GOVERNMENT OF JAMMU & KASHMIR

DETAILED PROJECT REPORT FOR UPGRADATION & WIDENING OF ROAD FROM SOYAN TO SUNBRABRIE

(Pradhan Mantri Gram SadakYojana)

District: Anantnag

Package No: JK01-504

Block: Breng

Length: 4.20 Km

Cost: ~~578.20~~ 577.93 Rs. ~~648.75~~ Lacs

Maintenance 69.39 Rs. ~~77.85~~ Lacs

Sixth Year Renewal layer 118.14 Rs ~~127.78~~ Lacs.

Total Estd. Cost: ~~765.82~~ 765.46 Rs. ~~854.38~~ Lacs

PMGSY DIVISION ANANTNAG

Sub. div. Breng

1. Location :- State: J&K District : ANANTNAG Block : Breng

2. Package No:- JK01-S04

3. Name of the Road: Upgradation & widening of Soyan To Sunbrabrie Road

4. Total Length (Km) - 4.200 In Built up area - 1.5 Km In Open Area - 2.700 Km

5. Estimated Cost lacs : ~~648.75~~ 578.28

Stg. 1st & 2nd app. Under Pkg No JK01-

Average Cost : Item		Total Cost in	Cost per Km.
Pavement	469.62	~~532.67~~	~~125.83~~ 111.81
Rigid Pavement		0.00	0.00
CD works	108.34	~~115.75~~	~~27.56~~ 25.79
Others		0.33	0.08
Total	578.28	~~648.75~~	~~154.47~~ 137.69

6. Type of proposal:- Upgradation

-If the proposed road is a New connectivity YES

- Is the road a part of core network

If Yes Through Route/ Link Route No. T- | | | or L- | 0 | 4 | 8

- Name of the unconnected Target Habitation (s) (to be crosschecked with CN-6) 0

- Population sub served by the proposed road. 10290

- 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 YES

- Does the proposed Road connect the unconnected Habitation to

	(A)	(B)	
-a) Another habitation having All- weather road.			
-b) Directly to an All weather road.	RR		

If (b) indicate the nature of road to which the proposed road leads.

- If the proposal is for up gradation YES
- is the road a part of the core network YES
- Is it associated Through Route or Not YES
- PCI value 1
- Age of the road 23

- Is it certified that there are no other unconnected Eligible Habitations in the district. YES

7. a) Whether the Proposed Road has the desired carriage way width,Roadway width and Road Land Width (RLW)

b) Indicates the actual widths of the following for the proposed road

	In the Built Up Area (m)	In the Open Area (m)
a) Carriageway	5.50	5.50
b) Roadway	7.50	7.50
c) Road Land Width	10.00	10.00

INDEX MAP (not to scale) : Attach

PROFORMA-B

Pradhan Mantri Gram Sadak Yojana (PMGSY)

PACKAGE SUMMARY- PACKAGE NO: JK01-504 PHASE:- STAGE :Upgradation

S.NO	NAME OF BLOCK	NAME OF ROAD		TYPE OF PROPOSAL	PROPOSED LENGTH	COST OF PAVEMENT	NO. OF CD WORKS	COST OF CD WORKS	MISC COST	TOTAL ESTIMATED COST	AVERAGE COST PER KM
		FROM	TO	N/U	KM	LACS	NOS	LACS	LACS	LACS	LACS
1	2	3	4	5	6	7	8	9	10		12
1	BRENG	SOYAN	SUNBRABRIE	U	4.20	~~532.67~~ 469.62	22	~~115.76~~ 108.34	0.33	~~648.75~~ 578.28	~~154.47~~ 137.69

Total Estimated Cost ~~648.75~~ lacs 578.28
Maintenance Cost for five Years ~~27.85~~ lacs 69.39
6th Year Renewal layer SDBC (25 MM)
incld tack and seal coat ~~127.78~~ 118.14
Grand total ~~864.38~~ LACS 765.82

Prepared by
Signature
Name
Designation
Asstt. Executive Engineer
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Sub division Breng

Checked by
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Technical Scrutinity done by
Signature
Name

Coordinator STA
Signature
Name

Coordinator STA
Signature
Name

By MS Mir & FAMir

Chainage	0-4200
CBR %	CBR = 4.8 - 5.2

10. Cost Details

A. General Costs

Cost of Preparation of DPR/Survey etc	Avg 5.00		
B. Pavement Components		Cost lacs	Cost /km (lacs)
Description of layer		0.31	0.08

Description of layer	Thickness in mm		Quantity	Cost lacs	Cost/ km (lacs)
Clearing and Grabing/uprooting /Cutting of trees(hect)			2.10	3.74	0.89
Loosening of Existing Track(subgrade prep.)(Cum)	250MM	4600.0	~~6932.50~~	~~3.634~~ 2.621	~~0.87~~ 0.62
Earth Work - in Excavation/ Cutting (cum)		19142.0	~~24541~~	~~75.77~~ 59.17	~~18.44~~ 14.09
Earthwork- in Filling (Embankment)(cum)		5201.53	~~4686.76~~	~~4.67~~ 3.61	~~1.09~~ 0.86
Subgrade (if provided seperately) (cum)					
Shoulders : Hard (cum)	175MM	1680	~~1440.00~~	~~12.77~~ 13.03	~~0.97~~ 3.10
Excavation for roadway in cutting.....		4600.0	~~5932.60~~	~~3.34~~ 2.59	~~0.43~~ 0.32
Scarifying			12000.00	1.325	0.17
Hard(cum)					
Granular Sub base	250	2048.75	~~3488.25~~	~~40.03~~ 33.47	~~4.83~~ 7.97
Soil + Aggregate Mix					
WBM Gr-I I (cum)					
WMM					
C.Bituminous Layers	100MM	2362.80	~~4555.50~~	~~40.49~~ 65.75	~~31.38~~ 15.239
Prime Coat(Sqm)					
Tack Coat (Sqm)		23628	~~26555.00~~	~~35.94~~ 15.64	~~4.84~~ 3.72
OGPC (Sqm)		23628	~~26555.00~~	~~4.88~~ 6.51	~~2.16~~ 1.07
Seal Coat(Sqm)	20MM	23628	~~26555.00~~	~~42.82~~ 39.66	~~40.20~~ 9.43
M P M / B B M(Cum)	6MM	23628	~~26555.00~~	~~18.00~~ 16.64	~~4.28~~ 3.96
Surface Dressing	50MM	1181.40	4277.75	~~436.48~~ 98.38	~~23.33~~ 23.42
D. Cement Concrete Road					
Pavement Quality Concrete (M30)					

E: C D Works

No. of Existing CD Works

Do they require any Improvement- specify the nature of improvement proposed

If yes, their Number and Cost of Improvement

NEW CD: Location - Chainage (Similar Type of CD's may be grouped together)	Type of CD & their Nos	Total Length of Bridge/ Culvert	Cost in lacs.	Cost /Km (lacs)
RD 0 TO 4200	750 MM NP3 ; 8 NO		7.97 ~~10.20~~	~~2.63~~ 1.70
RD 0 TO 4200	500 MM NP3 ; 10 NO		7.49 ~~8.67~~	~~2.11~~ 1.78
RD:1275 , 3100 , 3225	CAUSEWAY ; 3 NO		11.29 ~~12.10~~	~~2.88~~ 2.69
RD: 08 ,	CULVERT 2 mtr 1 NO		5.33 ~~5.22~~	~~1.24~~ 1.26
RD: 3025	CULVERT 4 mtr 1 NO		13.54 13.54	3.22 3.38
RD : 1975	EXTENTIONS TO EXISTING CULVERT 6 mtr ; 1 NO		35.41 35.41	8.43 8.43

Total Cost of Proposed CD works						
F. Protection works		750.00	RM		Cost in lacs	
crate wall		450 lac		RM		
G. Pucca Side Drains (if Provided)	Length		600	900.00	RM	
Kuccha	Length			900	RM	
H. Road Logo, other Road Furniture						
I. survey/soil investgation						
		Total Cost of the Project (Rs)				

Name of Road : Soyan To Sunbrabrie

J. Five Year Routine Maintenance

Year	%	cost	cost/km
I	10		
II	15.00		
III	20.00		
IV	25.00		
V	30.00		
Total Maintenance Cost	Total		

6th year Renewal layer by LDBC (25 MM) incd.tack and seal coat		
11. Whether the road has Geometrics as per Rural Roads Mannual RRM /	Latest Circulars of NRRDA.	YES
12.Whether C.D.works / Protection works are provided as per RRM /	Latest Circulars of NRRDA/ Respective Codes.	YES
13. Whether the Cost etimates are as per standerd data analysis and S.S.R.		YES

14. Sources and the Lead distances of Materials are as under

Material	Source	Lead Distance (Km)	Material	Source	Lead Distance
Earth	Local		Cement	Anantnag	30
C-Aggregate	Anantnag	30	Emulsion	Mirbazar	35
			Bitumen	Mirbazar	35
Sand	Khudwani	45	Steel	Anantnag	30

Certified that information provided is true

Prepared By
(Name) ASHFAQ AHMAD
Executive Engineer
PMGSY (JKRRDA)
Sub division Breng

Checked By
Executive Engineer
PMGSY (JKRRDA)
Division Anantnag

Scrutinized By
Superintending Engineer
PMGSY (JKRRDA)
Circle Srinagar

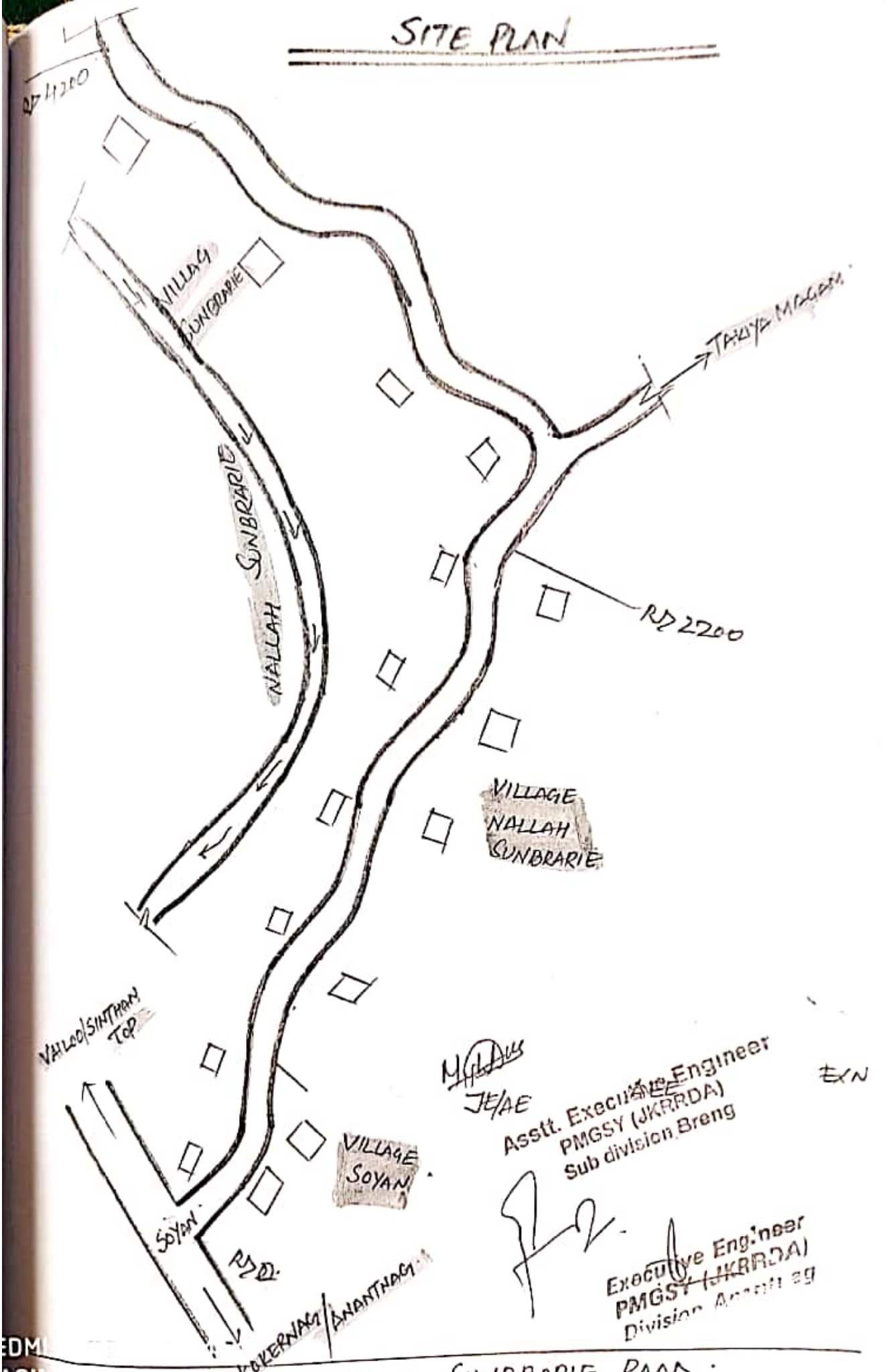
Counter Signature of Co-ordinator STA :

To be filled by State Technical Agency

Name of the STA:
Name of Road : Soyan To Sunbrabrie
Proposed Road entered on the OMMS :

Yes/ No

SITE PLAN



JE/AE

Asstt. Executive Engineer
PMGSY (JKRRDA)
Sub division Breng

EXN

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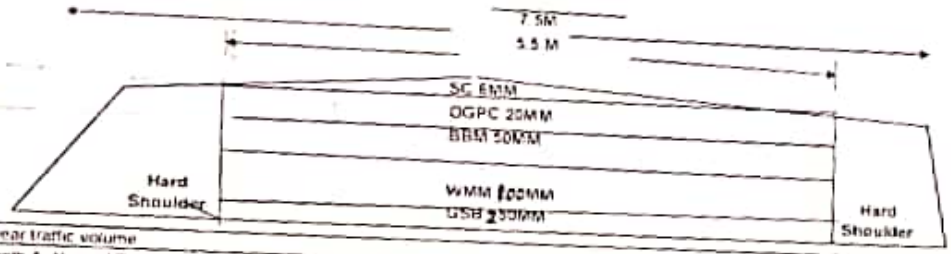
SITE PLAN SOYAN TO SUNBRARIE ROAD.

Name of Road Soyan To Sunbrabrie

Cross Section details

Cross Section of The Proposed road showing different component layers
(Should be as per Actual Provisions of DPR)



8 Base year traffic volume

Month & Year of Traffic Volume Count =

Days	Cars,Jeep, Vans,Three Wheelers	Motorised two Wheelers	Light Commercial Vehicle	Motorised Traffic: Trucks L	Trucks U	Trucks OL	Agricultural Tractors Trailers L	Agricultural Tractors Trailers U	Agricultural Tractors Trailers OL	Buses L	Buses U	Buses OL	Non Motorised Traffic: Cycles	Cycle Rickshaws	Animal SWC	Total Motorised + Non Motorised Vehicles
Day 1	500	348	250	53	30		20	45		29	24		28	2	0	1356
Day 2	525	390	212	47	22		65	51		28	28		32	3	0	1396
Day 3	514	330	264	59	32		54	36		30	29		17	0	0	1375
Average	**513**	**355**	**242**	**53**	**28**	**0**	**53**	**44**	**0**	**31**	**27**	**0**	**23**	**0**	**0**	**1379**

ADT in the year of Traffic Count (only commercial vehicles taken into consideration) **246**

Growth rate adopted (%) = 6

Design Life = Design Life = 10 Years

Number of Harvesting Seasons = 2

Days in Each Harvesting Season (t) = 60

Value of (n) assumed = 2.5

Base Year Traffic AADT (T) =	367.3
AADT At End (5% Growth Adopted)	657.8

cumulative CSAL	569496
traffic category=	T6

Proportion of Vehicles		TOTAL	%AGE OF ADT	NO. OF AADT IN Proportion	VDF	TOTAL NO AT OPENING OF ROAD										
HCV	L	84	6.1	40	2.5	100.2										TOTAL PCU
	U	55	4.0	26	0.3	7.9										
MCV	L	63	4.6	30	0.33	9.9										
	U	44	3.2	21	0.02	0.4										
TOTAL						118.4										
ADT	513	355	242	53	28	0	53	44	0	31	27	0	23	0	0	
AADT	766	530	361	79	42	0	94	66	0	46	40	0	34	0	0	
Projected AADT after 10 yrs	1372	949	647	142	75	0	168	118	0	83	72	0	62	0	0	
PCU Factor	1	0.5	1.5	3	3		4.5	4.5		3	3		0.5			
TOTAL PCU	1372	475	971	425	225	0	758	529	0	249	217	0	31	0	0	5257

Project Costing

S.No.	Items	Unit	Qty.	Amount in Lacs
1	**Clearing and grubbing.**	Hect	2.10	0.74
2	**Cutting of Trees:**			
	a) 300 - 600 mm Girth	Nos.	~~300~~ 400	0.73 0.59
	b) 600 - 900 mm Girth	Nos.	~~150~~ 300	0.61 0.700
	c) 900 - 1800 mm Girth	Nos.	~~200~~ 365	1.66 1.825
				~~3.74~~ 3.86
2	**Earth Work:**			
1	Excavation for Roadway Cutting in soil.	Cum	9379.71 ~~11921.27~~	~~15.84~~ 12.46
2	Ordinary rock	Cum	1339.96 ~~1739.50~~	~~4.00~~ 3.08
3	Excavation for roadway in hard rock (blasting prohibited)	Cum	8422.60 ~~10880.60~~	~~56.36~~ 43.63
4	Embankment filling (available at site).	Cum	5282.53 ~~6686.75~~	~~4.57~~ 3.61
5	Unlined surface drain.	Rm	900	0.16
				~~80.92~~ 62.94
3	**Cross Drainage**			
	a) 750 mm dia Single Row	Nos.	8	~~10.20~~ ~~7.97~~ 7.87
	b) 500 mm dia Single Row	Nos.	10	~~8.87~~ 7.49 7.388
	c) Submerged Causeway	Nos.	3	~~12.10~~ 11.29
	d) 2.0 mtr span Slab Culvert	Nos.	1	5.22 5.27
	e) 4.0 M Span Slab Culvert	Nos.	1	~~13.54~~ 13.73
	f) 6.0 M Span Slab Culvert extention	Nos.	1	~~35.41~~ 35.24
				~~85.34~~ ~~80.97~~ 80.78
4	**Protection Works**			
	a) 3.5 Mtr. Height R/Wall	RM	~~200~~ ~~250~~	~~64.39~~ ~~52.17~~ 51.74
	b) B/Wall	RM	500	58.96
	c)Crate Walling	RM	100 ~~150~~	~~21.14~~ ~~16.09~~ 13.94
				~~144.48~~ ~~125.22~~ 124.61
5	**PCC Side Drain**	RM	~~700~~ 600	~~30.42~~ 27.42
6	**Pavement**			
	a) Excavation for roadway 4600	cum	~~5932.50~~	~~3.34~~ 2.59
	b) Subgrade Preparation 4600	Cum	~~5932.50~~	~~3.64~~ 2.82
	c) Scarifying 12000	sqm	12000.00	1.32
	d) Granular Sub-Base 2898.25	cum	~~3466.25~~	~~40.03~~ 33.47
	e) WMM 2362.80	Cum	~~2555.50~~	~~49.48~~ 45.76
	f) Priming Coat 23628.0	Sqm	~~25555.00~~	~~16.91~~ ~~15.64~~ ~~13.71~~ 12.71
	g) Tack Coat 23628.0	Sqm	~~25555.00~~	~~4.88~~ ~~4.51~~ 3.75
	h) 50mm Bituminous Macadam 1181.40	Cum	~~1277.75~~	~~106.40~~ ~~98.38~~ 97.44
	i) 20mm thick OGPC 23628.0	Sqm	~~25555.00~~	~~42.83~~ ~~39.60~~ 39.22
	j) Seal coat 23628.0	Sqm	~~25555.00~~	~~18.00~~ 16.64 15.87
	k) Hard shoulders. 1880.0	Cum	~~1640.00~~	~~12.72~~ ~~13.03~~ 19.40
				~~299.56~~ ~~273.76~~ ~~271.77~~ 274.36
6	**Road Furniture**			3.97
			Total	~~648.43~~ ~~577.96~~ 577.93
	Add for c/o Project Preparation, Documentation ,survey etc @ 8000/- per Km			0.33
	Total Cost of construction			~~648.75~~ 578.26

Project Costing

S.No.	Items	Unit	Qty.	Amount in Lacs
	5 yrs Routine Maintanence Cost @ 12% of Construction Cost.			~~77.85~~ 69.39
	6 yrs Renewal layer by way of SDBC (25 MM) incld tack and seal coat			~~127.78~~ 118.14
	Total Cost of Project			~~854.38~~ ~~765.02~~ ~~765.46~~ 765.79

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Pradhan Mantri Gram Sadak Yojana (PMGSY) **F5**

Road Proposed in PMGSY for Rural connectivity (Pavement Layers)

District: Anantnag Block: BRENG Package No: JK 01-504

S.No	Name of place/ tourist place connected by road		New Const./ Upgradation (Use		Facilities accessed (Use A/B/C/D)	Road length (Km)	Existing Surface Type	Details of Thickness & Cost for Pavement												Total cost of Pavement in Lacs
	From	To	N	U				R.Furniture	50 mm thick Macadam	Earth Work	Hard Shoulder	Sub Grade Preparation (tree cutting & Grubbing)	Excavation for roadway & scarifying	GSB	WMM	Prime Coat/ Tack Coat	20mm OGPC + Tack coat	R/B Wall	PMC Seal Coat	Sum of (10 to 19)
1	2	3	4	5	6	7	8	9	10	11	12	13		14	15	16	17	18	19	20
1	Soyan	Sunbrabrie	-	U	D	4.20	MT	3.97	~~106.40~~ 98.38	~~80.92~~ 62.94	~~12.72~~ 13.03	~~7.37~~ 6.56	~~4.67~~ 3.92	~~40.03~~ 33.47	~~49.48~~ 45.75	~~16.91~~ 15.64	~~47.72~~ 44.12	~~144.48~~ 125.23	~~18.00~~ 16.64	~~532.67~~ 469.62

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PMGSY

F 2

Details of Existing Roads

District: Anantnag

Block: Breng

Package No: JK01-504

	S.No.	Name of Road	Road length (Km)	Road Connecting	Facilities accessed (Use A/B/C/D)	Traffic/ day				Existing Road Details				Bituminus Layers		
						Total Motorised	Total Truck/ Tractors	Land Width (m)	Road Width (m)	Embankment formation		WMM Layers		Type	Width (m)	Thickness (mm)
										Height (m)	Width (m)	Height (m)	Thickness (mm)			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	1	SOYAN TO SUNBRARIE	4.20	Sunbrabrie and Magam	B	Attached in b&c format		10	7.5					Bit. Macd	5.5	50

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