

Muck Disposal Plan

Full Title of the Project: Up-gradation & 4-laning of Bhaniyawala - Rishikesh Road (Spur) of NH-7 from km 0.000 to km 20.600 in the State of Uttarakhand.

Proposal No.: FP/UK/ROAD/146663/2021

Date of Proposal: 01/09/2021

INTRODUCTION

Muck generation is considered a significant impact on land environment and the excavation shall result in large quantity of excavated material i.e. muck which shall have to be excavated and disposed of in a planned manner so that it takes a least possible space and is not hazardous to the environment. The muck disposal sites cause increased sedimentation in the rivers (though insignificant compared to natural sedimentation) and totally spoils the visual aesthetics of the area. It is of prime importance that these sites will have to be rehabilitated as soon as the disposal sites are full.

QUANTITY OF MUCK TO BE GENERATED

In the forest portion of the project highway, cutting is involved in the widening of the road. The cutting material comprises soil, boulders, rock and vegetation. It is observed that the volume of cutting is very small as compared to the volume of earth required in the construction of the embankment. Thus entire earth in cutting will be utilised in embankment construction for the same project, partly in the forest portion and partly outside the forest. The boulders will be used in slope pitching as erosion control, and as bed protection work for culverts and bridges. The vegetation cover generated will be stored and used for reapplication on earthen slopes. Thus the entire quantity of excavated material will be utilised in the construction of the project road and no dumping site is required for muck. The details are as under.

MCUK GENERATION FROM PROJECT COMPONENTS AND UTILIZATION

Sl. No.	Project Component	Muck Generation Quantity (Cum)	Project Component	Muck utilization Quantity (Cum)
1	Road widening work from km 0.000 to km 20.600	443,407	Road widening and raising from km 0.000 to km 20.600	486,442
	Total	443,407		486,442
	Excess Quantity required to Disposed		(-) 43,055	

The total quantity of generated muck to be disposed of is nil.

परियोजना निदेशक/Project Director
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
National Highways Authority of India
(सड़क परिवहन राजमार्ग मंत्रालय, भारत सरकार)
Ministry of Road Transport & Highways
प्लॉट नं. 01/200-वसन्त विहार, देहली-110002

DISPOSAL OF MUCK

As detailed above total quantity of muck likely to be generated is 443,407 cum. The entire quantity will be utilized in the project work itself.

Sl. No.	Particulars	Remarks
1	Calculation of muck to be generated. Swell factor to be applied.	Total quantity of generated muck is 443,407 Cum
2	Quantity of muck to be utilized in the project activities	486,442 Cum
3	Balance quantity of muck which requires disposal/management plan.	Nil
4	Carriage of muck from the muck generation site to the dumping site.	As per contract conditions muck will be carried by contractors at their own cost which will be included in the civil cost. <i>Entire muck generated will be utilized in the contract of this re</i>
5	Ownership of land and the consent of landowners in case muck disposal is proposed on non-forest land.	Since entire muck generated will be utilised in the road construction on the acquired land, no consent of land owners is required.
6	Carrying capacity of proposed dumping site (Muck disposal site)	No dumping site is required.
7	Development of dumping site construction of retaining walls and other structure as per requirement of the site. The objective is to completely stop rolling down of the muck.	Not applicable, due to the reasons given against item 5 and 6.
8	Rehabilitation of dumping site like levelling, planting of grass, shrubs and tree species.	Not applicable, due to the reasons given against item 5 and 6.

Note: Cost to be incurred on the above activities has to be given component-wise under civil cost.

Details of dumping site including length, width, and height of structures to be erected must be mentioned – **The cost is included in civil cost in Bill No. 1, 2, 3, 5, 6, 7 and 8.**

[Signature]
प्रभारी वनाधिकारी
देहरादून वन प्रभाग
देहरादून

[Signature]
वन क्षेत्राधिकारी
अधिकेश
देहरादून वन प्रभाग देहरादून

[Signature]
परियोजना निदेशक/Project Director
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
National Highways Authority of India
(सड़क परिवहन राजमार्ग मंत्रालय, भारत सरकार)
Ministry of Road Transport & Highways
पि०आर्डी०यू०-नसन्त विहार देहरादून

[Signature]
प्रभारी वनाधिकारी
देहरादून वन प्रभाग,
देहरादून




Bill No.	Description	Item Price (Rupees)
1	Site Clearance	1,520,004
2	Earthworks	300,562,331
3	Sub-base and Base Courses	321,922,369
4	Flexible Pavement	300,238,874
5	Culverts	74,979,059
6	Bridges and grade separated structures	3,258,431,287
7	RE Wall	319,269,508
8	Drainage and protection works	187,964,571

Undertaking by user agency has to be given to the effect that:

1. Muck management plan will be implemented by user agency and in case of non-implementation of plan, they will be liable to penalty/action at their cost – **Agreed**
2. The proposed dumping site is located away from river/stream/Nala – **No dumping site is required.**

Date:

Place: Dehradun


Project Director
 Project Director
 National Highways Authority of India
 (सड़क परिवहन विभाग, भारत सरकार)
 Ministry of Road Transport & Highways
 पी०आर०टी०एच०-वसन्त विहार, देहरादून
NHAI, PIU, Vasant Vihar, Dehradun

