



# भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार

**NATIONAL HIGHWAYS AUTHORITY OF INDIA**

Ministry of Road Transport and Highways, Govt. of India

**Project Implementation Unit (PIU)- Shimla**



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11012/4/2016/Forest/P-N/PIU-SML/ 858

15<sup>th</sup> July, 2021

## Muck Disposal/Dumping Plan

Subject:- Diversion of 0.5747 Hac. Forest land for the purpose of construction of Four laning of Baddi - Nalagarh section of NH-21A from Km 17.500 to Km 35.000 in the state of Himachal Pradesh within the jurisdiction of Nalagarh Forest Division Dist. Solan HP.

### 1. Project Background

National Highways Authority of India has initiated a proposal for four lanning of Baddi Nalagarh Section of NH21A from Km 17.500 to km 35.000 in the state of Himachal Pradesh with in the jurisdiction of Nalagarh Forest Division Dist. Solan HP.

The four lanning of the NH 21A from from Km 17.500 to km 35.000 in the state of Himachal Pradesh with in the jurisdiction of Nalagarh Forest Division Dist. Solan HP follows the existing alignment, and widening is in 39 Mtr ROW.

### 2. Estimated Muck/Debris Generation

The upgradation of the road is along the existing alignment and widening is from existing two lane (average 24 m wide ROW) to four laning (39 m wide ROW). As per the approved bill of quantities by competent authorities which was prepared by DPR consultant M/s RAMBOLL for the subjected Highway, the estimated generation of muck/debris due to road widening upgradation is approximate 59,588 M<sup>3</sup>.

### 3. Reuse of Muck/Debris

Entire volume of muck/debris generated during excavation / execution of project highway will be used in filling of embankment and approach road to bridges. As total 13 nos of the Bridges and flyover is purposed in the subjected highway.

As per the approved BOQ requirement of filling material during execution of subjected highway is as below:-

Table:- 1

Sr. No	Particular	Unit	Quantity
1.	Construction of embankment	Cum	2,94,512
2.	Constriction of sub grade and earthen shoulder.	Cum	4,30,850
3.	Earth work in filling of midean	Cum	32,378

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## 4. Conclusion :-

In the view of above and comparison of both quantities (generated and useable) of muck / debris during the execution of work the entire volume of muck will be reused as detailed in table 1.

Deputy Conservator Of Forests,  
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