

PROFORMA-B

PRADHAN MANTRI GRAM SADAK YOJANA(PMGSY)
PACKAGE SUMMARY

Package No:-JK04-167

District :-Doda(Kishtwar)

State :-Jammu & Kashmir

S No	Name of Block	Name of Road		Type of Proposal	Proposed Length (KM)	Cost of Pavement (in Lacs)	No of CD. Works	Cost of CD/Prot. Works (in Lacs)	Total Esmtd. Cost (in Lacs)	Average Cost Per Km (in Lacs)			
		From	To	N/U	Km	Lacs	No	Lacs	Constt	Lacs			
1	Marwah	Ikhala Block Boundary Kishtwar	Lopara	N	49.00	2628.66	179	1606.78	4235.44	86.44 92.31			
				i)Add for survey trace cut And setting out/Preparation of DPRs and Inaguration stone's,etc. @ 0.25 lacs/Km				12.25					
				ii)PMGSY Logo and Sign Board.				4.22					
				Add disposal of Excavated soil lead up to 0.50km @ 5% Cost of Earth work				131.43					
								7 = 4539.61		92.64			
				Total Estimated Cost				4383.34		89.45			

Total Estimated Cost of Project = Rs. 4383.34 Lacs

= Rs. 4539.61 Lacs

N - New Connectivity (N)

U - Upgradation(X)

Prepare By :- Signature

Name : Er.V.K.Sharma

Designation : I/C. Asstt. Ex.Engineer.
PMGSY Sub Div.Inshan.

Checked By :- Signature

Name : Er.G.N.Ahanger

Designation : Executive Engineer,
PWD(R&B)Spl.SubDiv./PIU PMGSY
Marwah
Dr. M.S. Mir
Professor
Member-STA

Technical Scrutiny

Done By :- Signature

Name : Er.Raman Puri
Designation : Superintending Engineer,
PMGSY Circle, Batote.
FAYAZ A. MIR
Asst. Professor, NIT Srinagar
Co-ordinator
State Technical Agency
for PMGSY

Coordinator

STA :- Signature

Name

Designation

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 <u>= Rs.4539.61 Lacs</u>		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Average Cost/Km:-Rs.89.45 Lacs /km</th> </tr> <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>2628.66</td> </tr> <tr> <td>CD/Protection work</td> <td>1639.31</td> <td>1606.78</td> </tr> <tr> <td>Others</td> <td>15.47</td> <td>147.90</td> </tr> <tr> <td>Total</td> <td>=4539.61</td> <td>4883.34</td> </tr> </tbody> </table>			Average Cost/Km:-Rs.89.45 Lacs /km		Item	Total Cost (in Lacs)	Cost per Km(in Lacs)	Flexible Pavement	2883.23	2628.66	CD/Protection work	1639.31	1606.78	Others	15.47	147.90	Total	=4539.61	4883.34
Average Cost/Km:-Rs.89.45 Lacs /km																					
Item	Total Cost (in Lacs)	Cost per Km(in Lacs)																			
Flexible Pavement	2883.23	2628.66																			
CD/Protection work	1639.31	1606.78																			
Others	15.47	147.90																			
Total	=4539.61	4883.34																			
6. Type of Proposal:-		STAGE- I		New connectivity																	
<ul style="list-style-type: none"> * If the Proposed road is a New connectivity - Is the road a part of core network - If Yes, Through/Link Route Number 		Yes <table border="1" style="width: 100%; border-collapse: collapse;"> <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 with 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.																					
If (b), indicate the nature of road to which the proposed road leads.		<table border="1" style="width: 100%; border-collapse: collapse;"> <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																		
<ul style="list-style-type: none"> • If the proposal is for up gradation - Is the road a part of the core network - Is it associated Through Route or not - (In case it is not associated TR) 		Yes Yes																			
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															
8. Base year traffic volume :- (New Connectivity)																											
Motorized																											
Days	Cars, jeep van, three wheeler	Motorized Three wheeler	Light Commercial Vehicles	Trucks			Agricult. Tractor Trailor			Buses			Cycle Cycle	Non-Motorized													
				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	06 0													
9. Growth rate adopted (%)																											
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																				
10. Sub grade CBR (For different sections)								Stage - I DPR																			
Chainage																											
Design CBR (%)																											
10. Cost Details				A. Clearing and Grabbing						Cost in Rs.																	
B. Pavement Components																											
Description of the layer					Thickness	Quantity		Cost (Lacs.)		Cost/Km																	
1. Earth work in excavation/cutting.					-	1192748.61		2628.66 2883.23		-53.64 58.84																	
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					-	-		-		-																	
C Bituminous Layers																											
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
	TOTAL COST OF PAVEMENT =	2628.66	-	53.64 lacs
D. CD Works	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	128.44		
i)	6.0m long pucca Scupper (26 no's)	= Rs.120.38 Lacs 298.10		
ii)	1.0 m dia H/P Culvert (140 no's)	= Rs.266.00 Lacs 248.90		
iii)	2.0 m Span RCC Culvert (09 nos)	= Rs.62.37 Lacs 7.23	10.33 lacs	11.38
iv)	12.0 m long Vented Causeway (04 no's)	= Rs.57.68 Lacs 3.96		
	Cost of C/D Work = Rs.506.43 Lacs	2557.83		
E. Protection Works = R/wall, B/wall, parapets / edge walls/Disposal Caneel.	= Rs.882.85	18.01 lacs		
Lacs		= Rs. 1082.08	22.08	
F. Pucca Side Drains (if provided)	15000 mts	=	4.44 lacs	
Rs.217.50 lacs				
G. Road Logo, Other Road furniture , Road safety & traffic sign boards	= Rs.4.22 Lacs			
Soil Testing				
1. Load Testing				
2. Design Consultancy				
3. Survey & Preparation of DPR/ Inaugurations Stones etc.	= Rs.12.25 Lacs			
4. PMGSY Logo Sign Boards				✓
T	Total:- = Rs.16.47 Lacs		0.33 lacs	
I. Any Other Provisions. (please specify) Afforestation				
Add disposal of Excavated soil lead up to 0.50km @ 5% Cost of Earth work	= Rs.431.43 Lacs	2.68 lacs		
A) Total Construction Cost of the Project	= Rs.4383.34 Lacs	89.45 lacs	92.64	
J. Five Year Routine Maintenance	Year	Cost in lacs	% of const. cost	Cost/Km in Lacs
	I			
	II			
	III			
	IV			
	V.			
	Total			
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	Checked by	Scrutinized by
Assistant Executive Engineer PMGSY R&B Division Inshan	Executive Engineer PWD(R&B) Spl.Sub Div./PIU PMGSY Marwah	Superintending Engineer PMGSY Circle Batote.

TO BE FILLED BY S.T.A**Name of STA :-**

15.	Is the proposed road entered on the OMMS	Yes / No
16.	If the proposal is for new connectivity	
	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.	Are you satisfied with the following	
	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 topo 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	<i>DPR of Stage - I of the N-Connectivity road is through steep / mountainous terrain.</i>

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

*for
Fayaz
Ahmad
Mir**& M.S. Mir**Dr. M.S. Mir
Professor &
Member-STA*

Coordinator

STA

Signature

Name

*FAYAZ AHMAD MIR
Asstt Professor, NIT Srinagar**Co-ordinator
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)
Pavement Component						
1	Earth Work in Excavation.	1192748.61	Cum	AsperF-5	2628.66 2883.23	53.64 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	
				Total Cost Of Pavement=	2628.66	53.64
Protection Work						
14	I) 6.0 m Av.Ht.R/Wall	480.00	Rmt: 40874.00	33125.00	159.00 196.19	
	II) 4.0 m Av.Ht.R/Wall	760.00	Rmt: 19711.00	6209.00	124.56 151.60	
	III) 3.0 m Av.Ht.R/Wall	1230.00	Rmt: 13861.00	12110.00	149.95 170.50	
	IV) 1.0 m edge wall	4500.00	Rmt: 10091.00	1310.00	58.95 85.90	
	V) 2.0 m Ht.B/Wall	7000.00	Rmt: 18277.00	5577.00	390.99 477.89	
	VI) Pucca Drain	15000.00	Rmt: 15571.00	1450.00	217.50 248.10	
				Total Cost Of Protection Work=	1100.95 1082.08	22.45 22.08
Cross-Drainage Work						
15	I) 1.0 m diaHP culvert	140	No.s 213	1.07	266.00 293.20	
	II) 6.0 M Pucca Scupper	26	No.s 4.94	4.54	120.38 128.44	
	III) 2.0 m SpanRCC Cult.	09	No.s 7.477	05	62.37 67.23	
	IV) 12.0 m Long Vented CauseWay	04	No.s 15.99	14.42	57.68 63.96	
				Total Cost Of CD- Work=	557.83	11.38
16	Aforestation	49.00	Km	--	--	
18	i) Road safety and Traffic Sign Board ii) PMGSY Logo/Informatory board.	As per estimate attached	No.	422240.00	4.22	
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.	--	--	--	131.43 T= 16.47	0.33
	Construction Cost =			Total	4383.34 = 4539.61	89.45 92.64

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