

प्रारूप-49

Muck Disposal Plan

Name of Project:- "Development of 4-lane Greenfield road connecting NH-7 (old NH-72) (near Jhajhra) to Delhi-Dehradun Expressway NH-307 (old NH-72A) at Asharori Section from Km. 0.000 to Km. 12.000 in the State of Uttarkhand."

Proposal No. : FP/UK/ROAD/140350/2021

Date of Proposal: 01/04/2021

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 development 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.

MUCK GENERATION FROM PROJECT COMPONENTS AND UTILIZATION

Sl. No.	Project Component	Muck Generation Quantity (Cum)	Project Component	Muck utilization Quantity (Cum)
1	Road cutting	443,408	Road raising	530,582
	Total	443,408		530,582
	Excess Quantity required to Disposed		(-) 87,174	

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

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DISPOSAL OF MUCK

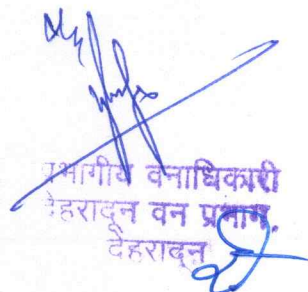
As detailed above total quantity of muck likely to be generated is 443,408 Cum. The entire quantity will be utilized in the project work itself.

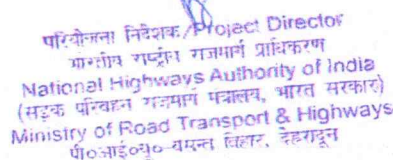
As muck is property of the Forest Department royalty will be paid as per prevailing norms.

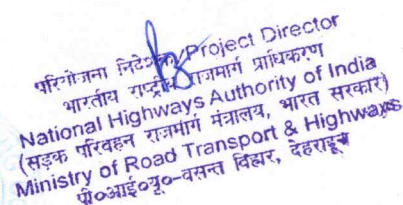
Sl. No.	Particulars	Remarks
1	Calculation of muck to be generated. Swell factor to be applied.	Total quantity of generated muck is 443,408 Cum
2	Quantity of muck to be utilized in the project activities	530,582 Cum
3	Balance quantity of muck which requires disposal/management plan.	Nil
4	Carriage of 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.
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.**


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Bill No.	Description	Item Price (Rupees)
1	Site Clearance	1,996,667
2	Earthworks	149,960,588
3	Sub-base and Base Courses	355,911,201
4	Flexible Pavement	213,168,032
5	Culverts	160,034,815
6	Bridges and grade separated structures	1,613,917,699
7	RE Wall	377,510,017,
8	Drainage and protection works	305,771,252

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 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: 18.07.2022

Place: Dehradun

NHAI, PIU, Vasant Vihar, Dehradun

Project Director

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