

# MUCK DISPOSAL PLAN

Name of Project: Construction of 2-lane missing link road from Rath Bypass (Hamirpur District) to Garautha (Jhansi District) of SH-42 in the State of Uttar Pradesh (FPIUPROAD/117342/2020)

Checklist Serial No.-9.29

## Muck Disposal Plan

This is certified that entire quantity of this excavated material will be reused for construction of subgrade and earthen shoulders of the project road. No muck for the proposed project is envisaged and therefore no disposal is required for it.

S.No	Details	Quantity	Unit
1	Materials received from Hillside cutting	Nil	Cum
2	Materials received from cutting including 40% of swell factor	Nil	Cum
3	Total	Nil	Cum
4	Disposal & Use of Material	Nil	Cum
5	1. R.R. stone Masonry laid in 1.5	Nil	Cum
6	2. R.R. stone Masonry laid dry	Nil	Cum
7	3. Hand packed stone filling	Nil	Cum
8	4. Construction of wire Crete	Nil	Cum
9	5. Construction of parapet	Nil	Cum
10	6. Construction of Granular sub-base /base/surface	Nil	Cum
11	7. Construction scupper	Nil	Cum
12	8. Construction of roadside drain	Nil	Cum
13	9. Super elevation & Patch Filling	Nil	Cum
14	10. Concrete work	Nil	Cum
15	11. Total	Nil	Cum
16	12. Material Disposal by Carriage	Nil	Cum

## Summary of Debris Disposal

S. No	Total Material	Material Disposal	Resided Material for road construction	Total Disposal in Dumping zone
1.	Nil	Nil	Nil	Nil

## Details of Muck Disposal Site

S. No	Location of Dumping Yard	Owner of the Land	Khasra No	Area (Ha.)	Height of the Dumping Zone (m)	Capacity of the Dumping Zone Yard	Latitude and Longitude
1.	Nil	Nil	Nil	Nil	Nil	Nil	Nil

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Date: 23-8-22  
Place: Lucknow  
Superintending Engineer, Kanpur Circle  
Uttar Pradesh Public Works Department (UPPWD),  
Govt. of Uttar Pradesh

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## No Hillside cutting;

However, Earth generated from roadway cutting & drain excavation that shall be re-used for embankment construction .

Estimated Qty. generated

506131 cum

Usable for Embankment

354500 cum

Not suitable for Embankment

151631 cum

Estimated Qty. for Emb. Construction

882936 cum

Source of Emb. Material

Fly Ash

212800 cum

Borrow Earth

315636 cum

Shall be reused for Grass Turfing on embankment slope i.e approx. area is about 619218 sqm

No surplus materials or muck will be available for disposal in to dumping land out site of Project area.

## Annexure-4

Material Obtained from Dismantling of Existing C/w

Bitumen Crust

GSB/Agreegate Crust

3149 Cum

18556 Cum

Reuse as RAP Material

Reuse as GSB Construction

Estimated Required Qty. for Project

44721 Cum

179831 Cum

Shall be Procured from Quarry

41572 Cum

161275 Cum

Total 202847 Cum

(RAKESH VERMA)  
Superintending Engineer  
World Bank Project Circle  
Kanpur

13.1 MDP





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## UTTAR PRADESH CORE ROAD NETWORK DEVELOPMENT PROJECT

### MUCK DISPOSAL PLAN

**PROPOSAL FOR DIVERSION OF 18.1854 HA OF FOREST LAND FOR THE CONSTRUCTION OF 2-LANING MISSING LINK ROAD OF HAMIRPUR-RATH-GARAUTHA-JHANSI ROAD FROM RATH BYPASS KM-74+550 (HAMIRPUR DISTRICT) TO GARAUTHA KM-110+360 (JHANSI DISTRICT) OF SH-42 IN THE STATE OF UTTAR PRADESH**

1. The Forest Proposal has been prepared as per revised forest (Conversation) rule 2003 under Forest (Conservation) Act 1980 to obtain the forest clearance from Govt. of India for diversion of forest land purpose to develop the SH-42 from Rath bypass (Km 74+550) to Garautha (Km 110+360).
2. As the proposed road section traversing through plains, no hill cutting involves. However it has been estimated that due to roadway cutting and drain excavation approximately 14,106 cum of muck is to be disposed off per km. With this rate, for 35.881 km 5,06,131 cum of muck is to be disposed off. Out of this around 70% of muck will be utilized for embankment filling during sub-grade and earthen shoulders construction i.e 3,54,500 cum. Hence the quantity of unusable muck which is to be disposed off = 30 % of 5,06,131 = 1,51,631 cum, which is not usable, will required to be disposed off.
3. Our road development includes the protection of embankment slopes hence the unusable excavated quantity of 1,51,631 cum i.e usually back-cotton top soil that shall be utilized for side slopes filling and raising and leveling the remaining ROW fill sections for profile correction to smooth flow of run-off water during rainy season.
4. Available side slopes and raising and leveling the remaining ROW fill sections is approximate (average 4 m emb.slope + 4 m ROW, 34.4 km road length excluding bridges) = 6,19,218 sqm for grass turfing. The treatment of embankment slopes shall be carried-out as per recommended practice IRC-56-1974 for erosion control.
5. The metal crust materials obtained from existing roadway excavation shall be utilized for the construction of proposed road as per MoRTH guidelines and specification in the GSB and bitumen layers respectively.
6. No surplus materials or muck is available in proposed project road for disposal in to dumping land out site of project area.