

## TECHNICAL REPORT

Name of State	: Jammu & Kashmir
District	: Udhampur
Block	: Dudu
Division	: PMGSY Division Ramnagar
Name of Scheme	: Garh Samnabanj to Marila Rajundi
Length	: 5.350 Kms.

### Preliminary :

India has essentially a rural oriented economy with 74 % of its population living in its villages. In the year 2000, it was estimated that about 3, 30,000 out of its 8, 25,000 villages and habitations were without any all weather road access. It was against this background of poor connectivity that the Prime minister announced a massive rural roads programme under the name "PMGSY" to provide a better connectivity for rural development by way of promoting access to economic and social services there by generating increased agricultural incomes and productive employment opportunities. Garh Samnabanj to Marila Rajundi road is one such road which has been proposed to be taken up for construction under PMGSY programme. The road from Garh Samnabanj to Marila Rajundi is proposed to be taken up to connect the village Marila Rajundi having a target population of 314 souls.

### Authority & Plan Provision:

The road falls in core network of District Udhampur Block DUDU having code JK-14-394 AND L-044. The proposed road falls at S.No. of CUPL for Block DUDU Udhampur District Priority I'.

### History Geography & Climate:

The road is "Stage 1st" Project. The people living in the area are mainly dependent on Agriculture produce, rearing of cattle live stock production & apiculture etc. The area has not been exploited due to non-availability of good motor able link.

The topography of the area is hilly having a cross country slope between 25-60%. At places it is more than 70% also. The terrain thus can be classified as mountainous. The Geological features of the area are combination of hard soil, clay shale & hard rock in stretches.

The area falls under Sub-Tropical temperature zone as per climate and annual rainfall in concerned. The ambient temperature ranges between 42<sup>o</sup> C to 5<sup>o</sup> C and average annual rainfall is up to 1100 mm.

### Necessity:

The project envisages the linking of Target habitation of Garh Samnabanj to Marila Rajundi. The people of the area have represented for early taking up of this road so that at least all fair weather status road is made available to them. The repeated representations of the public and Hon'ble MLA of the area has necessitated the execution of this project at an earliest.

The road is proposed to be executed using both machinery & labour.

### Road features:

The alignment of the route has been selected keeping in view the fact that maximum benefit reaches the scattered habitations of the village Garh Samnabanj to Marila Rajundi and also keeping in view the connectivity criteria for hilly areas. The alignment passes through the safe zone with minimum cross -drainage works. The route has been so selected that heavy cuttings are avoided.

The road passes through hilly terrain. The existing nature of soil classification varies in stretches and as such average classification km wise has been fixed. The road has been aligned in such a way that maximum natural passing zones are made available enroute. The passing zones have been provided @ 3 No. / Km

### Environmental & Ecological Aspect:

While aligning the road it has been tried that minimum forest area / land is encountered. As per rough estimation no. small to big trees of different species shall to be cut for construction of road. As the expected traffic to the area after construction of road shall be mainly public transportation with in permissible extent, there is no risk of increase in Air pollution/ Noise pollution in the area. Since no water sources are being encountered and those available are far from the proposed alignment, hence there shall be no adverse impact on quality of fresh water in the area during the construction process.

After construction of road, the road side areas of forest shall get prone to clearing of road side vegetation for fire wood, grazing cultivation & development of new habitations which shall have to be controlled through proper law enforcement.

### Road land, road way, carriage way & other X-sectional element:

Since this road is proposed in village road category the formation width of road shall be 6.0m in straight reaches & 6.5m on horizontal curves. The carriage way width shall be 6.0 m. A kuccha and Pucca drain 0.60 m X 0.60 m shall be constructed along the hill side for effective storm water drainage.

### Traffic:

The anticipated traffic on the road shall be 06 trucks/ Buses, 28 tractors/ mini buses, 10 cars, 24 two wheelers etc. The projected traffic after 10 years of completion of road shall be 34 commercial vehicles day.

## GENERAL ABSTRACT OF COST

Name of Road: Construction of Road from "Garh Samna Banj to Marila Rajundi"

Length-5.350 Km

(Stage-I)

S.No	Description of Item	Unit	Quantity	Rate (Rs)	Amount (In Lacs)
01	02				
1	Earthwork in excavation in hilly terrain	03	04	05	06
a.	All kinds of soil	Cum	27523.58	406.00	
	43241.08		<del>27170.1</del>	115.00	42.75
b.	Ordinary rock not requiring blasting	Cum	19699.91	103.00	36.05
	17233.85		<del>14737</del>	201.00	29.62
c.	Hard Rock	Cum	18328.67	307.00	56.27
	15987.42		<del>13644</del>	343.00	46.80
d.	Earth filling in embankment	Cum	2140.40	57.00	1.24
				58.00	1.24
				T=	120.41
2.	C.D Works				122.71
a.	Const. of 1.0 Mtr Dia HP Culvert	No	23	2.16	49.68
				2.36	54.28
b.	Const. of 6.00 Mtr Long Scupper	No	01	4.15	4.15
				4.57	4.57
c.	Const. of 6m span RCC Culvert	No.	01	19.79	19.79
				21.76	21.76
				T=	80.61
3.	Const. of Semi Pucca Walling:-				73.62
a.	Semi Pucca R/Wall Av. Height 3.0 m	Rmt	500	9248.00	55.49
				10940	59.70
b.	Semi Pucca R/Wall Av. Height 4.0 m	Rmt	<del>470</del>	<del>74247.00</del>	<del>24.22</del>
c.	Semi Pucca B/Wall Av. Height 2.55 m	Rmt	300	4924.00	24.73
				5861.00	17.50
d.	Semi Pucca B/Wall Av. Height 1.50 m	Rmt	412	3095.00	19.19
				3627.00	14.94
e.	Construction of Edge Wall @ 100m / Km	Rmt	535	1425.00	7.62
				1894.00	10.13
				T=	97.35
4.	Construction of Pucca Drain:-	Rmt	1605	1204.00	19.32

} 140.45 ✓

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5. Providing & Fixing of PMGSY Boards:-						
a	P/F of Citizen Informatory Board	Each	02	33178.00 14494.00	0.29	0.26
b	P/F of PMGSY Logo after every 2Km	No.	03	10000.00	0.30	0.27
c	P/F Road Sign Boards @ 3Nos/Km	Each	15	3528.00 3248.00	0.53	0.52
d	P/F Kilo Meter Stones Ordinary	Each	05	1711.00 1953.00	0.10	0.09
e	P/F 200 Mtrs Stones recast	Each	27	447.00 463.00	0.13	0.11
f	P/F Boundary Pillars in RCC M-15 @ 100 Mtr C/C	Each	107	370.00 437.00	0.47	0.40
g	Provision for tracer path cutting including survey and setting out etc.	Km	5.35	0.20 Lacs		1.07
h	Provision for CBR Tests Including Preparation of DPR & Painting of Boards, Lines, Dashes, Arrows etc. as per Technical Specification Clause 1702.	±	-	-		0.80 x
				T=	325.289	✓
				Total :-	349.85 lacs	326.30

Rs 60.06 lac/km.

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T.E

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Block Forest Officer  
..... Block

*(S. Thakur)*  
Range Forest Officer  
Ramkot Forest Range  
Nagrota Gujroo

list of r/d works proposed/upgraded, type, location, span/dia in a tabular form.

Table 10.2 Proposed Culverts

Sl. No.	Chainage	Type of Culvert	Span/dia
1	90	HPC	1.00 mtr dia
2	200	HPC	1.00 mtr dia
3	500	HPC	1.00 mtr dia
4	800	HPC	1.00mtr dia
5	990	HPC	1.00mtr dia
6	1200	HPC	1.00mtr dia
7	1300	HPC	1.00mtr dia
8	1550	HPC	1.00mtr dia
9	2140	HPC	1.00mtr dia
10	2225	HPC	1.00mtr dia
11	2320	HPC	1.00mtr dia
12	2425	HPC	1.00mtr dia
13	2690	HPC	1.00mtr dia
14	2990	HPC	1.00mtr dia
15	3225	HPC	1.00mtr dia
16	3490	HPC	1.00mtr dia
17	3790	HPC	1.00mtr dia
18	3950	HPC	1.00mtr dia
19	4125	HPC	1.00mtr dia
20	4400	HPC	1.00mtr dia
21	4775	HPC	1.00mtr dia
22	4940	RCC CULVERT	6.00mtr span
23	4975	SCUPPER	6.00mtr long
24	5085	HPC	1.00mtr dia
25	5285	HPC	1.00mtr dia

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## 11 Protective Works & Drainage

### 11.1 General

Mountaneous terrain and drainage condition along the road is under study as the road is new connectivity)

### 11.2 Road side drain

As the insufficient drainage of surface water leads to rapid damage of road, road side drain as shown in drawing volume has been provided particularly on the location of habitation areas. Sketch for a standard roadside drain should be made available.

### 11.3 Protective Works

Necessary protection works consisting of R/walls&B/walls have been provided near to protect earthfilling ,road edge& cut slopes and water bodies falling within the proposed alignment. Table 11.1 gives the chainage-wise protection works adopted.

List of protection works proposed location in a tabular form:

Table 11.1 List of protective works

Sl. No.	Chainage	Type of protective works		Comments
		LHS	RHS	
1	0-25	R/W	-	To protect road edge
2	225-250	E/W	-	To protect road edge
3	475-525	R/W	-	To protect earth filling
4	600-625	R/W	-	To protect road edge
5	775-825	-	B/W	To protect cut slopes
6	925-950	R/W	-	To protect earth filling
7	1100-1150	R/W	B/W	To protect earth filling&cut slopes
8	1360-1425	R/W	-	To protect earth filling
9	1500-1700	B/W	R/W	To protect earth filling&cut slopes
10	1800-1850	-	B/W	To protect cut slopes
11	2300-2350	R/W	-	To protect road edge
12	2360-2425	B/W	R/W	To protect road edge &cut slopes
13	2450-2475	B/W	R/W	To protect road edge &cut slopes
14	2800-2990	B/W	R/W	To protect earth filling&cut slopes
15	3035-3065	-	R/W	To protect earth filling
16	3075-3125	-	E/W	To protect road edge
17	3375-3425	R/W	B/W	To protect road edge &cut slopes
18	3660-3690	R/W	-	To protect earth filling
19	3740-3760	R/W	-	To protect cut slopes
20	3900-4100	-	B/W	To protect cut slopes
21	4200-4400	R/W	B/W	To protect earth filling&cut slopes
22	4750-4800	R/W	-	To protect cut slopes
23	4825-4875	R/W	-	To protect earth filling
24	4940-4960	R/W	B/W	To protect road edge &cut slopes
25	5100-5350	R/W	B/W	To protect road edge &cut slopes

(B) Muck Dumping site in respect of road alignment form Garh Samnabanj to Marila Rajundi under PMGSY passing through Co.20a/Rkt of Ramkote Forest Range

Muck Dumping Site No.	Location	Length (mts)	Width (mts)	Area (Sq mts)	No's of Trees	No's of Poles
1	RD 0/0 km to 0/50 km	50	40	2000	0	0
2	RD 0/575 km to 0/625 km	50	40	2000	0	0
3	RD 1/150 km to 1/200 km	50	25	1250	0	0
				5250	0	0

Total Area Proposed for muck dumping site=5250 sqm= 0.525 Ha

Cost of land involved @ Rs.9.39 Lakhs/Ha = 0.525 x 9.39 = 4.929 Lakhs or Round off = Rs.4.93 Lakhs  
(Rupees Four Lakhs Ninety Three Thousand only)

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