

**Full Title of the proposal:-** Construction of New 2 Lane with Paved Shoulder of Hamirpur Bypass of NH-88 (New NH-103 ) (Design Chainage-Km.121+175 to Km.138+295, Design Length-17.120 Km) in the State of Himachal Pradesh under NH (O) on HAM Mode

**File No. :** FP/HP/ROAD/151932/2022

**Date of Proposal:** 2 Feb 2022

## DISPOSAL PLAN OF EXCESS EARTH QUANTITY

### 1. INTRODUCTION

The project envisages construction of new 2 Lane with Paved Shoulder of Hamirpur Bypass of NH-88 (New NH-103). As the project road does not involve any construction of tunnels, the quantity of material generated from construction of project road is not of much concern. As the project road is located in a hilly cum rolling terrain, the excess earth quantity generated from the construction is required to be disposed in a planned manner so that it takes least possible space and is not hazardous to the environment. It is of prime importance that these sites will have to be rehabilitated as soon as the disposal sites are full.

The excess cutting generated, disposal sites and adequate disposal and management guidelines have been discussed in the following sections.

### 2. EXCESS EARTH QUANTITY GENERATION

In the proposed project, debris is expected to be generated as an excess earth quantity left after utilization as filling quantity in the construction of bypass road. The component wise debris generation from the project activity is given in Table-1.

**Table-1: Abstract of debris generated from Hamirpur Bypass**

| S. No. | Component                                                        | Road work  | Quantity in cum |
|--------|------------------------------------------------------------------|------------|-----------------|
| 1.     | Quantity of Debris generated (Cum)                               | Rock (10%) | 1,09,748        |
|        |                                                                  | Soil (90%) | 9,87,729        |
| 2.     | Quantity of debris due to swell factor (Cum)                     | Rock (5%)  | 1,15,235        |
|        |                                                                  | Soil (5%)  | 1,037,115       |
| 3.     | Estimated Quantity of Debris Proposed to be utilized (Cum)       | Rock (39%) | 45,122          |
|        |                                                                  | Soil (80%) | 832,963.20      |
| 4.     | Balance quantity of Debris (Cum)                                 | Rock (61%) | 70,113.00       |
|        |                                                                  | Soil (20%) | 204,151.80      |
| 5.     | Effective Earth quantity to be dumped (Cum) with 15% compaction. | Rock +Soil | 2,33,125        |

Source-DPR Study

During construction of the various components of the project road, cutting material is generated from both soil and from rock excavation. Total quantity of debris, generated from the project, shall be 10,97,477 cum which shall amount to 11,52,350 cum with swell factor. Out of the total cutting quantity generated, 8,78,085.20 cum shall be utilized on project work leaving 2,33,125 cum of excess earth quantity to be disposed after rolling at designated area earmarked for

disposal. The debris generated is proposed to be utilized in road activities such as earthwork embankment, subgrade, backfill and pavement layers depending on suitability of the material. The designated disposal area shall also be properly protected and stabilized with retaining walls/gabion walls of suitable designed sections.

### 3. DISPOSAL SITES

11 disposal sites with total area of 4.6355 Ha have been designated for disposal of excess earth quantity after utilization in the proposed project. All the disposal sites are located on non- forest land out which agreement has been done with private parties for plot no. 187, 295 and 296 for disposal of excess earth generated (copy of Agreement attached as **Annexure I**). The details of disposal sites along with their capacity are given in **Table-2**.

**Table-2: Details of Disposal Sites**

| Diposal Site No. | Chainage | Village      | Plot No. | Total Area (In Ha.) | Capacity of Sites in Cum | Volume of debris to be disposed (in Cum) |
|------------------|----------|--------------|----------|---------------------|--------------------------|------------------------------------------|
| D1               | 123+500  | Lahar        | 169/1    | 0.2226              | 16,305                   | 233125                                   |
| D2               | 123+600  | Lahar        | 168/1    | 0.7614              | 78,766                   |                                          |
| D3               | 128+900  | Ghanotla     | 187/1    | 0.5662              | 27,931                   |                                          |
| D4               | 128+900  | Ghanotla     | 187/3    | 1.1340              | 41,168                   |                                          |
| D5               | 129+850  | Khaggal      | 799/2    | 0.1175              | 608                      |                                          |
| D6               | 130+100  | Khaggal      | 813/4    | 0.5552              | 30,285                   |                                          |
| D7               | 130+180  | Khaggal      | 813/3    | 0.4478              | 12,748                   |                                          |
| D8               | 130+020  | Khaggal      | 807/1    | 0.0883              | 2,871                    |                                          |
| D9               | 130+400  | Khaggal      | 295      | 0.5753              | 34,967                   |                                          |
| D10              | 130+400  | Khaggal      | 296      | 0.0621              | 860                      |                                          |
| D11              | 130+680  | Baleta Kalan | 190/2    | 0.1051              | 608                      |                                          |
|                  |          |              |          | 4.6355              | 2,47,117                 | 2,33,125                                 |

It may be seen from the Table above that the capacity of the area earmarked for disposal is 2.47 lakh cum and the volume of excess earth quantity to be disposed of after utilization is 2.33 lakh cum. This states that the capacity of the disposal sites exceeds the generated volume. All the disposal locations shall be well supported by retaining structures and suitable slope protection measures. The location of the disposal sites marked on SOI Toposheet is enclosed as **Annexure II**.

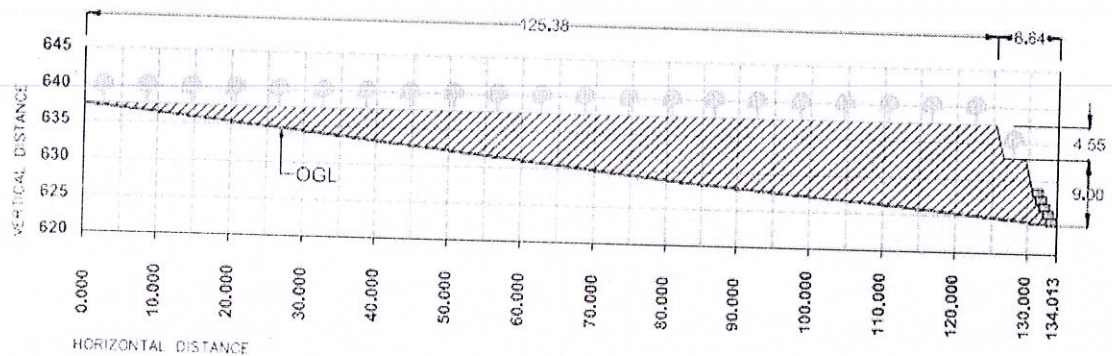
#### Stabilization of disposal site

The loosely held debris can lead to the rise in SPM levels and sedimentation load. Therefore, it requires stability with appropriate methods to avoid the subsequent ecological problems. The debris disposal involves both engineering and biological measures that depend on the eco-climatic conditions.

#### **I) Engineering Measures:**

The material shall be disposed of in the sites in terraces and the slopes shall be protected with multiple gabion walls of height 5m as per the elevation profile as given in the figure below.

  
Project Director  
NHAI PIU HAMIRPUR



The Disposal Plan of all the sites along with elevation profile and location of gabion walls is enclosed as **Annexure III**.

## II) Biological Measures:

Vegetation cover plays a very important role in holding the dumped material over a period of time and controls the hydrological and mechanical effects on the soils and slopes. Special efforts will be required to raise vegetation cover of grasses, shrubs and trees. The local grass sodding should be done on the debris when grass seed will be germinating and the grass will add humus to the dumped material.

Soil conservation and quick growing species to be planted to stabilize the slope - *Agave sisilana*, *Berberis aristata*, *Bauhinia vahilii*, *Jasminum humile*, *Rubus ellipticus*, *Prinsepia utilis*, *Justicia adhatoda*, *Ipomea carnea*, *Hypericum oblongifolium*, *Mimosa himalayana*, *Salix denticulate*, *woodfordia fruticosa*, *Alnus nepalensis* etc.

### Guidelines on disposal Management

1. Fencing shall be done to prevent human / animal interference
2. Disposal shall not obstruct the natural drainage pattern
3. Trees shall be retained along the contours wherever feasible so as not to disturb the natural slope.
4. Protection walls shall be constructed along the contours prior to dumping
5. Debris shall be carried in dumper trucks covered with heavy duty tarpaulin properly tied to the vehicles
6. Dumping may be avoided during the rainy season, to avoid slipping of debris while dumping
7. Top soil shall be stripped wherever feasible to a specified depth of 150 mm and stored in stockpiles of height not exceeding 2 m in height and used for landscaping.
8. All disposal sites shall be properly landscaped when the disposal gets completed so as to merge it in the natural surroundings.

## 4. RESTORATION PLAN

Once the disposal sites are filled, these sites shall be rehabilitated by covering it with 15 cm fertile top soil and planting local species of trees and shrubs in consultation with the forest department so that the landscape is in harmony with the surrounding environment.

  
Project Director  
NHAI PIU HAMIRPUR

The afforestation with indigenous plant species of high ecological and economic value which can adapt to local habitat will be undertaken in consultation with the forest department depending upon the canopy cover required. Major tree and shrub species which would be planted are listed in table below.

| Botanical Name                  | Common Name       |
|---------------------------------|-------------------|
| <i>Azadirachta indica</i>       | Neem              |
| <i>Bauhinia variegata</i>       | Kachnar           |
| <i>Bauhinia purpurea</i>        | Kachnar           |
| <i>Delonix regia</i>            | Gulmohar          |
| <i>Quercus leucotrichophora</i> | Banjh Oak         |
| <i>Mallotus philippensis</i>    | Kumkum            |
| <i>Acacia nilotica</i>          | Babul             |
| <i>Terminalia arjuna</i>        | Arjun             |
| <i>Cassia fistula</i>           | Amaltas           |
| <i>Cedrela toona</i>            | Tun               |
| <i>Pinus roxburghi</i>          | Chil              |
| <i>Melia azadirachta</i>        | Dhek              |
| <i>Terminalia chebula</i>       | Harad             |
| <i>Dalbergia sissoo</i>         | Indian Rosewood   |
| <i>Ficus roxburghii</i>         | Demur             |
| <i>Alnus nepalensis</i>         | Nepal Black Cedar |

**Project Director**  
**NHAI PIU HAMIRPUR**



हिमाचल प्रदेश HIMACHAL PRADESH

05AA 963295

हम केंसर सिंह, दिनेश कुमार सपुत्रान श्री जगत राम व श्रीमति ताजो देवी पत्नी श्री जगत राम निवासी महाल हार, मौजा जंगल, डा0 नाल्टी, तह0 व जिला हमीरपुर हि0 प्र0 के स्थायी निवासी हैं तथा विधिवत निम्न घोषणा करते हैं कि:

1. यह कि हम सभी उपरोक्त पते के स्थाई निवासी हैं।
2. यह कि हम भूमि खाता न0 9, खतौनी न0 9, खसरा न0 187 कुल रक्बा 02-23-34 हैक्टयर बंजर कदीम में से 01-28-29 हैक्टयर स्थित महाल धनोटला, मौजा जंगल, तह0 व जिला हमीरपुर के मुसत्रिका मालकान हैं। इस भूमि के साथ हमीरपुर बाई पास ट-लेन सड़क निर्माण कार्य शुरू होने वाला है जिसके लिये हमीरपुर बाई पास प्राइवेट लिमिटेड द्वारा पहाड़ी के कटान से निकाला गया मलवा अगर हमारी उपरोक्त भूमि में गिराया जाता है तो हमारा कोई एतराज नहीं होगा।

स्थान: हमीरपुर

दिनांक : 31.12.2022

हस्ताक्षर

सत्यापन



ATTESTED

AJAY KUMAR SHARMA  
NOTARY PUBLIC  
Sub-Division Nardaun & Hamirpur (H.P.)

हस्ताक्षर

हम कि उपरोक्त कथित अन्तवस्त मेरी जानकारी के अनुसार सत्य व सही है।  
स्थान: हमीरपुर  
दिनांक : 31.12.2022

1-2-3

RTI  
श्री प्रदीप देवी

1882 No. 31/12/22 Date 20/12/22  
Sub-Division W/o Togo &  
Dinesh Kumar  
Has Nethi  
43-H RAKESH KANI



No. 3873  
Certified that above Affidavit/Document  
declared before me on 4-1-23  
by Sh./Smt. Keshav Singh  
who is identified by Sh. V. Jay Kumar  
who is personally known to me  
The contents of the above affidavit/document  
have been read over & explained to the  
deponent/executant.

AJAY KUMAR SHARMA  
NOTARY PUBLIC  
Sub-Division Nadaun & Hamirpur (H.P.)

# भारतीय गैर न्यायिक

बीस रुपये

रु.20



Rs.20

TWENTY RUPEES

INDIA NON JUDICIAL

हिमाचल प्रदेश HIMACHAL PRADESH

05AA 963296

शपथ पत्र

हम सुनील कुमार, मदन कुमार, विजय कुमार सपुत्रांन श्री परस राम निवासी महाल खगल, मौजा जंगल, तह0 व जिला हमीरपुर हि0 प्र0 के स्थायी निवासी हैं तथा विधिवत निम्न घोषणा करते हैं कि:

1. यह कि हम सभी उपरोक्त पते के स्थाई निवासी हैं।
2. यह कि हम भूमि खाता न0 10 मिन, खतौनी न0 10 मिन, खसरा न0 295, 296 किता 2, कुल रक्वा तादादी 00-69-67 हैक्टेयर बंजर कदोम स्थित महाल खगल, मौजा जंगल, तह0 व जिला हमीरपुर के मुस्त्रिका मालकान हैं। इस भूमि के साथ हमीरपुर बाई पास टू-लेन सड़क निर्माण कार्य शुरू होने वाला है जिसके लिये हमीरपुर बाई पास प्राइवेट लिमिटेड द्वारा पहाड़ी के कटान से निकाला गया मलवा अगर हमारी उपरोक्त भूमि में गिराया जाता है तो हमारा कोई एतराज नहीं होगा।

स्थान: हमीरपुर

दिनांक : 31.12.2022

हस्ताक्षर

1. Sunil Kumar 2. Madan Kumar 3. ViJay Kumar 4. \_\_\_\_\_

सत्यापन :-

ATTESTED

NOTARY

BALDEV SINGH PHUL

Notary Public

हस्ताक्षर



स्थान: हमीरपुर

दिनांक : 31.12.2022

Distt. Courts Hamirpur (H.P.)

1. Sunil Kumar 2. Madan Kumar 3. ViJay Kumar 4. \_\_\_\_\_

1821 31/12/2020 Smt. Manoj

Name..... Smt. Manoj

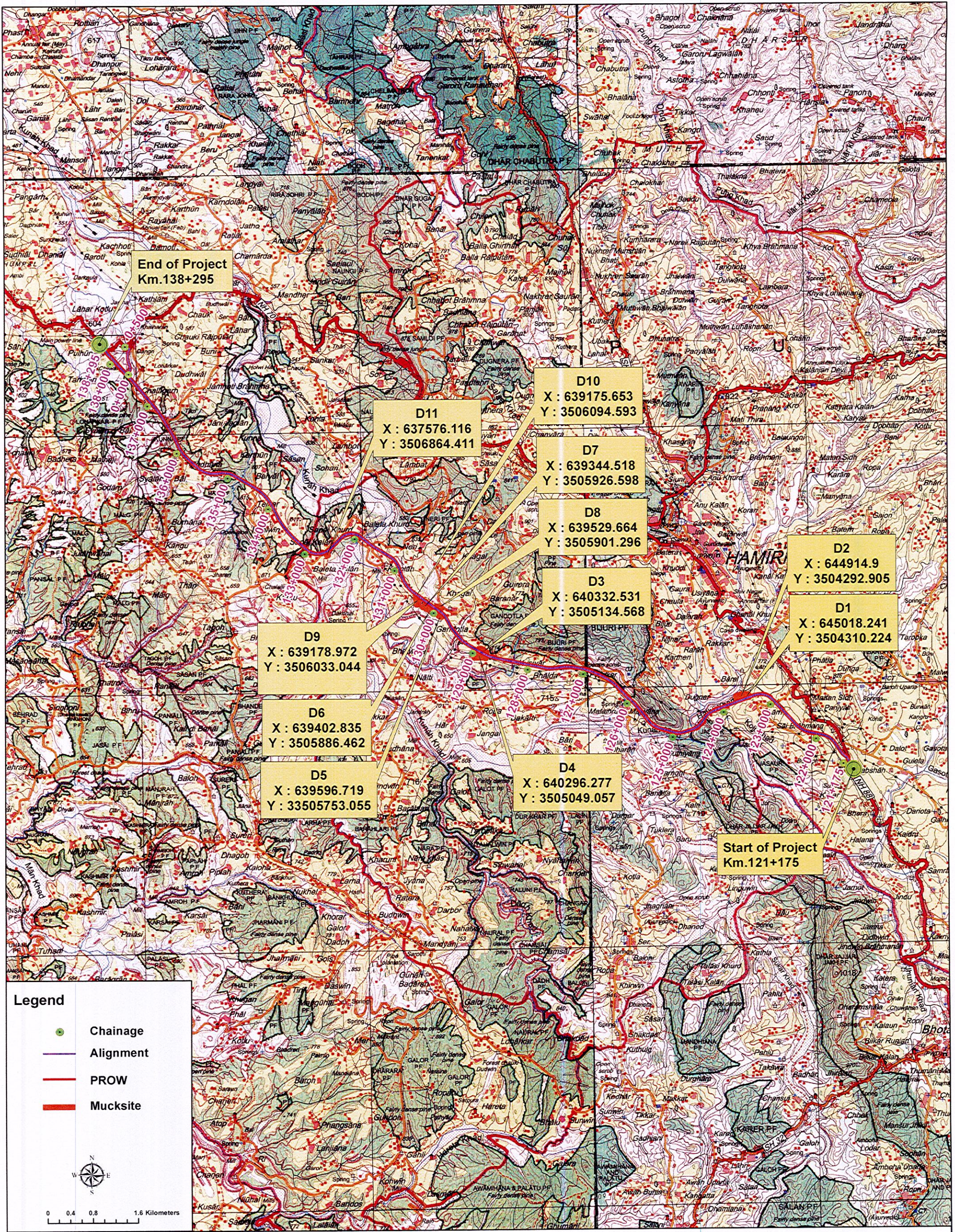
Vill/Ward..... Neth

Tell.....

Stamp Value..... UNIT, RAKESH RANI 43-H



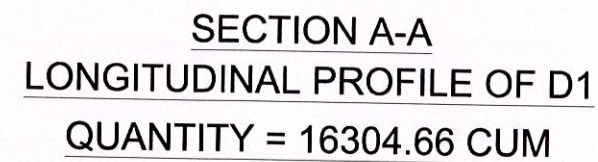
S.No..... 07  
Certified that above Affidavit/Document  
declared before me on 31/12/2020  
by Smt. Manoj  
who is known to me  
who is known to me  
The contents of the  
has been read over  
executed before me  
Smt. Manoj  
Affidavit  
Baldev Singh Phul  
NOTARY PUBLIC  
Sup. Hamirpur (HP)



Project :

Construction of New 2 Lane with Paved Shoulder of Hamirpur Bypass of NH-88 (New NH-103 & 03)  
(Design Chainage-Km.121+175 to Km.138+295, Design Length-17.120 Km) in the State of Himachal Pradesh

Project Director  
NHAI PIU HAMIRPUR

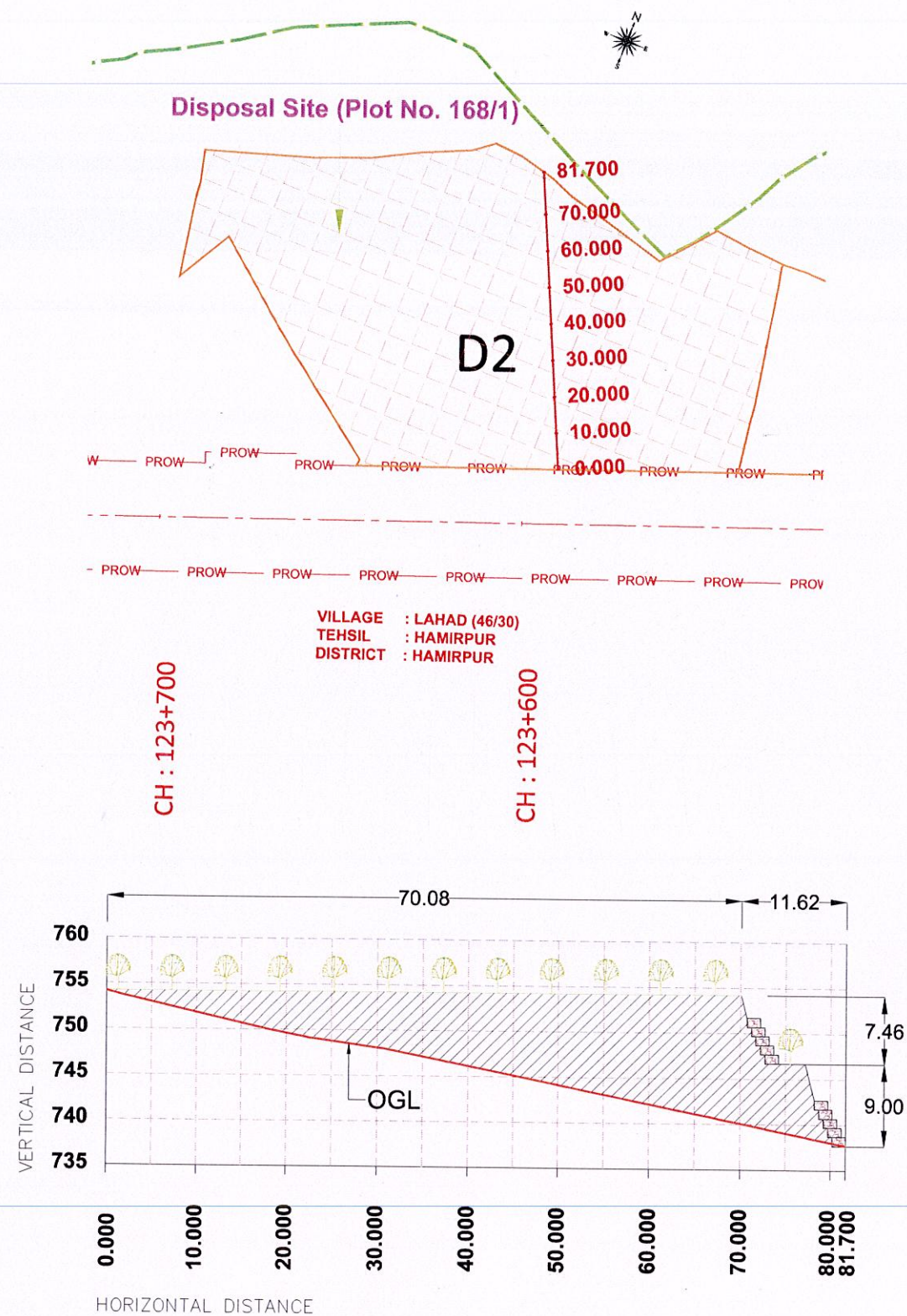


  
Project Director  
NHAI PIU HAMIRPUR

|                                                                                                                                         |                                                                                                                    |                                                                                                                                                                                                                                   |                                                                                                                              |                                                                                                                                                                                                                                        |                                                |               |             |            |
|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|---------------|-------------|------------|
|  <div>NATIONAL HIGHWAYS<br/>AUTHORITY OF INDIA</div> | Scale :-<br><br>N. T. S                                                                                            | Project Title<br><br>CONSTRUCTION OF NEW 2 LANE WITH PAVED SHOULDER OF HAMIRPUR BYPASS OF NH-103 & NH-3 (DESIGN CHAINAGE-KM. 121+175 TO KM.138+295, DESIGN LENGTH-17.120 KM) IN THE STATE OF HIMACHAL PRADESH UNDER NH (O) ON HAM | Drawing Name<br><br>DISPOSAL PLAN OF EXCESS<br>EARTH QUANTITY<br>SITE - D1                                                   |  <div>Intercontinental Consultants &amp; Technocrats Pvt Ltd,<br/>A-8, Green Park, New Delhi - 110016<br/>Ph : 011 4086-3000, Fax 2685-5252</div> | R1                                             | January, 2023 | DPR         |            |
|                                                                                                                                         |                                                                                                                    |                                                                                                                                                                                                                                   |                                                                                                                              |                                                                                                                                                                                                                                        | R0                                             | May, 2022     | DPR         | Checked by |
|                                                                                                                                         |                                                                                                                    |                                                                                                                                                                                                                                   |                                                                                                                              |                                                                                                                                                                                                                                        | Revisions                                      | Date          | Description |            |
|                                                                                                                                         |                                                                                                                    |                                                                                                                                                                                                                                   |                                                                                                                              |                                                                                                                                                                                                                                        | Revisions                                      |               |             |            |
|                                                                                                                                         |                                                                                                                    |                                                                                                                                                                                                                                   |                                                                                                                              |                                                                                                                                                                                                                                        | DRAWING No:- NHAI/NH-88/SHIMLA - MATAUR/DP/ 01 |               |             |            |
| <br>Manoj Rawat<br>Prepared by                     | <br>K.K. Verma<br>Designed by | <br>Neeraj Choudhary<br>Checked by                                                                                                           | <br>Sandip Bhattacharjee<br>Approved by |                                                                                                                                                                                                                                        |                                                |               |             |            |

TO SHIMLA

TO MATAUR



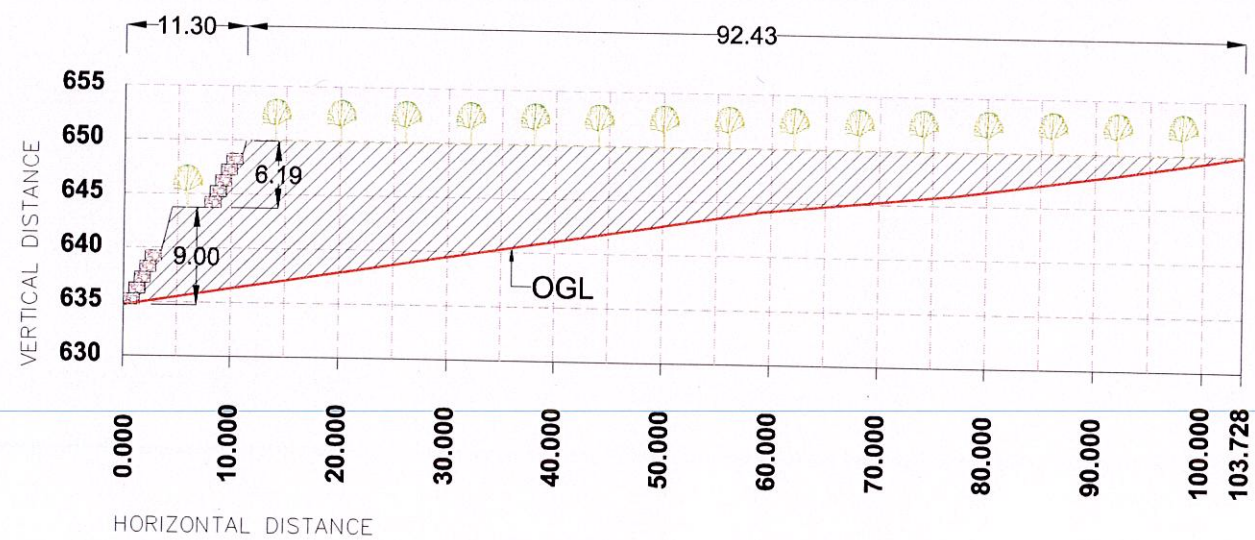
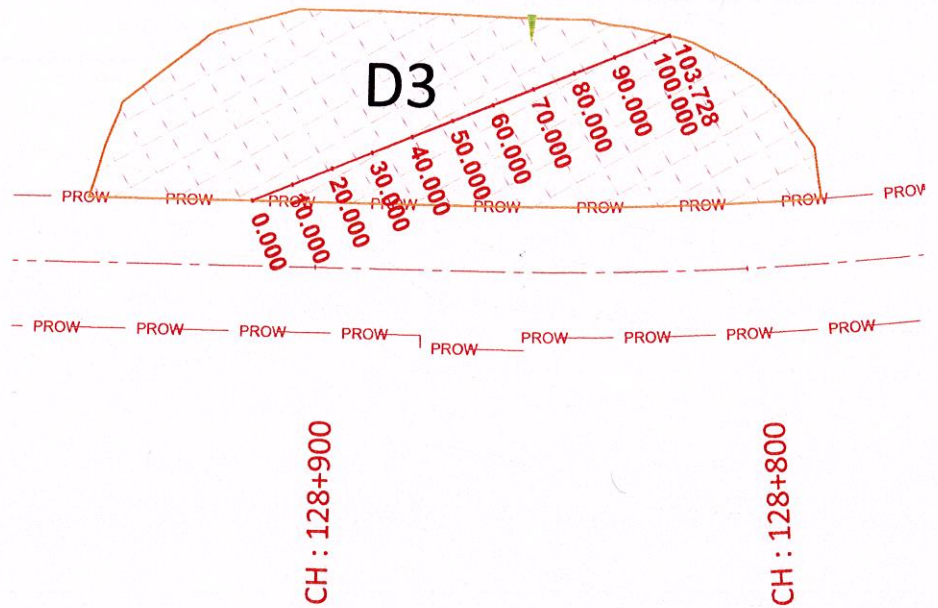
Project Director  
NHAI PIU HAMIRPUR

|                                                                                                                                |                                                                                                                   |                                                                                                                                                                                                                                        |                                                                                                                              |                                                                                                                                                                                                                          |           |               |             |            |
|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------|-------------|------------|
| <br>NATIONAL HIGHWAYS<br>AUTHORITY OF INDIA | Scale : -<br><br>N. T. S                                                                                          | Project Title<br><br>CONSTRUCTION OF NEW 2 LANE WITH PAVED SHOULDER OF HAMIRPUR BYPASS OF<br>NH-103 & NH-3 (DESIGN CHAINAGE-KM.121+175 TO KM.138+295, DESIGN LENGTH-17.120<br>KM) IN THE STATE OF HIMACHAL PRADESH UNDER NH (O) ON HAM | Drawing Name<br><br>DISPOSAL PLAN OF EXCESS<br>EARTH QUANTITY<br>SITE - D2                                                   | <br>Intercontinental Consultants & Technocrats Pvt Ltd,<br>A-8, Green Park, New Delhi - 110016<br>Ph : 011 4086-3000, Fax 2685-5252 | R1        | January, 2023 | DPR         |            |
|                                                                                                                                |                                                                                                                   |                                                                                                                                                                                                                                        |                                                                                                                              |                                                                                                                                                                                                                          | R0        | May, 2022     | DPR         | Checked by |
|                                                                                                                                |                                                                                                                   |                                                                                                                                                                                                                                        |                                                                                                                              |                                                                                                                                                                                                                          | Revisions | Date          | Description |            |
|                                                                                                                                |                                                                                                                   |                                                                                                                                                                                                                                        |                                                                                                                              |                                                                                                                                                                                                                          | Revisions |               |             |            |
| <br>Manoj Rawat<br>Prepared by            | <br>K.K.Verma<br>Designed by | <br>Neeraj Choudhary<br>Checked by                                                                                                                | <br>Sandip Bhattacharjee<br>Approved by | DRAWING No:- NHAI/NH-88/SHIMLA - MATAUR/DP/ 02                                                                                                                                                                           |           |               |             | Rev.       |
|                                                                                                                                |                                                                                                                   |                                                                                                                                                                                                                                        |                                                                                                                              | R1                                                                                                                                                                                                                       |           |               |             |            |

TO MATAUR ►



**Disposal Site (Plot No. 187/1)**



SECTION A-A  
LONGITUDINAL PROFILE OF D3  
QUANTITY = 27930.87 CUM

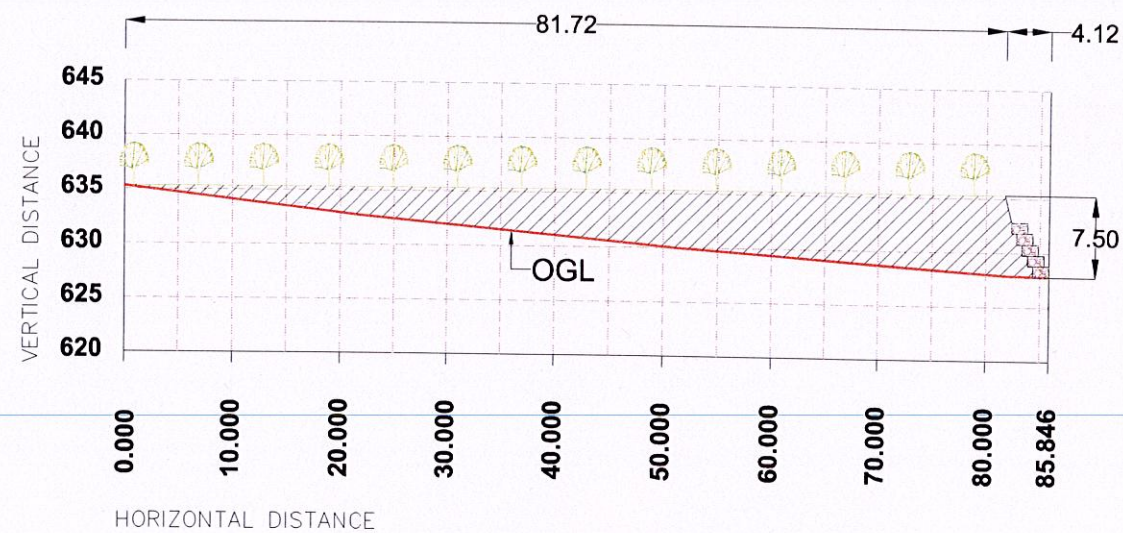
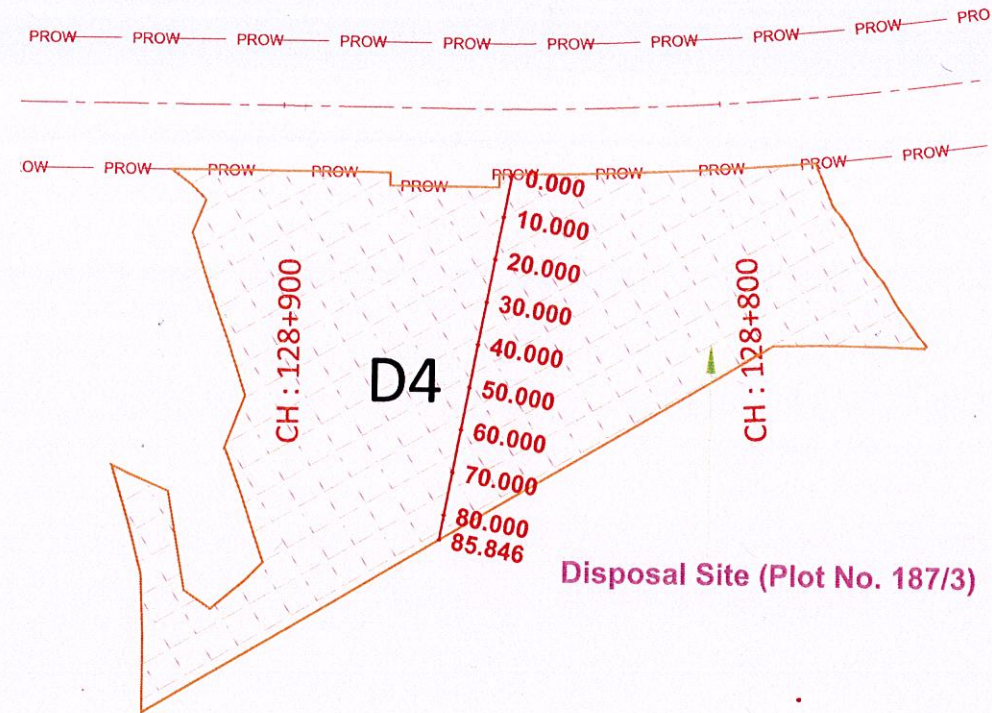
  
Project Director  
NHAI PIU HAMIRPUR

|                                                                                                                                         |          |                                                                                                                                                                                                             |                                                     |                                                                                                                                                                                                                                        |                                                |               |             |            |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|---------------|-------------|------------|
|  <div>NATIONAL HIGHWAYS<br/>AUTHORITY OF INDIA</div> | Scale :- | Project Title                                                                                                                                                                                               | Drawing Name                                        |  <div>Intercontinental Consultants &amp; Technocrats Pvt Ltd,<br/>A-8, Green Park, New Delhi - 110016<br/>Ph : 011 4086-3000, Fax 2685-5252</div> | R1                                             | January, 2023 | DPR         |            |
|                                                                                                                                         | N. T. S  | CONSTRUCTION OF NEW 2 LANE WITH PAVED SHOULDER OF HAMIRPUR BYPASS OF NH-103 & NH-3 (DESIGN CHAINAGE-KM 121+175 TO KM.138+295, DESIGN LENGTH-17.120 KM) IN THE STATE OF HIMACHAL PRADESH UNDER NH (O) ON HAM | DISPOSAL PLAN OF EXCESS EARTH QUANTITY<br>SITE - D3 |                                                                                                                                                                                                                                        | R0                                             | May, 2022     | DPR         | Checked by |
|                                                                                                                                         |          |                                                                                                                                                                                                             |                                                     |                                                                                                                                                                                                                                        | Revisions                                      | Date          | Description |            |
|                                                                                                                                         |          |                                                                                                                                                                                                             |                                                     |                                                                                                                                                                                                                                        | Revisions                                      |               |             |            |
|                                                                                                                                         |          |                                                                                                                                                                                                             |                                                     |                                                                                                                                                                                                                                        | DRAWING No:- NHAI/NH-88/SHIMLA - MATAUR/DP/ 03 |               | Rev.        |            |
|                                                                                                                                         |          |                                                                                                                                                                                                             |                                                     |                                                                                                                                                                                                                                        |                                                |               | R1          |            |

◀ TO SHIMLA

TO MATAUR ▶

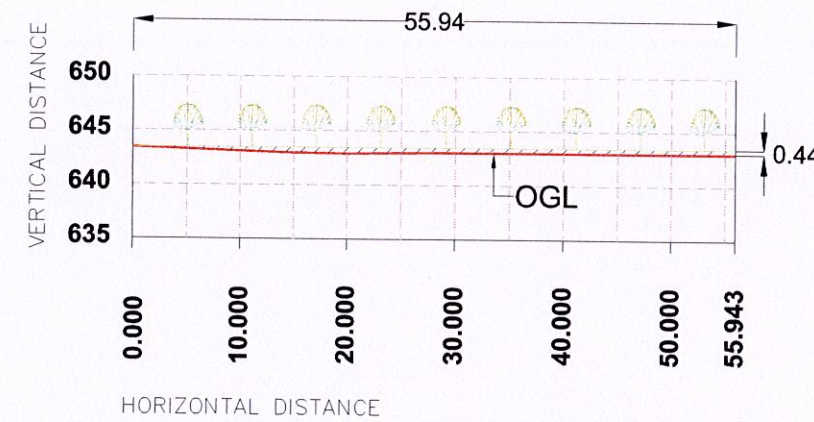
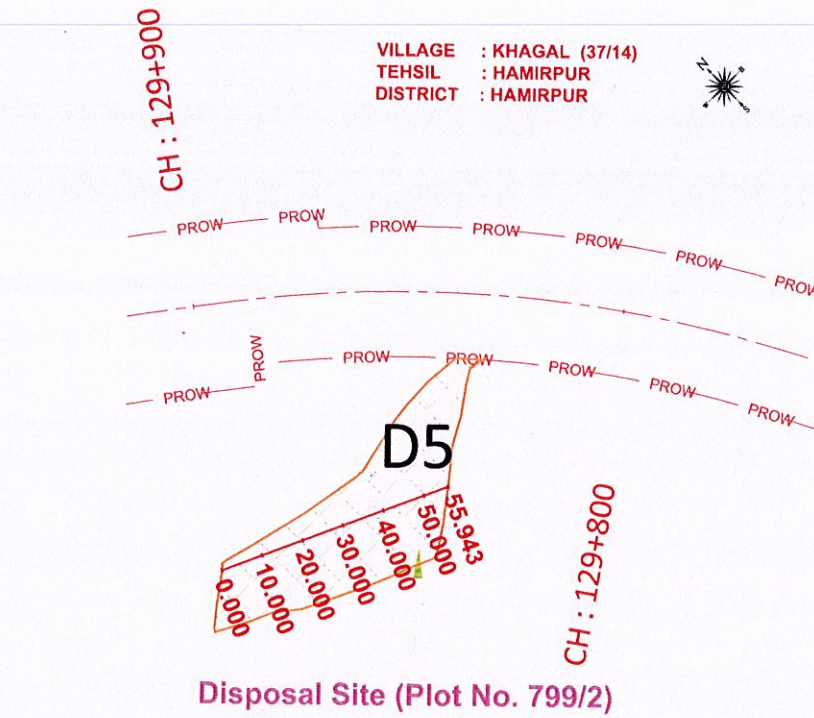
VILLAGE : GHANOTLA (37/15)  
TEHSIL : HAMIRPUR  
DISTRICT : HAMIRPUR



**SECTION A-A**  
**LONGITUDINAL PROFILE OF D4**  
**QUANTITY = 41168.05 CUM**

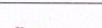
  
**Project Director**  
**NHAI PIU HAMIRPUR**

|                                                                                                                             |          |                                                                                                                                                                                                                    |                                                        |  |                                                                                       |                                                                                                                                 |                          |                                |                                     |                                                |               |             |            |
|-----------------------------------------------------------------------------------------------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|--|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------------|-------------------------------------|------------------------------------------------|---------------|-------------|------------|
|  NATIONAL HIGHWAYS<br>AUTHORITY OF INDIA | Scale :- | Project Title                                                                                                                                                                                                      | Drawing Name                                           |  |  | Intercontinental Consultants & Technocrats Pvt Ltd,<br>A-8, Green Park, New Delhi - 110016<br>Ph : 011 4086-3000, Fax 2685-5252 |                          |                                |                                     | R1                                             | January, 2023 | DPR         |            |
|                                                                                                                             | N. T. S  | CONSTRUCTION OF NEW 2 LANE WITH PAVED SHOULDER OF HAMIRPUR BYPASS OF<br>NH-103 & NH-3 (DESIGN CHAINAGE-KM. 121+175 TO KM.138+295, DESIGN LENGTH-17.120<br>KM) IN THE STATE OF HIMACHAL PRADESH UNDER NH (O) ON HAM | DISPOSAL PLAN OF EXCESS<br>EARTH QUANTITY<br>SITE - D4 |  |                                                                                       | Manoj Rawat<br>Prepared by                                                                                                      | K.K.Verma<br>Designed by | Neeraj Choudhary<br>Checked by | Sandip Bhattacharjee<br>Approved by | R0                                             | May, 2022     | DPR         | Checked by |
|                                                                                                                             |          |                                                                                                                                                                                                                    |                                                        |  |                                                                                       |                                                                                                                                 |                          |                                |                                     | Revisions                                      | Date          | Description |            |
|                                                                                                                             |          |                                                                                                                                                                                                                    |                                                        |  |                                                                                       |                                                                                                                                 |                          |                                |                                     | Revisions                                      |               |             |            |
|                                                                                                                             |          |                                                                                                                                                                                                                    |                                                        |  |                                                                                       |                                                                                                                                 |                          |                                |                                     | DRAWING No:- NHAI/NH-88/SHIMLA - MATAUR/DP/ 04 |               |             |            |
|                                                                                                                             |          |                                                                                                                                                                                                                    |                                                        |  |                                                                                       |                                                                                                                                 |                          |                                |                                     | R1                                             |               |             |            |



SECTION A-A  
LONGITUDINAL PROFILE OF D5  
QUANTITY = 607.76 CUM

  
Project Director  
NHAI PIU HAMIRPUR

|                                                                                                                             |                                                                                                                   |                                                                                                                                                                                                                                        |                                                                                                                              |                                                                                                                                                                                                                       |           |               |             |            |
|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------|-------------|------------|
|  NATIONAL HIGHWAYS<br>AUTHORITY OF INDIA | Scale : -<br><br>N. T. S                                                                                          | Project Title<br><br>CONSTRUCTION OF NEW 2 LANE WITH PAVED SHOULDER OF HAMIRPUR BYPASS OF<br>NH-103 & NH-3 (DESIGN CHAINAGE-KM.121+175 TO KM.138+295, DESIGN LENGTH-17.120<br>KM) IN THE STATE OF HIMACHAL PRADESH UNDER NH (O) ON HAM | Drawing Name<br><br>DISPOSAL PLAN OF EXCESS<br><br>EARTH QUANTITY<br>SITE - D5                                               |  Intercontinental Consultants & Technocrats Pvt Ltd,<br>A-8, Green Park, New Delhi - 110016<br>Ph : 011 4086-3000, Fax 2685-5252 |           |               |             |            |
|                                                                                                                             |                                                                                                                   |                                                                                                                                                                                                                                        |                                                                                                                              |                                                                                                                                                                                                                       | R1        | January, 2023 | DPR         |            |
|                                                                                                                             |                                                                                                                   |                                                                                                                                                                                                                                        |                                                                                                                              |                                                                                                                                                                                                                       | R0        | May, 2022     | DPR         | Checked by |
|                                                                                                                             |                                                                                                                   |                                                                                                                                                                                                                                        |                                                                                                                              |                                                                                                                                                                                                                       | Revisions | Date          | Description |            |
|                                                                                                                             |                                                                                                                   |                                                                                                                                                                                                                                        |                                                                                                                              |                                                                                                                                                                                                                       | Revisions |               |             |            |
| <br>Manoj Rawat<br>Prepared by         | <br>K.K.Verma<br>Designed by | <br>Neeraj Choudhary<br>Checked by                                                                                                                | <br>Sandip Bhattacharjee<br>Approved by | DRAWING No:- NHAI/NH-88/SHIMLA - MATAUR/DP/ 05                                                                                                                                                                        |           | Rev.          |             |            |
|                                                                                                                             |                                                                                                                   |                                                                                                                                                                                                                                        |                                                                                                                              |                                                                                                                                                                                                                       |           | R1            |             |            |

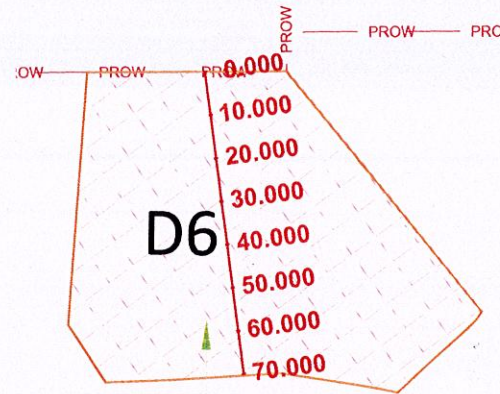
◀ TO SHIMLA

TO MATAUR ▶

VILLAGE : KHAGAL (37/14)  
TEHSIL : HAMIRPUR  
DISTRICT : HAMIRPUR

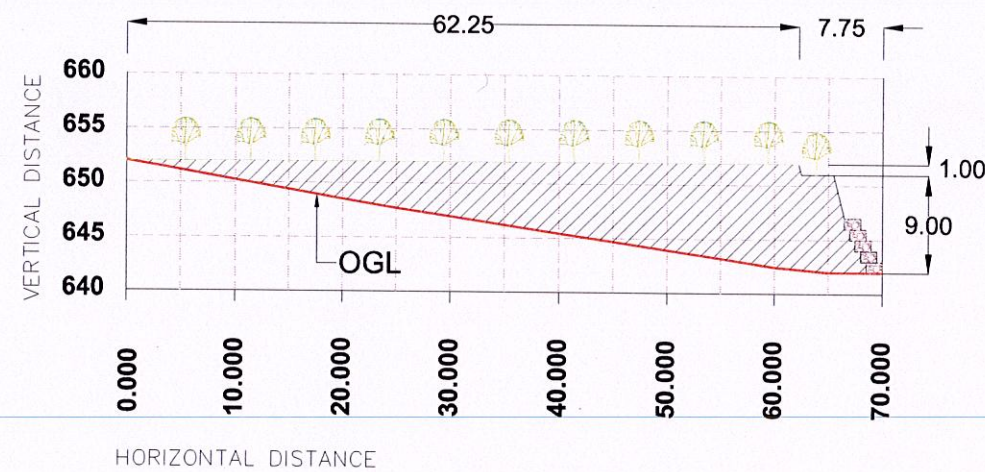


W PROW PROW PROW PROW P

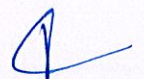


Disposal Site (Plot No. 813/4)

CH : 130+100



SECTION A-A  
LONGITUDINAL PROFILE OF D6  
QUANTITY = 30284.69 CUM

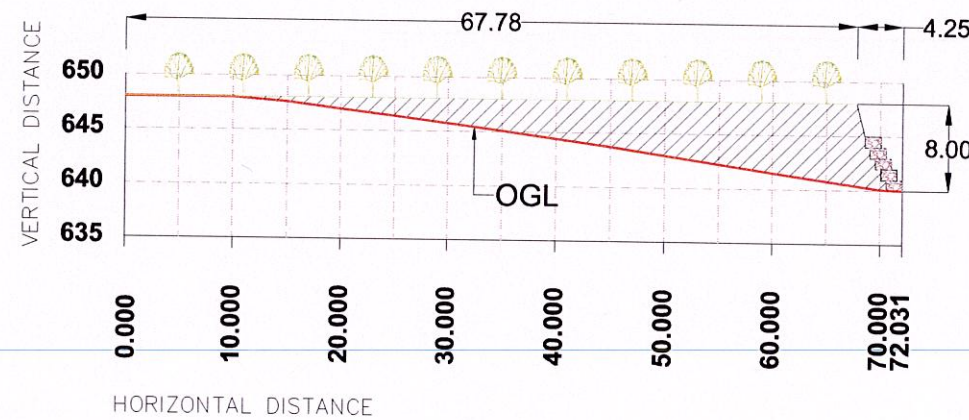
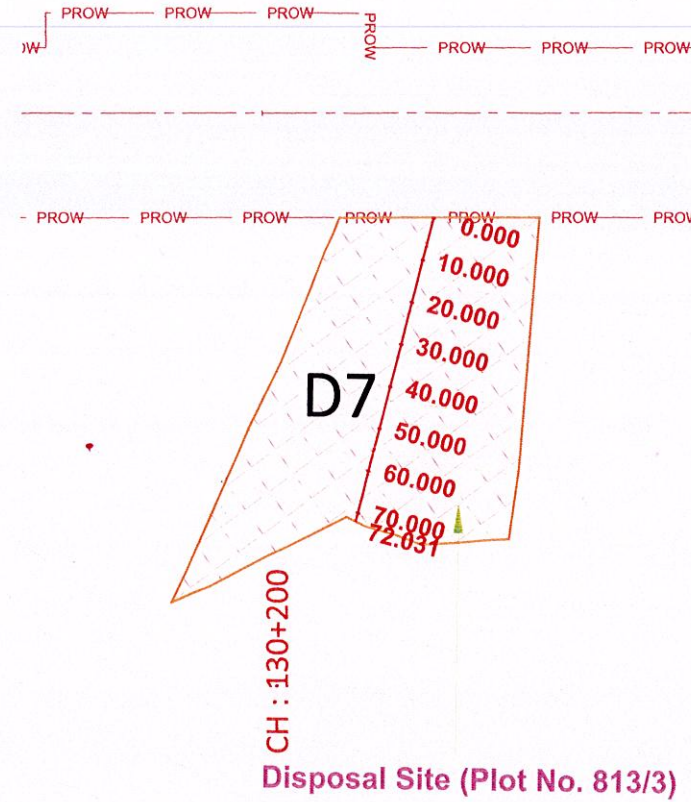
  
Project Director  
NHAI PIU HAMIRPUR

|                                                                                                                             |           |                                                                                                                                                                                                                   |                                                        |                                                                                                                                                                                                                                        |                                                |               |             |            |      |
|-----------------------------------------------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|---------------|-------------|------------|------|
|  NATIONAL HIGHWAYS<br>AUTHORITY OF INDIA | Scale : - | Project Title                                                                                                                                                                                                     | Drawing Name                                           |  <div>Intercontinental Consultants &amp; Technocrats Pvt Ltd,<br/>A-8, Green Park, New Delhi - 110016<br/>Ph : 011 4086-3000, Fax 2685-5252</div> | R1                                             | January, 2023 | DPR         |            |      |
|                                                                                                                             | N. T. S   | CONSTRUCTION OF NEW 2 LANE WITH PAVED SHOULDER OF HAMIRPUR BYPASS OF<br>NH-103 & NH-3 (DESIGN CHAINAGE-KM.121+175 TO KM.138+295, DESIGN LENGTH-17.120<br>KM) IN THE STATE OF HIMACHAL PRADESH UNDER NH (O) ON HAM | DISPOSAL PLAN OF EXCESS<br>EARTH QUANTITY<br>SITE - D6 |                                                                                                                                                                                                                                        | R0                                             | May, 2022     | DPR         | Checked by |      |
|                                                                                                                             |           |                                                                                                                                                                                                                   |                                                        |                                                                                                                                                                                                                                        | Revisions                                      | Date          | Description |            |      |
|                                                                                                                             |           |                                                                                                                                                                                                                   |                                                        |                                                                                                                                                                                                                                        | Revisions                                      |               |             |            |      |
|                                                                                                                             |           |                                                                                                                                                                                                                   |                                                        |                                                                                                                                                                                                                                        | DRAWING No:- NHAI/NH-88/SHIMLA - MATAUR/DP/ 06 |               |             |            | Rev. |
|                                                                                                                             |           |                                                                                                                                                                                                                   |                                                        |                                                                                                                                                                                                                                        | Prepared by                                    |               |             |            | R1   |
|                                                                                                                             |           |                                                                                                                                                                                                                   |                                                        |                                                                                                                                                                                                                                        | Designed by                                    |               |             |            |      |
|                                                                                                                             |           |                                                                                                                                                                                                                   |                                                        |                                                                                                                                                                                                                                        | Checked by                                     |               |             |            |      |
|                                                                                                                             |           |                                                                                                                                                                                                                   |                                                        |                                                                                                                                                                                                                                        | Approved by                                    |               |             |            |      |

◀ TO SHIMLA

TO MATAUR ▶

VILLAGE : KHAGAL (37/14)  
TEHSIL : HAMIRPUR  
DISTRICT : HAMIRPUR



**SECTION A-A**  
**LONGITUDINAL PROFILE OF D7**  
**QUANTITY = 12747.88 CUM**

  
**Project Director**  
**NHAI PIU HAMIRPUR**

|                                                                                                                             |           |                                                                                                                                                                                                                   |                                                        |                                                                                                                                 |             |           |                  |                      |                                                |           |             |            |
|-----------------------------------------------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-------------|-----------|------------------|----------------------|------------------------------------------------|-----------|-------------|------------|
|  NATIONAL HIGHWAYS<br>AUTHORITY OF INDIA | Scale : - | Project Title                                                                                                                                                                                                     | Drawing Name                                           | Intercontinental Consultants & Technocrats Pvt Ltd,<br>A-8, Green Park, New Delhi - 110016<br>Ph : 011 4086-3000, Fax 2685-5252 |             |           |                  | R1                   | January, 2023                                  | DPR       |             |            |
|                                                                                                                             | N. T. S   | CONSTRUCTION OF NEW 2 LANE WITH PAVED SHOULDER OF HAMIRPUR BYPASS OF<br>NH-103 & NH-3 (DESIGN CHAINAGE-KM.121+175 TO KM.138+295, DESIGN LENGTH-17.120<br>KM) IN THE STATE OF HIMACHAL PRADESH UNDER NH (O) ON HAM | DISPOSAL PLAN OF EXCESS<br>EARTH QUANTITY<br>SITE - D7 |                                            | Manoj Rawat | K.K.Verma | Neeraj Choudhary | Sandip Bhattacharjee | R0                                             | May, 2022 | DPR         | Checked by |
|                                                                                                                             |           |                                                                                                                                                                                                                   |                                                        |                                                                                                                                 |             |           |                  |                      | Revisions                                      | Date      | Description |            |
|                                                                                                                             |           |                                                                                                                                                                                                                   |                                                        |                                                                                                                                 |             |           |                  |                      | Revisions                                      |           |             |            |
|                                                                                                                             |           |                                                                                                                                                                                                                   |                                                        |                                                                                                                                 |             |           |                  |                      | DRAWING No:- NHAI/NH-88/SHIMLA - MATAUR/DP/ 07 |           |             |            |
|                                                                                                                             |           |                                                                                                                                                                                                                   |                                                        |                                                                                                                                 |             |           |                  |                      | R1                                             |           |             |            |

◀ TO SHIMLA

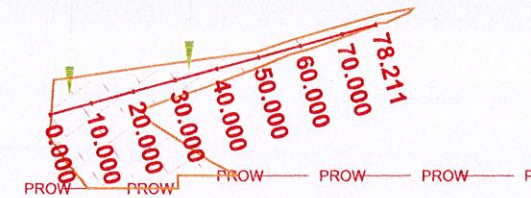
TO MATAUR ▶

VILLAGE : KHAGAL (37/14)  
TEHSIL : HAMIRPUR  
DISTRICT : HAMIRPUR



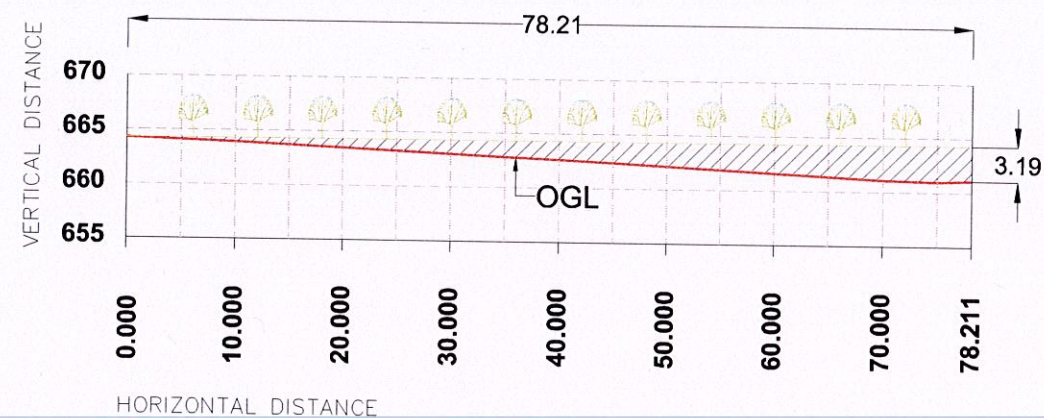
Disposal Site (Plot No. 807/1)

D8



OW PROW PROW PROW PROW PROW

CH : 130+000



SECTION A-A  
LONGITUDINAL PROFILE OF D8  
QUANTITY = 2871.28 CUM

Project Director  
NHAI PIU HAMIRPUR

|                                                                                                                             |           |                                                                                                                                                                                                                   |                                                        |                                                                                       |                                                                                                                                 |  |  |      |           |               |             |            |
|-----------------------------------------------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|--|--|------|-----------|---------------|-------------|------------|
|  NATIONAL HIGHWAYS<br>AUTHORITY OF INDIA | Scale : - | Project Title                                                                                                                                                                                                     | Drawing Name                                           |  | Intercontinental Consultants & Technocrats Pvt Ltd,<br>A-8, Green Park, New Delhi - 110016<br>Ph : 011 4086-3000, Fax 2685-5252 |  |  |      | R1        | January, 2023 | DPR         |            |
|                                                                                                                             | N. T. S   | CONSTRUCTION OF NEW 2 LANE WITH PAVED SHOULDER OF HAMIRPUR BYPASS OF<br>NH-103 & NH-3 (DESIGN CHAINAGE-KM.121+175 TO KM.138+295, DESIGN LENGTH-17.120<br>KM) IN THE STATE OF HIMACHAL PRADESH UNDER NH (O) ON HAM | DISPOSAL PLAN OF EXCESS<br>EARTH QUANTITY<br>SITE - D8 |                                                                                       |                                                                                                                                 |  |  |      | R0        | May, 2022     | DPR         | Checked by |
|                                                                                                                             |           |                                                                                                                                                                                                                   |                                                        |                                                                                       |                                                                                                                                 |  |  |      | Revisions | Date          | Description |            |
|                                                                                                                             |           |                                                                                                                                                                                                                   |                                                        |                                                                                       |                                                                                                                                 |  |  |      | Revisions |               |             |            |
| DRAWING No:- NHAI/NH-88/SHIMLA - MATAUR/DP/ 08                                                                              |           |                                                                                                                                                                                                                   |                                                        |                                                                                       |                                                                                                                                 |  |  | Rev. | R1        |               |             |            |

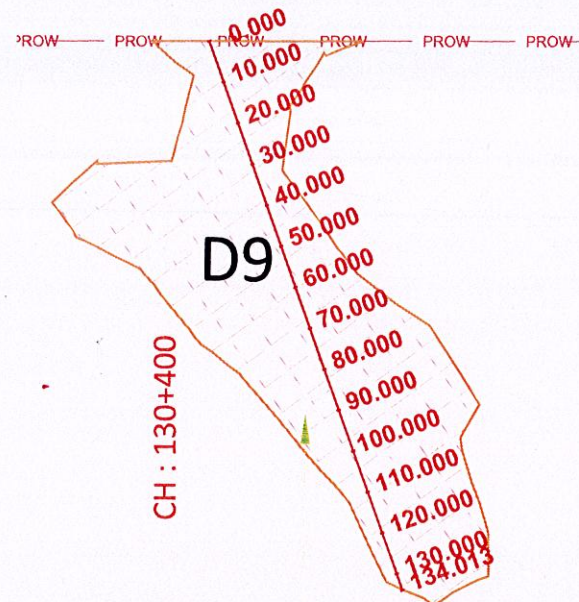
TO SHIMLA

TO MATAUR

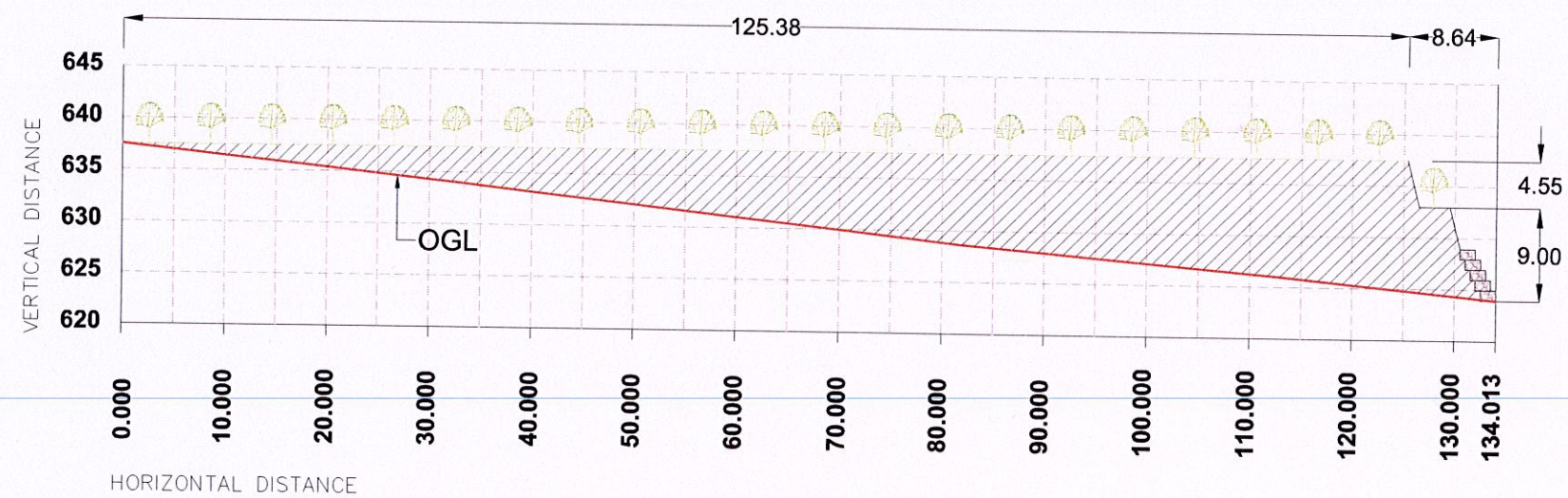
VILLAGE : KHAGAL (37/14)  
TEHSIL : HAMIRPUR  
DISTRICT : HAMIRPUR



PROW PROW PROW PROW PROW PROW

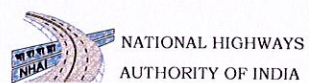


Disposal Site (Plot No. 295)



SECTION A-A  
LONGITUDINAL PROFILE OF D9  
QUANTITY = 34966.93 CUM

  
Project Director  
NHAI PIU HAMIRPUR



Scale : -

N. T. S

Project Title

CONSTRUCTION OF NEW 2 LANE WITH PAVED SHOULDER OF HAMIRPUR BYPASS OF  
NH-103 & NH-3 (DESIGN CHAINAGE-KM.121+175 TO KM.138+295, DESIGN LENGTH-17.120  
KM) IN THE STATE OF HIMACHAL PRADESH UNDER NH (O) ON HAM

Drawing Name

DISPOSAL PLAN OF EXCESS  
EARTH QUANTITY  
SITE - D9



Intercontinental Consultants & Technocrats Pvt Ltd,  
A-8, Green Park, New Delhi - 110016  
Ph : 011 4086-3000, Fax 2685-5252

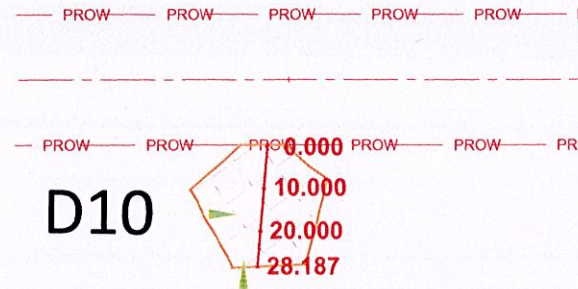
|             |             |                  |                      |
|-------------|-------------|------------------|----------------------|
| Manoj Rawat | K.K.Verma   | Neeraj Choudhary | Sandip Bhattacharjee |
| Prepared by | Designed by | Checked by       | Approved by          |

|                                                |               |             |            |
|------------------------------------------------|---------------|-------------|------------|
| R1                                             | January, 2023 | DPR         |            |
| R0                                             | May, 2022     | DPR         | Checked by |
| Revisions                                      | Date          | Description |            |
| Revisions                                      |               |             |            |
| DRAWING No:- NHAI/NH-88/SHIMLA - MATAUR/DP/ 09 |               |             |            |
|                                                |               |             | Rev.       |
|                                                |               |             | R1         |

◀ TO SHIMLA

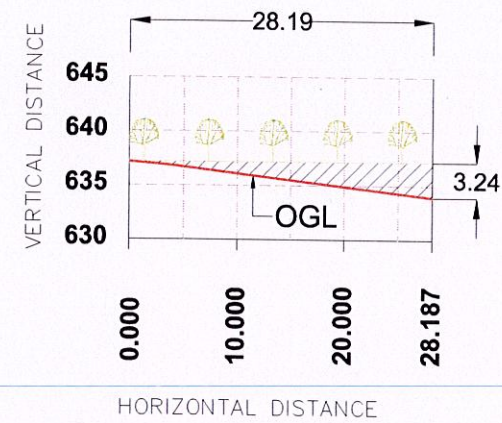
TO MATAUR ▶

VILLAGE : KHAGAL (37/14)  
TEHSIL : HAMIRPUR  
DISTRICT : HAMIRPUR



Disposal Site (Plot No. 296)

CH : 130+400



**SECTION A-A**  
**LONGITUDINAL PROFILE OF D10**  
**QUANTITY = 859.63 CUM**

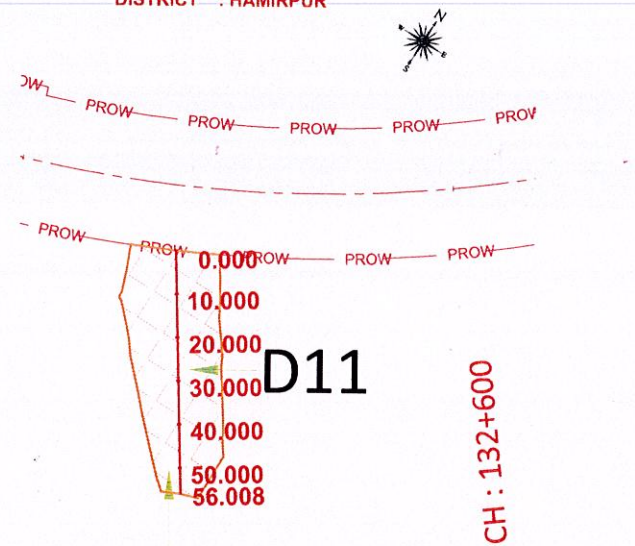
  
**Project Director**  
**NHAI PIU HAMIRPUR**

|                                                                                                                             |                                                                                                                |                                                                                                                                                                                                                                        |                                                                                                                           |                                                                                                                                                                                                                          |           |               |             |            |
|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------|-------------|------------|
|  NATIONAL HIGHWAYS<br>AUTHORITY OF INDIA | Scale : -<br><br>N. T. S                                                                                       | Project Title<br><br>CONSTRUCTION OF NEW 2 LANE WITH PAVED SHOULDER OF HAMIRPUR BYPASS OF<br>NH-103 & NH-3 (DESIGN CHAINAGE-KM.121+175 TO KM.138+295, DESIGN LENGTH-17.120<br>KM) IN THE STATE OF HIMACHAL PRADESH UNDER NH (O) ON HAM | Drawing Name<br><br>DISPOSAL PLAN OF EXCESS<br>EARTH QUANTITY<br>SITE - D10                                               | <br>Intercontinental Consultants & Technocrats Pvt Ltd,<br>A-8, Green Park, New Delhi - 110016<br>Ph : 011 4086-3000, Fax 2685-5252 | R1        | January, 2023 | DPR         |            |
|                                                                                                                             |                                                                                                                |                                                                                                                                                                                                                                        |                                                                                                                           |                                                                                                                                                                                                                          | R0        | May, 2022     | DPR         | Checked by |
|                                                                                                                             |                                                                                                                |                                                                                                                                                                                                                                        |                                                                                                                           |                                                                                                                                                                                                                          | Revisions | Date          | Description |            |
|                                                                                                                             |                                                                                                                |                                                                                                                                                                                                                                        |                                                                                                                           |                                                                                                                                                                                                                          | Revisions |               |             |            |
|  Manoj Rawat<br>Prepared by            |  K.K.Verma<br>Designed by |  Neeraj Choudhary<br>Checked by                                                                                                                   |  Sandip Bhattacharjee<br>Approved by | DRAWING No:- NHAI/NH-88/SHIMLA - MATAUR/DP/ 10                                                                                                                                                                           |           |               |             | Rev.       |
|                                                                                                                             |                                                                                                                |                                                                                                                                                                                                                                        |                                                                                                                           |                                                                                                                                                                                                                          |           |               |             | R1         |

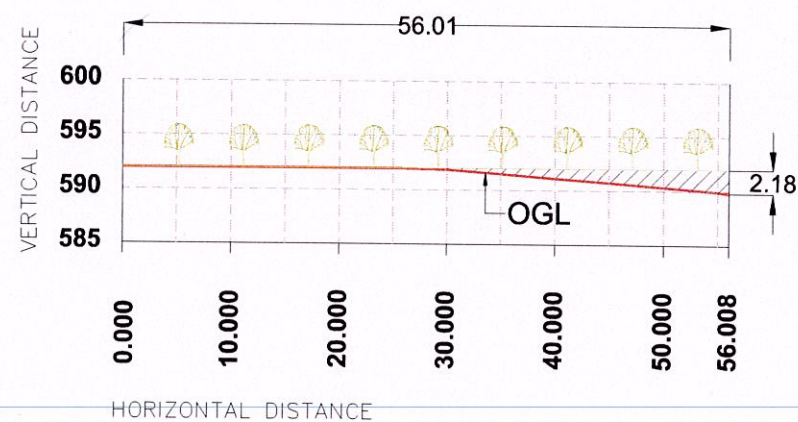
◀ TO SHIMLA

TO MATAUR ▶

VILLAGE : BALETA KALAN (37/29)  
TEHSIL : HAMIRPUR  
DISTRICT : HAMIRPUR



Disposal Site (Plot No. 190/2)



SECTION A-A  
LONGITUDINAL PROFILE OF D11  
QUANTITY = 608.42 CUM

  
Project Director  
NHAI PIU HAMIRPUR



Scale : -

N. T. S

Project Title

CONSTRUCTION OF NEW 2 LANE WITH PAVED SHOULDER OF HAMIRPUR BYPASS OF NH-103 & NH-3 (DESIGN CHAINAGE-KM.121+175 TO KM.138+295, DESIGN LENGTH-17.120 KM) IN THE STATE OF HIMACHAL PRADESH UNDER NH (O) ON HAM

Drawing Name

DISPOSAL PLAN OF EXCESS  
EARTH QUANTITY  
SITE - D11



Intercontinental Consultants & Technocrats Pvt Ltd,  
A-8, Green Park, New Delhi - 110016  
Ph : 011 4086-3000, Fax 2685-5252

|             |             |                  |                      |
|-------------|-------------|------------------|----------------------|
| Manoj Rawat | K.K.Verma   | Neeraj Choudhary | Sandip Bhattacharjee |
| Prepared by | Designed by | Checked by       | Approved by          |

|                                                |               |             |            |
|------------------------------------------------|---------------|-------------|------------|
| R1                                             | January, 2023 | DPR         |            |
| R0                                             | May, 2022     | DPR         | Checked by |
| Revisions                                      | Date          | Description |            |
| Revisions                                      |               |             |            |
| DRAWING No:- NHAI/NH-88/SHIMLA - MATAUR/DP/ 11 |               |             |            |
|                                                |               |             | Rev.       |
|                                                |               |             | R1         |