

**State :-**Jammu & Kashmir

**Total Estimated Cost of Project = Rs.4883.34 Lacs**

= Rs. 4539.61 Lacs

U – Upgradation(X)

Name : Er.V.K. Sharma  
Designation : I/C. Asstt. Ex.Engineer.  
PMGSY Sub Div.Inshan.

Name : Er. G.N. Ahanger  
Designation : Executive Engineer,  
PWD(R&B) Spl. Sub Div./PIU PMGSY  
Marwah

Name : Er. Raman Puri  
Designation : Superintending Engineer,  
PMGSY Circle, Batote.

:- Signature  
Name  
Designation

**FAYAZ AHMAD MIR**  
Asst. Professor, NIT Srinagar  
/ Coordinator  
State Technical Agency  
for PMGSY



**PRADHAN MANTRI GRAM SADAK YOJANA (PMGSY)**  
**CHECK LIST FOR P.I.U. & S.T.A**  
 (For Individual Road Works)

To be filled by PIU

1. Location :- State :- JAMMU & KASHMIR		District :- DODA (KISHTWAR)		Block :- Marwah																
2. Package No:- JK04- 167																				
3. Name of Road:-		From:-IKHALA BLOCK BOUNDARY KISHTWAR		To :- LOPARA																
4. Length (Km)		Total = 49.00 km		In Built up area : 6.0 Km																
				In Open area : 43.00 Km																
5. Estd. Constt. Cost= Rs. 4883.34 Lacs		Average Cost/Km:-Rs. 89.45 Lacs /km																		
= Rs. 4539.61 Lacs.																				
		<table border="1"> <thead> <tr> <th>Item</th> <th>Total Cost (in Lacs)</th> <th>Cost per Km(in Lacs)</th> </tr> </thead> <tbody> <tr> <td>Flexible Pavement</td> <td>2883.23</td> <td>58.84</td> </tr> <tr> <td>CD/Protection work</td> <td>1639.31</td> <td>33.45</td> </tr> <tr> <td>Others</td> <td>15.47</td> <td>0.33</td> </tr> <tr> <td><b>Total</b></td> <td><b>4539.61</b></td> <td><b>89.45</b></td> </tr> </tbody> </table>				Item	Total Cost (in Lacs)	Cost per Km(in Lacs)	Flexible Pavement	2883.23	58.84	CD/Protection work	1639.31	33.45	Others	15.47	0.33	<b>Total</b>	<b>4539.61</b>	<b>89.45</b>
Item	Total Cost (in Lacs)	Cost per Km(in Lacs)																		
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<b>Total</b>	<b>4539.61</b>	<b>89.45</b>																		
6. Type of Proposal:-		STAGE-I																		
* If the Proposed road is a New connectivity		New connectivity																		
- Is the road a part of core network		Yes																		
- If Yes, Through/Link Route Number		<table border="1"> <tr> <td>L</td> <td>0</td> <td>2</td> <td>6</td> </tr> </table>				L	0	2	6											
L	0	2	6																	
-Name of the unconnected Target Habitation (to be cross checked CN-6)		Lopara																		
- List of Habitations connected enroute		Sonder, Lohrana & Jankpur																		
- Population sub served by the proposed road.		8866 Souls																		
- Does the proposed road lead up to the Habitation for which it is supposed to provide connectivity (In other words are you sure that the road is not being made partially?)		Yes																		
Does the proposed road connect the unconnected Habitation to		Yes																		
a) Another Habitation having all-weather road. (Connected Status).																				
b) Directly to an All weather road.		b																		
If (b), indicate the nature of road to which the proposed road leads.		<table border="1"> <tr> <td>RR</td> <td>MDR</td> <td>SH</td> <td>NH</td> </tr> <tr> <td>RR</td> <td>x</td> <td>x</td> <td>x</td> </tr> </table>				RR	MDR	SH	NH	RR	x	x	x							
RR	MDR	SH	NH																	
RR	x	x	x																	
• If the proposal is for up gradation																				
- Is the road a part of the core network		Yes																		
- Is it associated Through Route or not		Yes																		
- (In case it is not associated TR)																				
Whether:-PCI, has been done																				
- Age of the road given																				
- Is it certified that there are no other Unconnected Habitations in the district.		No																		
- Population sub served by the proposed road.																				
7. a) Whether the Proposed Road has the desired carriageway width, roadway width and road land width (RLW).		Yes																		
a) Indicate the actual widths adopted for the proposed road.		In the Built Up Area (m)		In the Open Area (m)																
a) Carriageway		3.00		3.00																
b) Roadway		8.50/6.00		8.50/6.00																
c) Road Land Width		varies		10.00/12.0																



INDEX MAP (Not to scale)																
Ikhala	Sonder	Lohrana		Jankpur	Lopara	Lopara Hathri										
RD-18/0	RD-23/400	RD-42/100	RD-43/900	RD-47/850	RD-52/800	RD-66/0										
<b>8. Base year traffic volume :- (New Connectivity)</b>																
Motorized												Non-Motorized				
Days	Cars, jeep van, three wheeler	Motorized Three wheeler	Light Commercial Vehicles	Trucks			Agricuilt. Tractor Trailer			Buses			Cycle	Cycle Rickshaw	Animal drawn vehicle	
				L	U	OL	L	U	OL	L	U	OL			SWC	NumType
Day1																
Day2																
Day3																
Avg.	15	30	24	4	2	0	30	15	0	2	0	0	0	0	06	0
<b>9. Growth rate adopted (%)</b>																
ADT in the year of traffic count				= 61.50												
Growth rate adopted (%)				= 6%				Base year traffic AADT (T) = 81.26								
Design life				= 10 yr's												
No. of Harvesting seasons				= 02												
No. of days in each Harvesting Season (t)				= 75				Cumulative ESAL = 89889								
Value of (n) assumed				= 01				Traffic Category = T 3								
<b>10. Sub grade CBR (For different sections) Stage - I DPR</b>																
Chainage																
Design CBR (%)																
<b>10. Cost Details</b>																
A. Clearing and Grabbing												Cost in Rs.				
<b>B. Pavement Components</b>																
Description of the layer				Thickness	Quantity		Cost (Lacs.)		Cost/Km							
1. Earth work in excavation/cutting.				-	1192748.61		2628.65		2883.23		53.64					
2. Earth work in filling/Embankment				-												
3. Sub-grade if provided separately.				-												
4. Shoulders if not considered in earthwork.				-												
5. GSB				-												
6. Soil + Aggregate Mix				-												
7. WBM-G 3				-												
8. BM				-												
<b>C Bituminous Layers</b>																
1. Prime Coat				-												
2. Tack Coat				-												
3. OGPC (20mm thick)				-												



4. Seal Coat	-	-	-	-																												
5. Berm filling	-	-	-	-																												
6. Carriages of Aggregates	-	-	-	-																												
7. Carriage of bituminous	-	-	2883.23	58.84																												
<b>TOTAL COST OF PAVEMENT =</b>			<b>2628.66</b>	<b>53.64 lacs</b>																												
<b>D. CD Works</b>	No. of Existing CD works nil Do they require any improvement no If yes, cost of improvement nil No. of proposed CD works with Classification i) 6.0m long pucca Scupper (26 no's) = Rs.120.38 Lacs ii) 1.0 m dia H/P Culvert (140 no's) = Rs.266.00 Lacs iii) 2.0 m Span RCC Culvert (09 nos) = Rs.62.37 Lacs iv) 12.0 m long Vented Causeway (04 no's) = Rs.57.68 Lacs			128.44 298.20 298.90 10.33 lacs 11.38 557.83																												
<b>E. Protection Works = R/wall, B/wall, parapets / edge walls/Disposal Canel.</b>			<b>Rs.882.85</b>	<b>48.01 lacs</b>																												
<b>F. Pucca Side Drains (if provided)</b>			<b>15000 mts</b>	<b>4.44 lacs</b>																												
<b>G Road Logo, Other Road furniture , Road safety &amp; traffic sign boards</b>			<b>= Rs.4.22 Lacs</b>																													
<b>Soil Testing</b>																																
1. Load Testing																																
2. Design Consultancy																																
3. Survey & Preperation of DPR/ Inaugurations Stones etc.			= Rs.12.25 Lacs																													
4. PMGSY Logo Sign Boards																																
<b>T</b>			<b>Total:- = Rs.16.47 Lacs</b>	<b>0.33 lacs</b>																												
<b>I. Any Other Provisions. (please specify) Afforestation</b>			<b>--</b>	<b>-----</b>																												
<b>Add disposal of Excavated soil lead up to 0.50km @ 5% Cost of Earth work</b>			<b>= Rs.131.43 Lacs</b>	<b>2.68 lacs</b>																												
<b>A) Total Construction Cost of the Project</b>			<b>= Rs.4383.34 Lacs</b>	<b>89.45 lacs</b>																												
<b>J. Five Year Routine Maintenance</b>	<table border="1"> <thead> <tr> <th>Year</th> <th>Cost in lacs</th> <th>% of const. cost</th> <th>Cost/Km in Lacs</th> </tr> </thead> <tbody> <tr><td>i</td><td></td><td></td><td></td></tr> <tr><td>ii</td><td></td><td></td><td></td></tr> <tr><td>iii</td><td></td><td></td><td></td></tr> <tr><td>iv</td><td></td><td></td><td></td></tr> <tr><td>v.</td><td></td><td></td><td></td></tr> <tr><td>Total</td><td></td><td></td><td></td></tr> </tbody> </table>				Year	Cost in lacs	% of const. cost	Cost/Km in Lacs	i				ii				iii				iv				v.				Total			
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11. Whether the road has Geometrics as per Rural Roads Manual (RRM)/ Latest circulars of NRRDA.				YES																												
12. Whether CD Works / Protection works are provided as per RRM/ Latest circulars of NRRDA/Respective codes.				YES																												
13. Whether the Cost estimates are as per standard data analysis and S.S.R				YES																												

14. Certified that information provided is true

Prepared By Assistant Executive Engineer PMGSY SUB Division Inshan	Checked by Executive Engineer PWD(R&B) Spl. Sub Div./PIU PMGSY Marwah	Scrutinized by Superintending Engineer PMGSY Circle Batote.
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**TO BE FILLED BY S.T.A****Name of STA :-**

15.	Is the proposed road entered on the OMMS	Yes / No
16.	<b>If the proposal is for new connectivity</b>	
	Have you satisfied yourself that the proposed road is a part of the Core Network	Yes / No
	Is the unconnected habitation(s) part of list of unconnected habitation as per CN-6	Yes / No
	Does the proposal ensure full connectivity of the target habitation If No, the name of unconnected Habitation upto which it is connected. If such Unconnected Habitation eligible under PMGSY	Yes / No
17.	<b>Are you satisfied with the following</b>	
	Engineering Survey (L-section, X-section must be verified)	Yes / No
	Soil / Material Investigation (CBR, Density, LL, P1, Gradation to be verified)	Yes / No
	Traffic Surveys / Estimation	Yes / No
	Hydraulic Studies (Catchment for structures with more than 2 Vents to be verified from tope sheet Location and requirement of all CD structures to be verified from L section)	Yes / No
18.	In case, traffic is projected beyond T4 category, are you satisfied with the reason given by PIU	Yes / No
19.	In case, sub grade CBR is less than 3, has soil stabilization etc. been proposed (if not, specific reason given by PIU)	Yes / No

20.	Is the design of the following elements as per Roads Manual/Circulars of NRRDA  Alignment & Geometric Pavement Design CD Works and protection Measures Side Drains Integration for cross and longitudinal drainage	Yes / No Yes / No Yes / No Yes / No Yes / No
21.	Is the design of Flexible Pavement as per IRC SP 72-2007 and design of Rigid Pavement as per IRC SP 62-2004.	N-A-
22.	Does the estimation confirm to standard rate analysis and SSR generated for the current phase.	Yes / No
23.	Does the proposal have provision for PMGSY Logo Sign Boards Km / Hm stones Guard Stones (where necessary) Traffic Sign Board ( as necessary)	Yes / No Yes / No Yes / No Yes / No
24.	SPECIFIC REMARKS, IF ANY BY STA  DPR of Stage - I of the N-Connectivity road is through steep / mountainous terrain.	

Certified that the Design and Estimation for the proposed road work are based on the data and SSR provided by PIU Engineers. The proposal after final correction is entered on the OMMS. The proposal may be considered for clearance .

Technical Scrutiny

Done By

Signature

Name

Coordinator

STA

Signature

Name

FAYAZ AHMAD MIR  
Asstt Professor, NIT Srinagar  
Coordinator  
State Technical Agency  
for PMGSY



**18.3 Abstract of Cost :-**

Unit rates will be derived by using the "Schedule of Rates for Road Works, Culvert works and Carriage etc. The abstract of Cost estimate is given in the Table:-

**ABSTRACT OF COST FOR THE CONSTTOF IKHALA BLOCK BOUNDARY KISHTWAR TO  
LOPARA ROAD( L=49 KM ) Package No.JK04-167**

S.No	Items	Quantity	Unit	Rate (Rs)	Amount (in Lacs)	Cost/km (in Lacs)
<b>Pavement Component</b>						
1	Earth Work in Excavation.	1192748.61	Cum	Asper F-5	<del>2628.66</del> 2883.23	<del>53.64</del> 58.84
2	Earth work in filling.	--	--	--	--	--
3	Sub Grade	--	--	--	--	--
4	GSB	--	--	--	--	--
5	WBM Grade-III	--	--	--	--	--
6	BM	--	--	--	--	--
7	Prime Coat	--	--	--	--	--
8	Tack Coat	--	--	--	--	--
9	20mm thick premix Carpet	--	--	--	--	--
10	Seal coat	--	--	--	--	--
11	Berm Fillings	--	--	--	2883.23	58.84
<b>Total Cost Of Pavement=</b>					<del>2628.66</del> 2883.23	<del>53.64</del> 58.84
14	<b>Protection Work</b>					
	I) 6.0 m Av.Ht.R/Wall	480.00	Rmt.	33425.00	15960.00	196.19
	II) 4.0 m Av.Ht.R/Wall	760.00	Rmt.	16389.00	12456.00	151.60
	III) 3.0 m Av.Ht.R/Wall	1230.00	Rmt.	12110.00	14905.00	170.50
	IV) 1.0 m edge wall	4500.00	Rmt.	1310.00	5895.00	85.90
	V) 2.0 m Ht.B/Wall	7000.00	Rmt.	5577.00	39039.00	477.89
	VI) Pucca Drain	16000.00	Rmt.	1450.00	23200.00	284.46
<b>Total Cost Of Protection Work=</b>					<del>1100.35</del> 1082.08	<del>22.45</del> 22.08
<b>Cross-Drainage Work</b>						
15	I) 1.0 m diaHP culvert	140	No,s	2131.97	2984.00	298.20
	II) 6.0 M Pucca Scupper	26	No,s	4944.54	1280.00	128.44
	III) 2.0 m SpanRCC Cult.	09	No,s	7172.05	6237.00	67.23
	IV) 12.0 m Long Vented CauseWay	04	No,s	159914.42	6396.00	63.96
<b>Total Cost Of CD- Work=</b>					<del>506.43</del> 557.83	<del>40.33</del> 11.38
16	Aforestation	49.00	Km	--	--	--
18	i) Road safety and Traffic Sign Board	As per estimate attached	No.	422240.00	4.22	
	ii) PMGSY Logo/Informatory board.					
19	Preparation of D.P.R./Survey work/Inauguration Stones, etc.	49.00	Km	0.25	12.25	
22	Add Disposal of Excavated Soil Lead up to 0.50 Km @ 5 % Cost of E/Work.	--	--	--	<del>131.48</del> 16.47	<del>0.33</del> 0.33
<b>Total</b>					<del>4383.34</del> 4539.61	<del>89.45</del> 92.64
<b>Construction Cost =</b>						

**Total Construction Cost = Rs.4383.34 Lacs (@ Rs.89.45 lac/Km)**  
= Rs.4539.61 92.64

Assistant Executive Engineer  
PMGSY Sub Division,  
Inshan

Executive Engineer  
PWD(R&B) Spl. Sub Div./PIU PMGSY  
Marwah