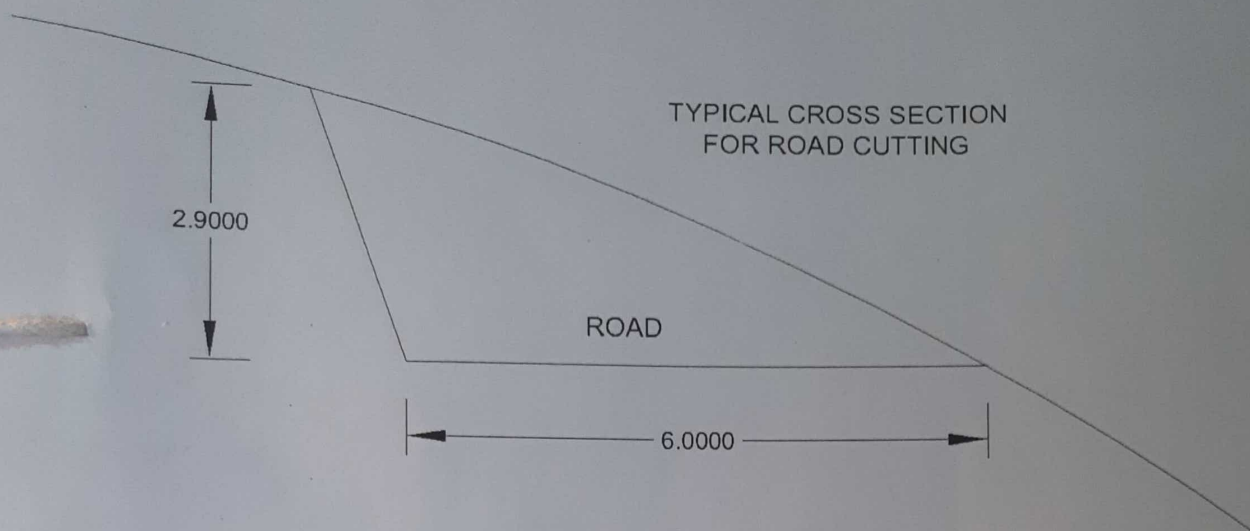


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NAME OF WORK: C/O LINK FROM REOG TO GALANGHATTI VIA DAWALA KM 0/000 TO 8/050

PROPOSAL/FILE NO: \_\_\_\_\_

**MUCK MANAGEMENT PLAN**



Average Width of Road = 6 meters

Area of Road Cut Cross Section = 8.70 Sqm

Total Length of Road = 8050 meters (5675 meters in Forest Land & 2375 meters in Private Land)

Total Quantity of Excavation = 70036 Cum

Sr. No.	Particulars	Unit	Quantity
1.	Total Excavation	Cum	70036
2.	Deduction for useful stones @ 20%	Cum	14007
3.	Net Balance Qty of Debris/Muck	Cum	56029
4.	Qty. Available at Site with Swell Factor 45%	Cum	81242
<b>Detail of Muck to be Utilized in Project Construction:</b>			
5.	Material / Muck Required for Levelling of Proposed Road @ 15% of 81242 Cum	Cum	12186
6.	Material/Muck Required for construction of Proposed Road on Road Cut & Filling Analogy @ 30% of 81242 Cum	Cum	24373
7.	Net Material to be Dumped at Dumping Sites. (4-(5+6))	Cum	<b>44683</b>

**Location of Dumping Sites: (Capacity Calculations & Detail Attached)**

1. At RD 1/600 (DPF Dhawala) – On Proposed Road with Capacity of Upto 23157 Cum
2. At RD 3/325 (DPF Dhawala) – On Proposed Road with Capacity of Upto 23157 Cum
3. At RD 7/670 (DPF Jadoon) – On Proposed Road with Capacity of Upto 23157 Cum

**Total Dumping Capacity = 69471 Cum**

*(Sahil Rama)*  
**Assistant Engineer**  
**Thanedhar Sub-Division**  
**H.P.P.W.D. Thanedhar**

*(Manoj Sehgal)*  
**Executive Engineer**  
**Kumarsain Division**  
**H.P.P.W.D., Kumarsain**

*(Raj Kumar, H.P.F.S.)*  
**Divisional Forest Officer**  
**Kotgarh Forest Division, H.P.**

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DETAIL OF WIRE CRATE AND ABSTRACT FOR CONSTRUCTION OF DUMPING SITE

Sr. No.	Item of Work	Nos.	Length	Width	Height	Quantity	Rate	Amount
1	Excavation/ Earthwork	3	62	1.25	0.6	139.50 Cum	371	51755
2	P/L Boulder Apron in Wire Crates							1419552
	1 <sup>st</sup> Layer	1 x 3	62	1.20	1.20	267.84 Cum		
	2 <sup>nd</sup> Layer	1 x 3	62	1.20	1.20	267.84 Cum		
					Total	535.68 Cum	2650	
								1471307
								147131
								1618438

Add 10% on Account of Rehabilitation of Dumping Site

Grand Total (Rupees)

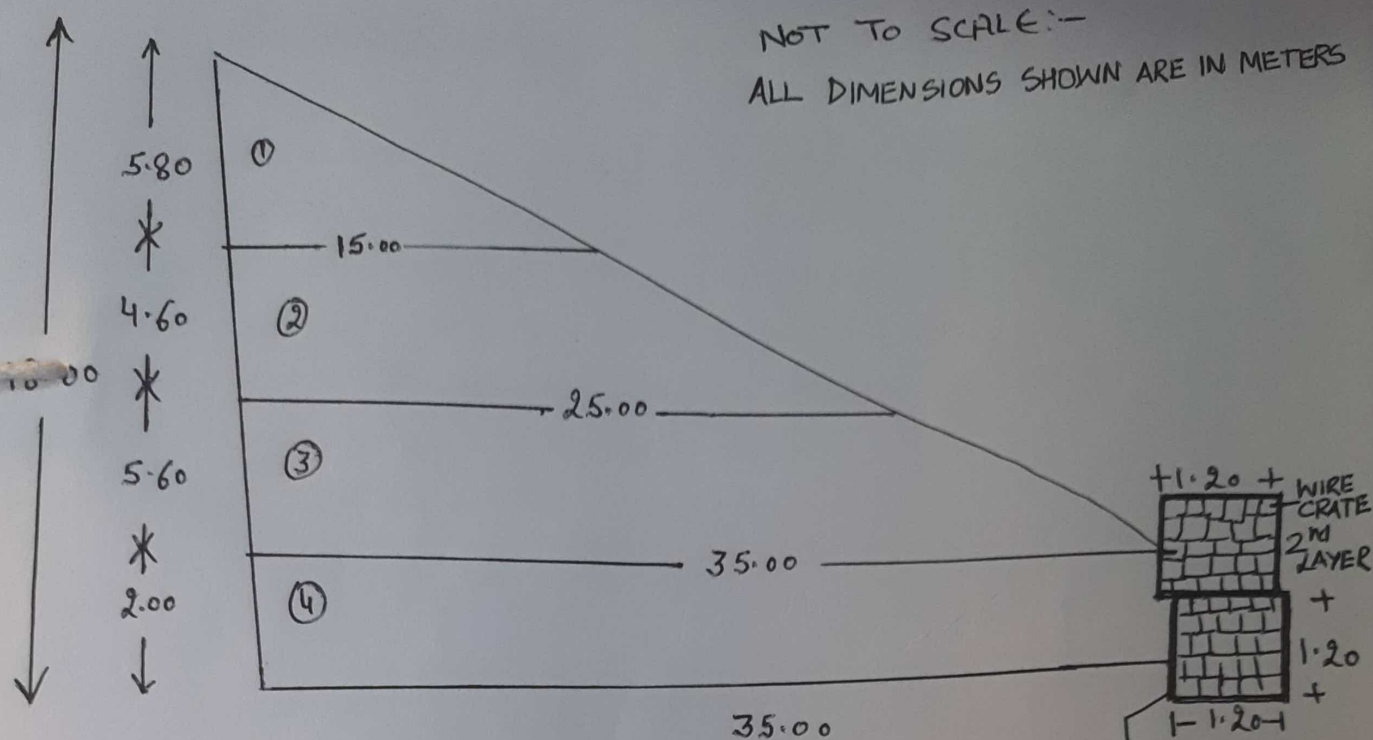
*(Rohit Rana)*  
Assistant Engineer  
Thanedhar Sub- Division  
HPPWD Thanedhar

*(Manoj Sehgal)*  
Executive Engineer  
Kumarsain Division  
H.P.W.D., Kumarsain



NAME OF WORK: → C/O LINK ROAD FROM REOG TO DHAWALA GALANHATI  
1 KM 0/000 TO 8/050

## DETAIL OF DUMPING SITES AND RETAINING STRUCTURES



DUMPING AREA: →

$$\begin{aligned} \textcircled{1} & \frac{1}{2} \times 15.00 \times 5.80 = 43.50 \text{ m}^2 \\ \textcircled{2} & \frac{15.00 + 25.00}{2} \times 4.60 = 92.00 \text{ m}^2 \\ \textcircled{3} & \frac{25.00 + 35.00}{2} \times 5.60 = 168.00 \text{ m}^2 \\ \textcircled{4} & 35.00 \times 2.00 = 70.00 \text{ m}^2 \\ \text{TOTAL} & = 373.50 \text{ m}^2 \end{aligned}$$

$$373.50 \times 62.00 \text{ MT (Avg Length)} = 23157.00 \text{ m}^3 \times 3 \text{ Nos Dumping Site} \\ = 69471.00 \text{ Cum.}$$

∴ TOTAL CAPACITY OF ALL 3 NOS. DUMPING SITES = 69471 CUM.

Location of Dumping Site: →

- ① Dumping Site at RD 1/600 (DPF Dhawala) - AT PROPOSED ROAD
- ② Dumping Site at RD 3/325 (DPF Dhawala) - AT PROPOSED ROAD
- ③ Dumping Site at RD 7/670 (DPF Jadoon) - AT PROPOSED ROAD

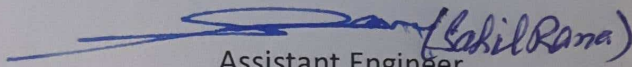
(Raj Kumar, HPFS)  
Divisional Forest Officer  
Kotgarh Forest Division, H.P.

(Sahil Rana)  
Assistant Engineer,  
Thanedhar Sub-Division  
HPPWD Thanedhar.

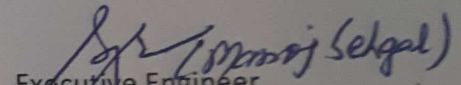
(Manoj Selgal)  
Executive Engineer  
Kumarsain Division  
H.P.W.D., Kumarsain

Justification for Locating Dumping Sites in Forest Land

The quantum of Forest Land required as dumping sites is 00-65-08 hectares for the construction of Link Road Reog to Galanghatti via Dawala KM 0/000 to 8/050. The land owners of the area majorly have very less amount of land holding and belong to economically weaker section and thus are unable to donate their land for the construction of this road. Moreover, the private individuals who have larger land holding have already donated their land for this road project. Therefore there was no other option than utilizing forest land for dumping purpose, in order to provide road facilities to the local public.

 (Sahil Rana)

Assistant Engineer  
Thanedhar Sub Division  
HPPWD Thanedhar

 (Manoj Selgal)

Executive Engineer  
Kumarsain B&R Division  
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