

**FULL TITLE OF PROJECT :- CONSTRUCTION OF KANGRI TO JEGHALI ROAD VIA
JARAL KM.0/00 TO 2/800.**

File No. :- FP/HP/ROAD/52156/2020


Date of Proposal :- 27-10-2020

DETAIL OF MUCK /DEBRIES TO BE PRODUCED

**Name Of Work:- CONSTRUCTION OF KANGRI TO JEGHALI ROAD VIA JARAL
KM.0/00 TO 2/800. TO BE CONSTRUCTED IN DISTRICT MANDI STATE HIMACHAL
PRADESH.**

Detail of quantity to be produced and used during the construction of road

Sr. No.	Description of items	Quantity
	Total quantity to be produced during construction	23856.00
1	To be used for soling of road (6.5%), wearig of road (6.5%) and filling behind retaining walls of road (20%) total (33%)	7872
2	To be used for local use for construction of road average (total 33%)	7872
3	Total Quantity to used (2+3)	15744
5	Net quantity to be dumped (3-(1+2))	8112.00
6	Soil factor 40%	3245
	G-Total (4+5):-	11357.00


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PROFORMA-III (REFER ITEM-8)

**STATEMENT SHOWING DUMPING QUANTITY OF MUCK/DEBRIS TO BE DUMPED WITH OTHER DETAIL FOR PROJECT CONSTRUCTION OF KANGRI
TO JEGHALI ROAD VIA JARAL KM.0/00 TO 2/800. IN DISTRICT MANDI**

Sr. No.	Name of component from Muck/Debris is to be produced	Total Qty. of Muck/Debris to be produced (000M3) (in Cum)	Qty. of Muck/Debris to be utilized locally (000M3) (in Cum)	Qty. of Muck/Debris to be Dumped on compact basis (000M3) (in Cum)	Factor of increase in Vol. for Dumping (in Cum)	Qty. of Muck/Debris to be Dumped on basis of increase (000M3) (in Cum)	Name of dumping places	Slop of dumping place	Location of Dumping place, Police Station & Nearby road	Distance of dumping place from river (In KMS)	Area of dumping place with Length and Breadth (In hect)	Area of forest land out of land in Column-10 (In hect)	Height of Muck/Debris dump expected (Vol. Area) (in mtrs.)	Remarks
1	2	3	4	5	6	7	8	14	10	11	12	13	14	15
1	Formation cutting work	23856.00	66% = 15745.00	34% = 8111.00	1.40	11355.00	DPF Gairu, jaral	1H : 3V			0.1618	1.6676	7.98	


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ANNEXURE-"B-1"


PERFORMA-V

STATEMENT SHOWING DETAIL OF PLACES FOR DISPOSAL OF MUCK DEBRIS OF CONSTRUCTION OF KANGRI TO JEGHALI ROAD VIA JARAL KM.0/00 TO 2/800. TO BE CONSTRUCTED IN DISTRICT MANDI STATE HIMACHAL PRADESH.

Sr. No.	Name of dumping places	Location of Dumping place i.e. village Kharsa No.	Slope of dumping place	Length and width (in mtrs.) and Area of Dumping place (in sqm.)	Quantity of muck/Debris to be dumped [in 1000 cum]	Height of durnping expected.	Remarks (Area in bigha)
1	1st Dumping Place : DPF Gairu	RD 1/695 to 1/885 Khasra No.18/2	1:7	40.5 x 20 = 810 Sqm	5702.40	7.04	0.081
2	2nd Dumping Place :Jaral	RD 2/125 to 2/515 Khasra No.496/3	1:7	40.4 x 20 = 808 Sqm	5656.00	7.00	0.0808
			Total:-	0.1618	11358.40		0.1618

Say 0.1618 Hect.


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RECLAMATION PLAN FOR MUCK DUMPING

Dumping side RD1/695 to 1/885 , 2/125 to 2/515 in Khasra No. 18/2, 496/3 the muck debris excavated during the construction of Kangri to Jeghali Road will be 11357 cum. After leveling, dumping site will be rehabilitated by planting OBL plants. The reclamation plan for the dumping sites is prepared as under.

Year	Area	Rate/Ha.	Total Amount
0th Year (Plantation+Fencing)	0.2428	60150	14604.42
1th Maint.	0.2428	6350	1541.78
2th Maint.	0.2428	4300	1044.04
3th Maint.	0.2428	2250	546.3
4th Maint.	0.2428	2250	546.3
5th Maint.	0.2428	2250	546.3
6th Maint.	0.2428	2250	546.3
7th Maint.	0.2428	2250	546.3
8th Maint.	0.2428	2250	546.3
9th Maint.	0.2428	2250	546.3
10th Maint.	0.2428	2250	546.3
Total C.A Scheme			21560.64
Departmental charges @ 17.5%			3773.112
Contingency charges @ 5%			1078.032
Total			26411.784
GST for the cost of F/Post 13800@ 18%			2484.00
Nsy cost for plants 838 @23/-			19274.00
Grand Total			48169.78


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Financial Components For The Material Required To Be Filled To The Recognised Dumping Sites.

Carriage of excavated material required hauling for dumping at the proposed site.		Net Quantity to lift Cum.	Rate of carriage Cum.	Amount.
1	Average lead = 2 Km.	14554	15.87	230971.98
2	Unit cost of carriage Rs. Per cum.			
3	Rate of carriage = Average lead x Unit cost			
C/O Retaining structure for dumping sites (Dumping site cost appended)		Sr. No.	Dumping site No.	Amount.
		1	2	1245640.00
			Total -	1245640.00
		Total Cost of Dumping the muck (1+2) (Rs.)		1476611.98

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[Signature]
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**Consumption of Material
SH: Construction of Dumping Sites**

Sr. no	Description of item	Qty.	Unit	Unit Special Gelatine 80%		Electric Detonator		S.F Coil	
				Rate	Qty.	Rate	Qty.	Rate	Qty.
	Formation cutting								
	Cutting in Earth work								
I	Pick work	6464.74	P/Cum	0.00	0.00	0.00	0.00	0.00	0.00
II	Jumper work	7094	P/Cum	0.00	0.00	0.00	0.00	0.00	0.00
III	Blasting work	2212.32	P/Cum	0.00	0.00	0.00	0.00	0.00	0.00
IV	Hard Rock	2212.32	P/Cum	10.00	22123.2	1.38	3053.00	0.00	0.00
	Total				22123.20		3053.00		0.00


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**Consumption of Material
SH: Construction of Dumping Sites**

Sr.no	Description of item	Qty.	Unit	Cement in Tonne		Sand in Cum		Agg. 40mm in Cum		Boulder in Cum		G.I. Wire	
				Rate	Qty.	Rate	Qty.	Rate	Qty.	Rate	Qty.	Rate	Qty.
1	Boulders	74.7	Cum	0.00	0.00	0.00	0.00	0.00	0.00	1.00	74.7	0.00	0.00
2	GI wire 4 mm Dia	74.7	Sqm	0.00	0.00	0.00	0.00	0.00	0.00	0.00		11.37	849.34
			Total	0.00	0.00	0.00	0.00				74.70	11.37	849.34

0.85
Tonne


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**Extra cost Material
SH: Construction of Dumping Sites**

Sr.No.	Description of item	Qty.	Unit	Rate as per HPSR	Market Rate/Stone issue rate	Difference	Amount
1	Special Gelatine	862.8	Kg	73.00	80.00	5.00	4314.00
2	Electric Detonator	3054	Nos	7.00	25.00	18.00	54972.00
3	S.F Coil			0.00	0.00		
						Total	59286.00


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**Extra cost Material
SH: Construction of Dumping Sites**

Sr.No.	Description of item	Qty.	Unit	Rate as per HPSR 2009	Market Rate/Stone issue rate	Difference	Amount
1	Boulders	14.94	Cum	300.00	700.00	400.00	5976.00
2	GI wire 4 mm Dia	170	Kg	60.00	100.00	40.00	6800.00
						Total	12776.00


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**Extra Carriage Material
SH: Construction of Dumping Sites**

Sr.No.	Description of item	Qty.	Unit	Rate	Amount
1	Carriage of earth/muck from site of work to dumping site as per Muck Management Plan	8022	Kg	15.90	127549.80
				Total	127549.80


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**Extra Carriage Material
SH: Construction of Dumping Sites**

Sr.No.	Description of item	Qty.	Unit	Rate	Amount
1	Boulders	14.94	Kg	178.16	2661.71
2	GI wire 4 mm Dia	0.17	Tonne	268.70	45.68
				Total	2707.39


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ABSTRACT OF COST

Sr.No.	Description of item	Qty.	Unit	Labour Rate	Amount	Through Rate	Amount
1	Earth work in excavation for structure as per drawing and technical specifications clause 305.1 including setting out, construction of shoring and bracing, removal of stumps and other deleterious materials and disposal upto a lead of 50.00 mtr., dressing of sides and bottoms and back filling in trenches with excavated suitable materials. Ordinary soil upto 3.00 metres depth.	1.5434	per Cum	128.15	197.79	128.15	197.79
2	Providing and laying boulder apron laid in wire crates with 4 mm dia G.I. wire conforming to IS: 4826 in 100x100 mm mesh (woven diagonally) including ten percent extra for laps and joint laid with stone boulder weighing not less than 25 Kg each as per drawing and technical specification clause 1301.	24.92	per Cum	125.15	3118.74	1458.40	36343.33
				Total	3316.52		36541.11
	Add labour enhancement 100% on labour rate						3316.52
	Add Extra carriage of material					Total	39857.64
	Add extra cost of material						13536.95
							63880.00
						G. Total	117274.59


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