

प्रारूप-49


परियोजना का नाम :- उत्तराखण्ड राज्य में 126 कि०मी० ऋषिकेश-कर्णप्रयाग नई ब्रॉड गेज रेल लाईन निर्माण ।

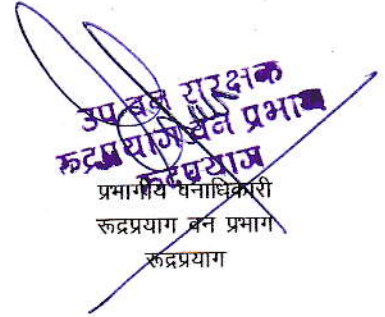
मलवा निस्तारण योजना इस मार्गदर्शिका के परिशिष्ट में दिये माडल अनुसार तैयार की जानी है।

परियोजना से उत्पादित मलवों के वैज्ञानिक विधि से उचित निस्तारण की योजना व गूगल मानचित्र संलग्न है।

टिप्पणी:-


1. सम्पूर्ण परियोजना का प्रस्तावित **Muck disposal plan** का विवरण संलग्न है। जिसमें प्रत्येक सुरंग से उत्पादित मलवे के आयतन की गणना का विवरण संलग्न है।
2. Schematic Map में मलवा उत्पादन स्थल एवं मलवा निस्तारण स्थल दर्शाया गया है।
3. Muck dumping location shown on satellite imagery संलग्न है।



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MUCK DISPOSAL PLAN

1.0 INTRODUCTION

In addition to already acquired land for whole of the project (Rishikesh- Karnprayag Rail Line), a requirement of additional land falling under civil forest land category, measuring an area of 0.4769 Ha +0.120 Ha Naap Bhumi is needed to provide "stability" to proposed tunnel (T-15) portal (P1) and slope stabilization of station (Gholtir Station) yard. The additional land fall at Chainage Km 108+950 (new chainage) and shall be used to provide stability to portal and side slope of station yard and shall be in "open". The proposed Tunnel (T15, Length – 7012m) start at Chainage Km 108+950 (new chainage) and end at Km 115+962 (new chainage). It's clear from the above paragraph that the additional land shall be used in "Open". No blasting shall be done in additional proposed land in open area and leveling and cutting will be done in adherence to specified engineering practice.

2.0 QUANTITY OF MUCK TO BE GENERATED

Ideally not much muck shall be generated from the proposed additional land (as the use of additional land shall be to provide portal and station yard stability) and same shall be utilized in leveling of Gholtir Station yard and if any additional muck left out shall be clubbed with muck generated from tunnel (T15), thus the muck generated from the area shall be mainly from Tunnel (T15) excavation. The muck generated from Tunnel portal including tunnel (T15) as estimated and approved shall be as follows:

Code	Chainage (Km)		Length (m)	Total (Cum)	Remarks
	Start	End			
From T14 P2	108+055 (new chainage)	104+770 (New chainage)	3285	356490 +58353 (portal stabilization)	
From T15 P1	108+950 (new chainage)	111+200 (new chainage)	1960	244186+735 16(portal stabilization)	The maximum area of the additional civil forest will be used for stabilization of the main tunnel and escape tunnel portal as borehole-wise rock has been found at the site which is suitable for portal stabilization.
Open	108+055	108+950	895	407878	Some portion of

excavation (Gholtir Station yard)	(new chainage)	(new chainage)			additional forest land is used for stabilization of side slope of Gholtir station yard.
Adit of tunnel 15 (11	111+200 (new chainage)	114+462 (new chainage)	3262	431648+715 2 (portal stabilization)	
From T15 P2	115+985 (new chainage)	114+462 (new chainage)	1538	158692 +51010 (slope stabilization)	
Open excavation (Gauchar Station yard)	116+000 (new chainage)	117+168.8 00 (new chainage)	1168.8	775445	
Total muck generated				2564370	
Muck used for crusher plant (approx. 35 % of total)				897529	Shotcrete and concrete work is to be done in tunnel work and slope stabilization work. An estimated 35% of the muck is to be used for making aggregate and crushed sand through crusher, the rest will have to be dumped in the dumping yard.
Muck used in filling in Gholtir and Gauchar station yard				120000(Gho ltir) 230000(Gau char)	Used for embankment and approach road filling
Muck dumped at dumping site (D32+D33+ D34)(approx .)				1316841	

3.0 MUCK DISPOSAL PLAN

In compliance of REC observations during the site visit on 21st Nov to 23rd Nov, 2016, the muck disposal plan has been revised and approved for whole of the alignment (The Details annexed with this report as annexure-11). The Muck generated from the portal (P1) of Tunnel (T15) including tunnel muck shall be disposed off at D-33, Gholtir (Kothgi) Dumping Yard, located at chainage Km 109+500, having capacity 6,42,720.00 Cum and D-34 Gauchar Station (Dumping), located at chainage Km 116+500, having capacity 7,59,360.00 Cum.

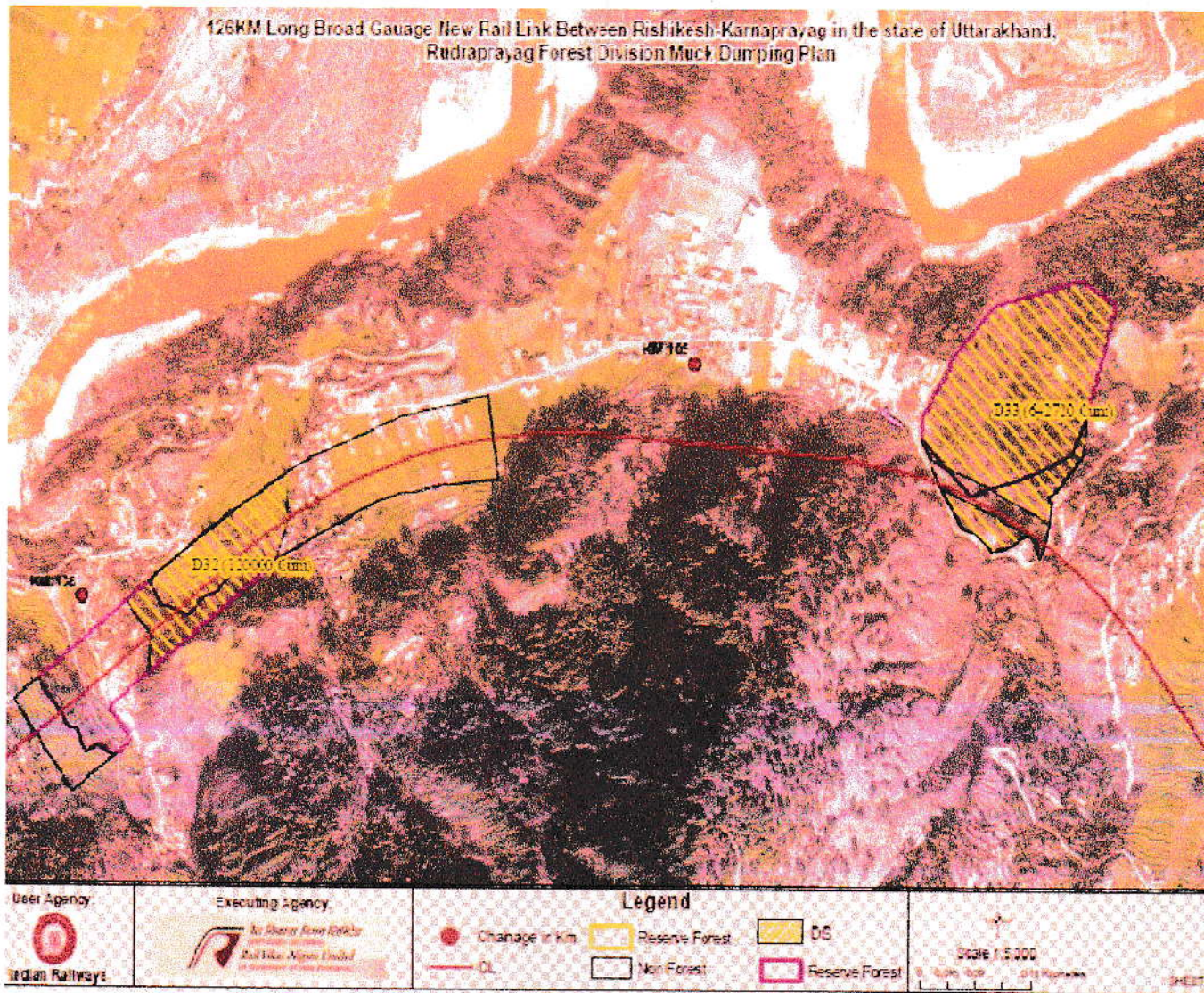
4.0 QUANTITY OF MUCK PROPOSED TO BE USED IN FILLING

The extra muck generated from the above additional land, after leveling as per engineering requirement (i.e. embankment and approach road), shall be used in filling up Gauchar Station Yard and Gholtir station yard.

5.0 QUANTITY OF MUCK PROPOSED TO BE DUMPED IN DUMPING SITE

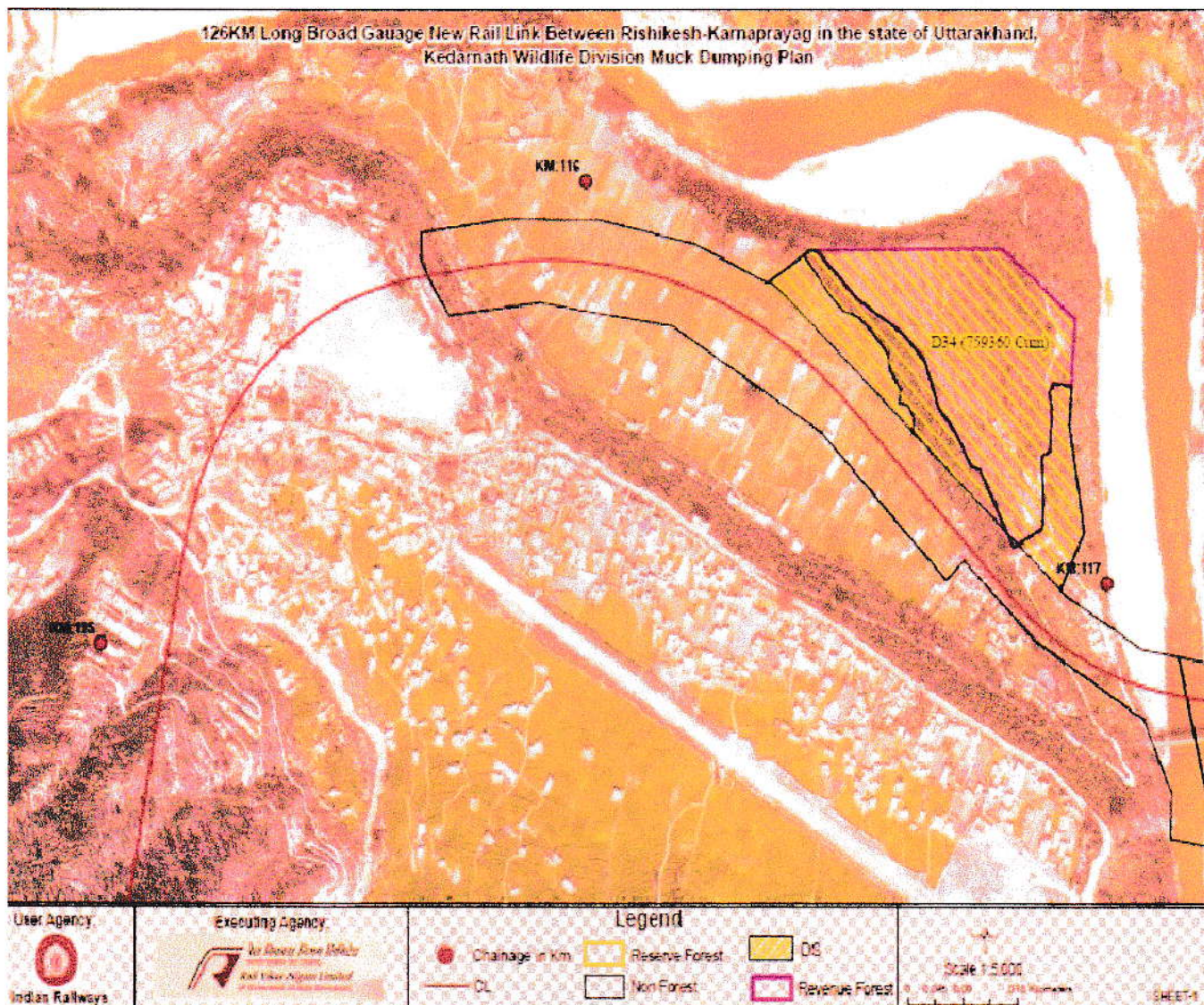
The Non-usable muck generated from the tunnel (T15), T14 P2, Gholtir station yard and gholtir station yard shall be around 1316841 Cum and the same shall be disposed off at two locations namely "Gholtir (Kothgi) Dumping Yard, located at chainage Km 109+500, having capacity 642,720.00 Cum and Gauchar Station (Dumping), located at chainage Km 116+500, having capacity 759,360.00 Cum. Both the locations have been already approved by the competent authority and having capacity more than the muck generated from the area.

6.0 MUCK DUMPING SITE MARKED ON GOOGLE IMAGINARY



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