

11th TECHNICAL COMMITTEE MEETING

11th Technical Committee meeting for Scrutiny and approval of project reports prepared by PMU

Meeting No. 10

Date - 12th August, 2020; 2.00 pm

Venue : Online Platform (Google Meet)

AGENDA

Scrutiny and approval of project reports prepared by PMU

PRESENT

S.No	Name	Designation and Office Address
1	Sri Rajan M V	Chief Engineer, LSGD
2	Dr. B.G.Sreedevi	Former Director, NATPAC
3	Dr. Nivin Philip	Professor, Saint Gits College of Engineering
4	Dr Neethu Roy	Professor, Mar Baselios College of Engineering and Technology
5	Dr Jaya V	Professor CET
6	Dr Ashalatha R	Professor, CET
7	Dr.M Nazeer	Professor, TKMCE Kollam
8	Dr. Vishnu R	Assistant Professor, NIT, Waranagal
9	Sri Vishnukumar G	Project Director, PMU RKI LSGD
10	Sri Sajish R	Executive Engineer, PIU RKI LSGD
11	Sri Shiju Chandran	Assistant Executive Engineer, PMU RKI LSGD
12	Shainy N	Assistant Executive Engineer, PMU RKI LSGD
13	Sathyanath B	Assistant Executive Engineer, PMU RKI LSGD
14	Jiju V	Assistant Engineer, PMU RKI LSGD
15	Binod S	Assistant Engineer, PMU RKI LSGD
16	Anil D J	Assistant Engineer, PMU RKI LSGD

17	Riphin K John	Assistant Engineer, PMU RKI LSGD
18	Binil Gopinath	Assistant Engineer, PMU RKI LSGD
19	Hascena	Assistant Engineer, PMU RKI LSGD
20	Sajna Sayed	Assistant Engineer, PMU RKI LSGD
21	Praveen C G	Assistant Engineer, PMU RKI LSGD
22	Remjish	Assistant Engineer, PMU RKI LSGD
23	Vinod M K	Assistant Executive Engineer, PMU RKI LSGD
24	Rehana A C	Assistant Engineer, PMU RKI LSGD

Sl.No.	Description	Action	
1.1	The Chief Engineer, LSGD informed that the proposed meeting is for Scrutiny and approval of project reports (20 nos) prepared by PMU	-	
DISCUSSIONS			
2.1	PD, PMU and the Engineers of PMU RKI LSGD explained the Nature of work, components of work included in the estimate. The details of the work proposed is listed in the table below	-	
S.No	Name of Work	Features of Road	
1	AC Canal to Mankuzhy Road	Length of Road (in kms)	0.8
		Reconstruction or Rehabilitation Suggested	Reconstruction
		Nature of Pavement Suggested	MSS
		Additional Features or Structures provided	Coir Geotextile
		Total Cost (in lakhs)	115.00
		Per km Cost of Pavement (in lakhs)	143.75
Technical Committee opined to check and ensure the longitudinal slope to the paddy field or any other measures for adequate drainage		PMU	
2	Musiris Puzhayoram road ward-4	Length of Road (in kms)	0.258
		Reconstruction or Rehabilitation Suggested	Reconstruction

		Nature of Pavement Suggested	Rigid (PQC M40)
		Additional Features or Structures provided	DR
		Total Cost (in lakhs)	100.00
		Per km Cost of Pavement (in lakhs)	387.60
	<p>Technical Committee opined that regarding road markings the procedure established in the current and updated IRC should be adhered to.</p> <p>Technical Committee instructed to check the road stabilization and opined that possibility of Cement stabilization may also be explored during execution. Also, Technical committee opined that the type of stabilization fixed should not be based purely on CBR data but should also be based on type of soil in the site in future. Hence, the soil stabilization methods adopted should be supplemented with Proofs.</p>		PMU
3	Panjamkavala road ward-18	Length of Road (in kms)	1.095
		Reconstruction or Rehabilitation Suggested	Rehabilitation
		Nature of Pavement Suggested	White topping (PQC M 40)
		Additional Features or Structures provided	DR
		Total Cost (in lakhs)	134.00
		Per km Cost of Pavement (in lakhs)	122.37
	Technical Committee opined that possibility of using ICBP should also be checked		PMU
4	Harbour Road to Maaladi Jetty Road	Length of Road (in kms)	1.175
		Reconstruction or Rehabilitation Suggested	Reconstruction/Rehabilitation
		Nature of Pavement Suggested	Rigid/Panelled (PQC M30)
		Additional Features or Structures provided	Coir Geotextile
		Total Cost (in lakhs)	124.00
		Per km Cost of Pavement (in lakhs)	105.53

5	Maravayal Chathothu road	Length of Road (in kms)	1.288
		Reconstruction or Rehabilitation Suggested	Rehabilitation
		Nature of Pavement Suggested	White topping (PQC M 40)
		Additional Features or Structures provided	Nil
		Total Cost (in lakhs)	160.00
		Per km Cost of Pavement (in lakhs)	124.22
6	Kothadu School Road	Length of Road (in kms)	0.995
		Reconstruction or Rehabilitation Suggested	Rehabilitation
		Nature of Pavement Suggested	White topping (PQC M 40)
		Additional Features or Structures provided	Nil
		Total Cost (in lakhs)	86.00
		Per km Cost of Pavement (in lakhs)	86.43
7	Kuranchery - Nayarangadi road- Kallampara colony -	Length of Road (in kms)	4.988
		Reconstruction or Rehabilitation Suggested	Rehabilitation
		Nature of Pavement Suggested	BC
		Additional Features or Structures provided	DR
		Total Cost (in lakhs)	1250.00
		Per km Cost of Pavement (in lakhs)	250.60
Technical committee instructed to provide cover slabs for drains for preventing clogging of drains and also ensuring safety			PMU
8	Ramankary LPS Vaikkathussery bridge road	Length of Road (in kms)	0.4765
		Reconstruction or Rehabilitation Suggested	Reconstruction
		Nature of Pavement Suggested	Panelled concrete (PQCM30)
		Additional Features or Structures provided	DR

		Per km Cost of Pavement (in lakhs)	156.63
	Technical Committee opined that Bio fencing planting and maintenance strategy should be formulated.		PMU
9	Chakram colony road	Length of Road (in kms)	0.828
		Reconstruction or Rehabilitation Suggested	Reconstruction
		Nature of Pavement Suggested	Rigid (PQC M40)
		Additional Features or Structures provided	Nil
		Total Cost (in lakhs)	93.00
		Per km Cost of Pavement (in lakhs)	112.32
10	Paris Road	Length of Road (in kms)	1.305
		Reconstruction or Rehabilitation Suggested	Rehabilitation
		Nature of Pavement Suggested	BC
		Additional Features or Structures provided	Nil
		Total Cost (in lakhs)	170.00
		Per km Cost of Pavement (in lakhs)	130.27
	Technical Committee opined that the paved shoulders may be replaced and pavement surfacing for 5mtrs width may be ensured		PMU
11	Puthiyakavu - Pozhankavu road	Length of Road (in kms)	0.84
		Reconstruction or Rehabilitation Suggested	Rehabilitation
		Nature of Pavement Suggested	White topping (PQC M 40)
		Additional Features or Structures provided	Nil
		Total Cost (in lakhs)	75.00
		Per km Cost of Pavement (in lakhs)	89.29
	Thickness of Culvert Slab should be made to 18cm or else proper design may be		PMU

Reconstruction or Rehabilitation Suggested	Reconstruction/Rehabilitation
Nature of Pavement Suggested	Rigid/White topping (PQC M 40)
Additional Features or Structures provided	Nil
Total Cost (in lakhs)	114.00
Per km Cost of Pavement (in lakhs)	86.69

6	Chillukarankunnu road	Length of Road (in kms)	1.2
		Reconstruction or Rehabilitation Suggested	Rehabilitation
		Nature of Pavement Suggested	White topping (PQC M 30)
		Additional Features or Structures provided	Nil
		Total Cost (in lakhs)	96.00
		Per km Cost of Pavement (in lakhs)	80.00

7	Cheepunkal - Malikayal Chira Road	Length of Road (in kms)	1.095
		Reconstruction or Rehabilitation Suggested	Rehabilitation
		Nature of Pavement Suggested	White Topping (PQC M30)
		Additional Features or Structures provided	DR
		Total Cost (in lakhs)	148.00
		Per km Cost of Pavement (in lakhs)	135.16

8	LPS Mukkam Kollori Road	Length of Road (in kms)	0.332
		Reconstruction or Rehabilitation Suggested	Rehabilitation
		Nature of Pavement Suggested	Rigid (PQC M30)
		Additional Features or Structures provided	Coir Geotextile
		Total Cost (in lakhs)	52.00

9	Chirakkarpadi Chetalapuncha, Pmattipuncha, Pazhamchira Road	Total Cost (in lakhs)	60.00
		Per km Cost of Pavement (in lakhs)	125.92
		Length of Road (in kms)	2.71
		Reconstruction or Rehabilitation Suggested	Rehabilitation/New
		Nature of Pavement Suggested	BC
		Additional Features or Structures provided	DR
		Total Cost (in lakhs)	348.00
		Per km Cost of Pavement (in lakhs)	128.41
DECISIONS			
3.1	➤ Technical Committee ascertained that the mix for BC layer of the pavement should be Design Mix. Mix and Binder Samples should be collected and kept in the selected Colleges as per Tier-II of the Quality Control mechanism	PMU	
3.2	Technical Committee opined that Junction marking should be provided Also Signal boards should be provided in both the directions, Regulatory, Warning, and Guide signs should be provided in the estimate and site ➤ Traffic markings should be as per IRC 35, 67	PMU	
3.3	➤ Technical Committee informed that where Pedestrian facility is not provided in the site, design speed should be restricted to 30 km/hr and warning signs should be installed at site	PMU	
3.4	Technical Committee granted approval for the Works listed above subject to the conditions mentioned below each set of works	PMU	
3.5	Technical Committee opined that new technologies like use of cement treated bases, emulsified base materials, fly ash with lime combination stabilization, provision for crack relief layer may also be considered while preparing project reports in future and it's performance should be monitored	PMU	
NEXT MEETING			
4.1	Next Technical Committee meeting will be informed well in advance.		

Dr. Nivin Philip

Dr. Vishnu R

Dr. Jayal

Vishnu R

Ashelada R

Sreedhar
Dr B.G. Sreedhar
Chief Engineer

Dr Neethu Roy

11th TECHNICAL COMMITTEE MEETING

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2.1	PD, PMU and the Engineers of PMU RKI LSGD explained the Nature of work, components of work included in the estimate. The details of the work proposed is listed in the table below	-

S.No	Name of Work	Features of Road	
1	Kanjikkal mukku ganam theatre road	Length of Road (in kms)	1.62
		Reconstruction or Rehabilitation Suggested	Reconstruction
		Nature of Pavement Suggested	BC
		Additional Features or Structures provided	DR Side Protection
		Total Cost (in lakhs)	214.00
		Per km Cost of Pavement (in lakhs)	132.10
2	Madathilkadavu Mahilasamajam Kandathilpalli Road	Length of Road (in kms)	0.85
		Reconstruction or Rehabilitation Suggested	Reconstruction
		Nature of Pavement Suggested	Panelled concrete (PQCM30)

	Additional Features or Structures provided	Coir Geotextile
	Total Cost (in lakhs)	145.00
	Per km Cost of Pavement (in lakhs)	170.59
Technical Committee raised concern about the Erosion Control and asked to check the Shear resistance before finalizing the project		PMU

3	Manathukadu Puthuveedu Road & Protection	Length of Road (in kms)	1.145
		Reconstruction or Rehabilitation Suggested	Reconstruction
		Nature of Pavement Suggested	Rigid (PQC M40)
		Additional Features or Structures provided	Coir Geotextile
		Total Cost (in lakhs)	200.00
		Per km Cost of Pavement (in lakhs)	174.67
Technical Committee instructed to check whether adequate no. of cross drainage structures is provided since the either side is paddy field. Technical Committee opined to provide GSB for full width for effectively functioning as a drainage layer. Further Technical Committee opined to check if any other additional material than Bamboo could also be used for Bio fencing works		PMU	

4	Olassa - Cherthalli Road	Length of Road (in kms)	0.88
		Reconstruction or Rehabilitation Suggested	Reconstruction
		Nature of Pavement Suggested	Panelled concrete (PQCM30)
		Additional Features or Structures provided	DR
		Total Cost (in lakhs)	121.00
		Per km Cost of Pavement (in lakhs)	137.50

Technical Committee instructed to check the method of soil stabilization before finalizing the estimate and also the aggregates size should be designed and used if stabilization using aggregates is considered		PMU
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5	Kambinikadavu Pattarmadom Road	Length of Road (in kms)	1.315
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		Reconstruction or Rehabilitation Suggested	Reconstruction/Rehabilitation
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		Additional Features or Structures provided	Nil
		Total Cost (in lakhs)	114.00
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		Total Cost (in lakhs)	75.00
		Per km Cost of Pavement (in lakhs)	89.29
	Thickness of Culvert Slab should be made to 18cm or else proper design may be		PMU

	submitted		
12	Karoorchira - Anjalangadi road	Length of Road (in kms)	1.65
		Reconstruction or Rehabilitation Suggested	Rehabilitation
		Nature of Pavement Suggested	BC
		Additional Features or Structures provided	DR
		Total Cost (in lakhs)	195.00
		Per km Cost of Pavement (in lakhs)	118.18
	Technical Committee opined that since widening is considered and existing culvert also has to be widened. In doing so, the PMU should ensure the stability of the existing culvert as well the abutment area over which widening is proposed as there is a chance that the area where abutment is resting may become weak.	PMU	
DECISIONS			
3.1	➤ Technical Committee ascertained that the mix for BC layer of the pavement should be Design Mix. Mix and Binder Samples should be collected and kept in the selected Colleges as per Tier-II of the Quality Control mechanism	PMU	
3.2	➤ Technical Committee opined that Junction marking should be provided ➤ Also Signal boards should be provided in both the directions, Regulatory, Warning, and Guide signs should be provided in the estimate and site ➤ Traffic markings should be as per latest IRC 35, 67	PMU	
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NEXT MEETING			
4.1	Next Technical Committee meeting will be informed well in advance.		

1. Dr. Nivin Philip

Sreedhar
Dr. B.G. Sreedhar
Chief Engineer

2. Dr. Vishnu R
Goyal
Dr. Jyoti V

Vishnu R

Dr. Ashok R

Dr. Neelha Roy