

### Muck Management Plan

**Name of work: - Construction of link road from Upper Jamli Baron to Kathana km. 0/0 to 6/700.**

1.	Total quantity of muck to be generated from cutting	124890 m <sup>3</sup>
2.	Deduction of useful stone as required under clauses of agreement to be executed by the Executive Engineer of Project implementing Unit division on behalf of Govt. of H.P. for suing in the project.	18733 m <sup>3</sup>
3.	Net balance quantity of debris/muck	106157 m <sup>3</sup>
4.	Add quantity available on site with swell factor @ 25% on PW & JW	26539 m <sup>3</sup>
	<b>Total (A)</b>	<b>132696 m<sup>3</sup></b>
5.	Less for materials required for dumping in behind R/wall etc. @10% of A	13277 m <sup>3</sup>
6.	Less for materials required for levelling of proposed road @ 15% of A	19904 m <sup>3</sup>
7.	Less materials/muck required for levelling/filling of road on the analogy of half cutting and half fittings @ 40% of A	53078m <sup>3</sup>
	<b>Total (B)</b>	<b>86259m<sup>3</sup></b>
8.	Materials/Muck left at site which will require carriage for proper dumping into the recognized sites as per the illustration of forest and environment Ministry reinforced by various judgment of the Apex court Govt. of India i.e. (A-B)	46437m <sup>3</sup>
9.	Design proposed for dumping sites (attached)	6 Nos
10.	Total capacity of dumping sites as per details attached	47775 m <sup>3</sup>
11.	Area in hectare for dumping sites. i. Forest area ii. Non forest iii. Total	1.456 hect. 3.798 5.254 hect

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**Details of dumping sites.**

**MUCK MANAGEMENT**

SR. No	Name of dumping site	RD/KM	Area coming under dumping				Capacity of dumping sites.
			Forest area	Private Shamlat	Non Forest Area	Total	
1.	Dumping site NO. 1	1/090 to 1/195		0.21		0.21	11288 m <sup>3</sup>
2	Dumping site NO. 2	1/600 to 1/675		0.15		0.15	7387 m <sup>3</sup>
3	Dumping site NO. 3	4/840 to 4/915			0.15	0.15	7725 m <sup>3</sup>
4	Dumping site NO. 4	5/690 to 5/750	0.15			0.15	8062 m <sup>3</sup>
5	Dumping site NO. 5	6/060 to 6/100	0.10			0.10	5400 m <sup>3</sup>
6	Dumping site NO. 6	6/495 to 6/555	0.15			0.15	7913 m <sup>3</sup>
Total :-			0.40	0.36	0.15	0.91	47775 m <sup>3</sup>


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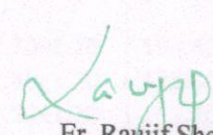
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**Detail showing the capacity of dumping sites.**

Sr. No	Name of dumping site	RD/KM	X-sectional area of dumping site	Length	Quantity/ Capacity
1	Dumping site NO. 1	1/090 to 1/195	107.50 SQM	105	11288 m3
2.	Dumping site NO. 2	1/600 to 1/675	98.50 SQM	75	7387 m3
3	Dumping site NO. 3	4/840 to 4/915	103.00 SQM	75	7725 m3
4	Dumping site NO. 4	5/690 to 5/750	134.37 SQM	60	8062 m3
5	Dumping site NO. 5	6/060 to 6/100	135.00 SQM	40	5400 m3
6	Dumping site NO. 6	6/495 to 6/555	131.88 SQM	60	7913 m3
		Total :-			47775 m3

  
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# Detail of Measurement

Name of work **Construction of link road from Upper Jamli Baron to Kathana km. 0/0 to 6/700.** (SH: Construction of wire crates for dumping sites)

Sr. NO	Description	No. L x B x H	Quantity in cum
1	Providing and laying of boulder apron laid on wire crates with 4mm dia wire confirming to 1:5:280 and 1:5:4826 in 100mmx100mm mesh (woven diagonally) including 10% extra for lapse & joints laid with stone boulders weighing not less than 25 kg each. Dumping Site No. 1 RD. 1/090 to 1/195 1 <sup>st</sup> layer 2 <sup>nd</sup> layer 3 <sup>rd</sup> layer 4 <sup>th</sup> layer 5 <sup>th</sup> layer	1x105x2.70x1.20 1x105x2.40x1.20 1x105x2.10x1.20 1x105x1.80x1.20 1x105x1.50x1.20	340.00 m3 302.40 m3 264.60 m3 226.80 m3 189.00 m3
	Dumping site No. 2 RD 1/600 to 1/675 1 <sup>st</sup> layer 2 <sup>nd</sup> layer 3 <sup>rd</sup> layer 4 <sup>th</sup> layer 5 <sup>th</sup> layer	1x75x2.70x1.20 1x75x2.40x1.20 1x75x2.10x1.20 1x75x1.80x1.20 1x75x1.50x1.20	243.00 m3 216.00 m3 189.00 m3 162.00 m3 135.00 m3
	Dumping site No. 3 RD 4/840 to 4/915 1 <sup>st</sup> layer 2 <sup>nd</sup> layer 3 <sup>rd</sup> layer 4 <sup>th</sup> layer 5 <sup>th</sup> layer	1x75x2.70x1.20 1x75x2.40x1.20 1x75x2.10x1.20 1x75x1.80x1.20 1x75x1.50x1.20	243.00 m3 216.00 m3 189.00 m3 162.00 m3 135.00 m3
	Dumping site No. 4 RD 5/690 to 5/750 1 <sup>st</sup> layer 2 <sup>nd</sup> layer 3 <sup>rd</sup> layer 4 <sup>th</sup> layer 5 <sup>th</sup> layer	1x60x2.70x1.20 1x60x2.40x1.20 1x60x2.10x1.20 1x60x1.80x1.20 1x60x1.50x1.20	194.40 m3 172.80 m3 151.20 m3 129.60 m3 108.00 m3
	Dumping site No. 5 RD 6/060 to 6/100 1 <sup>st</sup> layer 2 <sup>nd</sup> layer 3 <sup>rd</sup> layer 4 <sup>th</sup> layer 5 <sup>th</sup> layer	1x40x2.70x1.20 1x40x2.40x1.20 1x40x2.10x1.20 1x40x1.80x1.20 1x40x1.50x1.20	129.60 m3 115.20 m3 100.80 m3 86.40 m3 72.00 m3
	Dumping site No. 6 RD 6/495 to 6/555 1 <sup>st</sup> layer 2 <sup>nd</sup> layer 3 <sup>rd</sup> layer 4 <sup>th</sup> layer 5 <sup>th</sup> layer	1x60x2.70x1.20 1x60x2.40x1.20 1x60x2.10x1.20 1x60x1.80x1.20 1x60x1.50x1.20	194.40 m3 172.80 m3 151.20 m3 129.60 m3 108.00 m3
			5228.80 m3

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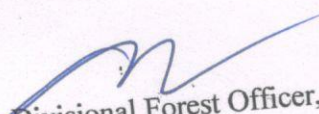


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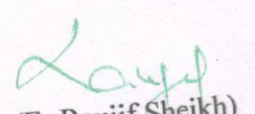
**PURPOSE WISE BREAK UPTO TOTAL LAND REQUIRED FOR  
CONSTRUCTION OF LINK ROAD from Upper Jamli Baron to Kathana km. 0/0  
to 6/700.**

SR. No	Description	Total land required (Hect)	Private Land required (Hect.)	Private shamlat land (hect.)	Forest land required (hect).
1.	<b>Construction of link road from Upper Jamli Baron to Kathana km. 0/0 to 6/700.</b>	5.254	1.593	2.205	1.456
2	For dumping site RD. 1 1/090 to 1/195			0.21	
3	For dumping site RD. 2 1/600 to 1/675			0.15	
4	For dumping site RD. 3 4/840 to 4/915		0.15		
5.	For dumping site RD. 4 5/690 to 5/750				0.15
6	For dumping site RD. 5 6/060 to 6/100				0.10
7	For dumping site RD. 6 6/495 to 6/555				0.15
			0.15	0.36	0.40

Total land for road construction = 4.344 Hect.  
Total land for dumping site = 0.91 Hect

  
Divisional Forest Officer,  
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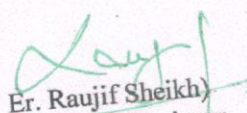
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### ABSTRACT OF COST

Name of work:- **Construction of link road from Upper Jamli Baron to Kathana km. 0/0 to 6/700.** (SH: Construction of wire crates for dumping sites)

Sr. NO	Sub Head and Item of work	Qty	Rate	Unit	Amount
1	Providing and laying of boulder apron laid on wire crates with 4mm dia wire confirming to 1:5:280 and 1:5:4826 in 100mmx100mm mesh (woven diagonally) including 10% extra for lapse & joints laid with stone boulders weighing not less than 25 kg each	5228.80 cum	1857.10	Per Cum	9710404
Total :-					9710404

  
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