25th TECHNICAL COMMITTEE MEETING FOR EVALUATION OF PMURKILSGD PROJECTS

Meeting No: 25		Date: 12.10.2021, 11.00am to 5.00pm
		Venue: Online (google meet)
		AGENDA
1	Scrutiny of 25 nos of new	DPRs prepared by PMU
. 11	Scrutiny of 7 nos of revise	d DPRs prepared by Consultants
111	Scrutiny of 4 nos revised e	estimates submitted by PMU
		PRESENT
SI No	Name	Designation and Office address
1	Johnson K	Chief Engineer, LSGD
2	Dr. B.G. Sreedevi	Former Director, NATPAC
3	Dr. Jaya V	Professor, College of Engineering, Trivandrum
4	Dr. Ashalatha R	Professor, College of Engineering, Trivandrum
5	Dr. Vishnu R	Assistant Professor, NIT, Warangal
6	Dr. Nivin Philip	Professor, Saint Gits College of Engineering
		Professor, Mar Baselios College of Engineering and
7	Dr. Neethu Roy	Technology
8	Sri. Vishnukumar G	Project Director, PMU
9	Prasad P	Executive Engineer, PIU, Kottayam
9	Sri. Shainy N	Assistant Executive Engineer
10	Sathyanath B	Assistant Executive Engineer
11	Shiju Chandran R	Assistant Executive Engineer
12	Saravaneshvar	Assistant Executive Engineer
13	Benzilal S D	Assistant Executive Engineer
14	Binod J	Assistant Engineer
15	Remjish R S	Assistant Engineer
16	Haseena A	Assistant Engineer
17	Jithu Raj R	Assistant Engineer
18	Krishnakumar P	Assistant Engineer
19	Riphin K John ngineer, LID&EW started the r	Assistant Engineer

The Project Director, Project management Unit described about the projects being presented before the Technical Committee. The projects consists of 25 nos of DPRs newly prepared by PMU, 7 nos of revised DPRs prepared by Consultants and 4 numbers of revised estmates. The engineers from PMU started the presentation od DPRs prepared by PMU. The details of the projects and discussions are listed below.

13.3	New DPRs prepared by PMU (1-	
	KE Carmel Pulikal road in Kanjikk	uzhy Gp (22nd TC suggested to replace 40mm BC surfacing
1	with white topping)	
	Length of Road	892 m
	Reconstruction/Rehabilitation	
	suggested	Rehabilitation
	Nature of Pavement Suggested	Rigid Pavement
	Pavement Configuration	WMM levelling coarse 75mm+150mm PQC M30
	Details of RWs	27 m

	Details of Culverts	Nil
	Details of Drains	Nil
	Total Cost	
	Per km cost	99 lakhs
		110 lakhs/km
	Comments from Technical	Requirement of a provision of 7.5cm WMM as levelling
	Committee	coarse has to be justified. Soil classification is to be
		corrected. Swell potential of the subgrade to be evaluated
		in future projects. The proposal shall be named as a
		conventional rigid pavement and not white topping. DPR
		approved.
	Padaharam Church Road (Presen	ted for the second time incorporating changes suggested by
		th, construction strategy etc) Project Director, PMU visited
2	the site and DPR resubmitted wit	
	Length of Road	760 m
	Reconstruction/Rehabilitation	766 111
	suggested	Reconstruction/New
	Nature of Pavement Suggested	Rigid Pavement (short panel concrete)
	Tracal e of Favernent Suggested	300mm cement stabilised subgrade+CTSB (CA)
	Pavement Configuration	150mm+PQC M30 100mm
	Details of RWs	660 m ·
	Details of Culverts	Pipe culvert Ch 0+540, Ch 0+630
	Details of Drains	Nil
	Total Cost	182 lakhs
	Per km cost	239 lakhs/km
		TC has directed the the Project Director to use rotavator
	Comments from Technical	while doing cement stabilisation to ensure proper mixing
	Committee	of cement and insitu soil. DPR approved.
3	SN Jn Chengadakkari Chengada ro	oad in Chennam Pallippuram GP
	Length of Road	730 m
	Reconstruction/Rehabilitation	
	suggested	Reconstruction
	Nature of Pavement Suggested	Rigid Pavement (short panel concrete)
		300 mm mechanically stabilised subgrade+CTSB (CA)
	Pavement Configuration	150mm+PQC M30 100mm
	Details of RWs	133 m
	Details of Culverts	Nil
	Details of Drains	Nil
	Total Cost	74 lakhs
	Per km cost	101 lakhs
	Comments from Technical	
	Committee	No specific comments except clarifications. DPR approve
4	Moorthinada to Manchadichira in	ı Kavalam GP
	Length of Road	298 m
	Reconstruction/Rehabilitation	
	suggested	Reconstruction/New
	Nature of Pavement Suggested	Rigid Pavement (short panel concrete)
		300 mm mechanically/cement stabilised subgrade+CTSB
	Pavement Configuration	(CA) 150mm+PQC M30 100mm
	Details of RWs	105 m
	Details of Culverts	Pipe culvert Ch 0+016, Ch 0+233

	Details of Drains	Nil
	Total Cost	52 lakhs
	Per km cost	
	Comments from Technical	174 lakhs/km
	Committee	Signs and marking shall be shown more approproately in
5		future projects. DPR approved.
	Madam to Mattancherri road in	
-	Length of Road	380 m
	Reconstruction/Rehabilitation	
	suggested	New Construction
	Nature of Pavement Suggested	Rigid Pavement (short panel concrete)
		300 mm compacted subgrade+CTSB (CA) 150mm+PQC
	Pavement Configuration	M30 100mm
	Details of RWs	228 m
	Details of Culverts	Pipe culvert Ch 0+267, Ch 0+375, Box Culvert Ch 0+351
	Details of Drains	Nil
	Total Cost	80 lakhs
	Per km cost	210 lakhs/km
	Comments from Technical	000
	Committee	No specific comments except clarifications. DPR approved
6	Pekkalli bridge to kadakam road	
	Length of Road	896 m
	Reconstruction/Rehabilitation	
	suggested	Reconstruction/New
	Nature of Pavement Suggested	Rigid Pavement (short panel concrete)
		300 mm mechanically stabilised subgrade+CTSB (CA)
	Pavement Configuration	150mm+PQC M30 100mm
	Details of RWs	15 m
	Details of Culverts	Box Culvert Ch 0+152
	Details of Drains	Nil
	Total Cost	95 lakhs
	Per km cost	103 lakhs/km
	Comments from Technical	No specific comments except clarifications. DPR approved
	Committee	
7	PS Kavala Chudukattumpuram Ch	
	Length of Road	2042 m
	Reconstruction/Rehabilitation	Rehabilitation
	suggested	Distribution of the second of
	Nature of Pavement Suggested	Rigid Pavement
	Pavement Configuration	WMM levelling coarse 75mm+150mm PQC M30
The second	Details of RWs	1113 m
	Details of Culverts	Box Culvert Ch 0+176, Ch 0+840
	Details of Drains	Nil
	Total Cost	317 lakhs
	Per km cost	155 lakhs/km
	Comments from Technical	Requirement of a provision of 7.5cm WMM as levelling
	Committee	coarse has to be justified. DPR approved.
8	Therambilpadi road (balance porti	on) in Thalavady Gp
	Length of Road	802 m
	Reconstruction/Rehabilitation	Reconstruction
	suggested	

	Nature of Pavement Suggested	Rigid Pavement	
	Pavement Configuration	Earth filling+GSB 100mm+WMM 75mm+PQC M30 150 mm	
	Details of RWs	329 m	
	Details of Culverts	Nil	
	Details of Drains	Nil	
	Total Cost	242 lakhs	
	Per km cost	300 lakhs/km	
	Comments from Technical	Adequate longitudinal gradient shall be ensured so as to	
	Committee	ensure adequate drainage. DPR approved.	
9	Anchangadi bridge to Mancompu	govt LPS in Pulinkunnu Gp	
	Length of Road	1365 m	
	Reconstruction/Rehabilitation		
	suggested	New Construction	
	Nature of Pavement Suggested	Rigid Pavement (short panel concrete)	
	Nature of Favement Suggested	300 mm cement stabilised subgrade+CTSB (CA)	
	Pavement Configuration	150mm+PQC M30 100mm	
	Details of RWs	1070 m	
	Details of Culverts	Box Culvert Ch 0+569, Ch 0+860, Pipe Culvert Ch 0+470	
	Details of Drains	Nil	
	Total Cost	322 lakhs	
	Per km cost	235 lakhs/km	
	Comments from Technical	Guard post shall be painted to ensure proper visibility.	
	Committee	Painting already included in data. DPR approved.	
10	Kanichukulangarakavala Kalathilveedu road in Kanjikkuzhy Gp		
	Length of Road	1222	
	Reconstruction/Rehabilitation		
	suggested	Rehabilitation	
	Nature of Pavement Suggested	Flexible	
	Pavement Configuration	150mm WMM+40mm BC	
	Details of RWs	15 m	
	Details of Culverts	Nil	
	Details of Drains	Nil	
	Total Cost	154	
	Per km cost	TC suggested to consider binder layer also as the traffic is	
		T6, moderate surface condition and possible diverted	
	Tarketal	traffic from NH to Pathiramanal. The design portion shall	
	Comments from Technical	be presented in the next TC.	
	Committee		
	Scrutiny of 4 nos revised estimates submitted by PMU Chirackarapadi Chetalapuncha road in Alapuzha District		
1	PMU presented the following variations in the design proposal of the road		
	Original Proposal for the road		
		2710 m	
ip 1	Length of Road Reconstruction	649 m	
Mary May K. A.		2061 m	
	Rehabilitation	6.75 for rehabilitation stretch and 10 for reconstruction	
	Design CPP	stretch	
	Design CBR		
	Traffic	0.50 msa	

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Section Sectio	Rehabilitation Portion			
	Subgrade	- Cuintin -		
	Sub base	Existing		
		Existing		
	Base (WMM)	180 mm		
	Wearing Coarse (BC 2)	40 mm		
	Reconstruction Portion			
	Subgrade (cement stabilised)	300 mm		
	Sub base (GSB)	100 mm		
	Base (WMM)	180 mm		
	Wearing Coarse (BC 2)	40 mm		
	Revised estmate is proposed due to the following variations in input parameters brought out by the PIU.			
	1) Frequent flooding in the inter	mediate stretch of the road from Ch 0+860 to Ch 1+540		
	2) Development of a BC product	ion plant and pipe manufacturing plant at Ch 1+535		
	3) Extensive damage from Ch 1+	535 to 2+100 due to the construction traffic		
	Project Director, PMU engaged a team headed by Technical Committee member Divided NIT Warangal and members Sri. Sajish, EE, PMU, Sri. Shiju Chandran R., AEE, PMU, Senzilal, AEE, PIU, Sri. Binod, AE, PMU, Sri. Jiju, AE, PMU, Sri. Krishnakumar, AE, PIU formulate recommendations for the revised proposal. The following are the recommendations of the committee. 1) The road has been very severely damaged than that observed during DPR data control of the traffic from the crusher, construction traffic to the new facilities by and flooding during rainy seasons.			
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	2) The traffic along the road has the newly constructed facilities.	to be reassessed based on the possible generated traffic from		
	and recommended to adopt pol	3) Dr. Vishnu R., NIT Warangal suggested to consider Rigid Pavement for vulnerable sections and recommended to adopt polymer modified bitumen for flexible wearing course considering the proneness of the road to frequent flooding.		
	4) The drainage condition along and by constructing additional d	the road has to be improved by longitudinal profile correction rains if required.		
	Accordingly the improved profile of the road has been finalised between the PIU a Engineers. Pavement proposal has been modified based on the newly assessed tra Required drains and one culvert provided to improve the drainage conditions. Modified Pavement Proposal			
	Length of Road	2710 m ·		
	Reconstruction	2710 m		
	Rehabilitation	Nil		
	Design CBR	10		
	Traffic	1.66 msa		
	Modified Design Cross sections			
	Rigid (Ch 0+860 to 1+540)			
	Subgrade (cement stabilised)	300 mm		
- # H - # E	Sub base (CTSB using crushed			
	aggregate)	150 mm		
	Wearing Coarse (PQC M30)	180 mm		
	Flexible (Ch 0+000 to Ch 0+860	and 1, E40 to Ch 2, 710)		

	Subgrade (mechanically		
	stabilised)	300 mm	
	Sub base (GSB)	150 mm	
	Base (WMM)	150 mm	
	Binder Coarse (DBM)	50 mm	
	Wearing Coarse (BC 2)	30 mm	
	Adequate drains and culverts p		
		TC opined to maintain adequate longitudinal slope for	
	Comments from Technical	flexible pavement surface. Relevant GOs shall be complied	
	Committee	while preparing RE. The revised design approved.	
2	Kavanathinkara Manchira Road		
	Kavanathinkara Manchira Road in Kottayam District PMU presented the following variations in the design proposal of the road		
	Original Proposal for the road	ariations in the design proposal of the road	
	Length of Road	1305 m	
		White topping with PQC M30 15 cm thick with levelling	
	Design Proposal	coarse	
	Revised estmate is proposed due to the following variations in input parameters brought out by the PIU.		
	Road section from Ch 0+430 to	Ch 1+305 severly damaged in subsequent floods and chipping	
	carpet layer completely got rem		
- 4		ntional rigid pavement replacing white topping	
	Modified Design Cross sections		
		Existing subgrade and sub base maintained considering	
	Subgrade	practical difficulties in dismantling existing layers(k	
		adopted=30)	
	Sub base (GSB)	100 mm	
	Base (WMM)	75 mm	
	Wearing Coarse (PQC M30)	150 mm	
	Comments from Technical	TC opined Relevant GOs shall be complied while preparin	
	Committee	RE. The revised design approved.	
3	Girideepam Kadathukadavu road	d in Kottayam District	
	The following changes are sought in the estimate considering satisfactory completion of the work		
* :	1) Provision of cement is to be included in estimate in the EBM layer as it is missing in the		
	original estimate		
100			
	2) Additional chapaths at 6 locations are warranted considering changes inland developmen in the adjoining area and for effective cross drainage		
	3) Ring bund and bailing out provision to be included in the estimate considering site condition		
	Comments from Technical		
	Committee	The changes suggested in revision approved.	

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1	1) The slab culvert at Ch 0/202		
	1) The slab culvert at Ch 0/390 may be replaced with Box Culvert. This variation in proposal is suggested considering the low initial resistance to coconut piles driven during construction. The box culvert typical drawing as per MoRTH adopted for similar span. 2) A new RCC retaining wall proposed at Ch 0/100 considering possible failure of the project comments from Technical		
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	Comments from Technical	residential building nearby	
	Committee	3 3.7.	
T		The changes suggested in revision approved.	
11	New DPRs prepared by PMU (11	/25 nos) (contd.)	
	Length of Rallanchery Than	25 nos) (contd) assery Road in Kumbalangi GP in Ernakulam District Stretch 1= 485 m. Stretch 2, 1065	
	Dear of Road	Stretch 1= 485 m, Stretch 2= 1065 m	
	Reconstruction/Rehabilitation	705 m, Stretch Z= 1065 m	
,	suggested	Stretch 1 Daniel III	
	Nature of Pavement Suggested	Stretch 1- Reconstruction, Stretch 2-Rehabilitation	
		Rigid Pavement	
		Stretch 1 (100 mm GSB+75 mm WMM+150mm PQC M30;	
		Stretch 2(75mm WMM levelling coarse+150 mm PQC	
		M30); Bund connection road (Subgrade 300mm+GSB	
-	Pavement Configuration	150mm+WMM 150mm+interlock 100mm)	
	Details of RWs	70 m	
	Details of Culverts	Slab culverts Ch 0+000, Ch 0+120	
	Details of Drains	Stretch 1- 485m, Stretch 2 -	
	Total Cost	310 lakhs	
	Per km cost	200 lakhs/km	
		TC suggested to provide coconut piling at RHS bund for	
	Comments from Technical	confinement. Considering difficulties in installation of geo	
	Committee	textile behind left bund, it is recommended to be	
	* 1	excluded.	

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