MUCK DISPOSAL PLAN

NAME OF THE PROPOSAL: CONSTRUCTION OF ROAD FROM BANI TO BILLAWAR VIA DAGGAR, DHAMAN AND DERI GALA UNDER CRF (PHASE-I)

Proposal No:- FP/JK/ROAD/121506/2021

Date of Proposal:- 03.02.2021

DETAIL OF MUCK / DEBRIS TO BE PRODUCED

S.No.	Description of Item	Quantity (Cum)
1	Total Quantity of muck to be produced from forest land during construction.	17040
2	To be used for soling of road, wearing of road and filling behind retaining walls of road (30% soil)	5112
3	To be used locally for construction of road (30% stone)	5112
4	Total Quantity to be used (2+3)	10224
5	Net Quantity to be dumped (1-4)	6816
6	Swell Factor 20%	1363
7	Total Quantity to be dumped (5+6)	8179

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Basohli

STATEMENT SHOWING DUMPING QUANTITY OF MUCK / DEBRIS TO E DUMPED WITH OTHER DETAIL FOR CONSTRUCTION OF ROAD FROM BANI TO BILLAWAR VIA DAGGAR, DHAMAN AND DERI GALA UNDER CRF (PHASE-I)

S.No.	Name of component from Muck / Debris is to be produced	Total Qty. of Muck / Debris to be produced (cum)	Qty. of Muck / Debris to be utilized locally (cum)	Qty. of Muck / Debris to be dumped (cum)	Factor of increase in volume for dumping	Qty. of Muck / Debris to be dumped on the basis of increase (cum)	Name of Dumping Places	Slope of Dumping Place	Location of Dumping Place	Distance of Dumping Place from River	Area of Dumping Place (Ha)	Area of Forest land involved in Dumping Place	Height of Muck Dump Expected	Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Formation cutting work of forest land.	17040	10224	6816	1.20	8179	Dumping site-1 TO 2	-	4/225 – 4/295	19	0.14 Ha.	0.14 Hc.	4 mtr. avg	

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LAYOUT PLAN OF MUCK DUMPING SITES

IMPLEMENTATION OF ENGINEERING MEASURES AT MUCK DUMPING SITES:

It has been observed that after disposal of muck, it creates problem as it is susceptible to scattering unless the muck disposal yards are supported with engineering measures such as protective walls. All the dumping sites need proper handling to avoid spilling of muck while dumping and in the post dumping stages. All the muck disposal sites have to be developed from the ground level either by providing stone masonary or by gabion structure. Gabbion Walls will be provided to support disposed muck. In all the muck dumping sites, the muck brought in by dumpers shall be dumped and manually spread and roller compacted in such a way that rock mass is properly stacked behind the Gabbions with minimum of voids.

Budget for Muck Disposal Plan :

An estimation has been made for Engineering measures of Muck disposal Plan at Rs 8.56 Lacs. Proposed Gabbion Drawing (copy enclosed)

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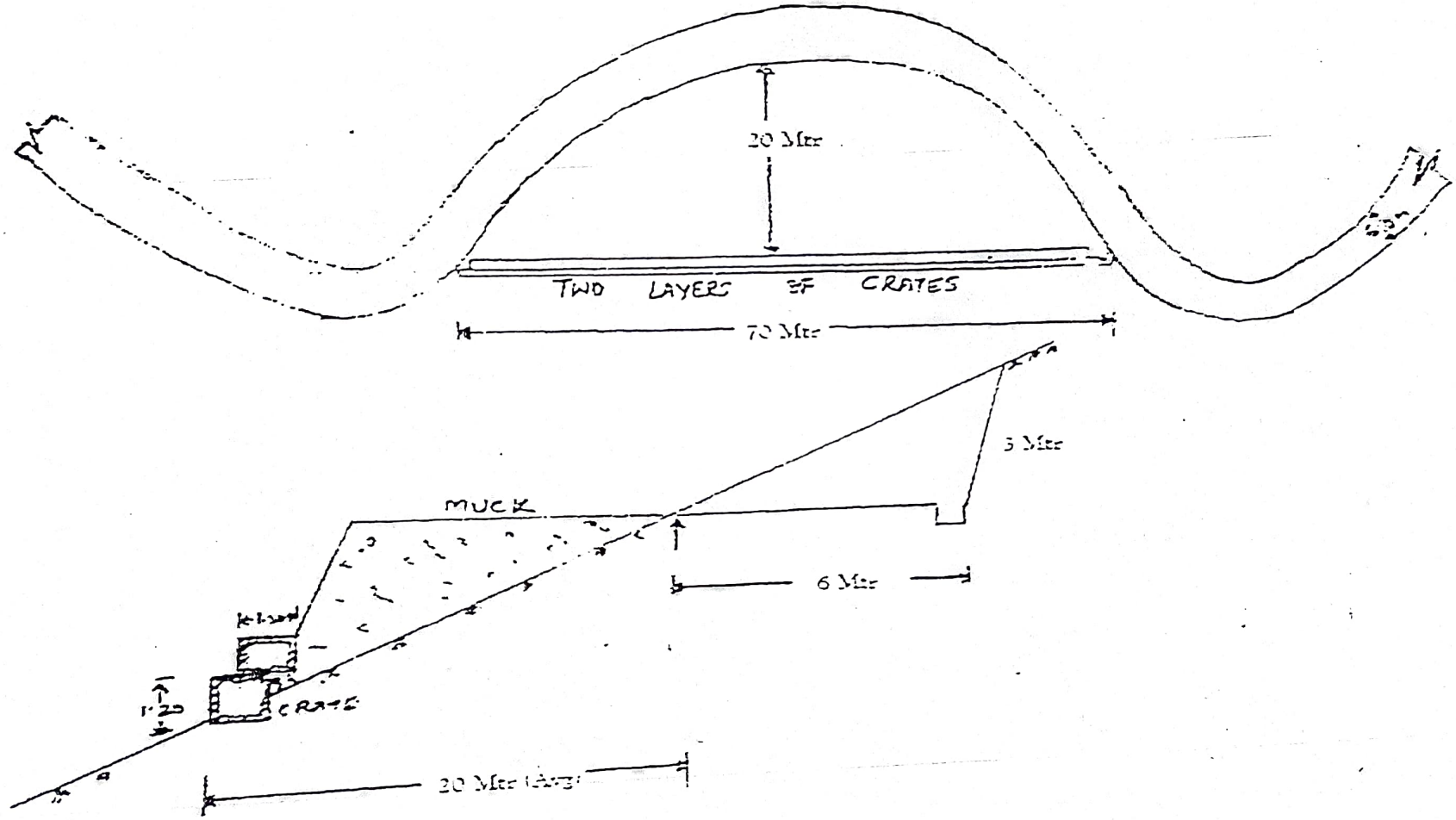
SITE PLAN AND X-SECTION FOR STABILAZATION OF MUCK/DEBRIS EXCAVATED IN FOREST AREA



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IDENTIFICATION OF MUCK DISPOSING SITES

Details of MUCK Dumping sites for the construction of road from Bani to Billawar via Dhaggar, Dhaman 7 Deri Galla under CRF Phase 1st. Are as under:

S No.	LOCATION	STATUS OF LAND	LENGTH (in m)	WIDTH (in m)	AREA (in Ha)	REMARKS
1	RD 4/225	Forest Land	70	20	0.14	Shown in GPS Map

Most of the excavated earth between RD 1/175 to 1/445 and RD 3/750 to 6/000 will be utilized by way of filling deep irregularities in the road alignment to make the surface ride able and to fill behind the culvert abutment, R/walls which are required to be constructed on uphill/downhill side of the road. More over hard rock portion of the excavated earth will be utilized in the construction of R/wall, B/walls.

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STATEMENT SHOWING COMPLETE DETAILS FOR THE CONSTRUCTION OF ROAD FROM BANI TO BILLAWAR VIA DAGGAR DHAMAN AND DERI GALA UNDER CRF (PHASE-I)

S NO.	RD		Distance in Mtr.			Width of Right of way(m)	Area of road		Total area of forest land (Ha)	Name of village	Qty of Muck to be Produced	Qty of Muck to be utilized locally	Swelling Factor	Qty of Muck to be dumping in dumping places
	From	To	Forest land (m)	Non Forest land (m)	Total (m)		Forest land (sq m)	Non Forest land (sq m)						
1.	1/175	1/400	267	0	267	9	2403	0	1.505	Malad	17040	10224	1.20	8179
2.	3/750	5/000	1250	0	1250	9	11250	0						
3.	Dumping sites 1		70	0	70	20	1400	0						
Total							15053		1.505					

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STATEMENT SHOWING DETAIL OF PLACES FOR DISPOSAL OF MUCK/DERBIS DUE TO CONSTRUCTION OF ROAD FROM BANI TO BILLAWAR VIA DAGGAR, DHAMAN AND DERI GALA UNDER CRF (PHASE-I)

S No	Location of Dumping Place	Length, width of Dumping Place (Area in sqm)	Height of dump Expected (m)	Quantity of muck that can be Disposes (cum)
(1)	(2)	(3)	(4)	(5)=(3) x (4)
1	4/225 - 4/295	70 x 20 =1400	4	4860
Total				4860

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Model Plan related to Engineering measure for Stabilization of MUCK Dumping Site in Forest Area

Typical Estimate for construction of Crates Wall to protect Dumping sites for surplus Muck/Excavated material in forest area as per Engineering Measures.

Taking length of Crated wall = 70 mtr.

Trench Excavation in Dense soil for Structures =1 x 70 x 1.4 mtr x 0.60 mtr

= 58.80 cum @ Rs. 363/cum

= Rs. 21344.00

For Two layer Crated wall quantity =2 x 11 x 1.20 x 1.20 = 190.08 cum @ Rs 2140/cum = Rs. 4067771/-

Total Amount for 70 mtr Two Layer Crated wall = Rs. 428115/-

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