21st TECHNICAL COMMITTEE MEETING

21st Technical Committee meeting for granting Technical Sanction to the projects for which Administrative Sanction has been granted and for the scrutiny and appraisal of the project reports prepared by the PMU.

Meeting No. 21	**Date** – 19th May 2021,10.30am

Venue: Online (Google meet)

AGENDA

1. Granting Technical Sanction to the 19 projects for which Administrative Sanction has been granted
2. Scrutiny and Appraisal of Project Reports (9Nos) prepared by PMU

PRESENT

S. No	Name	Designation and Office Address	Signature
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	
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	Jithu Raj	Assistant Engineer, PMU RKI LSGD	

16	Binil Gopinath	Assistant Engineer, PMU RKI LSGD	
17	Sharavaneswar	Assistant Executive Engineer, PMU RKI LSGD	
18	Rasheed	Assistant Engineer, PMU RKI LSGD	

Sl.No.	Description	Action
1.1	The Chief Engineer, LSGD informed that the proposed meeting is scheduled for according the Technical Sanction of 19 DPRs submitted by PD,PMU for which Administrative Sanction has been accorded by the Government based on the designs approved by the Technical Committee and also for Scrutiny and approval of project reports (9nos) prepared by PMU	-
1.2	PD, PMU informed that the Designs are approved by the Technical Committee, and relevant corrections suggested by the Technical Committee are incorporated in the DPRs.	
	PROGRESS	
2.1	The Chief Engineer, LSGD informed that, PMU has submitted 19 DPRs for according Technical Sanction for which Technical Committee has had already approved the designs.	
	DISCUSSIONS	
3.1	The Chief Engineer informed that the Rates of the items in each DPR based on the design approved by the Technical Committee has been scrutinized in the Office of Chief Engineer, LSGD.	
3.2	PD, PMU, Consultant and the Engineers of PMU RKI LSGD explained the Nature of work, components of work (for the approval of 9nos) included in the estimate. The details of the work proposed is listed in the table below.	

Sl No	Name of Work	Features of Road	
	DPR Presentation by Consultants		
1	Factorypadi-Karintharuvi Road Idukki	Length of Road (in kms)	2.814
		Reconstruction or Rehabilitation Suggested	Reconstruction
		Nature of Pavement Suggested	Rigid

		New Pavement(Ch0/000 – Ch2/387)	Cement stabilised subgrade 300 mm+CTSB 150 mm+PQC M30 150 mm
		Overlay(Ch2/388 – Ch2/814)	PQC M30 150 mm
		Additional Features or Structures provided	proposed box culvert@0/040,0/215,0/798,1/630,1/182,2/550
		Total Cost (in lakhs)	295
		Per km Cost of Pavement (in lakhs)	105.54
	Technical committee opined to scarifying the existing bituminous layer before laying white topping so that bonding issues and slope stability can be avoided.		
2	Sooryakanthikavala- Old Post Office	Length of Road (in kms)	1.291
		Reconstruction or Rehabilitation Suggested	Reconstruction
		Nature of Pavement Suggested	rigid
		New construction (0/000 to 0/600 and0/865 to 1/125)	PQC M 30 150mm+CTSB 150mm+Subgrade Cement stabilised300mm on existing soil
		Overlay(0/600 to 0/865 and1/125 to 1/291)	PQC M 30 150mm
		Additional Features or Structures provided	proposed box culvert@0/530,0/700
		Total Cost (in lakhs)	142
		Per km Cost of Pavement (in lakhs)	109.99
	Technical committee suggested to use 100mm thick short paneled concrete over the existing rigid pavement stretch. Instead of providing earthen shoulder stabilized shoulder can be provided.		
3	kalpetta town -Jilla Stadium road	Length of Road (in kms)	3.6
		Reconstruction or Rehabilitation Suggested	Rehabilitation
		Nature of Pavement Suggested	Flexible
		Overlay/Rehabilitation(ch 0/00 to 1/643)	BC 60 mm
		Overlay/Rehabilitation(ch 1/643 to 2/400)	BC 60 mm

		Widening/Reconstruction(ch 1/643 to 2/400)	Compacted soil300mm+GSB 100 mm+WMM 100mm+BC 60mm
		New construction	Mechanically stabilized Sub Grade+100mm GSB+100mm WMM+60mm BC
		Additional Features or Structures provided	proposed box culvert@0/500,1/515,2/255
		Total Cost (in lakhs)	272
		Per km Cost of Pavement (in lakhs)	75.56
	Technical Committee opined that grading of BC-1 can be used instead of BC-2.		
4	Kannankara Edamuri road Pathanamthitta	Length of Road (in kms)	0.825
		Reconstruction or Rehabilitation Suggested	Reconstruction
		Nature of Pavement Suggested	flexible
		0+00 to 0+825flexible pavement	40mm BC+100mm WMM+150mm CTSB+ 300mm cement stabilised subgrade
		Additional Features or Structures provided	Irish drain on both sides of road, DR on 0+411 to 0+465
		Total Cost (in lakhs)	113
		Per km Cost of Pavement (in lakhs)	126
	Technical committee suggested that Centre line marking can avoided be for 5.50m width road and only shoulder lanes marking can be given..		
5	Mayaluman Vazhayilpadi road Pathanamthitta	Length of Road (in kms)	0.930
		Reconstruction or Rehabilitation Suggested	Reconstruction
		Nature of Pavement Suggested	
		0+00 to 0+930flexible pavement	40mm BC+120mm WMM+130mm GSB existing + existing subgrade
		Widening portion 0+00 to 0+930	40mm BC+120mm

			WMM+130mm GSB + existing subgrade
		Additional Features or Structures provided	Ch @ 0+007 reconstn of slab culvert as box culvert
		Total Cost (in lakhs)	85
		Per km Cost of Pavement (in lakhs)	91
6	Janaseva road Pathanamthitta	Length of Road (in kms)	1.534km
		Reconstruction or Rehabilitation Suggested	Reconstruction
		Nature of Pavement Suggested	Rigid
		0+00 to 1+025 rigid pavement	150mm PQC M30+ GSB(Existing WBM)
		1+025 to 1+535 Rigid pavement	150mm PCC M30 + 150mm CTSB
		Additional Features or Structures provided	@ 0+000,1+025,1+260,1+401 Existing slab culvert reconstn reqd. @0+352,0+570,0+855,1+190 pipe culvert reconstn reqd
		Total Cost (in lakhs)	309
		Per km Cost of Pavement (in lakhs)	201.43
7	Ushuspadi-Vellpara muruppuparayil kizhakkekara pally road Pathanamthitta	Length of Road (in kms)	1.600
		Reconstruction or Rehabilitation Suggested	Reconstruction
		Nature of Pavement Suggested	Flexible
		0+00 to 1+600 flexible pavement	40mm BC+150mm WMM+100mm GSB existing + existing subgrade
		Additional Features or Structures provided	Reconstn of existing slab culvert @ ch 0+295,1+320,1+395,1+450,1+465,Irish drain on both sides,

			DR masonry
		Total Cost (in lakhs)	185
		Per km Cost of Pavement (in lakhs)	115.6
8	**Anthikayam Kadumeenchira road**	Length of Road (in kms)	1.830
		Reconstruction or Rehabilitation Suggested	Reconstruction
		Nature of Pavement Suggested	Rigid
		0+00 to 1+830flexible pavement	~~40mm BC+180mm WMM+80mm GSB existing + existing subgrade~~ Suggested **150mm CTSB+100mm short paneled concrete**
		Additional Features or Structures provided	Reconstruction of slab and Pipe culvert, irish drain, DR masonry
		Total Cost (in lakhs)	190
		Per km Cost of Pavement (in lakhs)	103.82
	Technical committee suggested to make a comparison of proposed configuration with 150mm CTSB+150mm PQC and 150mm CTSB+100mm short panelled concrete. PMU made the comparison and presented before the committee it seems that alternative proposal of 150mm CTSB + 100mm short paneled concrete more feasible than the proposed. The proposed configuration changed to **150mm CTSB+100mm short paneled concrete.**		
9	**Valiyaparambilpadi Ettichuvadu road Pathanamthitta**	Length of Road (in kms)	1.332
		Reconstruction or Rehabilitation Suggested	Reconstruction
		Nature of Pavement Suggested	flexible
		0+00 to 1+332 flexible pavement	~~40mm BC+100mm WMM+150mm GSB~~ **150mm CTSB+100mm short paneled concrete.**
		Additional Features or Structures provided	Reconstruction of existing slab culvert, Irish drain, DR masonry
		Total Cost (in lakhs)	158

		Per km Cost of Pavement (in lakhs)	118.61
	Technical committee suggested to make a comparison of proposed configuration with 150mm CTSB+150mm PQC ,150mm CTSB+100mm short panelled concrete and 100mm GSB+75mm WMM+150mm PQC. PMU made the comparison and presented before the committee it seems that alternative proposal of 150mm CTSB + 100mm short paneled concrete is more feasible than the proposed. The proposed configuration changed to **150mm CTSB+100mm short paneled concrete**.		
	DECISIONS		
4.1	Technical committee suggested that Centre line marking can avoided be for 5.50m width road and only shoulder lanes marking can be given..		**PD, PMU**
4.2	Technical Committee granted approval for the Works listed above subject to the conditions mentioned below each set of works		**PD, PMU**
4.3	Technical Committee accorded Technical Sanction for the the 19 DPRs (Annexure 1) submitted by PD, PMU subject to the conditions attached along with these minutes		**PD, PMU**
	NEXT MEETING		
	Next Technical Committee meeting will be on 20-5-2021		

Chief Engineer

JOHNSON. K
PEN 538757
CHIEF ENGINEER
OFFICE OF THE CHIEF ENGINEER
LSGD (LID&EW)
THIRUVANANTHAPURAM.

S. No	Name of Work	Length of Road (in kms)	Reconstruction or Rehabilitation Suggested	Nature of Pavement Suggested	Additional Features or Structures provided	Total Cost (in lakhs)	Per km Cost of Pavement (in lakhs)
1	2019-20 Rehabilitation and reconstruction of Exservicemen colony centre road in Athirapally GP in Thrissur District	2.10	Reconstruction/ Rehabilitation	BC	New / Reconstruction of culverts, DR	260	123.80
2	Reconstruction of PWD Arackal road and side wall in Chambakulam GP in Alappuzha District	0.490	Reconstruction/ Rehabilitation	PQC M40	New culverts, R/Wall	122	248.97
3	Reconstruction of Govt HS Kochalivettam road in kumarakom GP in Kottayam District	0.450	Reconstruction/ Rehabilitation	PQC M30	Side drain	28	62
4	2020-21 Nadakkavu Ethyerikavu road in Vazhakulam GP, Kunnathunadu LAC in EKM district	0.673	Reconstruction	BC	Nil	41	61
5	2020-21 Renovation of Panchayathpadi Pulluchani radhapadi road in Pathanamthitta district	Stretch 1-1.15 Stretch 2-1.908	Reconstruction/ Rehabilitation	DBM & BC, PQC M30	New / Reconstruction of culverts, Irish Drain	404	132.11
6	2020-21 Improvement of Edathod Palli basilica Road in Angamaly muncipality in EKM	1.039	Reconstruction	BC	R/wall, Irish Drain	52	50

	district						
7	2019-20 Rehabilitation of Thazhathangadi - Thanitheruvu road in Pulpally GP in Wayanad District	1.33	Reconstruction/ Rehabilitation	BC	Reconstruction of Box Culvert, Irish drain	120	90.22
8	2020-21 Upgradation of Madathekkathil Chalukara road in Alappuzha	0.375	Reconstruction/ Rehabilitation	Short panelled concrete PQC M30	DR r/wall, Irish drain	27	72
9	2020-21 Improvement of Thazhe arapetta Maankunnu road in Moopainad GP in Kalpetta LAC in wayanad district	3.821	Reconstruction/ Rehabilitation	BC	Box Culvert, Reconstruction of Slab Culvert, DR r/wall, Side drain	420	109.91
10	2020-21 Renovation of Policestationpadi TVM Hospital Elangavattom road in Konni GP in Pathanamthitta District	3.02	Reconstruction/ Rehabilitation	BC, PQC M30	Reconstruction of culvert, Irish Drain	257	85.09
11	Renovation of Kootomonpara Melekottomonpara Pandyanpara road in Seetharhode GP in Pathanamthitta	1.80	Rehabilitation	BC, PQC M30, Short panelled concrete	Reconstn of box culvert, Irish drain, DR	248	137.78
12	2020-21 Reconstruction od Marankulangara Village Office - Preethikulangara school road in Mararikulam South GP, Alappuzha	2.265	Rehabilitation	BC	Reconstn of box culvert, Irish drain, DR	183	80.79
13	2019-20 upgradation of Narakathera Upperil road in	1.83	Rehabilitation	BC	Reconstuction of box culverts,	195	106.55

	Alappuzha				Irish drain, DR R/Wall, side Drain& cross drain		
14	2020-21 Rehabilitation of Mithrapuzha Vayanasalapadi Vendoorpadi in Chenganoor Muncipality	2.78	Rehabilitation	BC	New / Reconstruction of culverts, DR, Drain	332	119.42
15	2020-21 Reconstruction of Panachamoodu Kochuveetilmukku road in Alappuzha	2.658	Reconstruction	MSS	New construction of culvert, Side Drain& cross drain	324	121.89
16	2020-21 Upgradation of Marrket jetty Vathikkad jetty road in Alappuzha	1.205	Rehabilitation	MSS	New / Reconstruction of culverts	114	94.60
17	2020-21 Reconstruction of Palangatttupadi Mannarathara road in Alappuzha	1.516	Reconstruction	BC	Reconstruction of culverts, side Drain, DR R/wall	249	164.24
18	2019-20 Upgradation of Kattabam nambukulangra road in Bharanikavu GP, Kayamkulam LAC in Alappuzha	3.43	Rehabilitation	DBM & BC	Reconstruction of culverts, side Drain	317	92.41
19	Upgradation of Highschool Jn Nannad Eradichira in Alappuzha	2.40	Rehabilitation	BC	Reconstruction of minor bridge, culverts, side Drain, R/wall	537	223.75

ANNEXURE 2

The Technical Sanction for the estimate is hereby accorded as per the decision (Minutes of Meeting) of the 15th Technical Committee subject to the put forth by the Technical Committee in the previous meetings and as per the conditions listed below:

a. All the instructions put forth by the Technical Committee should be adhered to
b. All required statutory approval should be obtained from competent authority. NOC from concerned authorities in connection with utility shifting may be obtained.
c. Consent from the land owners shall be obtained where the widening of the road, construction of retaining wall, if any, is proposed through private property.
d. Necessary quality check and lab tests should be ensured and conducted as per MoRD / MORTH Specifications and relevant IS / IRC codes .Supervising officers should ensure that the work is carried out as per MoRD / MORTH Specifications and relevant IS / IRC codes (including density of all the layers after compaction, their thickness, Gradation, bitumen content, spreading and compaction temperatures, and density after compaction and other relevant tests)
e. Initial and final Levels for earthwork, GSB, WMM, BM and BC etc should be reported to CTE. All the Circulars / instructions issued by the CTE should be adhered to and followed
f. Excavated earth should be accounted for before disposal.
g. Materials obtained from demolition of existing structures should be accounted.
h. The gradient provided for the road shall be as per IRC Specification or the relevant codes
i. Adequate number of Weep Holes should be provided in the Retaining Wall. It shall also be ensured that the base width of the retaining wall is provided as per provisions prevailing in the relevant IS codes
j. In the case of Culverts and Minor Bridges, the Safe bearing Capacity of the soil should be ensured prior construction of these.
k. Safety measures wherever required should be done at site.
l. If any changes have to be made in the sanctioned estimate during execution, the same shall be intimated to this office and If any extra item of work is proposed for execution during while the work is in progress, prior approval should be obtained from Technical sanctioning Authority/Technical Committee or otherwise cannot be approved.
m. Different principal stages such as tendering, awarding of work (road work and foundation work etc), completion etc. should be reported to this office / PMU before effecting the final payment.
n. Every Completed work should be test checked by the Project Director/Executive Engineer before effecting payment.
o. Pre-Qualification method of tendering should be followed as per existing norms.