

Project Name *Improvement and Upgradation of existing 2-lane to 4-lane with paved shoulders, with/without Service Roads including Realignments and Shahgarh & Hirapur Bypasses from Mohari to Satai Ghat section of NH-934 & NH-34 (old NH-86) from Design Km 50+300 (Existing Km 49.789) to Design Km 89+878 (Existing Km 90.302) in the state of Madhya Pradesh (Package-2) under Bharatmala Pariyojana*
Forest Proposal No. *FP/MP/ROAD/155297/2022*

Annexure-1

MUCK DISPOSAL PLAN

1.	Calculation of muck to be generated. Swell factor has to be applied	Quantity of Muck Generation and Utilization sheet is enclosed. Calculation of swell factor is applicable. Undertaking is enclosed.
2.	Quantity of muck to be utilized in the project activities	As above
3.	Balance quantity of muck which requires disposal/management plan	No balance quantity will be left for preparation of disposal/management plan.
4.	Carriage of muck from the muck generation site to the dumping site	Not Applicable
5.	Ownership of land and the consent of land owners, in case muck disposal is proposed on non forest land.	Not Applicable
6.	Photograph & carrying capacity of proposed dumping site (Muck disposal site)	Not Applicable
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
8.	Rehabilitation of dumping site like leveling, planting of grass, shrubs and tree species.	Not Applicable

Note: Cost to be incurred on the above activities has to be given component wise. Detail of dumping site including length, width and height of structures to be erected must be mentioned.

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

1. Muck management plan will be implemented by the user agency and in case of non-implementation of the plan, they will be liable to penalty/action at their cost.
2. The proposed dumping site is located away from river/stream/nala.

*Project Director
NHAI, PIU Sagar (M.P.)*

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QUANTITY OF MUCK GENERATION AND UTILIZATION SHEET			
SL. No.	DESCRIPTION	UNIT	QUANTITY
A.	Muck Generation		
1	Excavation in Soil using Hydraulic Excavator CK 90 and Tippers with Disposal upto 1000 metres including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location within all leads and lifts as per Technical specifications and as directed by the Engineer-in-charge.	Cum	1,736,654
2	Excavation for roadway in ordinary rock with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, transporting to embankment site within all lifts and lead upto 1000 m, trimming bottom and side slopes in accordance with requirements of lines, grades and cross sections.	Cum	612,804
3	Earthwork in excavation of foundation for structures including pipe culverts in all types of soil including lead & lifts complete as per drawings and MORT&H specifications clauses 304 & 2903.	Cum.	10,084
4	Ordinary Soil - Depth Upto 3m	Cum	74,039
Total			2,433,582
5	Swelling Factor	40%	973,433
Grand Total of Muck Generated			3,407,015
B.	Muck Utilization		
	Construction of embankment with approved materials deposited at site from roadway cutting and excavation from drain and foundation of other structures graded and compacted to meet requirement of table 300-2 as per Technical specifications and as directed by the Engineer-in-charge.	Cum	3,407,015
C.	Balance Muck to be Dumped at Site		
	Balance quantity of muck which requires disposal at Site	Cum	Nil

S. S. Sagar
Project L
NHAI, PIU Sagar (M.P.)


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MUCK DISPOSAL CERTIFICATE

This is to certify that I/We, Project Director, NHAI, PIU, Sagar, hereby undertake that, we will utilize generated muck for construction of embankment during **“Improvement and Upgradation of existing 2-lane to 4-lane with paved shoulders, with/without Service Roads including Realignments and Shahgarh&Hirapur Bypasses from Mohari to Satai Ghat section of NH-934 & NH-34 (old NH-86) from Design Km 50+300 (Existing Km 49.789) to Design Km 89+878 (Existing Km 90.302) in the state of Madhya Pradesh (Package-2) under BharatmalaPariyojana”**.

Date:-

Place:- Sagar


Project Director
National Highway Authority of India
Project Implementation Unit-Sagar
Plot No-1, Sunrise Mega City
Rajghat Road, Baghraj Ward
Sagar (M.P.)-470001