

14th TECHNICAL COMMITTEE MEETING

13th Technical Committee meeting for Scrutiny and approval of project reports prepared by PMU

Meeting No. 14

Date – 14th January, 2021; 10.00 am

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 Johnson	Chief Engineer, LSGD
2	Dr. B.G.Sreedevi	Former Director, NATPAC
3	Dr. Nivin Philip	Professor, Saint Gits College of Engineering
4	Dr Jaya V	Professor CET
5	Dr Ashalatha R	Professor, CET
6	Dr.M Nazeer	Professor, TKMCE Kollam
7	Dr. Vishnu R	Assistant Professor, NIT, Waranagal
8	Sri Vishnukumar G	Project Director, PMU RKI LSGD
9	Sri Sajish R	Executive Engineer, PIU RKI LSGD
10	Sri Shiju Chandran	Assistant Executive Engineer, PMU RKI LSGD
11	Shainy N	Assistant Executive Engineer, PMU RKI LSGD
12	Sathyanath B	Assistant Executive Engineer, PMU RKI LSGD
13	Jiju V	Assistant Engineer, PMU RKI LSGD
14	Binod S	Assistant Engineer, PMU RKI LSGD
15	Anil D J	Assistant Engineer, PMU RKI LSGD
16	Riphin K John	Assistant Engineer, PMU RKI LSGD

17	Binil Gopinath	Assistant Engineer, PMU RKI LSGD
18	Haseena	Assistant Engineer, PMU RKI LSGD
19	Praveen C G	Assistant Engineer, PMU RKI LSGD
20	Remjish	Assistant Engineer, PMU RKI LSGD
21	Vinod M K	Assistant Executive Engineer, PMU RKI LSGD
22	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 (24 nos) prepared by PMU & Consultants	-
	DISCUSSIONS	
2.1	PD, PMU, Consultant 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	-

SlNo	Name of Work	Features of Road	
1	Policestationpadi TVM Hospital Elangavattom Kshetram Road Pathanamthitta	DPR PRESENTATION BY PMU	
		Length of Road (in kms)	3.022
		Reconstruction or Rehabilitation Suggested	Rehabilitation
		Nature of Pavement Suggested	Flexible + Rigid
		Additional Features or Structures provided	New Construction of Box culvert 2mx1.5m
		Total Cost (in lakhs)	263.00
		Per km Cost of Pavement (in lakhs)	87.03

<p>Technical committee instructed to recheck the traffic calculation and traffic category adopted. As traffic is not enough in stretch 4 & 5 short panel concrete overlay of 10cm is suggested. Redesign the road accordingly. Junction improvement provision should be taken care where ever branch roads joining the State Highway.</p>		PMU
<p>Panchayathpadi Pulluchani Radhapadi Road, Pathanamthitta</p>	Length of Road (in kms)	3.063
	Reconstruction or Rehabilitation Suggested	Rehabilitation
	Nature of Pavement Suggested	Flexible + Rigid
	Additional Features or Structures provided	Reconstruction of Box culvert
	Total Cost (in lakhs)	371.00
	Per km Cost of Pavement (in lakhs)	121.12
<p>Technical committee instructed to recheck the traffic calculation and traffic category adopted. DBM of 50mm thick is adopted for road design as 50mm may not be dense it will act as open graded type so suggested to change to 75mm thick. Redesign the road accordingly. Junction improvement provision should be taken care where ever branch roads joining the State Highway.</p>		PMU
<p>Kottomonpara Melekottomonpara Pandyanpara Road, Pathanamthitta</p>	Length of Road (in kms)	1.8
	Reconstruction or Rehabilitation Suggested	Rehabilitation
	Nature of Pavement Suggested	Flexible + Rigid
	Additional Features or Structures provided	New Construction of Box Culvert 1.5mx1.5m, RCC r/wall
	Total Cost (in lakhs)	246.00
	Per km Cost of Pavement (in lakhs)	136.67
<p>Technical committee instructed to recheck the traffic calculation and traffic category, design will change accordingly. If the traffic volume is low thickness of white topping can be reduced and can considered as short panel concrete. Redesign the road accordingly.</p>		PMU
Nadakkavu Etherikavu Road	Length of Road (in kms)	0.705

	Reconstruction or Rehabilitation Suggested	Rehabilitation
	Nature of Pavement Suggested	Flexible
	Additional Features or Structures provided	Nil
	Total Cost (in lakhs)	41.00
	Per km Cost of Pavement (in lakhs)	58.16
	Length of Road (in kms)	3.656
	Reconstruction or Rehabilitation Suggested	Reconstruction(1/200 to 2/930) + Rehabilitation(0/000 to 1/200, 2/930 to 3/656)
	Nature of Pavement Suggested	Flexible(0/000 to 1/200, 2/930 to 3/656) + Rigid(1/200 to 2/930)
	Additional Features or Structures provided	New construction of Box Culvert <u>1.2x1.2@1/254,</u> <u>1.5x1.5@1/339,</u> <u>1.25x1.2@1/645,</u> <u>2x2@1/785,</u> <u>1.2x1.2@2/190,</u> <u>1.5x1.5@2/280</u> Reconstruction of Box Culvert <u>1.5x1.5@2/340,</u> <u>3x3@3/560</u> CC Retaining Wall Side Drain @ 1/785-1/930, 2/190-2/340,2/235-2/300
	Total Cost (in lakhs)	450.00
	Per km Cost of Pavement (in lakhs)	123.09
	Technical committee suggested to provide Reflectors, Delineators in sufficient quantity especially in curves and also crash barriers end to treated properly. Recheck the OMC percentage.	PMU
5	Thazhe Arapetta - Maankunnu Road	
6	Market Jetty Vathikkadu Jetty Road	
	Length of Road (in kms)	1.2
	Reconstruction or Rehabilitation Suggested	Upgradation
	Nature of Pavement Suggested	Flexible

		Additional Features or Structures provided	Reconstruction of Box culvert 2 Nos, New Construction-1 No, 1.5mx1.5m
		Total Cost (in lakhs)	111.00
		Per km Cost of Pavement (in lakhs)	92.5
7	Madathekkathil Chalukaravu Road	Length of Road (in kms)	0.375
		Reconstruction or Rehabilitation Suggested	Upgradation
		Nature of Pavement Suggested	Rigid
		Additional Features or Structures provided	
		Total Cost (in lakhs)	27.00
		Per km Cost of Pavement (in lakhs)	72.00
8	Palangattupadi Mannarathara Road	Length of Road (in kms)	1.521
		Reconstruction or Rehabilitation Suggested	Rehabilitation
		Nature of Pavement Suggested	Flexible
		Additional Features or Structures provided	Reconstruction of Box culvert 4mx2.5m
		Total Cost (in lakhs)	170.00
		Per km Cost of Pavement (in lakhs)	111.77
		Technical Committee suggested to incorporate the gradation of CTSB and reuse of existing WBM in DPR.	PMU
9	Marankulangra Village Office Preethikulangara School Road	Length of Road (in kms)	2.265
		Reconstruction or Rehabilitation Suggested	Rehabilitation
		Nature of Pavement Suggested	Flexible
		Additional Features or Structures provided	New Construction of Box Culvert 1.2x1.5x1.5m, 3 nos reconstruction
		Total Cost (in lakhs)	180.00

	Per km Cost of Pavement (in lakhs)	79.47
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DPR PRESENTATION BY CONSULTANTS

1	Karlad - Manjoora Road	Length of Road (in kms)	1.955
		Reconstruction or Rehabilitation Suggested	Reconstruction(0/000 to 1/470, 1/635 to 1/830) Rehabilitation(1/470 to 1/635, 1/830 to 1/957)
		Nature of Pavement Suggested	Flexible
		Additional Features or Structures provided	New construction of Box Culvert <u>2x1.5@0/540</u> Reconstruction of Box Culvert <u>2x1.5@1/058,</u> <u>2x1.5@1/423</u>
		Total Cost (in lakhs)	192.85
		Per km Cost of Pavement (in lakhs)	98.65

2	Erumatherivu Choottakadavu Road	Length of Road (in kms)	1.74
		Reconstruction or Rehabilitation Suggested	Reconstruction(0/150 to 0/440, 0/510 to 0/850, 0/940 to 1/721) + Rehabilitation(0/000 to 0/150, 0/440 to 0/510, 0/850 to 0/940)
		Nature of Pavement Suggested	Flexible
		Additional Features or Structures provided	Retaining Wall (0/160 to 0/280) New construction of Box Culvert <u>2x1.5@1/190</u>
		Total Cost (in lakhs)	211.50
		Per km Cost of Pavement (in lakhs)	121.55

3		Length of Road (in kms)	1.79
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Cheriyamkolli
Kalluvettumthazhe Road

Reconstruction or Rehabilitation Suggested	Reconstruction(0/000 to 1/340) + Rehabilitation(1/340 to 1/766)
Nature of Pavement Suggested	Flexible
Additional Features or Structures provided	CC Drain(0/120 to 0/180) Retaining Wall(0/225 to 0/325) Reconstruction of Box Culvert 3x1.5@0/876
Total Cost (in lakhs)	186.66
Per km Cost of Pavement (in lakhs)	104.27

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Kuppadithara - Millumukku
Kurumani Road

Length of Road (in kms)	1.365
Reconstruction or Rehabilitation Suggested	Rehabilitation
Nature of Pavement Suggested	Flexible
Additional Features or Structures provided	Retaining Wall (0/650 to 0/750) Box Culvert <u>2x1.5@0/195,</u> Reconstruction,5x2 @0/560 Retaining and rehabilitating
Total Cost (in lakhs)	189.56
Per km Cost of Pavement (in lakhs)	138.87

Technical Committee suggested to check whether sufficient vent way is provided for existing culvert.

Consultant

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Chudel-Chudel Estate-Pappala

Length of Road (in kms)

4.69

Anoth Road	Reconstruction or Rehabilitation Suggested	Reconstruction(1/7 to 3/000, 4/575 to 4/679) + Rehabilitation(0/000 to 1/710, 3/000 to 4/575)
	Nature of Pavement Suggested	Flexible
	Additional Features or Structures provided	New construction of Box Culvert <u>2x1.5@3/140,</u> <u>2x1.5@4/120</u> Reconstruction of Box Culvert <u>2x2@2/436,</u> <u>2x1.5@2/518</u>
	Total Cost.(in lakhs)	562.72
	Per km Cost of Pavement (in lakhs)	119.98
	Technical committee insisted to prepare a road sign plan and also think to club 2 to 3 signs.	
6 Kottathara Kakkanchal Thekkumthara Road	Length of Road (in kms)	1.72
	Reconstruction or Rehabilitation Suggested	Reconstruction
	Nature of Pavement Suggested	Flexible
	Additional Features or Structures provided	Reconstruction of Box Culvert <u>2x1.5@0/688,</u> <u>2x1.5@0/793,</u> <u>2x1.5@0/980,</u> <u>2x2@1/320</u>
	Total Cost (in lakhs)	190.25
	Per km Cost of Pavement (in lakhs)	110.61

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Technical committee instructed to change the flexible pavement design given in proposed pavement design as the road is fully flooded in rainy season. As per the instruction consultant change the design to rigid pavement with CTSB 150mm, WMM 75mm and PCC M30 150mm. So redesign the cost accordingly.

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Varayal - Melevarayal Road

		Consultant.
	Length of Road (in kms)	1.41
	Reconstruction or Rehabilitation Suggested	Reconstruction(0/780 to 0/840, 1/065 to 1/230) + Rehabilitation(0/000 to 0/780, 0/840 to 1/065, 1/230 to 1/455)
	Nature of Pavement Suggested	Flexible
	Additional Features or Structures provided	Retaining Wall (0/160 to 0/280) Reconstruction of Box Culvert 2x1.5@0/273, 2x1.5@0/360, 2x1.5@0/454, 2x1.5@0/518
	Total Cost (in lakhs)	171.21
	Per km Cost of Pavement (in lakhs)	121.42

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Ediyamvayal Pinangodu Road

	Length of Road (in kms)	2.28
	Reconstruction or Rehabilitation Suggested	Reconstruction(0/690 to 2/279) + Rehabilitation(0/000 to 0/690)
	Nature of Pavement Suggested	Flexible

	Additional Features or Structures provided	CC Drain (0/000 to 0/050) Reconstruction of Box Culvert 2x1.5@0/535, <u>2x1.5@0/760</u> , 2x2@0/825, 2x1.5@0/980
	Total Cost (in lakhs)	238.56
	Per km Cost of Pavement (in lakhs)	104.63
	Length of Road (in kms)	1.17
	Reconstruction or Rehabilitation Suggested	Reconstruction
	Nature of Pavement Suggested	Flexible
	Additional Features or Structures provided	CC Drain(0/000 to 0/150, 0/730 to 1/168) Retaining Wall (0/160 to 0/280) Widening Slab Culvert <u>5x1.5@0/010</u> Reconstruction of Box Culvert 3x2@0/330, <u>2x1.5@0/555</u> , 2x2@0/735, 2x1.5@0/985
	Total Cost (in lakhs)	167.68
	Per km Cost of Pavement (in lakhs)	143.32
9	Varayad - Thekkumpadi Road	
	Technical committee instructed to change the flexible pavement design given in proposed pavement design as the road is fully flooded in rainy season. As per the instruction consultant change the design to rigid pavement with CTSB 150mm, WMM 75mm and PCC M30 150mm. So redesign the cost accordingly.	Consultant
10	MH Nagar - Cholapuram Road	Length of Road (in kms)
		2.544

Reconstruction or Rehabilitation Suggested	Reconstruction(0/450 to 0/560, 0/880 to 0/920, 1/065 to 1/130, 1/260 to 1/680) + Rehabilitation(0/000 to 0/450, 0/560 to 0/880, 0/920 to 1/065, 1/130 to 1/260, 1/680 to 2/550)		
Nature of Pavement Suggested	Flexible		
Additional Features or Structures provided	CC Drain(0/255 to 0/435, 1/425 to 1/665, 2/080 to 2/130) Retaining Wall(0/255 to 0/290, 0/750 to 0/900, 1/250 to 1/400, 1/300 to 1/400, 2/010 to 2/050) New Construction of Box Culvert2x1.5@2/300 Reconstruction of Box Culvert 3x2.5@0/731, 2x2@0/938, 5x3@0/977, 2x1.5@1/894, 3x1.5@2/435		
Total Cost (in lakhs)	378.03		
Per km Cost of Pavement (in lakhs)	148.59		
11	Adoor Gopalakrishnan Road	Length of Road (in kms)	1.86
		Reconstruction or Rehabilitation Suggested	Rehabilitation
		Nature of Pavement Suggested	Flexible

Additional Features or Structures provided	Irish Drain (Total length = 310m) CC Drain (Total length = 340m) Need Maintenance Slab Culvert of span 7m@0/465, 8m@1/730 Reconstruction of Pipe Culvert of span 8.5@1/236
Total Cost (in lakhs)	213.00
Per km Cost of Pavement (in lakhs)	114.52

Technical Committee insisted to check the proposed design given for widening portion that has to be redesigned with the existing road surface.

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Thannithodu Plantation Thekkumthodu Road	Length of Road (in kms)	4.185
	Reconstruction or Rehabilitation Suggested	Reconstruction(1/500 to 1/650, 1/800 to 1/950, 2/550 to 2/700, 3/300 to 3/450) + Rehabilitation(0/000 to 1/500, 1/650 to 1/800, 1/950 to 2/550, 2/700 to 3/300, 3/450 to 4/305)
	Nature of Pavement Suggested	Flexible
	Additional Features or Structures provided	CC Drain(0/750 to 0/840, 0/855 to 0/955, 3/005 to 3/460, 3/780 to 4/005) Retaining Wall(2/535 to 2/560)
	Total Cost (in lakhs)	360.00

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CK Road

Per km Cost of Pavement (in lakhs)	86.02
Length of Road (in kms)	1.98
Reconstruction or Rehabilitation Suggested	Reconstruction(0/240 to 0/480, 0/800 to 1/200, 1/450 to 1/700) + Rehabilitation(0/000 to 0/240, 0/480 to 0/800, 1/200 to 1/450, 1/700 to 1/950)
Nature of Pavement Suggested	Flexible
Additional Features or Structures provided	Reconstruction of Box Culvert <u>2.5x1.5@0/030,</u> <u>2x1.5@1/500,</u> <u>6x3@1/950</u> Drain(0/285 to 0/810, 0/855 to 0/870, 0/870 to 0/880, 1/410 to 1/500, 1/500 to 1/550)
Total Cost (in lakhs)	170.00
Per km Cost of Pavement (in lakhs)	85.86

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Paivazhi Nediyaakala Road

Length of Road (in kms)	2.67
Reconstruction or Rehabilitation Suggested	Rehabilitation
Nature of Pavement Suggested	Flexible

15	Chakrashalakadavu Panadimotil Road	Additional Features or Structures provided	Reconstruction of 1 culvert as slab 1mx3mx3m , Rehabilitating 2 nos of culvert
		Total Cost (in lakhs)	300.00
		Per km Cost of Pavement (in lakhs)	112.36
		Length of Road (in kms)	2.475
		Reconstruction or Rehabilitation Suggested	Reconstruction
		Nature of Pavement Suggested	Rigid
		Additional Features or Structures provided	Reconstruction of 2 culverts to box culverts 1mx4mx3m 1mx1.5mx1.5m
		Total Cost (in lakhs)	225.00
		Per km Cost of Pavement (in lakhs)	90.91
		DECISIONS	
3.1	PMU and Consultant should more focus to take up flood resilient technology / flood resilient materials rather than adopting the conventional technology.		PMU
3.2	During execution plastic sheet has to be used for separation in pavement.		PMU
3.3	Technical Committee granted approval for the Works listed above subject		PMU

	to the conditions mentioned below each set of works	
	NEXT MEETING	
4.1	Next Technical Committee meeting will be informed well in advance	

Dr. Nivind Philip

[Signature]

Dr. Viswanath R

Viswanath R

Jayal
Dr. Jayal

Allan
Dr. Ashok R

[Signature]

Chief Engineer

JOHNSON, K.

PEN 538757

CHIEF ENGINEER

OFFICE OF THE CHIEF ENGINEER

LSGD (LD&EY)

TIRUVANANTHAPURAM

[Signature]

Dr. B.G. Sreedhar