

Cost Benefit Ratio chart

कार्य का नाम :- राज्य योजना के अर्न्तगत जनपद उत्तरकाशी में डुण्डा-धनारी
-सेम मुखेम मोटर मार्ग का पटूडी से आगे सेम नागराजा मन्दिर
तक मोटर मार्ग का विस्तार कार्य प्रथम चरण(लम्बाई 10 किमी)
हेतु वनभूमि हस्तान्तरण प्रस्ताव 8.803 है0

S.NO	Particulars	Amount in Rs.	Remark
1	Total cost(Investment incurred)		
A	Construction cost of Project	35700000.50	
B	N.P.V Amount to be disposed @ 9.39 lak/Hararc for 7.003x 9.39	6575817	
C	Substitual/alternation cost to be disposd -@50600 per Hecr.for 7.003x2x50600 Hecr=708703.00	708703.00	
	Total	7284520.00	
2	Benefits from 31.71 km (taking age of road as 50 year		
A	Economics benefits – market Development taking 31.71 km road after construction of Bhagirathi to nagaii) for army purpose		
B	Direct employment of labours @rs 522026.00 consumed for maintenance of above road.		
C	Empoyement generation due to other activities like transporatation market development etc.	NA	Army Purpose
	Total Cost of Benefit Ratio 630.86/1087.20	NA	Army Purpose
Note	Ther fore construction of Economically viable and bencfical.	YES	

वन क्षेत्राधिकारी
डुण्डा वनराजि
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S.No	Material received from hill side As pr attached detail measurement sheet			26550	Cum			
	TOTAL			26550	Cum			
Disposal and Use of Material								
1	R.R Stone Masonary laid in 1:6			1000.00	Cum			
2	R.R Stone Masonary laid in dry			1500.00	Cum			
3	Hand packed stone filling			2000.00	Cum			
4	Contruccion of wire create			135.00	Cum			
5	Making of edge tone			60.00	Cum			
6	contruction of parapet			295.00	Cum			
7	construction of scupper			567.00	Cum			
8	Granular sub-base /bae/surface			5300.00	Cum			
9	Material used for filling and grade maintaining			300	Cum			
	Total Used			11157.00	Cum			
10	Material Disposal by cartage in dumping yard			15393.00	Cum			
	20% for Swell factor			3078.60	Cum			
	Total Material Disposal by cartage in dumping yard			18471.60	Cum			
Location & Quantity of Dabries Disposal								
Location of Dumping Yard	Size of Dumping yard			Type of Land	Capacity of Dumping yard Cum	Unit	Remark	
Xs	Length	Width	Hight					
Khud side of Road in Km 0/26 -0/28	60	30	4	Resurv Forest Land	7200	Cum	PRIVATE LAND	
Khud side of Road in Km 1/36 -1/38	60	30	4	Resurv Forest Land	7200	Cum		
Khud side of Road in Km 2/23 -2/25	60	30	3	Resurv Forest Land	5400			
	Total				19800	Cum		
SUMMARY OF DABRIE DISPOSAL								
S.No	Total Dabries			Material Disposal by Cartage	Reused Material for road construction	Total Diposal in Dumping Zone	capacity of dumping yard	Baiance Dabrie (+/-)
1	18471.60			18471.60	11157.00	18471.60	19800	58.10

सहायक अभियन्ता
प्रा० ख० लो० नि० वि०
उत्तरकाशी

वन क्षेत्राधिकारी
डुण्डा वनसंजि
उत्तरकाशी वन प्रभाग

अधिशाली अभियन्ता
पान्तीय खण्ड लो० नि० वि०
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Muck disposal plan prepared as following:-

1- Calculation of muck to generated including swell factor

Material received from hill side cutting and balance after re-used of material	15393.00	Cum
20% for Swell factor	3078.60	Cum
TOTAL	18471.60	Cum

Total muck generated during construction of road-26550.00cum

2- Quantity of muck to be utilized in the project activities

As per attached sheet-11157.00 cum

3- Balance quantity of muck which required for disposal/management plan

$26550.00 - 11157.00 = 15393.00 \text{ cum} + 3078.60 \text{ (20\% for Swell factor)} = 18471.60$

4- Carriage of muck from the muck generation site to dumping site

Muck will be carry by contractor as their own cost as per bond condition

5- Ownership of land and the consent of land owner

Muck will be dump on three dumping zone one zone is in acquired Resurve forest land 3(60x30=5400 sqm or 0.540hac) and other two dumping zone on Naap land as attachment of record. Photo graphs always attached as per carrying capacity. Carrying capacity of land=0.540Hac. =5400 Sqm x 3.66 mt = 19800.00 cum but required quantity is only 18471.60 cum. Consent of land owner attached with proposal.

6- Development of dumping site, construction of retaining walls and other structure

Cost of protection work i.e.-R/walls, wire crates etc. against muck dumping point in Naap land will be construct by user agency P.D.P.W.D Bhatwari Uttarkahi as proposed muck dumping point.

7- Rehabilitation of dumping site like levelling, planting of grass, shrub and tree species

Rehabilitation of dumping site like levelling, planting of grass, shrub and tree species by construction agency P.D.P.W.D Bhatwari Uttarkahi.

Cost of Dumping site:-We proposed the two dumping site on Naap land area .so protection work will be construct as per their site requirement.

Undertaken as per following by User agency P.D.P.W.D Bhatwari Uttarkashi)

1-Muck management plan will be implemented by P.D.P.W.D Bhatwari Uttarkahi. In case non implementation of plan we will be liable to penalty/action.

2-The proposed dumping site is located away from river/stream/nala.

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