period | Tender Submission Date | Technical bid Opening | Financial Bid Opening | Agreement Date | Contract Amount in INR Crores | Appointed Date | Contractor                          | Status   |
| 1  | 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                 | 16-Jul-20              | 16-Jul-20             | 7-Sep-20              | 7-Oct-20       | 144                           | TBN            | M/s KMC Constructions               | Inventory Survey in Progress                         |
| 2  |            | 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                 | 16-Jul-20              | 16-Jul-20             | 7-Sep-20              | 8-Oct-20       | 189.76                        | 23-Nov-20      | M/s Shreedanya Construction Company | Plan & Profile for 10Kms submitted by the contractor |
| 3  |            | 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                 | 16-Jul-20              | 16-Jul-20             | 7-Sep-20              | 13-Nov-20      | 323.10                        | TBN            | M/s KMC Constructions               | Inventory Survey in Progress                         |
| 4  |            | RKI-8       | Thavalam Mully Road CH 0/000 to 28/800  | Palakkad   | 28.5         | 18       | 60                 | 27-Aug-20              | 27-Aug-20             | 9-Sep-20              | 28-Oct-20      | 132.8                         | 23-Nov-20      | M/s Akshya Builder JV EKK           | Design works in progress                             |
| Total Length of North Package 02 (Kms)                                     |            |             |   |            | 127.71       |          |                    |                        |                       |                       |                |                               |                |                                     |  |

### 5.3. Central Package 03

Table 11 Status of Central Package 03

| Status of Central Package 03 funded by KfW                               |            |  |             |           |              |          |                    |                        |                       |                       |            |                   |                |            |  |   |
|--|------------|--|-------------|-----------|--------------|----------|--------------------|------------------------|-----------------------|-----------------------|------------|-------------------|----------------|------------|--|---|
| S.No   | Package    | Road Name  | Road Ref No | District  | Length (Kms) | Duration | Maintenance Period | Tender Submission Date | Technical bid Opening | Financial Bid Opening | LOA Issued | *Bid Price in Crs | Agreement Date | Contractor | Status   |   |
| 1  | Package 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             |            | 91.88             |                |            | *NOC for technical evaluation received on 7-01-2021.<br>*Financial evaluation was submitted on 20-Jan-2021 |   |
| 2  |            | Kakkadassery - Kaliyar road Ch. 0/000 to 20/000  | RD-02       | Ernakulam | 20.18        | 18       | 60                 | 15-Mar-21              | 15-Mar-21             |                       |            |                   | 67.74          |            |  | *Tendered with last date of submission of bids as on 15-03-2021 |
| 3  |            | Muvattupuzha - Theni SH (Ch. 0/000 to 15/750)  | RD-03       | Ernakulam | 16.18        | 18       | 60                 | 8-Feb-21               | 8-Feb-21              |                       |            |                   | 80.91          |            |  | *Tendered with last date of submission of bids as on 08-02-2021 |
| 4  |            | Kumarakom Nedumbassery (proposed SH) from Peruva to Peruvammuzhi   | RD-04       | Ernakulam | 21.40        | 18       | 60                 | 26-Feb-21              | 26-Feb-21             |                       |            |                   | 96.85          |            |  | *Tendered with last date of submission of bids as on 26-02-2021 |
| 5  |            | Neyyassery Thokkumbansaddle road   | RD-05       | Idukki    | 31.92        | 24       | 60                 |                        |                       |                       |            |                   | 144.3          |            |  | *Waiting for clearance from KfW, German Bank                    |
| 6  |            | Nenmara - Nelliampathy road km 0/00 to 30/714  | RD-06       | Palakkad  | 30.47        | 24       | 60                 |                        |                       |                       |            |                   | 95.72          |            |  | *Waiting for clearance from KfW, German Bank                    |
| 7  |            | Kodungallur- shomur SH (SH 22)   | RD-07       | Thrissur  | 34.35        | 24       | 60                 | 2-Nov-20               | 2-Nov-20              | 1-Jan-21              | 22-Jan-21  |                   | 203.22         |            | M/s. Gawar Construction Ltd. ATCON India Ltd. (JV)   | LOA Issued  |
| 8  |            | Vazhakkodu Plazhy road Km.0/000 to 22/642  | RD-08       | Thrissur  | 22.72        | 18       | 60                 |                        |                       |                       |            |                   | 93.68          |            |  | * Waiting for clearance from KfW, German Bank                   |
| 9  |            | Thrissur Kuttippuram Road (SH 69) 4 stretches (Many stretches in between in progress by other agency KIIFB ) | RD-09       | Thrissur  | 33.00        | 24       | 60                 | 26-Feb-21              | 26-Feb-21             |                       |            |                   | 212.82         |            |  | *Tendered with last date of submission of bids as on 26-02-2021 |
| 10   |            | Arakunnam-Amballoor-Poothatta-Piravam Road   | RD-10       | Ernakulam | 7.98         | 12       | 60                 | 18-Mar-21              | 18-Mar-21             |                       |            |                   | 27.94          |            |  | *Tendered with last date of submission of bids as on 18-03-2021 |
|  |            | Total Length of Central Package 03 (Kms)   |             |           | 238          |          |                    |                        |                       |                       |            |                   |                |            |  |   |
| <b>Note:</b> Bid Price is including GST and maintenance cost for 5 years |            |  |             |           |              |          |                    |                        |                       |                       |            |                   |                |            |  |   |

## 5.4. South Package 04

Table 12 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 | Financial Bid Opening | 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             | 11-Jan-21             | -          | 104.3             | -              | -          | -                                  | *NOC for technical evaluation received on 7-01-2021.<br>*Financial evaluation was submitted on 20-Jan-2021  |   |
| 2  |            | Vadayar Chandappalam- Mulakkulam Road and Vadayar Kallattippalam Muttuchira Road   | Rd-2        | Kottayam           | 22.48         | 18       | 60                 | 5-Oct-20                    | 5-Oct-20              | 1-Dec-20              | -          | 98.96             | -              | -          | -                                  | * Since the prices quoted are very high with the total amount 30% above the Tender Price,<br>* Deviation analysis as requested by KfW on 11th Jan'2021 has been submitted to KSTP on 13-Jan-2021<br>*NO to retender is awaited from KfW |   |
| 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             | 21-Jan-21             | -          | 97.12             | -              | -          | -                                  | *L1 quoted amount is Rs. 107.52 Crore, which is 10.71 % above tender value  |   |
| 4  |            | Mallapally, Komalam Paduthodu Kallioora Chengaroor Komalam Kavungumprayar Pattakala, TMV road (Road 4)   | Rd-4        | Pathanamthitta     | 23.13         | 18       | 60                 | 30-Nov-20                   | 30-Nov-20             | 18-Jan-21             | -          | 98.98             | -              | -          | -                                  | * Financial Bid evaluation was submitted on 28-Jan-2021<br>*Lowest bid is 3.95% above tender value  |   |
| 5  |            | Malamekkara Kunnathukala Chala Puthenchanda factory Jn Azad Jn road 0/00 to 8/600  | Rd-5        | Pathanamthitta     | 7.87          | 18       | 60                 | 5-Oct-20                    | 5-Oct-20              | 13-Jan-21             | 22-Jan-21  | 28.80             | -              | -          | M/s. KNM-EKK JV                    | LOA Issued on 22-01-2021  |   |
| 6  |            | Thiruvananthapuram Ponmudi road (From Nedumangad to Ponmudi)   | Rd-6        | Thiruvananthapuram | 41.75         | 24       | 60                 | -                           | -                     | -                     | -          | -                 | 203.42         | -          | -                                  | -   | * DPR Approval pending  |
| 7  |            | Thattarambalam-Michael Junction-Kochalummood-Mangankuzhy-Pandalam  | Rd-7        | Allapuzha          | 18.66         | 18       | 60                 | 30-Nov-20                   | 30-Nov-20             | 18-Jan-21             | -          | 110.38            | -              | -          | -                                  | -   | * Financial Bid evaluation was submitted on 27-Jan-2021<br>*Lowest bid is 9% above the tendered value |
| 8  |            | Veeysapuram-Edathua-Puthukary-Marnbuzhakkary-Kidangara-Kunnamgary-Kunmarangary-Valady-Mullakarnthuruthy  | Rd-8        | Allapuzha          | 21.45         | 18       | 60                 | 18-Dec-20                   | 18-Dec-20             | 11-Jan-21             | 22-Jan-21  | 108.9             | -              | -          | M/s Seedhanya Construction Company | LOA Issued on 22-01-2021  |   |
| 9  |            | Vayuttupuzha-Potheppad Road  | Rd-9        | Ranni              | 38.50         | 18       | 60                 | -                           | -                     | -                     | -          | -                 | -              | -          | -                                  | -   | *DPR to be finalized  |
| <b>Total Length of South Package 04 (Kms)</b>                            |            |  |             |                    | <b>222.23</b> |          |                    |                             |                       |                       |            |                   |                |            |                                    |   |   |
| <b>Note: Bid Price is including GST and maintenance cost for 5 years</b> |            |  |             |                    |               |          |                    |                             |                       |                       |            |                   |                |            |                                    |   |   |

## 5.5. Activities Completed in the month of Jan'2021

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

Table 13 Activities Completed in Jan'2021

| Task                         | Description   | Status   |
|------------------------------|---|--|
| Evaluation of RD 01 (Pkg 03) | <p><b>Mookannoor Ezhattumugham Rd ch 0/000 to 14/200 and Blachippara Palissery Rd ch 0/000 to 6/000 (Model/ Pilot Road)</b></p> <ul style="list-style-type: none"> <li>Bidders for Rd-01 (Package 03) include               <ol style="list-style-type: none"> <li>M/s. SPL – AF JV</li> <li>M/s. Marymatha-Akshaya JV</li> <li>M/s Tarmat Ltd</li> <li>M/s Antech- RBL JV</li> </ol> </li> </ul> | <ul style="list-style-type: none"> <li>NOC from KfW for Technical bid Evaluation was received on 7<sup>th</sup>-Jan-2021</li> <li>Financial Evaluation has been completed and submitted to KSTP on 25<sup>th</sup> Jan-2021.</li> <li>Lowest bid is from M/s Marymatha-Akshaya JV which is 0.01% above the estimated tendered price</li> </ul> |
| Evaluation of RD 01 (Pkg 04) | <p><b>Gandhinagar-Medical College-Babu Chazhikadan Road- Kottayam-Parippu Road-Athirampuzha Liessue-Kaippuzha-Mannanam-Pulikkuttissery-Parolickal-Muttappally Road</b></p> <ul style="list-style-type: none"> <li>Bidders for Rd-01 (Package 04) include               <ol style="list-style-type: none"> <li>M/s Sreedhanya Construction Company</li> </ol> </li> </ul>                          | <ul style="list-style-type: none"> <li>NOC from KfW for Technical bid Evaluation was received on 7<sup>th</sup>-Jan-2021</li> <li>Financial evaluation has been completed and submitted to KSTP on 19<sup>th</sup> Jan'21.</li> </ul>  |
| Evaluation of RD 02 (Pkg 04) | <p><b>Vadayar Chandappalam- Mulakkulam Road and Vadayar Kallattippalam Muttuchira Road (Model/ Pilot Road)</b></p> <ul style="list-style-type: none"> <li>Bidders for Rd-01 (Package 04) include               <ol style="list-style-type: none"> <li>M/s. Begorra – PRL JV</li> </ol> </li> </ul>  | <ul style="list-style-type: none"> <li>Financial bid was opened on 1<sup>st</sup> Dec'2020.</li> <li>Since the prices quoted are very high with the total amount 30% above the Tender Price, and this being a sole</li> </ul>  |



| Task                                      | Description  | Status  |
|---|--|---|
|   |  | <p>bidder, it is recommended by LT PMC for retender of the project.</p> <ul style="list-style-type: none"> <li>• Deviation analysis as requested by KfW on 11<sup>th</sup> Jan'2021 has been submitted to KSTP on 13<sup>th</sup> Jan'2021</li> </ul>   |
| <p><b>Evaluation of RD 3 (Pkg 04)</b></p> | <p><b>Pathanamthitta Ayroor-Muttukudukka illathupadi - Muttukudukka prakkanam - Parakkanam Elavumathitta - Kulanada Ramanchira - Thanikkuzhy Thonnamala</b></p> <ul style="list-style-type: none"> <li>• Bidders for Rd-03 (Package 04) include               <ol style="list-style-type: none"> <li>1) M/s Theruvath – PRL JV</li> <li>2) M/s EKK Infrastructure Ltd</li> <li>3) M/s Sreedhanya Construction Company</li> </ol> </li> </ul> | <ul style="list-style-type: none"> <li>• Conditional NO has been received for technical bid evaluation report from KfW on 20<sup>th</sup> Jan'21</li> <li>• Revised technical bid evaluation report has been submitted to KSTP on 25<sup>th</sup> Jan'21 complying to the conditions noted by KfW .</li> </ul>  |
| <p><b>Evaluation of RD 4 (Pkg 04)</b></p> | <p><b>Mallapally, Komalam Paduthodu Kalloopara Chengaroor Komalam Kavungumprayar Pattakala, TMV road</b></p> <ul style="list-style-type: none"> <li>• Bidders for Rd-04 (Package 04) include               <ol style="list-style-type: none"> <li>1) M/s. PCPL – SM JV</li> <li>2) M/s. SPL – RM JV</li> </ol> </li> </ul>   | <ul style="list-style-type: none"> <li>• NOC from KfW for technical bid evaluation report was received on 12<sup>th</sup> Jan'2021 and financial bid was opened on 18<sup>th</sup> Jan'21</li> <li>• Financial bid evaluation report was submitted to KSTP on 28<sup>th</sup> Jan'21</li> <li>• Financial bid submitted by M/s SPL-RM JV is the lowest with 3.95% above the tendered price</li> </ul> |

| Task                        | Description  | Status   |
|-----------------------------|--|--|
| Evaluation of RD 5 (Pkg 04) | <p><b>Upgrading Malamekkara - Kunnanthukala - Chala – Puthenchantha Factory Junction- Azad Junction Road</b></p> <ul style="list-style-type: none"> <li>Bidders for Rd-05 (Package 04) include               <ol style="list-style-type: none"> <li>M/s K.N. Madhusoodanan in JV with M/s. EKK Infrastructure Ltd</li> <li>M/s Raji Mathew &amp; Co</li> </ol> </li> </ul> | <ul style="list-style-type: none"> <li>Conditional NO for the technical bid evaluation from KfW was received on 5<sup>th</sup> Jan'2021.</li> <li>Financial bid evaluation was submitted to KSTP on 16<sup>th</sup> Jan'2021</li> <li>LOA issued to M/s KNN EKK JV</li> </ul>  |
| Evaluation of RD 7 (Pkg 04) | <p><b>Thattarambalam-Michael Junction-Kochalummood-Mangankuzhy-Pandalam</b></p> <ul style="list-style-type: none"> <li>Bidders for Rd-07 (Package 04) include               <ol style="list-style-type: none"> <li>M/s. Begorra – PRL JV</li> <li>M/s Tarmat Ltd</li> <li>M/s Sreedhanya Construction Company</li> </ol> </li> </ul>                                       | <ul style="list-style-type: none"> <li>NOC for technical bid evaluation from KfW was received on 12<sup>th</sup> Jan'2021.</li> <li>Financial bid opened on 18<sup>th</sup> Jan'21</li> <li>Financial bid evaluation report has been submitted to KSTP on 27<sup>th</sup> Jan'21</li> <li>Bid submitted by M/s Begorra -PRL JV is the lowest which is 9% above tendered value</li> </ul> |
| Evaluation of RD 8 (Pkg 04) | <p><b>Veeyapuram-Edathua-Puthukarry-Marnbuzhakkary-Kidangara-Kunnamgary-Kumarangary-Valady-Mullakarnthuruthy</b></p> <ul style="list-style-type: none"> <li>Bidders for Rd-08 (Package 04) include               <ol style="list-style-type: none"> <li>M/s. PCPL – SM JV</li> <li>M/s Tarmat Ltd</li> <li>M/s Sreedhanya Construction Company</li> </ol> </li> </ul>      | <ul style="list-style-type: none"> <li>NOC for technical bid evaluation from KfW was received on 7<sup>th</sup> Jan'2021.</li> <li>Financial bid opened on 11<sup>th</sup> Jan'2021</li> <li>Financial evaluation report has been completed and submitted to KSTP on 15<sup>th</sup> Jan'2021</li> </ul>   |

| Task | Description | Status  |
|------|-------------|---|
|      |             | <ul style="list-style-type: none"> <li>LOA issued to M/s Sreedhanya Construction Company</li> </ul> |

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 completed in Jan'2021. Since there is no construction activity that has been executed in the reporting period, construction progress is not covered in this report and it will be reported in the forth coming reports

## 7. Annexures

Annexure 01 : Minutes of Kick-off meeting held on 4<sup>th</sup> Jan'2021

Annexure 02 : Site Visit (18<sup>th</sup> Jan'2021-23<sup>rd</sup> Jan'2021) Photographs

## Annexure 01

### Minutes of Kick Off Meeting

PROJECT: Climate - Resilient Reconstruction after Flooding in Kerala - PKG II

EMPLOYER : KERALA STATE TRANSPORT PROJECTS(KSTP)

PROJECT MANAGEMENT CONSULTANT :M/s. LOUIS BERGER CONSULTING PVT LTD

The Kick Off Meeting chaired by the Hon'ble Chief Engineer, KSTP, was scheduled at KSTP Conference Hall on the 4<sup>th</sup> of January 2021 at 11.30 am. for the Projects under Package II of the KSTP – Rebuild Kerala Initiative, that are being funded by the World Bank.

RKI Package II comprises of four Road Projects under EPC mode of Contract supervised by an Authority's Engineer

Authority's Engineer : M/s EGIS-ORION JV

Contractors : KSTP - RKI-05 - M/s KMC Constructions  
: KSTP – RKI-06 - M/s. Sreedhanya Construction Company  
: KSTP - RKI-07 - M/s KMC Constructions  
: KSTP - RKI-08 - M/s Akshaya – EKK JV

#### List of Participants:

| No | Name             | Designation                   | Representing | Email                          |
|----|------------------|-------------------------------|--------------|--------------------------------|
| 1  | Darlene D'Cruz   | Chief Engineer                | KSTP,PMT     |                                |
| 2  | RAJI SIVADAS     | Superintending Engineer       | KSTP,PMT     |                                |
| 3  | JAYAKRISHNAN.M   | Executive Engineer            | KSTP,PMT     |                                |
| 4  | C.S ARUN KARMA   | Asst. Executive Engineer      | KSTP,PMT     |                                |
| 5  | ARYA SJ          | Asst Engineer                 | KSTP,PMT     |                                |
| 6  | MOHAN KRISHNAN   | Team Leader & Project Manager | LBC,PMC      | Mohankkrishnan.poduval@wsp.com |
| 7  | SHALINI THOMAS   | Sr.Cost Surveyor              | LBC,PMC      | shalini.thomas@wsp.com         |
| 8  | DILKUSH H        | Community Liaison officer     | LBC, PMC     | dilkushster@gmail.com          |
| 9  | KONAL DIWAN      | Project Co-ordinator          | LBC, PMC     | Konal.Diwan@wsp.com            |
| 10 | RMV SUBRAHMANYAM | General Manager               | EGIS,AE      | Subrahmanyam.r@egis-india.com  |

| No | Name            | Designation          | Representing        | Email                        |
|----|-----------------|----------------------|---------------------|------------------------------|
| 11 | SASIKUMAR PN    | Resident Engineer    | EGIS,AE             | Sasipn666@gmail.com          |
| 12 | G.KARTHIK       | Project Co-ordinator | PKG 5&7 - KMC       |                              |
| 13 | VP ARUN         | Project Manager      | PKG 5&7 - KMC       |                              |
| 14 | VASANTH KUMAR   | Design Consultant    | PKG 5&7 - KMC       | vasanth@PCIPL.india.com      |
| 15 | SREEDHANYA BABU | Executive Director   | Pkg-6<br>SreeDhanya | Sreedhanya.babu@gmail.com    |
| 16 | JOSEPH MATHEW K | Design Director      | Pkg-6<br>SreeDhanya | Josephmathewk13@gmail.com    |
| 17 | ANJU JS         | Junior Engineer      | Pkg-6<br>SreeDhanya | anju@sreedhanyahomes.com     |
| 18 | REGHUNATHAN     | Project Manager      | Akshaya<br>Bulders  | Buildersakshaya.p1@gmail.com |

The principal agenda of this Meeting was to have a formal introduction between the Client KSTP, the Long Term Project Management Consultant (LTPMC) Louis Berger, the Authority's Engineer (AE) EGIS- Orion & respective Package II Contractors.

The meeting commenced at 11.45 AM and ended at 1.00 PM local time.

| No | Salient Features  |
|----|---|
| 1  | <p>The Chief Engineer, Hon'ble Darlene D'Çruz formally welcomed all to the meeting and requested for a brief introduction from the present Project Stakeholders.</p> <p>The CE further enquired about the status of the Road Inventory Survey and the status on the agreement on the Appointed Date between the Contractors and KSTP.</p>   |
| 2  | <p>RKI-08– M/s Akshaya-EKK JV stated that their appointed Date had been fixed as the 22<sup>nd</sup> November 2020 and they were in receipt of the first instalment of the mobilization advance.</p>  |
| 3  | <p>RKI-06– It was stated by M/s Sreedhanya they have not agreed on the Appointed Date despite completing the Road Inventory due to the presence of encumbrances.</p> <p>It was further observed by the Contractor that the Kerala Water Authority (KWA) has proposed to lay pipelines under the carriageway of the road in question, for about 1.7km where the Right of Way (RoW) is minimal.</p> <p>Thus, the Contractor has requested the exclusion of the encumbered stretch from the initial handover and has requested the Client KSTP to select the Appointed Date accordingly. In reply to the above, KSTP responded that the total road length handed over for execution of the works is 31,53Km. Major portion of this road is hindrance free and sufficient work front is already there. Hence Appointed Date once fixed cannot be changed.</p> <p>It was further submitted that the Contractor's design consultant, proof consultant and safety consultant</p> |




| No | Salient Features   |
|----|--|
|    | had been approved by KSTP and that the Contractor has submitted the plan and profile for 10 kms already.   |
| 4  | <p>RKI-05 and RKI-07– M/s KMC Constructions stated that they have submitted their Road Inventory on the 24<sup>th</sup> of Dec 2020.</p> <p>The Chief Engineer further enquired about the status of the Performance Security to which the Contractor requested the reduction of the Performance Guarantee to 3% as advised by the Ministry of Road Transport &amp; Highways (MoRTH) as part of relief measures in the wake of the COVID-19 Pandemic. To this, the Chief Engineer told the contractor that the decision will be reverted soon.</p>  |
| 5  | The Contractors present, requested for the confirmation of their respective roads ROW for which the Chief Engineer has agreed to share the information on the road co-ordinates. Accordingly, the Contractors may collect this aforementioned data from KSTP.  |
| 6  | Another impediment that the Contractors raised was the presence of trees within the ROW which was potentially hindering their work. The Team Leader, LTPMC explained that being a Climate Resilient Project, the overall approach should be on the conservation of the environment along with due consideration to safety. All possibilities shall be considered to preserve trees during the design phase itself.   |
| 7  | <p>The LTPMC stressed on the importance of correspondence in a well co-ordinated and transparent manner between all Stakeholders so as to efficiently streamline the review and approval process. For the avoidance of doubt and to elaborate further, the Contractors shall submit their deliverables such as Plan and Profile, Working Drawings/Designs, Material Sources, etc., to the Authority's Engineer who in turn shall check and approve/ advise the Contractor directly (in case of any required revisions). The final approved document shall be sent to the Contractor for implementation with a copy to KSTP and LTPMC for record and audit.</p> <p>In the same vein, all Contractual and Financial correspondence to KSTP shall be copied to the LTPMC, who's role is that of an Employer's Representative. The adherence of this correspondence procedure would ensure that the LTPMC is able to take timely and proactive decisions in consultation with KSTP and Project Stakeholders.</p> |
| 8  | The Team Leader, LTPMC informed the Consultant and Contractors present that the LTPMC would conduct a Site Visit to each of the Projects during the following week with the intention of conducting a Training session on initial activities and to address Project Site specific issues.  |

The meeting adjourned at 01.00 PM with a vote of thanks by the Team Leader, LTPMC.

  
 Team Leader 28/12/21  
 LTPMC



  
 Chief Engineer  
 KSTP

## Kick Off Meeting Photographs





## Annexure 02

### Site Visit Photographs of North Package 2

#### 1. RKI-8 – Thavalam Mully Road CH 0/000 to 28/800 (Length -28.5Kms)



Key Map



- Starting point at Thavalam (chainage km 0.000) (Arrow showing direction of road)

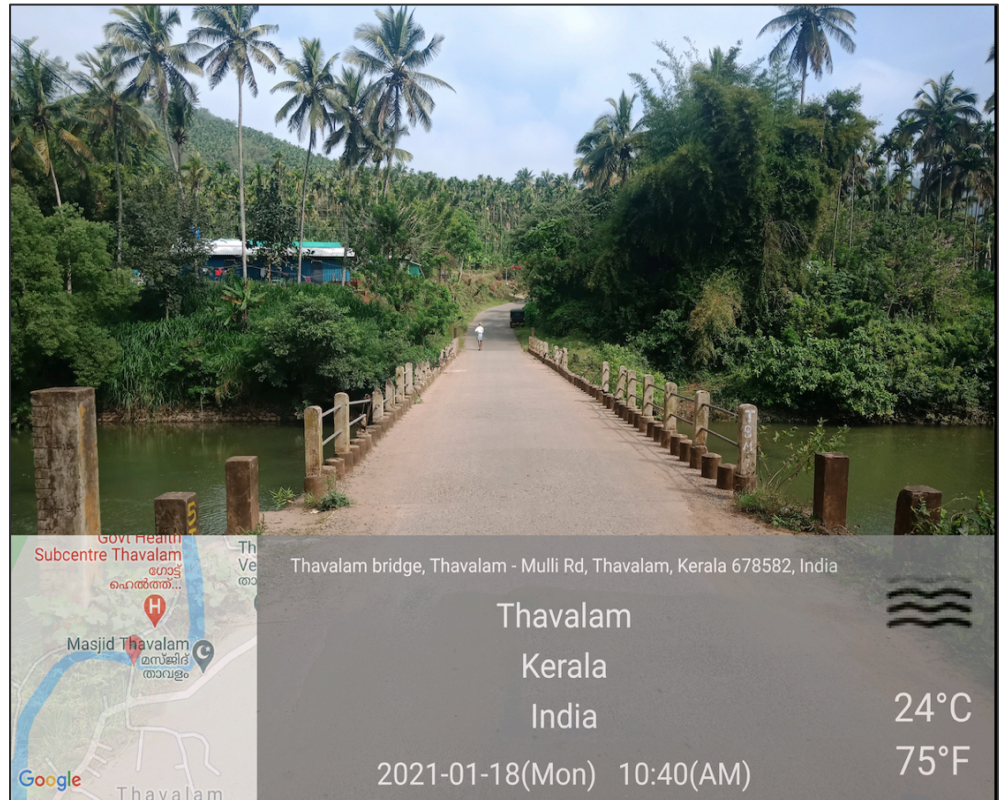


- Long term PMC Team leader along with Sr. Cost Surveyor , Environmental expert and Community Liasoning officer visited RKI-8 Thavalam Mully road on 18<sup>th</sup> Jan'2021.

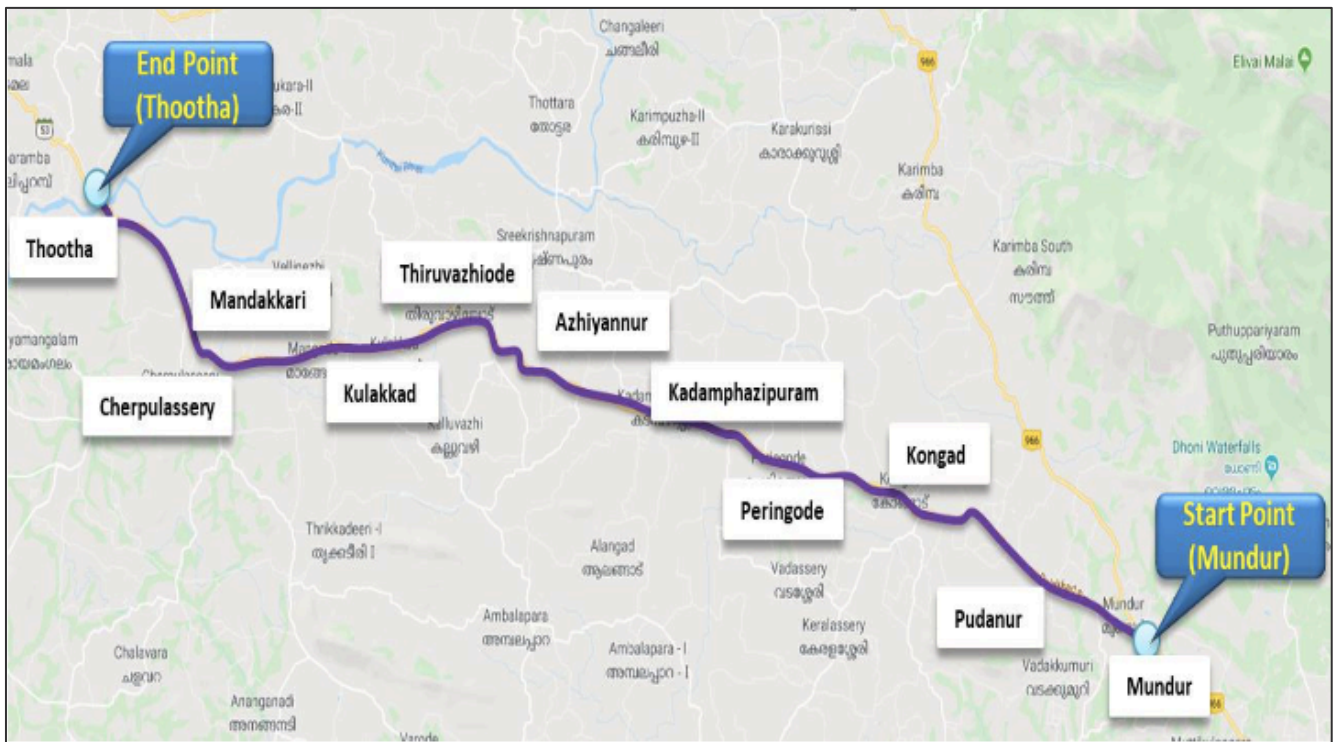
- Representatives from AE 02 (Egis Orion JV ) and EPC contractor Akshya Builder JV EKK were also present



- Thavalam Bridge at Chainage Km O.150



2. RKI -7 : Palakkad -Perinthalmanna Road (Mundur Junction to Thootha Junction of SH-53 (Length -37.38Kms)



Key Map





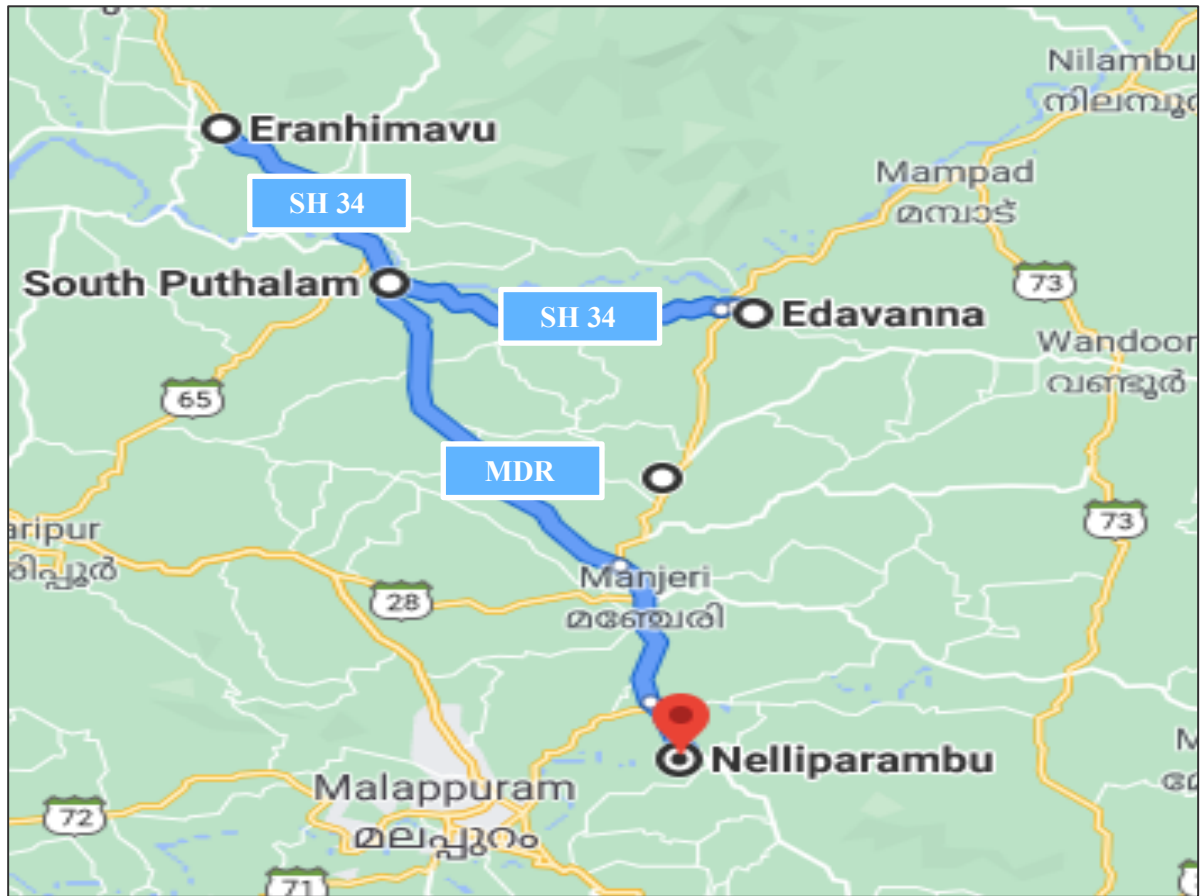
Start Chainage of Project Road at Mundur Junction (Arrow mark showing the direction of the road)



Long term PMC Team leader along with Sr.Cost Surveyor , Environmental expert and Community Liasoning officer visited RKI-7 Mundur Junction to Thootha Junction road on 19th Jan'2021 and conducted interactive meeting with AE 02 M/s Egis Orion JV and Contractor M/s KMC Constructions



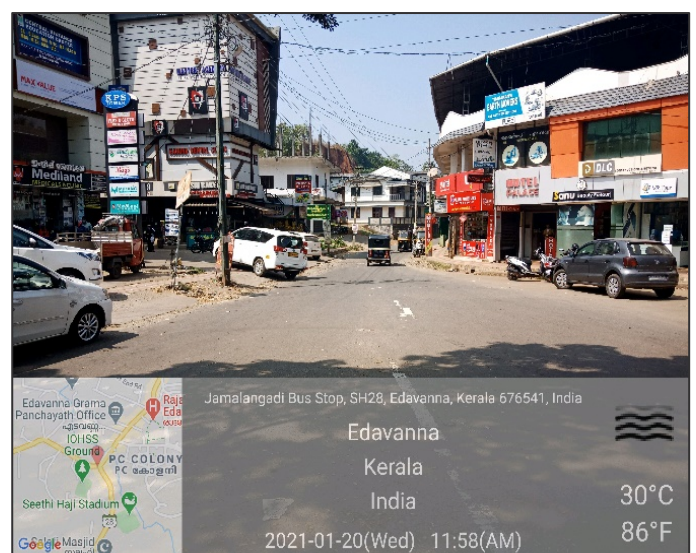
3. RKI-6 : Koyilandy - Edavanna road between Km 51/200 to 69/700 & Areekode - Manjeri road Km 0/000 to 13/600 (Length 31.53Kms)



Key Map

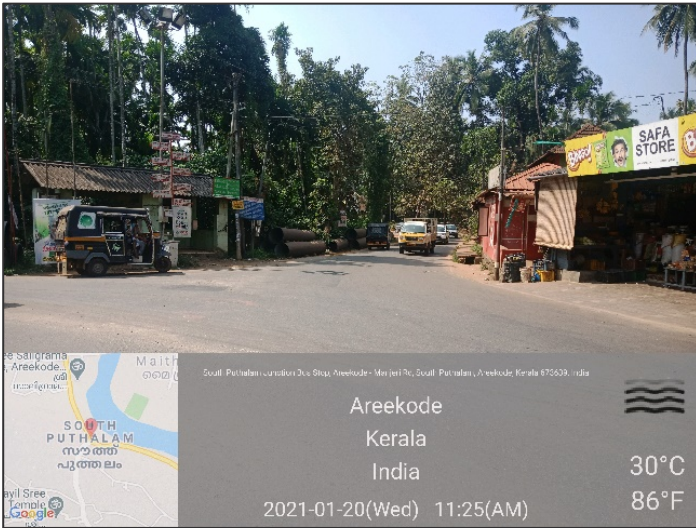


Start point of the SH road at Eranhimavu



End point of SH road at Edavanna





**Start point of MDR at South Puthalam**



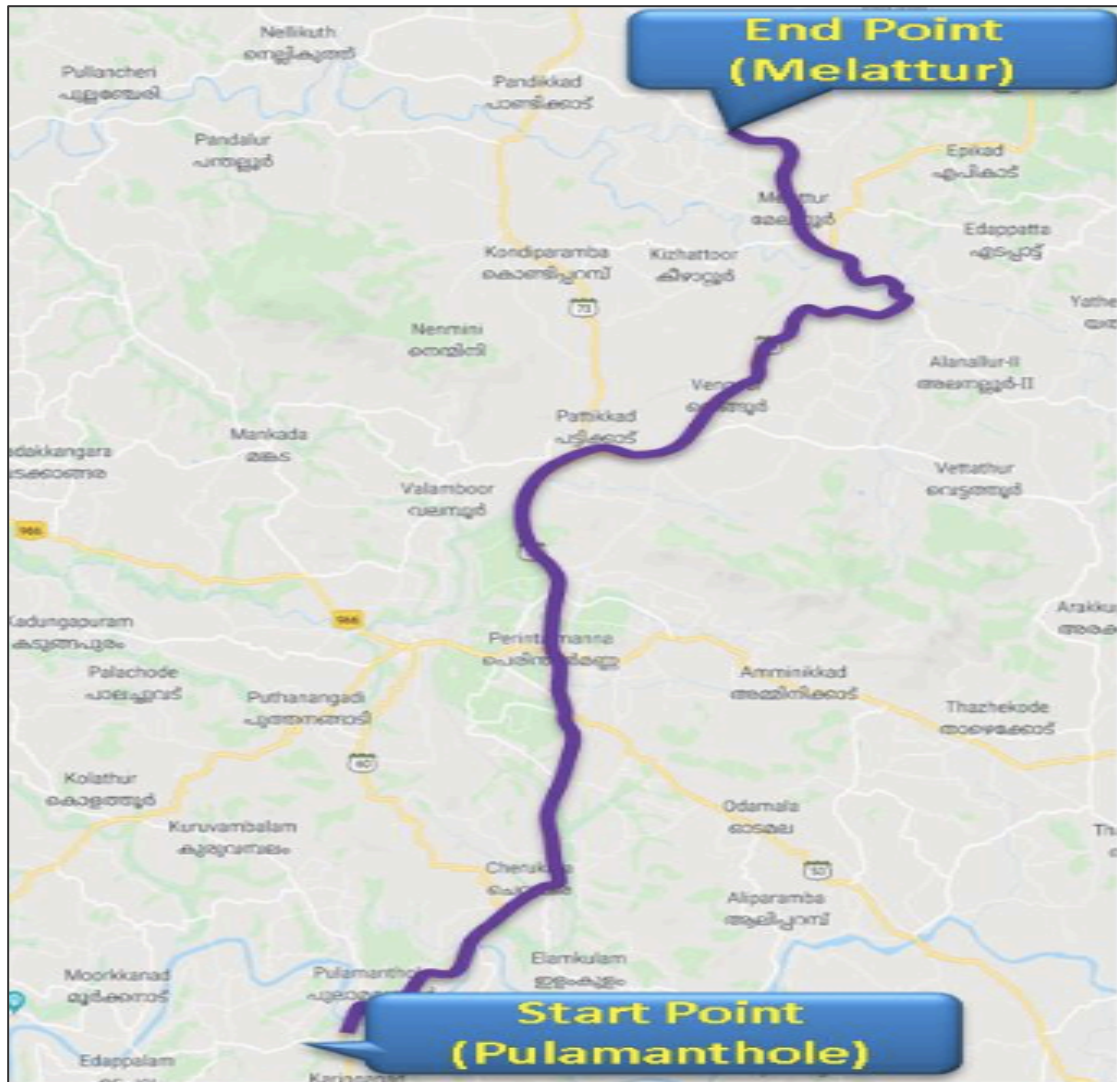
**End Point of MDR at Nelliparambu**



**Long term PMC Team leader along with Sr.Cost Surveyor , Environmental expert and Community Liasoning officer visited RKI-7 Koyilandy edvanna road on 20th Jan'2021 and conducted interactive meeting with AE 02 M/s Egis Orion JV and Contractor M/s Sreedhanya Construction company**



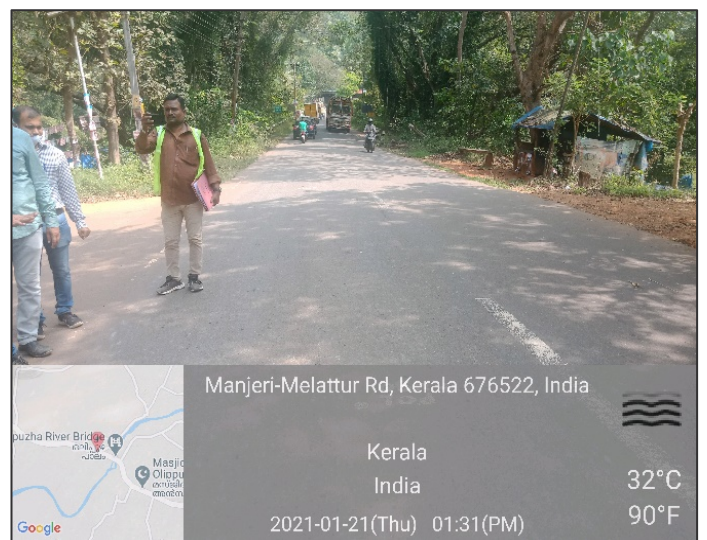
4. RKI-5 : Perumbilavu-Nilambur Road (Length 30.88)



Key Map



Start point at Pulamanthole



End Point at Olipuzha





Long term PMC Team leader along with Sr.Cost Surveyor , Environmental expert and Community Liasoning officer visited RKI-7 Perumbilav-Nilambur road on 21st Jan'2021 and conducted interactive meeting with AE 02 M/s Egis Orion JV and Contractor M/s KMC Construction company

### 5. Package 03 – Rd 10 Arakunnam-Amballoor-Poothatta-Piravam Road

Besides North package 02, LT PMC visited Package 03 Road No 10 which is in procurement stage





