

PRADHAN MANTRI GRAM SADAK YOJANA

JAMMU PMGSY CIRCLE BATOTE DIVISION RAMBAN CONSTRUCTION OF RURAL ROADS PROPOSED UNDER BHARAT NIRMAL (PMGSY)

Block: Ramban

Distric: Doda

Constituency: Ramban

Name of work	Estimated cost	Length of Road	No. of villages linked	Name of villages	Population	Total population
: Batote to Chakwa Road	Rs. 88,926 ^{Rs. 1,11,679} Lacs.	: 10 Kms.	: 6	: Bandara, Barthial, Forest Road, Kahni, Ladwai, Chakwa	: 241	: 3310
					376	729
					353	638
					973	

No. JK04/H/028
Cost per Km: ~~Rs. 88,926~~ ^{Rs. 1,11,679}

Executive Engineer
PMGSY Division
Ramban

Superintending Engineer
PMGSY Circle
Batote

STA
Civil Engineering (HOD)
College of Engg. & Tech. Jammu

Chief Engineer
PMGSY Department (J&K)
Jammu, Srinagar

REVISION OF DPRS SUBMITTED UNDER PHASE - VII.

Name of Work:- ~~Remove~~ Bridge To CHA LEWA ROAD, L=10

- | | |
|--|---------------|
| 1. Original cost (As cleared by STA) = | <u>981.58</u> |
| 2. Revised cost after making correction by way of :- | |

- | | | |
|--|---|-----------------|
| i. Deferring the provision kept for construction of Pacca drain. to be taken up in stage -II | } | <u>(-) 6.07</u> |
| ii. Keeping the provision of B/ wall a) 50% each for height of 2.00 mtr. and 2.50 mtr. | | |
| iii. Accounting for usable stone in cutting | | |

Total Amount

975.51 (with bridge)

Cost of R.F.L without bridge cost = 8.829.26 /sq,
 (975.51 — 146.25 =) 15 82.92 /Per km.

ASSTANT

Name of Scheme : Batote to Chakwa Road.

S.No.	Description	Unit	Quantity	Rate Rs./P	Amount (in lacs)	T. Amount (In lacs)
1. Hill road:-						
Earthwork in hilly area by mechanical means km. 1st to 10th		a) in excavation	cum	223860	160.68	359.70
		b) in filling	cum	7427	88.88 53.00	660.394 363.64
2. Cross Drainage works						
i	6 mtr scupper	No.	2	3.429	6.858	
ii	6 mtr span RCC culvert	No	83	18.97	94.85	55.33
iii	3 mtr span RCC culvert	No	94	7.207	64.863	2742
iv	2 mtr span RCC culvert	No	54	5.557	33.342	291.27
v	1000 mm dia Hume pipe culvert	No.	2834	1.582	44.29	51.57
3. Protection work						
i	Retaining wall	Mtrs	195	3.635	2.507	70.88
	4 mtr height	Mtrs	800	1.349	1.0792	93.34
	3 mtr height	Mtrs	700	0.888	62.16	52.86
ii	Breast Wall : 1. 2.50 mtrs. Ht.	Mtrs	675	0.442	29.83	26.57
	11. 2.00 mtrs Ht.	Mtrs	675	0.368	24.84	22.08
iii	Edge Wall	Mtrs	800	0.133	10.64	7.50
iv	Crated Check Wall	Mtrs	620	0.764	47.18	39.68
4. Miscellaneous						
1	Bridge 1 No. = 30 mtrs span	45 mtrs @ 3.25 lacs/mtrs				146.25
2	Bridge 1 No. = 15 mtrs span					
i	Trace path cutting including setting out with reference pillars back pillars clearing grubbing & survey.	Km.	10	35000	350	2.50
ii	PMGSY Logo @ 5 km interval incl. take off.	No	3	8771	0.26	
iii	Sign Board @ 2 km interval excl. take off.	No.	6	5595	0.33	
iv	Citizen information board	No.	1	11287	0.11	
v	Ref. Pillers @ 4028/km	km	10	4028	0.40	2.76
vi	Back Pillers @ 12946/km	km.	10	12946	1.29	
vii	Preparation of DPR.	Job	1	10000	0.10	
		Total				984.58

Cost per km. = 98.45 lacs 975.51

Assistant Engineer,
PMGSY

Assistant Executive Engineer,
PMGSY Sub Division,
Ramban

Executive Engineer,
PMGSY Division,
Ramban

Superintending Engineer,
PMGSY Circle,
Batote.

(118.00)
added prior
17.55/

(217.00 lac)
added
36.28/

**COST ESTIMATE FOR THE CONSTRUCTION OF BREAST WALL FOR 10.00 MTR LENGTH
FOR 2.00 M HT (without drain)**

S.No	Description of items	Length (M)	Width (M)	Height/ Thickness	Unit	Quantity	Rate (Rs)	Amount (Rs)
1	2	3	4	5	6	7	8	9
1	Earth excavation in structures (70% hard soil & 20% soft rock 10% Hard rock.	--	--	--	Cum	18.10	173.50	3140.00
2	PCC M-10 grade using 40 mm-10mm	--	--	--	Cum	0.81	2997.00	2428.00
3	R.S Masonary 1:6 mix	--	--	--	Cum	7.77	2365.02	18376.00
4	R.S dry Masonary	--	--	--	Cum	4.51	1225.26	5526.00
5	PCC M-20 Coping (20mm-10mm) aggregate.	--	--	--	Cum	0.225	4335.00	975.00
6	Carriages of Materials					Total		30445.00
								6383.60

S.T = 36,828.60
10% 3683.60


Assistant Executive Engineer
PMGSY Sub-Division


Executive Engineer
PMGSY Division
Ramban

PRADAN MANTRI GRAM SADAK YOJANA

Name of Scheme: Batote to Chakwa.

State: J&K

District:-Doda

Block : Ramban

PMGSY DIVISION RAMBAN

Name of Block	Total No. of Habitations	Unconnected habitations				Connected habitations	Package No.
	Revenue Village	>1000	500-1000	250-500	<250	Total	JK0411L028
1	2	3	4	5	6	7	8
Ramban	6	-	3	2	1	6	9

Type of work	No. of Road	Total Lenth of Road (kms)	No. of new CD structures	Pavement from, Format F-5 Rs. in lacs	CD structures from Format F-2 Rs. in lacs.	Total	No. of New Village connected	
							Total villages (Revenue)	SC/ST Village
1	2	3	4	5	6	7	8	9
New construction	1	10.00	CD= 50 Bridge=2	366.30	244.20	610.50	6 (Pop=3310)	1 (Pop. SC/ST=524)
Protection Work.								
			Trace path cutting incl. setting & Survey.			3.50		
			PMGSY Logo @ 5 km interval incl. take off.			0.26		
			PMGSY Logo @ 2 km interval excl. take off.			0.33		
			Citizen information board.			0.11	5.99	
			Ref. Pillar & Back Pillar.			1.69		
			Preparation of DPR			0.10		
			Total			616.49		

Cost Per km. = 61.64 lacs

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PRADAN MANTRI GRAM SADAK YOJANA

Name of Scheme : Batote to Chakwa Road.

S.No.	Description	Unit	Quantity	Rate Rs./P	Amount (in lacs)	T. Amount (In lacs)
1. Hill road:-						
Km. Earthwork in hilly area by mechn means km. 1 st to 10 th		a) in excavation	cum	2,23,860	160.68	359.70
		b) in filling	cum	7,427	88.88	660.31
2. Cross Drainage works						
i	6 mtr scupper	No.	2	3,429	6,858	
ii	6 mtr RCC span culvert	No	5	18.97	94.85	
iii	3 mtr RCC span culvert	No	9	7.207	64.86	
iv	2 mtr RCC span culvert	No	6	5.557	33.34	
v	1000 m dia Hume pipe culvert	No.	28	15.82	442.9	
3. Protection work						
i	Retaining wall	Mtrs	195	3,635.025	70.88	
		Mtrs	800	1.349	107.92	
		Mtrs	700	0.888	62.16	
ii	Breast Wall	Mtrs	1350	0.529	71.41	
iii	Edge Wall	Mtrs	800	0.133	10.64	
iv	Crated Check Wall	Mtrs	620	0.761	47.18	
4. Miscellaneous Bridges						
1	Bridges 1 No. = 30 mtrs span	No.	1			
2	Bridges 1 No. = 15 mtrs span	No.	45			146.25
i	Trace path cutting including setting out with reference pillars back pillars clearing grubbing & survey.	Km.	10	35000	350	
ii	PMGSY Logo @ 5 km interval incl. take off.	No	3	8771.00	0.26	
iii	Sign Board @ 2 km interval excl. take off.	No.	6	5595.00	0.33	
iv	Citizen information board	No.	1	11287	0.11	
v	Ref. Pillers @ 4028/km	km	10	4028	0.40	
vi	Back Pillers @ 12946/km	km.	10	12946	1.29	
vii	Preparation of DPR.	Job	1	10,000	0.10	
					Total	1132.93

Cost per km. = 1132.93 lacs

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Superintending Engineer,
PMGSY Circle,
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checked and
sanctioned for
Rs. (981.58) lacs

13/11/09

PRADAN MANTRI GRAM SADAK YOJANA

ROAD PROPOSED IN PMGSY FOR RURAL CONNECTIVITY

CROSS DRAINAGE STRUCTURES.

Name of Scheme: Batoto to Chakwa
State: J&K

District:-Doda

Block : Ramban

PMGSY DIVISION RAMBAN

JK04-11-L028

S. No	Name of Block	Block Code	Name of Road	Village being connected	Population	Road Length	Existing CD structure by type						
1	2	3	4	5	6	7	8	9	10	11	12	13	
1	Ramban	JK04-11-L028	Batoto to Chakwa	Bandhera Barthal Kathri Ludhwal Forest Block Chakwa	241 376 353 638 973 729	10.00 km	-	-	-	-	-	-	
Details													
Details of proposed CD structures.													
		Hume Pipe Culverts		RCC Culverts		Scupper		Total Cost of CD structure		Total Cost from Format.		G. Total cost Lacs.	
		No.	Dia	No.	Span (mts)	No.	Length (M)	No.	Rate Rs/No.				
14		15	16	17	18	19	20	21			22		23
Qty	28	1000m		6@5.557=33.34 9@7.207=64.863 5@18.97=94.85	2 3 6	2	6	50					
Rates Rs.	1.582	-				3.429							
Amount in lacs.	44.29	-		193.05	-	6.85		244.20					

Cost per km. = 24.42 lacs

Assistant Engineer,
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PMGSY Circle,

Batote

PRADAN MANTRI GRAM SADAK YOJANA

ROAD PROPOSED IN PMGSY FOR RURAL CONNECTIVITY

Details of Proposed structure by type

Name of Scheme: Batote to Chakwa

State: J&K

District:-Doda

Block : Ramban

JK04-11-L028

PMGSY DIVISION RAMBAN

S. No.	Road (L)	New Const. / Upged. (use U/N)	Road Length (KM)	Detail	Hume Pipe Culvert	RCC Culvert	Retaining Wall	Breast Wall Length	Created Wall	Parapets	Edge wall Length	Scupper 6 m long	Bridge	Cause way 6+18m long	Total Cost of proposed structure	Total Cost of pavement structure from format F5	Total Cost of the road (18+19)		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	JK04 -11- L028	N	10	Qty.	28	1000	2	3	6	1695	1350	620	800	2	2	-			
			Amount			44.29		193.05	240.96	71.41	47.18		10.64	6.858	146.25		743.89	366.30	1110.19
															803.70		1170.00		

N=New connectivity

U= Up-gradation

Cost per km.= 117.00 lacs.

111.01

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PRADAN MANTRI GRAM SADAK YOJANA

COST ESTIMATE FOR : HILL RAOD CONSTRUCTION.

TYPE OF JOB: Earth work cutting/filling.

Name of Scheme: Batote to Chakwa Length=10.00 kms

State: J&K

District:-Doda

Block : Ramban

PMGSY DIVISION RAMBAN

JK04-11-L028

S. No	Description	Measurement	Unit	Qty	Rate	Amount (In lacs)
1						
a)						
b)						
2	Cutting of trees including cutting of trunks branches and removal of stumps. Lead upto 100m as per technical specification clause 201.	As per location chart i) 300-600mm With Ave. girths as ii) 600-900mm iii) 900-1800mm iv) 1800-2700mm v) 2700-4500mm vi) Above 4500mm	Each Each Each Each Each Each		82.56 141.54 283.05 542.48 1111.95 3285.00	
3	Dismantling of structures	As per location chart.	Each			
4	Earth work in Hill roads by mech. means	Qty as per chart = 7427.00 cum	Cum	7427.00	88.88	660
a)	All kinds of soil by mechanical means (Cutting)		Cum			3.74
b)	Ordinary rock by mechanical	All kinds of soil @ ave. 48.82%	Cum	109302.50	100.00	109.30
c)	Hard Rock by mechanical	Ordinary rock @ ave 28.24%	Cum	63236.24	172.00	108.76
		Hard Rock @ ave 22.92%	Cum	51320.35	276.00	141.64
			Total	223860.00		366.30 lacs
						363.64

Cost per km = 36.63 lacs.

36.36

Assistant Engineer,
PMGSY

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Executive Engineer
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Superintending Engineer,
PMGSY Circle,
Batote.

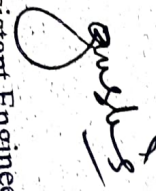
BHARAT NIRMAN

ABSTRACT OF QUANTITIES OF EARTHWORK

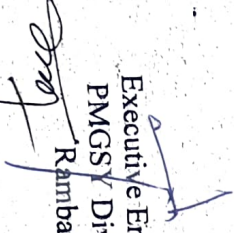
Name of Scheme: Batote to Chakwa

Rs. in Lac.

S.No.	Km.	Total Quantity	Bifurcation of quantities			Classification of E/Work				Amount (in lacs).
			All kind of soil Cum	Ordinary Rock cum	Hard Rock Cum	All kinds of soil %	Ordinary Rock %	Hard Rock %	Item Rate Rs. P	
1	1 st	11042.58	7456.50	1883.56	1702.46	67.52	17.05	15.41		
2	2 nd	13257.82	6703.23	3903.00	2651.55	50.56	29.44	19.99		
3	3 rd	20824.91	12255.15	4484.89	4084.42	58.85	21.53	19.61		
4	4 th	17702.52	9509.27	4804.16	3389.12	53.71	27.13	19.14		
5	5 th	18100.30	8005.60	5430.08	4664.58	44.22	30.55	25.76		
6	6 th	33039.70	12501.54	9911.89	10626.22	37.83	29.99	32.16		
7	7 th	26668.52	12868.76	7744.11	6054.97	48.25	29.03	22.70		
8	8 th	22919.36	12143.49	6875.90	3900.46	52.98	29.99	17.01		
9	9 th	27612.30	13698.75	8391.07	5522.41	49.60	30.38	19.99		
10	10 th	32691.97	14160.20	9807.58	8724.16	43.31	29.99	26.68		
	Total	223859.98	109302.49	63336.24	51320.35					


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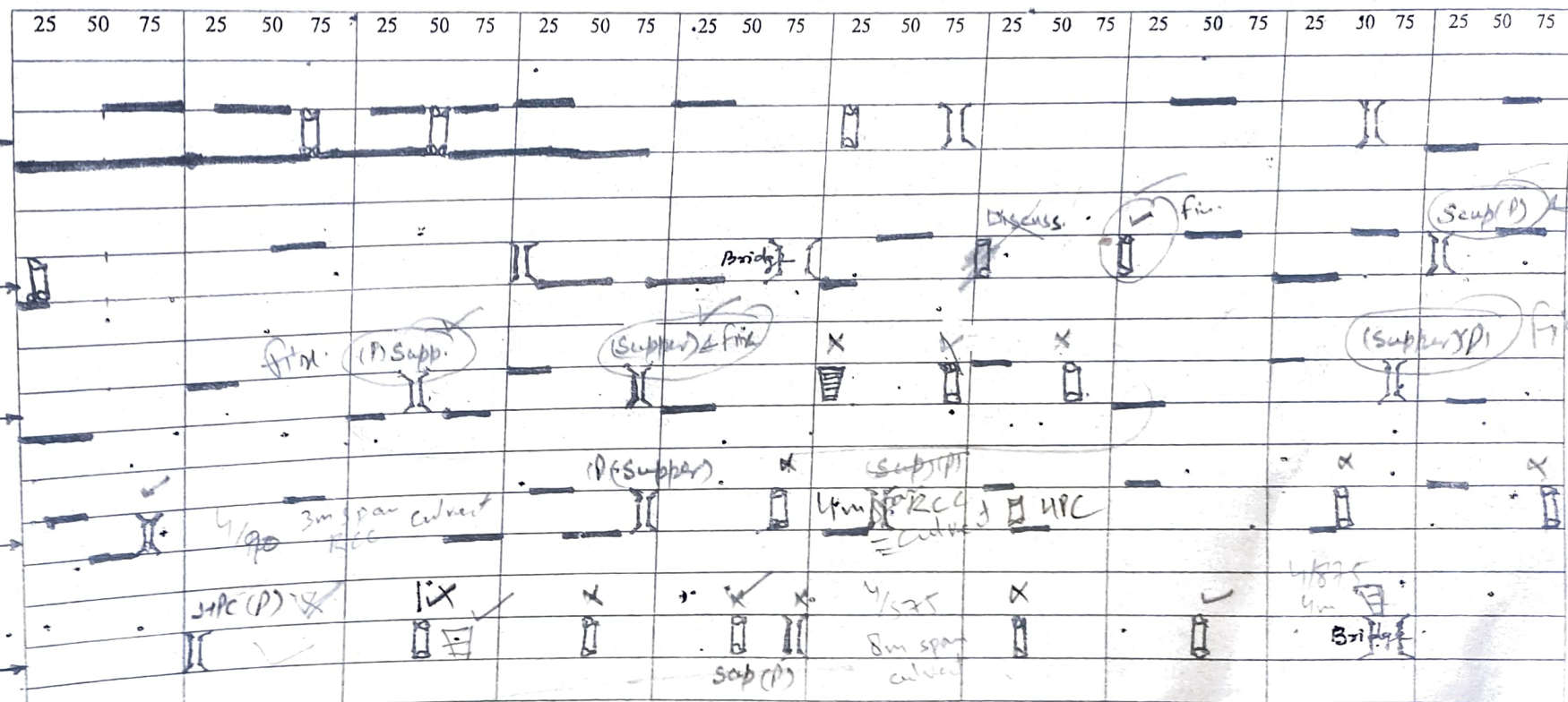
2/550 → NO CD
4/575 4m span PCK slab curved
de JK04 _____ over scupper
3/600 → 6m span PCK slab curved

1000

Up hill side
KM 5 A.
D. Hill Side

Bridges

Executive Engineer
PMGSY Division



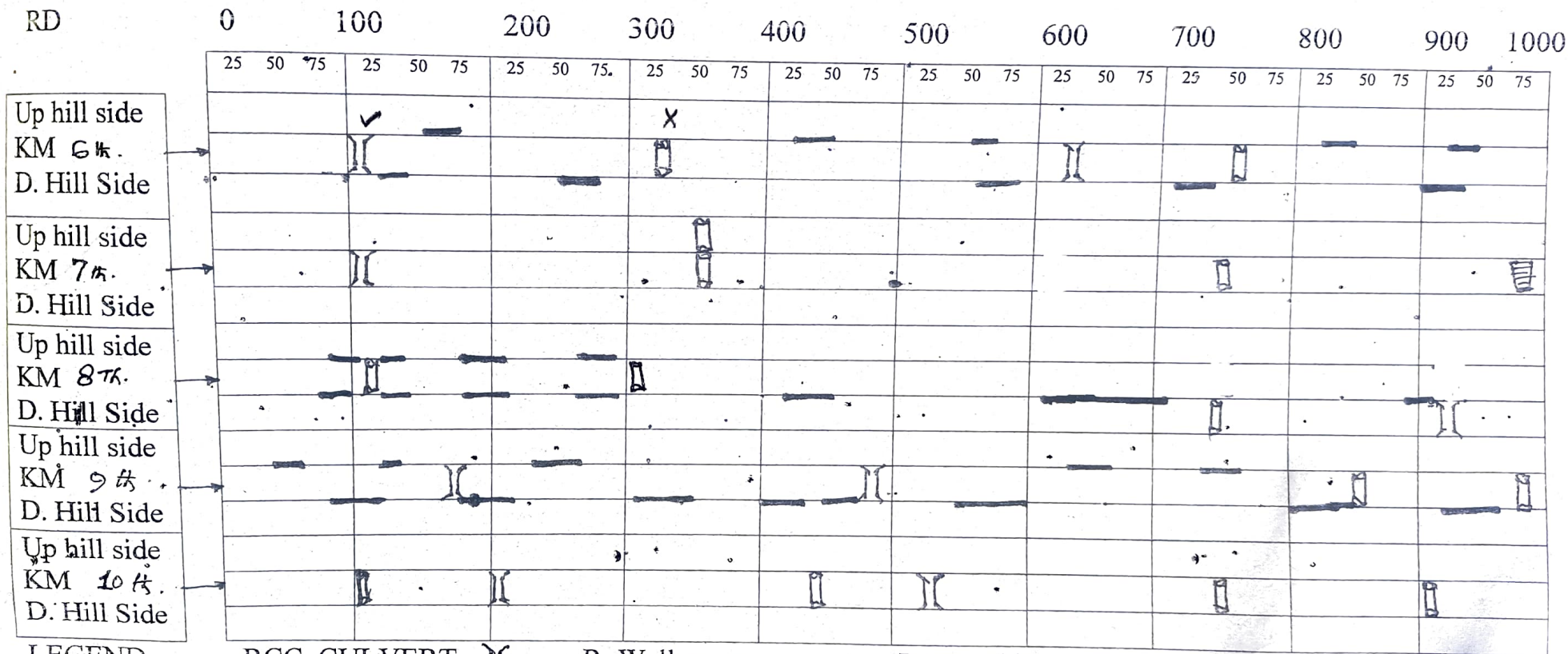
PRADHAN MANTRI GRAM SADAK YOJANA

Name of Scheme : Batote to Chakwa Road

State J&K Distt. Doda

PMGSY Div. Ramban

Code JK04_____



LEGEND

RCC CULVERT (I)

R. Wall (—)

Hume Pipe culvert (I)

B. Wall (—)

Scupper (U)

Bridge (I)

Prepared by

Suresh Kumar
AE PMGSY Div.
Ramban.

[Signature]

AEE

Executive Engineer
PMGSY Division
Ramban.