

MUCK DISPOSAL PLAN

PROJECT NAME : FOREST CLEARANCE PROPOSAL FOR CONSTRUCTION/IMPROVEMENT OF ALTERNATE ALIGNMENT OF BANDIPUR-GUREIZ (B-G) ROAD FROM KM 79.68 (NEW LOCATION KM 0.000) TO KM 84.125 (NEW LOCATION KM 3.706) TO CL-9 SBA SPECIFICATIONS AND CONSTRUCTION OF 85 MTR SPAN MAJOR PMT BRIDGE (MARKOOT) WITH STEEL SUPERSTRUCTURE (THROUGH TYPE) ON OPEN FOUNDATION OVER KISHAN GANGA RIVER AT KM 81.375 ON BANDIPUR-GUREIZ (B-G) ROAD IN BADIPORA DISTRICT OF J & K (UT)

1. MUCK DISPOSAL PLAN

Road stretch from Wampora Bridge to Markoot Bridge falling on right side of river Kishanganga, which was in the charge of PWD (R&B) Gureiz has been taken over by BRO on 16 Nov 2020 and is planned to be improved to CL-9 (SBA) specification as alternate alignment of Bandipur-Gureiz (B-G) road from Km 79.680 to Km 84.125 to CL-9 SBA specifications and also construction of 85 mtr span Markoot Pmt Bridge at Km 81.375.

The road Bandipur-Gureiz is life line for civil population living in Gureiz sector since this is the only road which connects Gureiz sector from Bandipur. This road is strategically important for Army as well civil population, due to the requirement for winter stocking and transportation of troops deployed in border areas.

Formation work will be required on ground for proposed construction/ improvement works of the road sector and rough excavation of hill face will generate loose soil/excavated muck. A portion say about 50% of the excavated quantity will be utilised for widening and leveling purpose and the balance quantity of muck is proposed to be disposed off to the designated area in non-forest land.

2. QUANTITY OF MUCK DISPOSAL AND ITS REUSE

On the alignment of the road sector, at one side there is hill face and on the other side there is valley/ deep gorge. During improvement of road sector, muck is generated from excavation of hill face. Total quantity of muck generated due to rough excavation of soil is 47000 cum, out of which 50% quantity, that is about 24000 cum, shall be utilized for widening/leveling of the road sector between Km 1.92 to Km 2.936. The balance 23000 cum quantity will be disposed off between Km 0.00 to Km 1.92 (1920 m) for road side embankment filling/ leveling purpose, which is in non-forest/revenue land. Site plan showing muck disposal area is attached.

The muck after dumping will be compacted with road roller for extension of road width and the muck disposal quantity is tabulated below:-

| Project component | Quantity of muck/ debris generated (cum) | Estimated quantity of muck proposed to be utilized (cum) | Balance quantity of muck (cum) | Quantity of muck due to swell factor (cum) | Capacity of the dumping site (cum) |
|---|--|--|--------------------------------|--|------------------------------------|
| Alternate alignment of Bandipur-Gureiz (B-G) road from Km 79.680 to Km 84.125 | 47000 | 24000 | 23000 | 28750 | 1920mx 2.5mx6.0m (28800 cum) |

3. SELECTION OF MUCK DISPOSAL SITE

The selection of muck disposal site has been carried out considering the quantity of the muck, landscape, cost effectiveness, nearness/vicinity to source generation, absence of ground and surface water, relief and scope of afforestation works. Dumping site is along the road side in adjacent sector of the stretch from where the muck is generated. The selected site for disposal of muck is in non-forest/revenue land. The details of dumping site alongwith its capacity and amount of muck to be disposed is enumerated below:-

| Name of dumping site | Location of dumping site | Area in ha | Capacity in cum | Volume of muck to be dumped (cum) |
|---|--|------------|-----------------|-----------------------------------|
| Muck disposal area on Wanpora-Markoot Realignment | Right hand/ valley side between Km 0 to Km 1.92 of B-G Road realignment stretch. | 0.48 ha | 28800 | 28750 |

4. DESCRIPTION ON MUCK DISPOSAL SITE

The proposed muck disposal site is located from Km 0 to Km 1.92 of Wanpora-Markoot Realignment of Bandipur-Gureiz road (Km 79.68 to Km 84.125). The right side of the road needs to be filled up with earth for extension/improvement of the existing road stretch. The plan area of the site is 0.48 ha in non-forest land.

5. IMPLEMENTATION OF ENGINEERING MEASURES AT MUCK DISPOSAL SITE

The muck after disposal at dumping site shall be spread and raised matching with the existing road level. The surface shall then be rolled/compacted using road roller to achieve the desired road formation width and provisioning of pavement. Soil erosion and slope of hill side cutting will be maintained by providing breast walls in hill side and retaining walls in valley side.

6. IMPLEMENTATION OF BIOLOGICAL MEASURES AT MUCK DISPOSAL SITE

The area of the proposed stretch of muck disposal remains snow covered during winter season. In this adverse climatic condition, rate of vegetation growth is slow. Biological measures may require special efforts to support vegetation at muck disposal site at non-forest land.

7. PLANTATION TECHNIQUE

The top surface of the dumping site will be used as road formation and plantation on valley side will be required according to the ground conditions. In view of the peculiar site conditions, the planting technique for all the categories of the plant suitable for the cold region will require assistance from the state forest department although the dumping site is in non-forest land.

8. SPECIES FOR PLANTATION

The selection of plant species, propagation and cultivation technique would be done in coordination with the state forest department.

9. **BUDGET FOR MUCK DISPOSAL PLAN**

The cost of muck disposal plan has been catered for/ incorporated in the DPR of the Project considering engineering measures proposed to be taken up on ground. Biological measures have not been catered for in the DPR being the dumping site is on non-forest land. The cost break up is tabulated below:-


| S/ No | Name of the work | A/U | Qty | Rate (Rs) | Amount (Rs in Lakh) |
|-----------------------------|---|-----|-------|-----------|---------------------|
| 1 | Cost of disposal of excavated earth with vehicle up to 5 Km initial lead. | Cum | 23000 | 90.21 | 24.00 |
| 2 | Cost for Retaining structures on valley side | Mtr | 32 | 50000 | 16.00 |
| Total Cost of Muck Disposal | | | | | 40.00 |

The above amount has been catered for in the DPR and will be borne by the Dept.

Station : C/o 56 APO

Dated : 28 Mar 2021




Signature of User Agency
Major
Officer Commanding
56 RCC (GREF)