## **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 BharatmalaPariyojana

Forest Proposal No. FP/MP/ROAD/155297/2022

Annexure-1

## MUCK DISPOSAL PLAN

| 1.        | Calculation of muck to be generated.                      | Quantity of Muck Generation and Utilization    |  |  |
|-----------|---|--|--|--|
|           | Swell factor has to be applied                            | 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                   | No balance quantity will be left for           |  |  |
|           | disposal/management plan                                  | preparation of disposal/management plan.       |  |  |
| 4.        | Carriage of muck from the muck                            | Not Applicable                                 |  |  |
|           | generation site to the dumping site                       |  |  |  |
| 5.        | Ownership of land and the consent of land                 | Not Applicable                                 |  |  |
| 3         | owners, in case muck disposal is proposed                 |  |  |  |
|           | on non forest land.                                       |  |  |  |
| 6.        | Photograph & carrying capacity of                         | Not Applicable                                 |  |  |
|           | proposed dumping site (Muck disposal                      |  |  |  |
|           | site)   |  |  |  |
| 7.        | Development of dumping site-                              | Not Applicable                                 |  |  |
|           | construction of retaining walls and other                 |  |  |  |
|           | structure as per requirement of the site.                 |  |  |  |
|           | The objective is to completely stop rolling               |  |  |  |
|           | down of the muck.   |  |  |  |
| 8.        | Rehabilitation of dumping site like                       | Not Applicable                                 |  |  |
|           | leveling, planting of grass, shrubs and tree              |  |  |  |
|           | species.  |  |  |  |
| 1000 1000 |   |  |  |  |

**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.

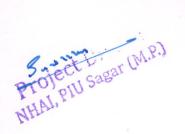


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| V          | QUANTITY OF MUCK GENERATION AND UTILIZATION S   | SHEET |           |
|------------|---|-------|-----------|
| SL.<br>No. | DESCRIPTION   | UNIT  | QUANTITY  |
| Α.,        | Muck Generation   |       |           |
| 1          | Excavation 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. |       | 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.   |       | 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.   |       | 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   |       |           |
| B.         | Muck Utilization  |       | 3,407,015 |
|            | 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       |



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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