18th TECHNICAL COMMITTEE MEETING

18th Technical Committee meeting and for the scrutiny and appraisal of the project reports prepared by the consultant and PMU.	
Meeting No. 18	**Date** – 11th May 2021,10.30 am
Venue: Online (Google meet)	
AGENDA	
1. Scrutiny and Appraisal of Project Reports prepared by PMU and Consultants	

PRESENT

S. No	Name	Designation and Office Address	Signature
1	Sri Johnson	Chief Engineer, LSGD	
2	Dr. B.G.Sreedevi	Former Director, NATPAC	
4	Dr Neethu Roy	Professor, Mar Baselios College of Engineering and Technology	
5	Dr. Vishnu R	Assistant Professor, NIT, Waranagal	
6	Dr. Nivin Philip	Professor, Saint Gits College of Engineering	
7	Sri Vishnukumar G	Project Director, PMU RKI LSGD	
8	Sri Sajish R	Executive Engineer, PIU RKI LSGD	
9	Sri Shiju Chandran	Assistant Executive Engineer, PMU RKI LSGD	
10	Shainy N	Assistant Executive Engineer, PMU RKI LSGD	
11	Sathyanath B	Assistant Executive Engineer, PMU RKI LSGD	
12	Jiju V	Assistant Engineer, PMU RKI LSGD	
13	Binod S	Assistant Engineer, PMU RKI LSGD	
14	Jithu Raj	Assistant Engineer, PMU RKI LSGD	
15	Binil Gopinath	Assistant Engineer, PMU RKI LSGD	

16	Sharavaneswar	Assistant Executive Engineer, PMU RKI LSGD	
17	Rasheed	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 (47 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		
2.2	Technical committee approved the Revised estimate of Reconstruction of BJP Kadavu road in Ernakulam District.		
Sl No	**Name of Work**	**Features of Road**	
	DPR Presentation by Consultants		
1	(V1-I-16) Thattekaani - Menoloyan Earthern road	Length of Road (in kms)	3.885
		Reconstruction or Rehabilitation Suggested	Rehabilitation
		Nature of Pavement Suggested	Rigid
		Existing Rigid Pavement Rehabilitation & Resurfacing (Chainage @ 0+000 to 0+315, 2+940 to 3+300 and 3+720 to3+825)	100mm PMC M30 grade
		Widening Pavement New construction from Subgrade onwards (Chainage @ 0+315 to 2+940, 3+300 to 3+720and 3+825 to 3+855)	150mm PCC of M30 Grade Concrete Short Panel Concrete (1×1)+ 150mm CTSB +300mm Loosening and Re-compacting Subgrade
		Additional Features or Structures provided	existing slab culvert @1092,1200,2795,2977, 3+900, proposed slab culvert

			@1092,1200,2795,2977 proposed box culvert @1+008,1+920,2+016,2+038,2+161,2+345,3+045,3+900
		Total Cost (in lakhs)	590.8
		Per km Cost of Pavement (in lakhs)	149.9
	Alignment of road is not finalized so DPR will consider for next technical committee		
2	(V1-I-18) Aashramam Pottanpady Road Retaining wall	Length of Road (in kms)	1.484
		Reconstruction or Rehabilitation Suggested	Reconstruction
		Nature of Pavement Suggested	Rigid
			100 mm shortpanel Concrete+150mm CTSB+ 300mm stabilized subgrade
		Additional Features or Structures provided	existing slab culvert @0+242,0+495,0+664, proposed box culvert @0+242,0+495,0+940,1+095
		Total Cost (in lakhs)	194
		Per km Cost of Pavement (in lakhs)	131.0
3	(V1-I-19) Ellapally - Chellikal road	Length of Road (in kms)	4.871
		Reconstruction or Rehabilitation Suggested	Rehabilitation
		Nature of Pavement Suggested	Rigid
		Existing rigid pavement Rehabilitation & Resurfacing for Rigid Pavement (Km 0+240 to Km 0+675)	100 mm PCC of M30 Grade Concrete
		Widening Pavement New construction from Subgrade onwards (Km 0+000 to Km 0+240, Km 0+675 to Km 1+000, Km 1+980 to Km 3+500 and Km 4+150 to Km	100 mm PCC of M30 Grade of Short panel (1×1) Concrete+150 mm CTSB +300 mm Cement Stabilized Subgrade

		4+980):	
		Additional Features or Structures provided	proposed box culvert @ 0+420,1+360,3+000,3+067,4+403
		Total Cost (in lakhs)	541
		Per km Cost of Pavement (in lakhs)	111
4	(V1-I-20) Ellapally - thottam bhagom road retaining wall	Length of Road (in kms)	1.567
		Reconstruction or Rehabilitation Suggested	Reconstruction
		Nature of Pavement Suggested	Flexible & Rigid
		flexible existing pavement Partial reconstruction from Sub-base (Km 0+000 to Km 0+195, Km 0+390 to Km 0+630 andKm 1+200 to Km 1+575)	20mm mix seal surface+ 125mm WMM+150mm GSB
		Existing Rigid Pavement Rehabilitation & Resurfacing (Km 0+195 to Km 0+390 and Km 1+020 to Km 1+200)	100 mm PCC of M30 Grade Concrete
		Additional Features or Structures provided	proposed box culvert @0+695,1+122,1+216
		Total Cost (in lakhs)	213
		Per km Cost of Pavement (in lakhs)	135.6
	Technical committee suggested to propose short panel concrete for the whole length of road rather than adopting flexible and rigid. PMU has to recheck the road and propose the design.		
5	(V1-I-21) Puthed anoor thodu	Length of Road (in kms)	4.175
		Reconstruction or Rehabilitation Suggested	Reconstruction
		Nature of Pavement Suggested	Flexible& Rigid
		flexible existing pavement Partial reconstruction from Sub-base (Km 3+210 to Km 4+260):	20mm mix seal surface+ 75mm WMM+100mm GSB laid on stabilized subgrade

		Existing Rigid Pavement Rehabilitation & Resurfacing (Km 0+000 to Km 0+615 and Km 0+675 to Km 0+870)	100 mm PCC of M30 Grade Concrete
		Additional Features or Structures provided	existing slab culvert retained 1+703,2+908,2+985,4+043
			proposed culvert 0+335,0+635,0+834,1+003,1+045,2+638,2+837,2+938
		Total Cost (in lakhs)	438
		Per km Cost of Pavement (in lakhs)	104.8
	Technical committee suggested submersible bridge @ 2+908 instead of slab culvert.		
6	(V1-I-22) Idinjamal-Companypadi.	Length of Road (in kms)	7.485
		Reconstruction or Rehabilitation Suggested	Reconstruction
		Nature of Pavement Suggested	Flexible
		flexible pavement New construction from Subgrade onwards (Km 0+000 to Km 4+670) and (Km 4+670 to Km 7+515)	40mm bituminous concrete+ 75mm WMM+150mm GSB+300mm subgrade
		Additional Features or Structures provided	proposed slab culvert @0+669,1+263,2+680,2+935, 0+617,0+800,1+571,2+031 proposed pipe culvert @0+095,0+715,1+040,1+374, 1+786,2+340,3+622,proposed box culvert @2+040,4+370
			existing slab culvert retained @0+668, 1+263, 2+850,2+935, 5+265, 5+452, 5+580,6+225,6+690 existing pipe culvert retained

			@0+715,1+040,1+374,1+786, 2+340, 2+680, 3+622
		Total Cost (in lakhs)	792
		Per km Cost of Pavement (in lakhs)	104.9
7	**(V1-I-23) Nalumukku-Tunnel site near Erattayar.**	Length of Road (in kms)	2.648
		Reconstruction or Rehabilitation Suggested	Reconstruction
		Nature of Pavement Suggested	flexible
		Existing flexible pavement New construction (Km 0+000 to Km 2+625)	40mm bituminous concrete+ 75mm WMM+100mm GSB laid on 300mm subgrade
		Additional Features or Structures provided	Existing slab culvert retained @0+060, 0+225, 0+338, 0+644,1+264, 1+350, 1+747, 2+485, proposed box culverts @0+338,1+264,1+350, 1+747
		Total Cost (in lakhs)	283
		Per km Cost of Pavement (in lakhs)	106.8
8	**(V1-I-24) Balagram-Anniyar Thozhu road**	Length of Road (in kms)	6.24
		Reconstruction or Rehabilitation Suggested	
		Nature of Pavement Suggested	Flexible
		Partial reconstruction from 1+200km to 3+000	40mm BC+100mm WMM+
		Widening Pavement New construction from Subgrade onwards(Km 0+000k to 1+200km and 3+00km to 6+240km	40mm Bituminous Concrete+75mm WMM+100mm GSB laid on 300mm subgrade
		Additional Features or Structures provided	Existing slab culvert retained @6+035,2+193,2+002,1+727, 1+253,1+006,0+911,0+742 proposed slab culvert@2+193,1+727,1+253,

			0+911,0+742 proposed box culvert@6+035,2+002,1+006
		Total Cost (in lakhs)	811
		Per km Cost of Pavement (in lakhs)	130
9	**(V1-I-26) Pazhaya-Kochira road**	Length of Road (in kms)	0.876
		Reconstruction or Rehabilitation Suggested	Reconstruction
		Nature of Pavement Suggested	Rigid
		Rigid pavement New construction from Subgrade onwards (Km 0+000 to Km 0+750)	150 mm PCC of M30 Grade Concrete+ +150 mm CTSB+300 mm lime Stabilized Subgrade.
		Additional Features or Structures provided	Reconstruction of slab culvert as box culvert @ 147m
		Total Cost (in lakhs)	178
		Per km Cost of Pavement (in lakhs)	227.0
	Technical committee suggested to use cement stabilization instead of lime stabilization. Changes has to be reflected in estimate		
10	**(V1-I-29) Vimalagiri-Enikkuthu road**	Length of Road (in kms)	1.612
		Reconstruction or Rehabilitation Suggested	Reconstruction
		Nature of Pavement Suggested	Rigid
		New construction from Subgrade onwards (Km 0+000 to Km 1+630)	150 mm PCC of M30 Grade Concrete+150 mm CTSB+300 mm Stabilized Subgrade.
		Additional Features or Structures provided	Existing slab culvert retained @0+113,0+375,0+830,1+154, 1+323, proposed box culvert@0+690
		Total Cost (in lakhs)	322
		Per km Cost of Pavement (in lakhs)	186.3
	Technical committee suggested 100mm thick short panel concrete instead of 150mm thick		

	PCC and redesign the road according to this.		
11	**(V1-P-25) Erathode Ashankudi Road**	Length of Road (in kms)	1.236
		Reconstruction or Rehabilitation Suggested	Reconstruction
		Nature of Pavement Suggested	Rigid
		Reconstruction from Subgrade onwards (Km 0+000 to Km 1+236)	100 mm PCC of M30 Grade of Short panel Concrete+150 mm CTSB +300 mm Cement Stabilized Subgrade
		Additional Features or Structures provided	Existing slab @0+420,1+155 retained. Protection works provided whereever required
		Total Cost (in lakhs)	180
		Per km Cost of Pavement (in lakhs)	146
12	**(V1-P-21) Poovanmala – Panamplackal Road**	Length of Road (in kms)	1.214
		Reconstruction or Rehabilitation Suggested	
		Nature of Pavement Suggested	
		Reconstruction from Subgrade onwards (Km 0+000 to Km 1+214)	40mm Bituminous Concrete+75mm WMM+100mm GSB laid on cement stabilized 300mm subgrade
		Additional Features or Structures provided	Reconstruction of Existing slab culvert as box culvert @1+047,1+157
		Total Cost (in lakhs)	91
		Per km Cost of Pavement (in lakhs)	74.9
	The cross-section details given in DPR is varied from the presentation slide. Correction to be done in DPR before submitting for technical approval.		
13	**(V1-P-20) Parakkavu – Valakuzhi Road**	Length of Road (in kms)	1.73
		Reconstruction or Rehabilitation Suggested	Reconstruction
		Nature of Pavement Suggested	Flexible
		Reconstruction from	40mm Bituminous

		Subgrade onwards (Km 0+000 to Km 1+730	Concrete+100mm WMM+150mm CTSB laid on cement stabilized 300mm subgrade
		Additional Features or Structures provided	Existing slab type @0+075,1+390 retained, Reconstn of Existing slab culvert@1+616
		Total Cost (in lakhs)	189
		Per km Cost of Pavement (in lakhs)	109.2
	The cross-section details given in DPR is varied from the presentation slide. Correction to be done in DPR before submitting for technical approval		
14	**(V1-P-17) Kiliyanikal – Thoolikulam Road (V1-P-16 ChannaKurumbanmozhi Road**	Length of Road (in kms)	1.38
		Reconstruction or Rehabilitation Suggested	Reconstruction
		Nature of Pavement Suggested	Flexible
		Reconstruction from Subgrade onwards	40mm Bituminous Concrete+100mm WMM+150mm GSB laid on 300mm subgrade
		Overlay with widening	40mm BC+100mm WMM
		Additional Features or Structures provided	Existing slab culvert @0+007, ,0+364,0+425,0+570,0+660- inlet needs to be clean Reconstn of slab culvert - 0+266,0+820,0+855 Existing pipe culvert @1+085 inlet to be clean
		Total Cost (in lakhs)	138
		Per km Cost of Pavement (in lakhs)	100
15		Length of Road (in kms)	Stretch 1- 1.316 Stretch 2 – 1.083
		Reconstruction or Rehabilitation Suggested	Reconstruction
		Nature of Pavement Suggested	Rigid

		Reconstruction for Stretch 1	150mm PQC+150mm CTSB+300mm cement stabilized subgrade.
		Stretch 2	150mm PQC+150mm CTSB+300mm cement stabilized subgrade.
		Additional Features or Structures provided	Nil
		Total Cost (in lakhs)	189
		Per km Cost of Pavement (in lakhs)	78
	Technical committee suggested to recheck the estimate amount whether the amount arrived is enough for 2.4km length road. Also, to check the connectivity of drain in stretch 1 road. The proposed road falls in mixed jungle area so NOC from forest department has to be obtained.		
16	**(V1-P-15) Ration Kadapadi – Mulanthanam Road**	Length of Road (in kms)	1.678
		Reconstruction or Rehabilitation Suggested	Reconstruction & Overlay
		Nature of Pavement Suggested	Rigid
		Reconstruction (0+00km to 1+678km)	100mm paneled concrete+150mm CTSB+300 subgrade
		Additional Features or Structures provided	Existing slab culvert @0+343-retained, Proposed box culvert 0+195,0+845, DR masonry
		Total Cost (in lakhs)	102
		Per km Cost of Pavement (in lakhs)	60.8
17	**(V1-P-12) Melepadi – Chellakadu Road**	Length of Road (in kms)	1.558
		Reconstruction or Rehabilitation Suggested	Reconstruction
		Nature of Pavement Suggested	Rigid
		Reconstruction from subgrade (0+00km to 1+558km)	150mm PQC M30 concrete+150mm CTSB+300 CT subgrade
		Additional Features or Structures provided	Reconstruction of slab culvert @0+342

		Total Cost (in lakhs)	206
		Per km Cost of Pavement (in lakhs)	132.2
18	**(V1-P-11) Bangalamkadavu stadium valiyakulam road**	Length of Road (in kms)	2.892
		Reconstruction or Rehabilitation Suggested	Reconstruction & Overlay
		Nature of Pavement Suggested	Rigid
		Reconstruction from subgrade (0+630km to 2+411km)	150mm PQC M30 concrete+150mm CTSB+300 subgrade
		Overlay from (0+00km to 0+630km)	100mm paneled concrete
		Additional Features or Structures provided	Nil
		Total Cost (in lakhs)	261
		Per km Cost of Pavement (in lakhs)	108
19	**(V1-P-10) Banglamkadavu – Valiyakulam Road**	Length of Road (in kms)	2.014
		Reconstruction or Rehabilitation Suggested	& Overlay
		Nature of Pavement Suggested	Rigid
		Reconstruction from subgrade 465 to 510,660 to 960,1305 to 1470,1620 to 2014	150mm PQC M30 concrete+150mm CTSB+300 subgrade
		Overlay from 0 to 465,510 to 660,960 to 1305, 1470 to 1620	150mm PQC M30
		Additional Features or Structures provided	Reconstruction of Existing slab culvert Reconstruction @0+459,1+327,1+845
		Total Cost (in lakhs)	198
		Per km Cost of Pavement (in lakhs)	98.3
20	**(V1-P-09) Madukkamoodu – Ayyappa Medical College Road**	Length of Road (in kms)	0.996
		Reconstruction or Rehabilitation Suggested	Reconstruction
		Nature of Pavement Suggested	Rigid

		Reconstruction from subgrade (0+00km to 0+996Km)	150mm PQC M30 concrete+150mm CTSB+300 CT subgrade
		Additional Features or Structures provided	Reconstruction of Existing slab culvert @0+330, @ 0+815 Proposed box culvert @ 0+465
		Total Cost (in lakhs)	145
		Per km Cost of Pavement (in lakhs)	145.5
	Technical committee insisted to justify the proposed design of intersection of junctions and details has to be presented before next technical committee.		
21	**(V1-P-08) Anthyalankavu marthomapallipaddy karamvelipadi**	Length of Road (in kms)	0.978
		Reconstruction or Rehabilitation Suggested	Reconstruction
		Nature of Pavement Suggested	Rigid
		Reconstruction from subgrade (0+00km to 0+978Km)	150mm PQC M30 concrete+150mm CTSB+300 CT subgrade
		Additional Features or Structures provided	Existing slab culvert @0+532,0+628,0+7387,1+018 - retained, DR maonry
		Total Cost (in lakhs)	149
		Per km Cost of Pavement (in lakhs)	152
22	**(V1-P-06) Vattathenpady - Nallathupady Road**	Length of Road (in kms)	1.054
		Reconstruction or Rehabilitation Suggested	Reconstruction
		Nature of Pavement Suggested	flexible
		Reconstruction from subgrade (0+00km to 1+054km)	40mm Bituminous Concrete+75mm WMM+150mm GSB laid on 300mm mechanically stabilised subgrade
		Additional Features or Structures provided	Maintenance of Existing slab culvert @0+090,0+515,0+887

		Total Cost (in lakhs)	87
		Per km Cost of Pavement (in lakhs)	82
23	**(V1-P-04)Kalarikode Pallana puthenvelipadi Road**	Length of Road (in kms)	1.222
		Reconstruction or Rehabilitation Suggested	Reconstruction
		Nature of Pavement Suggested	Flexible
		Reconstruction from subgrade (0+00km to 1+222km)	40mm Bituminous Concrete+100mm WMM+150mm CTSB + 300mm existing cement stabilized subgrade
		Additional Features or Structures provided	Existing slab culvert @0+062,0+482,1+044-reconstn Existing pipe culvert @0+888 Existing Girider, New culvert @0+180,0+990
		Total Cost (in lakhs)	178
		Per km Cost of Pavement (in lakhs)	145
	Technical committee insisted to justify the proposed design of intersection of junctions and details has to be presented before next technical committee.		
24	**V1-P-01 Arummoode-Chala Puthen chantha 14 mile in Pathanamthitta**	Length of Road (in kms)	1.292
		Reconstruction or Rehabilitation Suggested	Reconstruction
		Nature of Pavement Suggested	Flexible
		New construction from Subgrade onwards (Km 0+000 to Km 1+292)	40mm Bituminous Concrete+100mm WMM+150mm CTSB laid on cement stabilized 300mm subgrade
		Additional Features or Structures provided	(Existing slab culvert @0+050,0+120 Existing pipe culvert @0+660,1+240) retained proposed box culvert@0+050,0+660
		Total Cost (in lakhs)	180

		Per km Cost of Pavement (in lakhs)	139.3
	DECISIONS		
4.1	PMU and consultants have to increase a greater number of test pit so that clear sublayer details will be obtained to design the pavement. No. of test pit /km has to increased to two numbers.		**PD, PMU**
4.2	Consultants has to check the slides before presentation. Cross section details and pavement proposal written in executive summary of DPR is different from the presentation. Executive summary has to corrected before technical approval.		**PD, PMU**
	NEXT MEETING		
	Next Technical Committee meeting will be on 13-05-2021		

1. Dr. Nivin Philip
2. Dr. Vishnu R
3. Dr. B. G. Sreedevi
4. Dr. Neethu Roy

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