

FULL TITLE OF PROJECT: Additional Forest land requirement of 11.7936 ha, for four lining of proposed Shimla Bypass from Kaithalighat to Shikral Section (Package-I) of NH-22 (Chainage from Km 128.835 to Km.146.300) in already approved FCA case of the entire section from Kaithalighat to Dhuli, Online Proposal No. [FP/HP/ROAD/151117/2022](#).

S.No.	Name of the Document (s)	Provided or Not	If not Provided Why?	Page Number
1	Check-list of the project proposal	Yes	-	1-7
2	Demand letter of the project authority/ applicant, if submitted.	Yes	-	8-9
3	Main application form from Part-I to V as prescribed in the Rules under the FCA with all its columns duly filled up and signed by the competent authority with date, place and official seal. All the information in Part-I of Form-A including item-wise breakup of the forest area required, must be given in the form itself by expanding the columns	Yes		10-18
4	Detailed note on the project. It must include the information regarding the number of villages and number of persons to be benefited from the project including employment generation.	Yes	-	19-24
5	Map of the project site/forest area required clearly showing forest boundaries and adjoining areas with their land use in distinct colours in 1:50000 or any suitable scale on original Survey of India topo sheet. If the area is very small, in addition to above, an index map may be submitted showing forest boundaries and a location map on a larger scale with land use of the area required duly signed by DFO/CF concerned.	Yes	-	25-66
6	Layout plan of project site approved by competent authority. In case of linear diversion of forest land, linear map or a diagrammatic map of the project site should be enclosed.	Yes	-	67-95
7	Statement showing the details of forest area involved i.e. Survey No. /Coupe No. /Compartment No., etc., and item-wise breakup of the forest area proposed for diversion duly signed by DFO (in the prescribed format).	Yes	-	96-98
8	Statement showing the details of non-forest area involved in the proposal (in the prescribed format).	Yes	-	99-106
9	Certificate from the Collector/Deputy Commissioner that no alternative suitable non-forest land is available for the project in question.	Yes	-	107-110
10	Justification for locating the project in forest area to be submitted by User Agency and countersigned by DFO.	Yes	-	111

11	Certificate for minimum use of forest land to be submitted by the User Agency, giving details of area and trees involved in the alternatives examined and reasons for their rejection duly countersigned by DFO (in the prescribed format).	Yes		112
12	Undertaking by the User Agency to bear the cost of compensatory afforestation duly counter signed by the DFO (in the prescribed format).	Yes		113
13	Undertaking by the User Agency to pay the Net Present Value (NPV) of the forest land involved duly countersigned by DFO (in the prescribed format).	Yes		114
	Undertaking by the User Agency to pay the Additional Net Present Value (NPV), if any, of the forest land involved duly countersigned by DFO (in the prescribed format) as decided at a later date as per the decision of the Supreme Court.	Yes		115
14	A certificate from the competent authority in the State in the prescribed (vide MoEF letter No. 11-9/98-FC (pt.) dated 5 th July 2013) format that all forest rights under the Forest Rights Act, 2006 have been settled in respect of the forest area proposed for diversion, wherever applicable. In case, the process for settlement of rights under FRA has not been initiated, grant of stage-I approval under the FCA to the proposal will be considered only if a certificate from the competent authority concerned, clearly stating that the process for settlement of rights under the FRA has not been initiated along with evidences supporting that settlement of rights under the FRA will be initiated and completed before the final approval, is enclosed with the proposal (vide F. No. 11-179/2012-FC Dated: December 20, 2013).	Yes		116
15	Species-wise and girth class-wise enumeration list and abstract of trees (abstract to be given at the end of the list) standing on the forest area in question neatly typed or computerized and duly signed by DFO.			117-168
16	Site inspection report of the forest area involved in the project proposal by the DFO concerned or higher level forest officer in prescribed format (in the prescribed format).	Yes		169

17	Details of non-forest land/degraded forest area identified for compensatory afforestation viz. Survey No./ Compartment No./Khasra No./Khatoni No., Village, Tehsil, District, etc., along with map in appropriate scale showing the boundaries of adjoining forest areas with their use in distinct colours (in the prescribed format).	-		170-175
18	Detailed scheme for compensatory afforestation on identified non-forest area/degraded forest area, as the case may be, at prevalent wage rates duly signed by DFO and countersigned by the CF concerned. The CA scheme must include all the technical details, details of work schedule, total financial outlay and proposed monitoring mechanism (in the prescribed format).	Yes		176-180
19	Certificate from the DFO, that non-forest land selected for compensatory afforestation is in a compact block and contiguous to forest area or in close proximity of forest area and suitable from the management and protection point of view.	Yes		
20	Suitability certificate from the Divisional Forest Officer that the land identified for compensatory afforestation is suitable for raising plantation (in the prescribed format).			181-183
21	Certificate from the Chief Secretary regarding non-availability of non-forest land in the state for raising compensatory afforestation, wherever applicable. This certificate will be based on the certificate signed by the DFO and Deputy Commissioner/Collector of the district concerned about non-availability of such non-forest land.			
22	In case of proposal which requires entry/exit through Protected Forest strips along roads/railway lines/canals, the following information/documents must be given :- a) No Objection Certificate (NOC) of the land owning agency i.e. NHAI/PWD, Railways or Canal/ Irrigation Department b) Change of Land Use certificate from Town and Country Planning/ any other competent authority.	-		184
23	For the projects involving forest land for construction of buildings/right of way for buildings, the built-up area, details of DG sets to be installed, and raw materials to be used (in case of industries) should be clearly mentioned.	NA		185
24	Status of clearance under Environment (Protection) Act, 1986, wherever required.	NA		186-189

25	NOC of the State Pollution Control Board for establishment of the project, wherever required.	NA		190
26	Detailed scheme for rehabilitation of project affected persons, wherever required.	NA		
27	Detailed Catchment Area Treatment Plan, wherever required. The CAT Plan should be prepared on the basis of actual survey of area and its classification in various categories requiring different engineering/ afforestation and other treatments in phased manner.	NA		
28	Detailed Reclamation Plan, wherever required. It should be realistic exhaustive and complete in all respects along with relevant maps in distinct colours. It should also include the details of back fillings, afforestation and execution of such works, wherever required.	NA		191
29	Cost benefit analysis as per the guidelines issued under forest (Conservation) Act, 1980 in prescribed format, wherever required.	NA		192
30	Any other information/documents necessary for giving clarifications on the project, may be specified and attached.	NA		193

II	Documents/Information Required for Proposals for Roads, Railway Lines, Canals and Transmission Lines			
31	The following information/documents must be given :- a) Length and width of Road/Railway line/ Canal/ Transmission line passing through forest and non forest area. b) In case of expansion of already existing road/railway line/canal, linear plan clearly showing in distinct colours the already existing road (from beginning to end), the width of the proposed road/railway line/canal to be expanded, and the remaining width of the Protect Forest strip, if any, which would be left after expansion. c) In case of transmission line, the following details may also be given :- i) Number of towers to be erected both in forest and non forest area. ii) Width of the right of way for transmission line.	NA		194-195
III	Documents/Information Required for Proposals for Hydro Electric Projects			

32	<p>The following information/document must be given :-</p> <ul style="list-style-type: none"> a) Component-wise total area requirement b) Copy of Memorandum of Understanding c) Copy of Techno-Economic Clearance d) Copy of Implementation Agreement e) NOC from Irrigation and Public Health Department f) NOC from Fisheries Department g) Authorization to the applicant by the Project Authority 	NA		
IV	Documents/Information Required for Proposals for Mining			
33	<p>The following information/documents must be given :-</p> <p>I New Proposals</p> <ul style="list-style-type: none"> a) Certificate from the competent authority like District Mining Officer/Geologist, regarding non-availability of the same mineral/ore in the nearly non-forest area. b) Estimated reserve of each mineral/ore in the forest area and non-forest area. c) Total area demanded and extent of forest area involved in the proposed 	NA		

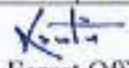
	<p>mining lease shown in distinct colours on relevant maps</p> <p>d) Proposed period of mining lease.</p> <p>e) Minimum distance of the proposed site from Wildlife Sanctuary and National Park.</p> <p>f) A copy of the mining plan duly approved by IBM, Nagpur.</p> <p>g) Phased reclamation plan of the project area.</p> <p>h) Copy of lease deed/agreement entered into with the district authorities.</p> <p>i) The details of Safety Zone Area for the mining as per para 4.7 of the guidelines. The undertaking from the project authority to bear the cost of fencing of safety zone area and afforestation over one and half times of degraded forest area. The details of safety zone to be ascertained by the competent authority viz. Indian Bureau of Mines/ Deptt. of Geology and Mining of the State Government.</p> <p>II) In case of renewal of Mining Lease</p> <p>a) A brief profile of the lessee/ company should be submitted giving details of their existing mining leases in the State with their capacity of production, the present level of average annual production, location of these pits and the status of reclamation of forest land that are exhausted of minerals.</p> <p>b) Complete details of existing or proposed leases in that particular forest area with their present status should be indicated on the Survey of India Topo-sheet in appropriate scale</p> <p>c) The State Government shall forward the complete proposal to the RO/MoEF at least six months prior to the expiry of the existing lease. In case of any delay, a details report elaborating the causes of delay shall be forwarded along with the proposal.</p>			
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	d) A resolution of Gram Panchayat/ Local Body of the area endorsing the proposal that the project is in the interest of the people living in and around the proposed forest land.			
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V	Documents/Information Required for Proposals for Retail Outlets of an Oil Companies.			
34	<p><i>The following information/ documents must be given :-</i></p> <p>a) Copy of letter of intent issued by the oil Company.</p> <p>b) Site selection certificate as per Govt. of India guidelines. The DFO should certify the distance between two retail outlets on either side of the outlet in question.</p> <p>c) Layout plan showing dimensions of proposed approach road for entry and exit with clear area calculations.</p> <p>d) Map clearly indicating the directions of the road leading from....to.....</p> <p>e) The area calculations for the curves should invariably be given in the layout plan.</p> <p>f) NOC from NHAI/PWD/Urban or local body</p> <p>g) NOC from Town and Country Planning/ local body</p> <p>h) Certificate by User Agency to the effect that no High Tension line passing above the proposed site duly countersigned by DFO</p> <p>i) A Certificate by User Agency to the effect that no LP Gas godown is located near the proposed site duly countersigned by DFO.</p>	NA	-	-
	<i>Joint Inspection Report.</i>			196
	<i>NPV bill</i>			197
	<i>Dumping</i>			198-211
	<i>Revenue papers.</i>			212- 314.
	<i>Certificat. reg. W.L.S.</i>			315.

Place: Shimla

Dated:13.07.2022


 Divisional Forest Officer,
 Shimla Forest Division,
 Shimla Forest Division,
 SHIMLA

Full Title of the proposal: - Additional Forest land requirement of 11.7936 ha. for four laning of proposed Shimla Bypass from Kaithlighat to Shakral Section (Package-I) of NH-22 (Chainage from Km. 128.835 to Km. 146.300) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 128.835 to Km. 156.560) of NH-22 for 40.3 ha. in the State of Himachal Pradesh.

File No.: FP/HP/ROAD/151117/2022

Date of Proposal: 13 January, 2022

CHECK-LIST SERIAL NO. - 02

DEMAND LETTER

The project road i.e. Shimla Bypass (Package I) is a section of NH-22, starting from Kaithlighat and ending at Shakral (Chainage from Km. 128.835 to Km. 146.300) located in Shimla district in the state of Himachal Pradesh. Stage II approval for forest diversion proposal of the entire section from Kaithlighat to Dhalli (Chainage from Km. 128.835 to Km. 156.560) for 40.3 ha. was obtained by NHAI vide MOEF&CC, Dehradun letter dated 15.09.2017.

However, some additional forest land of approximate area 11.7936 hectares is required to be diverted for four laning of proposed section of Shimla Bypass for the following purposes:

- i) Dumping sites for muck disposal
- ii) Diversion of land over tunnels
- iii) Four laning of structures against 2-lane in previous project
- iv) Slope protection measures at fragile hill strata locations
- v) Minor modifications in the alignment for improving geometry of the highway

As all the Government Waste land in this district are considered as forest land in view of the notification Ft.29-241/B/C/49 dated 25.02.1952 of Government of Himachal Pradesh according to which all Govt. waste land has been declared as protected forests, there is no availability of suitable non-forest land within district Shimla.

The proposed 4-lane road necessarily passes through forest land because there is no non forest land available as an alternative. These forest areas are located in scattered patches along the already approved alignment on either side of the road. Also, the project road is located in hilly areas and an alternative option to the road would not be viable. Hence, there is no escape from using the forest land. The four laning of Shimla Bypass will require minimum diversion of forest land.

Date : 19.04.2022

Place : Shimla

Project Director
National Highways Authority of India
Project Implementation Unit (PIU)
Shimla, Himachal Pradesh

S.K. Sharma
GM (T)-cum-Project Director
NHAI, PIU-Shimla

Countersigned -

[Signature]

Divisional Forest Officer
Shimla Forest Division
Shimla Forest Division
SHIMLA

FORM - "A"

PART - I

1.	Project Details																							
	i) Short narrative of the proposal and project/scheme for which the forest land is required.	<p>The National Highways Authority of India (NHAI) under the Ministry of Road Transport & Highways (MoRT&H), Government of India has been entrusted with the assignment of construction of four laning of NH-22 from Kaithlighat to Dhalli Section (Shimla Bypass) in the State of Himachal Pradesh through Hybrid Annuity mode and is divided into two packages. The project road of Shimla Bypass (NH-22) Package-I starts from Kaithlighat at km 128+835 and terminates at Shakral Village at km 146+300. The design length of proposed project road is 17.465 Km.</p> <p>The section of existing NH-22 between Kaithlighat and Dhalli is passing through congested Shimla town. This existing section is passing through heavily built-up area and it is not possible to widen it to four lanes as it will involve large scale acquisition of residential and commercial properties. Four laning of NH-22 from Solan to Kaithlighat is already in progress. Hence to maintain continuity of traffic capacity, it is required to provide a 4 lane bypass from Kaithlighat to Dhalli, and the Package I from Kaithlighat to Shakral Village is a part of this Kaithlighat to Dhalli section.</p> <p>The salient features of the proposed project road are given below:</p> <table><tr><th>Item</th><th>Improvement Proposal</th></tr><tr><td>Design Length</td><td>17.465 Km</td></tr><tr><td>Major Bridge (4 lane)</td><td>04 nos.</td></tr><tr><td>Viaduct (4 lane)</td><td>16 no.s</td></tr><tr><td>Vehicular Overpass (2 lane carriageway)</td><td>1 no.</td></tr><tr><td>Culverts</td><td>Box Culverts: 53 nos Pipe Culverts at the junction locations: 5 no.s</td></tr><tr><td>Toll Plaza</td><td>One New Toll Plaza at Km. 131+290 at a staggered position as Left toll collection at Km. 131+155 and Right toll collection at Km 131+423.</td></tr><tr><td>Passenger Wayside Amenities</td><td>1 no. at Km 142+985 (RHS)</td></tr><tr><td>Tunnel</td><td>2 no.s New 2 lane Twin Tube Tunnels</td></tr><tr><td>Truck Laybye</td><td>The truck lay bye are at Km. 139+795 (RHS) and Km. 140+025 (LHS).</td></tr><tr><td>Bus Shelter</td><td>There is one bus shelter on either side proposed in the project. The bus</td></tr></table>	Item	Improvement Proposal	Design Length	17.465 Km	Major Bridge (4 lane)	04 nos.	Viaduct (4 lane)	16 no.s	Vehicular Overpass (2 lane carriageway)	1 no.	Culverts	Box Culverts: 53 nos Pipe Culverts at the junction locations: 5 no.s	Toll Plaza	One New Toll Plaza at Km. 131+290 at a staggered position as Left toll collection at Km. 131+155 and Right toll collection at Km 131+423.	Passenger Wayside Amenities	1 no. at Km 142+985 (RHS)	Tunnel	2 no.s New 2 lane Twin Tube Tunnels	Truck Laybye	The truck lay bye are at Km. 139+795 (RHS) and Km. 140+025 (LHS).	Bus Shelter	There is one bus shelter on either side proposed in the project. The bus
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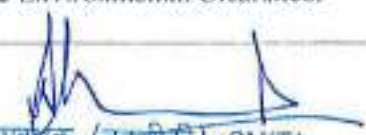
महाप्रबंधक (तकनीकी) / G.M(T.)

एवं परियोजना निदेशक / & Project Director

भारतसड़क / N.H.A.I.

पंचाई - शिमला (हिमाचल) / P.I.U Shimla (H.P.)

		shelters are at Km.139+685 (RHS) & Km.139+685 (LHS).																							
		Project road length in Shimla Forest division is 17.465 km. Coordinates of start and end of the road falling in Shimla Forest Division are: Start - 31° 1'33.04"N & 77° 6'28.14"E (km 128+835) End - 31° 4'34.64"N & 77° 11'45.02"E (km 146+300)																							
	ii) Map Showing the required forest land, Boundary of the adjoining forest on a 1:50000 scale map.	The alignment marked on survey of India Toposheet (1:50,000 scale) is enclosed as Checklist Sl. No. 5 . DGPS Maps are enclosed as Checklist Sl. No. 5 .																							
	iii) Cost of the Project	The total project cost is Rs. 1721.52 Crores																							
	iv) Justification for locating the project in forest area	Justification for locating project in forest area has been provided in Checklist Sl. No 10 .																							
	v) Cost Benefit Analysis	The Cost Benefit Analysis is enclosed as Checklist Sl. No. 29 .																							
	vi) Employment likely to be generated	The proposed project will provide both direct and indirect employment to local people during construction period of project. Permanent/Regular Employment (Number of persons): 30 Temporary Employment (Number of person-days): 109500 (100 persons employed during construction period of 3 years)																							
2.	Purpose wise break up of Land to be diverted	<p>The purpose wise break up of diversion of forest land in Shimla Forest Division is given below:</p> <table><tr><th>Division</th><th>Component (Ha.)</th><th>Forest Area (Ha.)</th><th>Non-Forest Area (Ha.)</th><th>Total Area (Ha.)</th></tr><tr><td rowspan="3">Shimla</td><td>Road</td><td>3.2611</td><td>4.8949</td><td>8.1560</td></tr><tr><td>Muck Disposal Sites</td><td>4.3894</td><td>4.5902</td><td>8.9796</td></tr><tr><td>Tunnels</td><td>4.1431</td><td>4.3239</td><td>8.4670</td></tr><tr><td colspan="2">Total</td><td>11.7936</td><td>13.809</td><td>25.6026</td></tr></table>	Division	Component (Ha.)	Forest Area (Ha.)	Non-Forest Area (Ha.)	Total Area (Ha.)	Shimla	Road	3.2611	4.8949	8.1560	Muck Disposal Sites	4.3894	4.5902	8.9796	Tunnels	4.1431	4.3239	8.4670	Total		11.7936	13.809	25.6026
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3.	Details of displacement of people due to the project if any? i. Number of families. ii. Number of Scheduled Castes/Scheduled Tribe families iii. Rehabilitation plan. (to be enclosed)	There will be no displacement of people in forest areas.																							
4.	Whether clearance under Environment (Protection) Act, 1986 required?	As per MoEFCC Notification no. S.O.2559 (E) dated 22 nd August, 2013 (attached), the project does not require Environmental Clearance.																							


 महाप्रबंधक (नकलीकी) / GM(T)
 एवं परियोजना निदेशक / & Project Director
 भारतराष्ट्र / N.H.A.I.
 एकाई - शिमला (हिप्रो) / PHU-Shimla (H.P.)

5.	Undertaking to bear the cost of raising and maintenance of compensatory afforestation and/or penal compensatory afforestation as well as cost for protection and regeneration of Safety Zone etc. as per the scheme prepared by the State Government (undertaking to be enclosed).	Undertaking for payment of compensatory afforestation cost is enclosed as Checklist Sl. No.12.
6.	Details of Certificates/documents enclosed as required under the instructions.	Enclosed as per the Checklists provided.

Date:- 12/08/2022
Place:- Shimla


महाप्रबंधक (तकनीकी) / G.M.
(Ram Asra Khural)
एवं परियोजना निदेशक / Project Director
भारत.रा.प्र. / N.H.A.I. PIU, Shimla
प.वा.ई. - शिमला (हि०प्र०) / PIU-Shimla (H.P.)

State serial No. of proposal _____
(To be filled up by the Nodal Officer with date of receipt)

INSTRUCTIONS (for Part-I):-

1. The project authorities may annex a copy of the approved project plan in addition to filling Col. 1 (i.e.g. IBM approved mining plan for major minerals/CMPD) plan with subsidence analysis reports, etc.
2. Map has to be in original duly authenticated jointly by project authorities and concerned DCF – Col. 1 (ii).
3. Complete details of alternative alignments examined especially in case of project like roads, transmission lines, railway lines, canals, etc. to be shown on map with details of area of forest land involved in each alternative to be given - Col. 1 (iii).
4. For proposals relating to mining, certificate from competent authority like District Mining Officer about non-availability of the same mineral in surrounding/nearby non-forest areas.
5. In case the same company/individual has taken forest land for similar project in the State, a brief detail of all such approvals/leases be given as an enclosure along with current status of the projects.
6. The latest clarifications issued by the Ministry under Forest (Conservation) Act, 1980 may be kept in mind. In case such information do not fit in the given columns, the same shall be annexed separately.

GENERAL INSTRUCTIONS:-

1. On receipt of proposal, Nodal Officer shall issue a receipt to the user agency indicating therein the name of the proposal, user agency, area in hectare, serial number and date of receipt.
2. If the space provided above is not sufficient to specify any information, please attach separate details/documents.
3. While forwarding the proposal to the Central Government, complete details on all aspects of the case as per Form prescribed above read with the clarifications issued by the Ministry of Environment and Forests, Government of India, New Delhi should be given. Incomplete or deficient proposals shall not be considered and shall be returned to the State Government in original.
4. The State Government shall submit the proposal to the Central Government within stipulated time limits. In case of delay while forwarding, the reasons for the same to be given in the forwarding/covering letter.

Full Title of the proposal:- Additional Forest land requirement of 11.7936 ha. for four laning of proposed **Shimla Bypass from Kaithlighat to Shakral Section (Package-I) of NH-22** (Chainage from Km. 128.835 to Km. 146.300) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 128.835 to Km. 156.560) of NH-22 for 40.3 ha. in the State of Himachal Pradesh.

File No. : FP/HP/ROAD/151117/2022

Date of Proposal: 13th January, 2022

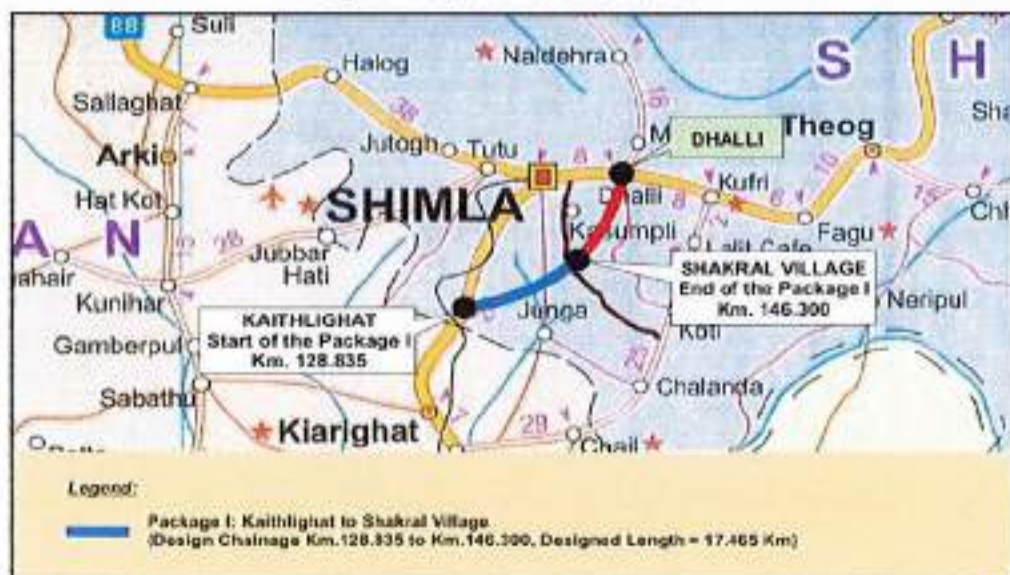
CHECK-LIST SERIAL NO. - 04

DETAILED NOTE ON PROJECT

1. INTRODUCTION

The National Highways Authority of India (NHAI) under the Ministry of Road Transport & Highways (MoRTH), Government of India has been entrusted with the assignment of Construction of Four laning of NH-22 from Kaithlighat to Shakral Village (Shimla Bypass Package I from Km 128+835 to Km 146+300 for Design length – 17.465 Km) in the state of Himachal Pradesh on HAM. The location of Package I of Shimla Bypass is shown in the Index Map (Fig-1) below:

Fig. 1: Project Road Location



2. PROJECT DESCRIPTION

The project road i.e. Shimla Bypass (Package I) is a section of NH-22, starting from Kaithlighat and ending at Shakral (Chainage from Km. 128.835 to Km.

S.K. Sharma
GM (T)-cum-Project Director
NHAI, PIU-Shimla

146.300) located in Shimla district in the state of Himachal Pradesh. Stage II approval for forest diversion proposal of the entire section from Kaithlighat to Dhalli (Chainage from Km. 128.835 to Km. 156.560) for 40.3 ha. was obtained by NHAI vide MOEF&CC, Dehradun letter dated 15.09.2017.

However, some additional forest land of approximate area 11.7936 hectares is required to be diverted for four laning of proposed section of Shimla Bypass for the following purposes:

- i) Dumping sites for muck disposal
- ii) Diversion of land over tunnels
- iii) Four laning of structures against 2-lane in previous project
- iv) Slope protection measures at fragile hill strata locations
- v) Minor modifications in the alignment for improving geometry of the highway

As all the Government Waste land in this district are considered as forest land in view of the notification Ft.29-241/B/C/49 dated 25.02.1952 of Government of Himachal Pradesh according to which all Govt. waste land has been declared as protected forests, there is no availability of suitable non-forest land within district Shimla.

The proposed 4-lane road necessarily passes through forest land because there is no non forest land available as an alternative. These forest areas are located in scattered patches along the already approved alignment on either side of the road. Also, the project road is located in hilly areas and an alternative option to the road would not be viable. Hence, there is no escape from using the forest land. The four laning of Shimla Bypass will require minimum diversion of forest land.

A brief description of the project road w.r.t environmental aspects is given in Table below.

Table 1: Project description at glance

Total Length (km)	17.465 km
Project Districts	Shimla
Terrain	Hilly terrain
Protected Monument within 300 m of the Project Road	None
Name of the Protected Area within 10 km of Project Road (Buffer Zone)	Shimla Water Catchment Wildlife Sanctuary (is located at a minimum aerial distance of 3.69 km from the project site. However, no adverse impacts on wildlife are anticipated.

3. NEED OF THE BYPASS

The section of existing NH-22 between Kaithlighat and Dhalli is passing through congested Shimla town. This existing section is passing through heavily built-up area and it is not possible to widen it to four lanes as it will involve large scale acquisition of residential and commercial properties. Four laning of NH-22 from Solan to Kaithlighat is already in progress. Hence to maintain continuity of traffic capacity, it is required to provide a 4 lane bypass from Kaithlighat to Dhalli, and


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 NHAI, PIU-Shimla

the Package I from Kaithlighat to Shakral Village is a part of this Kaithlighat to Dhalli section.

4. TRAFFIC STUDY ON THE PROJECT ROAD

The projected Annual Average Daily Traffic in Package I (km 128+835 to km 139+400) is given as below:

Table 2: Traffic on the Shimla Bypass Package I

SN	Description	Year	Tollable Traffic (PCUs)	Non Tollable Traffic (PCUs)
1	Estimated Bypass Traffic	2020-2021	9845	10000
2	Construction Year	2021-2022	10421	10585
		2022-2023	11030	11204
		2023-2024	11675	11860
		2024-2025	12358	12555
3	Year of Opening	2025-2026	13156	13366

The project road lies in the mountainous region of Himachal Pradesh and is expected to carry more than 10,000PCU/day i.e. more than the design service volume of 2 lane road in mountainous terrain. The proposed bypass road is, therefore, required to be developed as four lanes with paved shoulder from the expected year of opening for the entire length.

5. DETAILS OF STRUCTURES

Based on the Vertical Profile, Hydrological and Structural Analysis the following structures are proposed on the bypass:

A. Bridges & Other Structures

Number of 4 Lane major bridge	04 nos.
Number of 4 Lane Viaduct	16 nos.
Number of new Vehicular Overpass (2 lane carriageway)	01 no.
Total	21 nos.

B. Tunnels

Proposed Tunnels on the Project Road

S. No.	Location	Start Design Chainage (Ch.)	End Design Chainage (Ch.)	Length of Tunnel (m)	Carriageway width including Footpath & Walkway (m)	Remarks
1	Tunnel 1 (LHS &	L.H.S. Ch. Km	L.H.S. Ch. Km	680	10.50	The LHS tunnel of length 300m


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	RHS Tube)	129+940	130+620			is partially constructed
		R.H.S. Ch. Km 129+930	R.H.S. Ch. Km 130+620	690	11.95	-
2	Tunnel 2 (LHS & RHS Tube)	L.H.S. Ch. Km 135+595	L.H.S. Ch. Km 136+800	1205	11.95	-
		R.H.S. Ch. Km 135+622	R.H.S. Ch. Km 136+800	1178	11.95	-

C. Cross Drainage Structures (Culverts)

- Box Culverts – 53 nos.
- Pipe Culverts at the Junction locations – 05 nos.

D. Truck Laybys

The truck lay bye are at Km.139+795 (RHS) and Km.140+025 (LHS).

E. Bus Shelters

There is one bus shelter on either side is proposed in the project. The Bus shelters are at Km.139+685 (RHS) & Km.139+685 (LHS).

F. Other Project Amenities

There are other Project Amenities in this Package which are enumerated below:

(a) Toll Plaza

There is one Toll Plaza at Km.131+290 at a staggered position as Left Toll collection at Km.131+155 and Right Toll collection at Km.131+423.

(b) Passenger Wayside Amenity

There is one Passenger Wayside Amenity at Km.142+985 (RHS).

G. Toll Plaza

There is one toll plaza in staggered manner i.e. Km 131+155 for left toll collection & Km 131+423 for right side toll collection.

6. CONSTRUCTION PACKAGES

The project involves construction of an extra-dosed bridge, five twin tube tunnels and number of viaducts in a very difficult terrain. It will need a contractor of good technical and financial standing to execute the project. Moreover the cost of


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NHAI, PIU-Shimla

implementation is high and therefore Project is proposed to be implemented in two Packages.

This executive summary pertains to Package I of Shimla Bypass from Km.128+835 to Km.146+300.

7. ENVIRONMENTAL CONSIDERATIONS

Statutory Requirements

a) Environmental Clearance

The project does not require prior environmental clearance from the Ministry of Environment, Forest and Climate Change as per the EIA Notification Amendment dated 22nd August, 2013.

b) Forest Clearance

The project involves four laning of Shimla Bypass Package I (NH-22). **Forest Clearance** for diversion of required additional Forest land will be taken as per Forest Conservation Act 1980, and its amendments. As the proposed development is a linear project, the in-principle approval will be granted by the Integrated Regional Office (MoEFCC), Shimla for the proposed project.

c) Wildlife Clearance

The project corridor **does not pass through any Wildlife Sanctuary/ National Park etc.**, hence Wildlife clearance as per Wildlife (Protection) Act, 1972 and Amendments is not required. Shimla Water Catchment Wildlife Sanctuary (WLS) is located in the study area (within 15km radius of the alignment) at a minimum aerial distance of 3.69 km from the nearest chainage at km. 146+300 of the proposed alignment. No significant impact has been envisaged on Wildlife Sanctuary due the proposed project.

Environmental Impacts & their Mitigation

The proposed project will have impacts on environment during the construction and operation phases. The negative impacts can be reduced or minimized only if proper safeguards are put in place during the design and construction stage itself. These can include reducing pollutant discharge from the harmful activities at source or protecting the sensitive receptor. Mitigation measures to the anticipated impacts have been worked out to minimise any adverse impacts on the various environmental and social components.

To mitigate the impact on forests, following measures have been proposed:

- Compensatory afforestation will be carried out as per Himachal Pradesh Forest Department norms and cost towards CA and NPV of diverted forest land will be paid by NHAI.
- There will be no tree felling in tunnel areas and hence the number of trees in these stretches will be saved.


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NHAI, PIU-Shimla

- Green belt development plan has been prepared for the project road in which avenue and median plantations have been proposed.

8. COST ESTIMATE OF THE PROJECT

The details of cost estimate are given in **Table 10**.

Table 10: Total Civil and Project Cost

S. No.	Component of Costs	Cost (INR) in Crores
1.	Civil cost (In Crores)	1390.32
	Civil cost/ Km (In Crores)	79.61
2.	Total Project Cost (In Crores)	1721.52
	Total Project Cost /Km (In Crores)	98.57

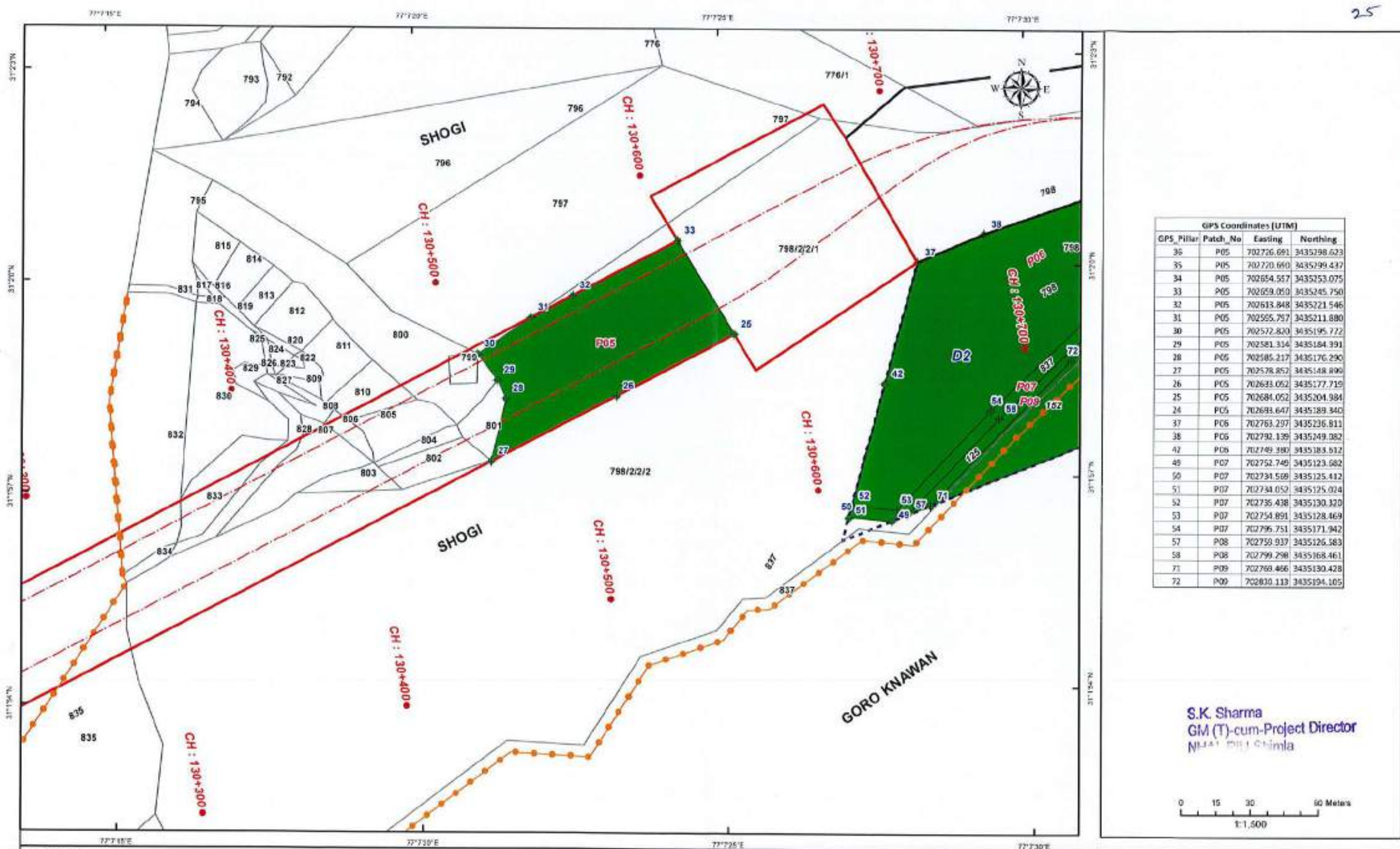
9. RECOMMENDATION

Based on the Detailed Project Study the following recommendations are made:

- The proposed bypass is likely to carry traffic of more than 10,000 PCUs/day which is more than the design service volume of 2 lane road in hilly terrain. Hence it is recommended to construct the Package I of the Shimla bypass to 4 lane configuration.
- Based on Life Cycle Analysis it is recommended to provide flexible pavement with cement treated base and sub-base. However for tunnel section and toll plaza rigid pavement will be provided.
- The project length is small and the project cost is high. The project will not be viable for implementation on BOT basis. Hence, it is recommended to implement the Package I on HAM.

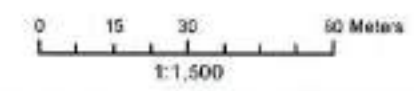
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 GM (T)-cum-Project Director
 NHAI, PIU-Shimla



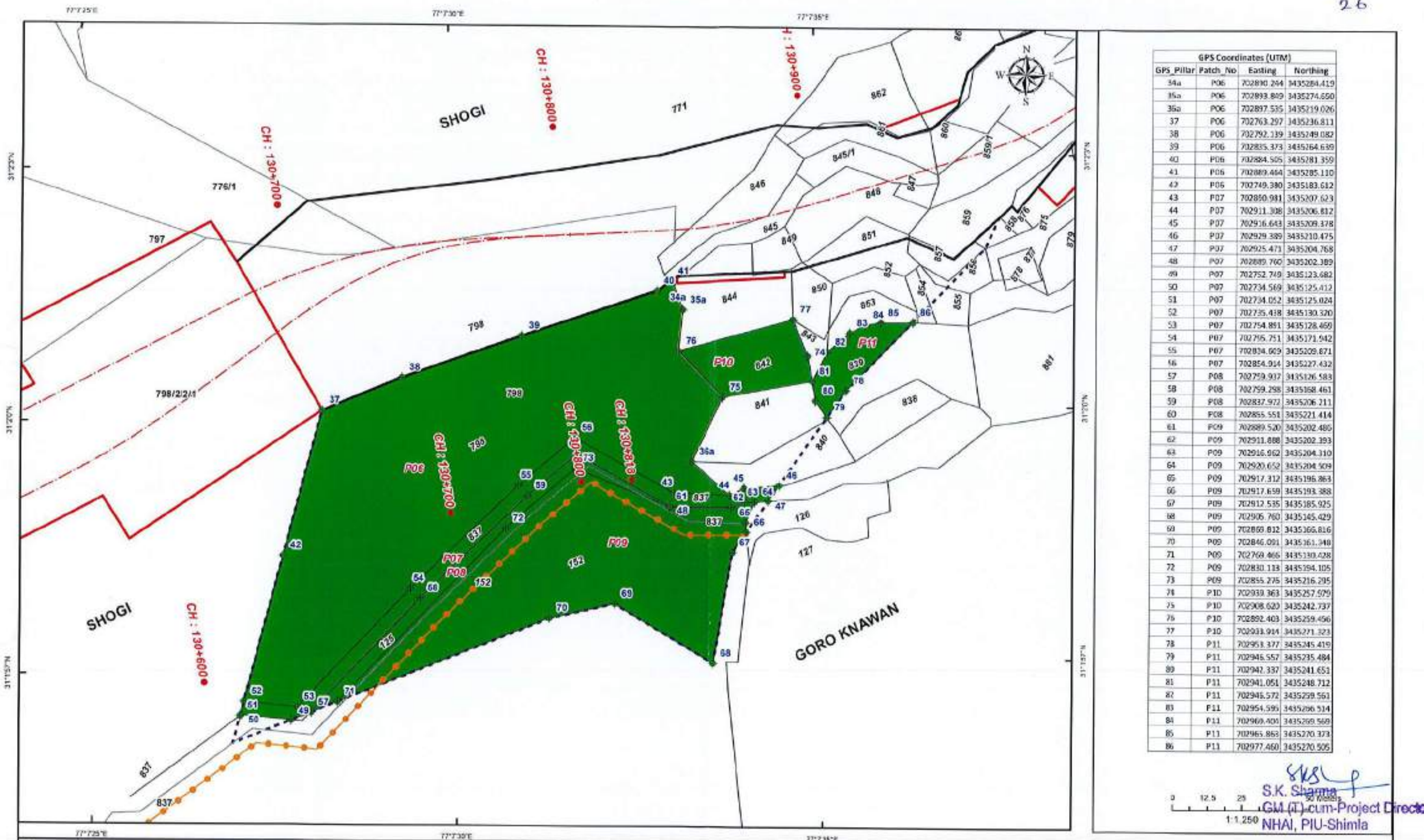
GPS Coordinates (UTM)			
GPS Pillar	Patch No	Easting	Northing
35	P05	702726.691	3435298.623
35	P05	702720.660	3435299.437
34	P05	702654.557	3435253.075
33	P05	702659.050	3435245.750
32	P05	702613.848	3435221.546
31	P05	702595.797	3435211.880
30	P05	702572.820	3435195.722
29	P05	702581.314	3435184.391
28	P05	702585.217	3435176.290
27	P05	702578.852	3435148.890
26	P05	702633.052	3435177.719
25	P05	702684.052	3435204.984
24	P05	702693.647	3435189.340
37	P06	702763.297	3435236.811
38	P06	702792.139	3435249.082
42	P06	702749.380	3435183.512
45	P07	702752.749	3435123.682
50	P07	702734.569	3435125.412
51	P07	702734.052	3435125.024
52	P07	702735.438	3435130.320
53	P07	702754.891	3435128.469
54	P07	702795.751	3435171.942
57	P08	702759.937	3435126.583
58	P08	702799.298	3435168.461
71	P09	702769.466	3435130.428
72	P09	702830.113	3435194.105

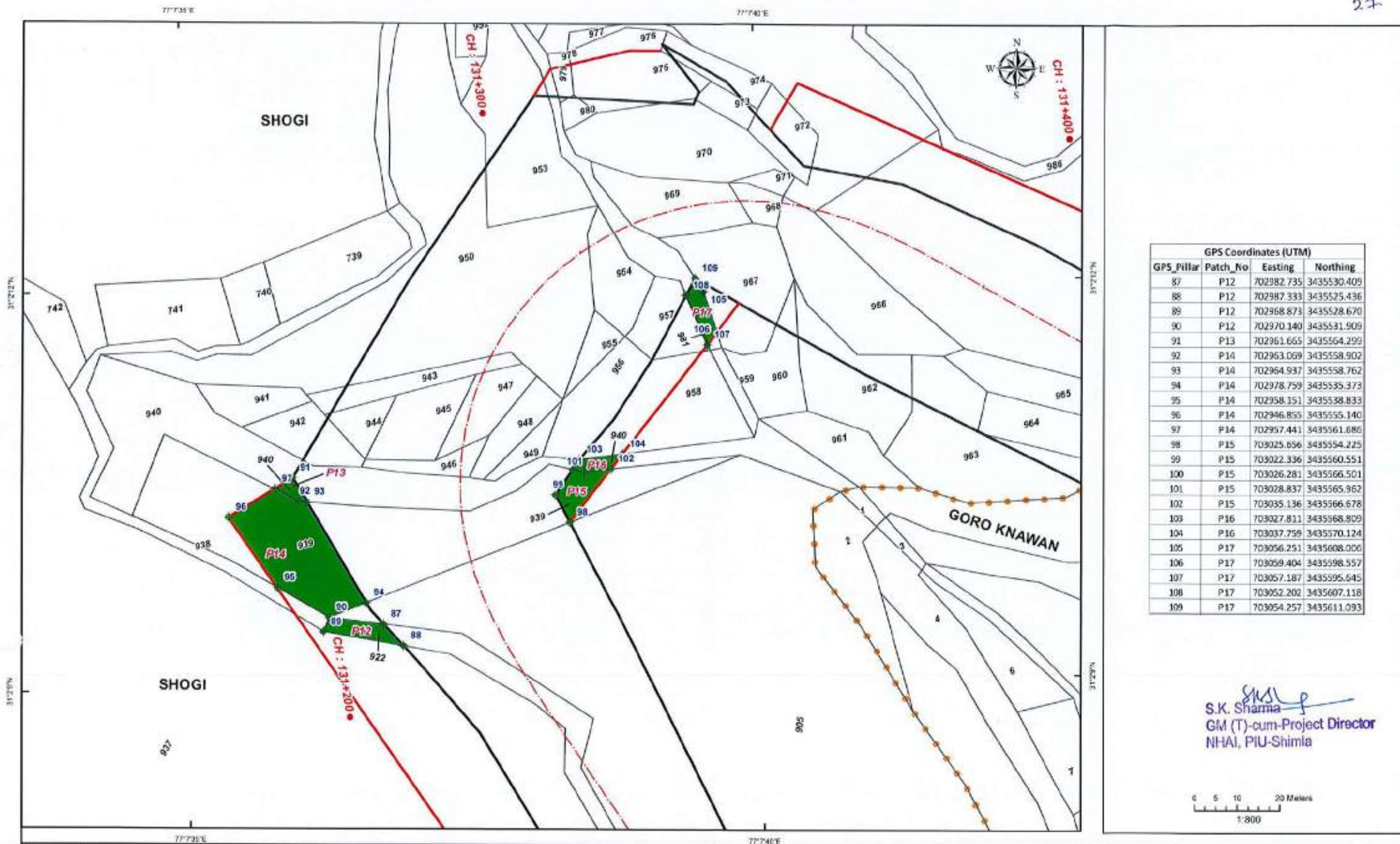
S.K. Sharma
GM (T)-cum-Project Director
NHAI Dist Shimla



Legend

◆ GPS Pillar — PROW — Acquired ROW - - - Proposed Centreline - - - Muck Site — Khasra boundary - - - Village boundary ■ Forest area





Legend

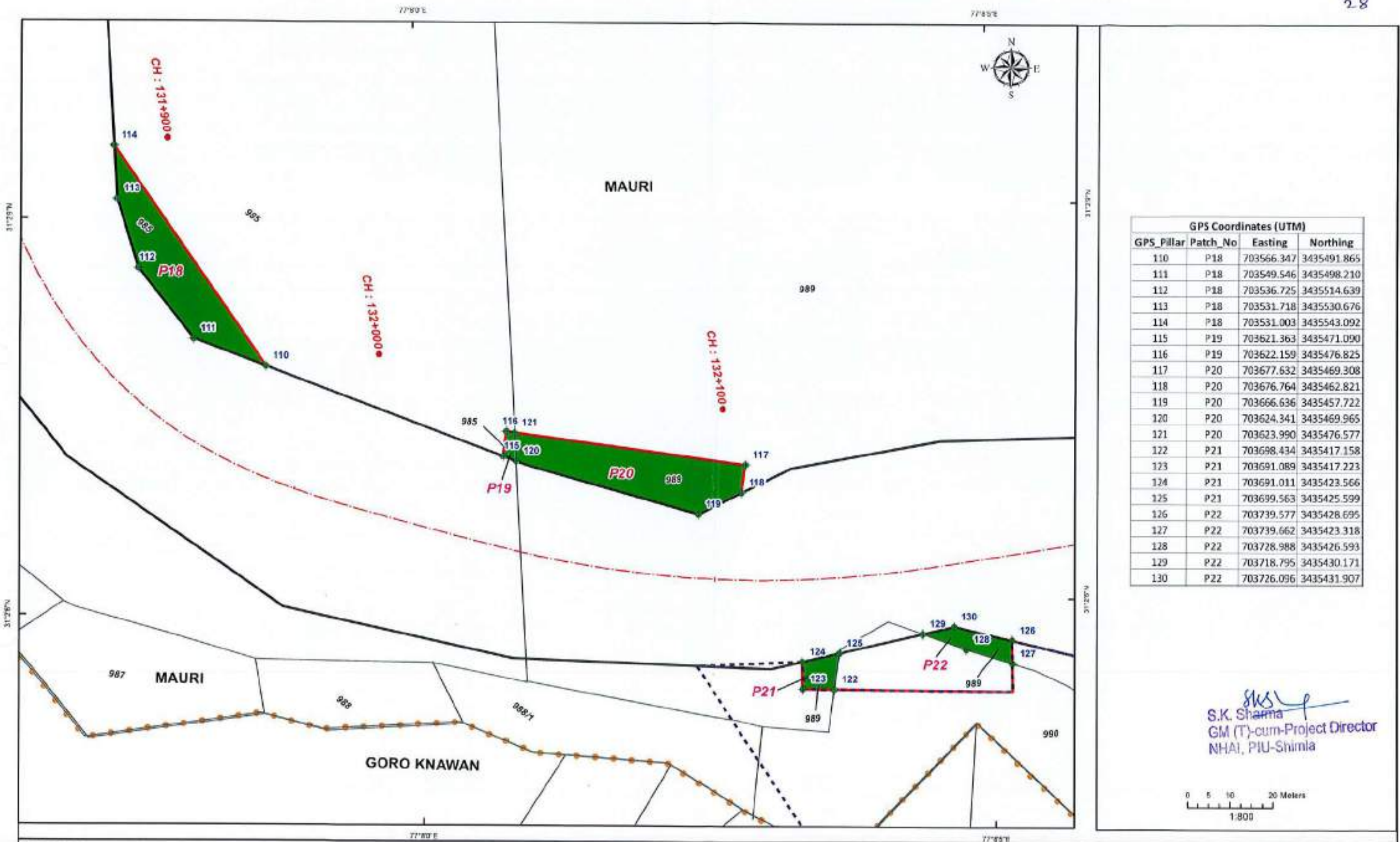
◆ GPS Pillar — PROW — Acquired ROW - - - - Proposed Centreline - - - - Muck Site — Khasra boundary — Village boundary ■ Forest area

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Project: Additional Forest land requirement of 11.7936 ha. for four laning of proposed Shimla Bypass from Kaithlighat to Shakral Section (Package-I) of NH-22 (Chainage from Km. 128.835 to Km. 146.300) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 128.835 to Km. 156.560) of NH-22 for 46.3 Ha in the State of Himachal Pradesh.

CS
 Divisional Forest Officer
 Shimla Division
 Tehsil: Shimla Rural, District: Shimla
 SHEET-03



Legend

◆ GPS Pillar — PROW — Acquired ROW - - - - - Proposed Centreline - - - - - Muck Site — Khasra boundary — Village boundary ■ Forest area



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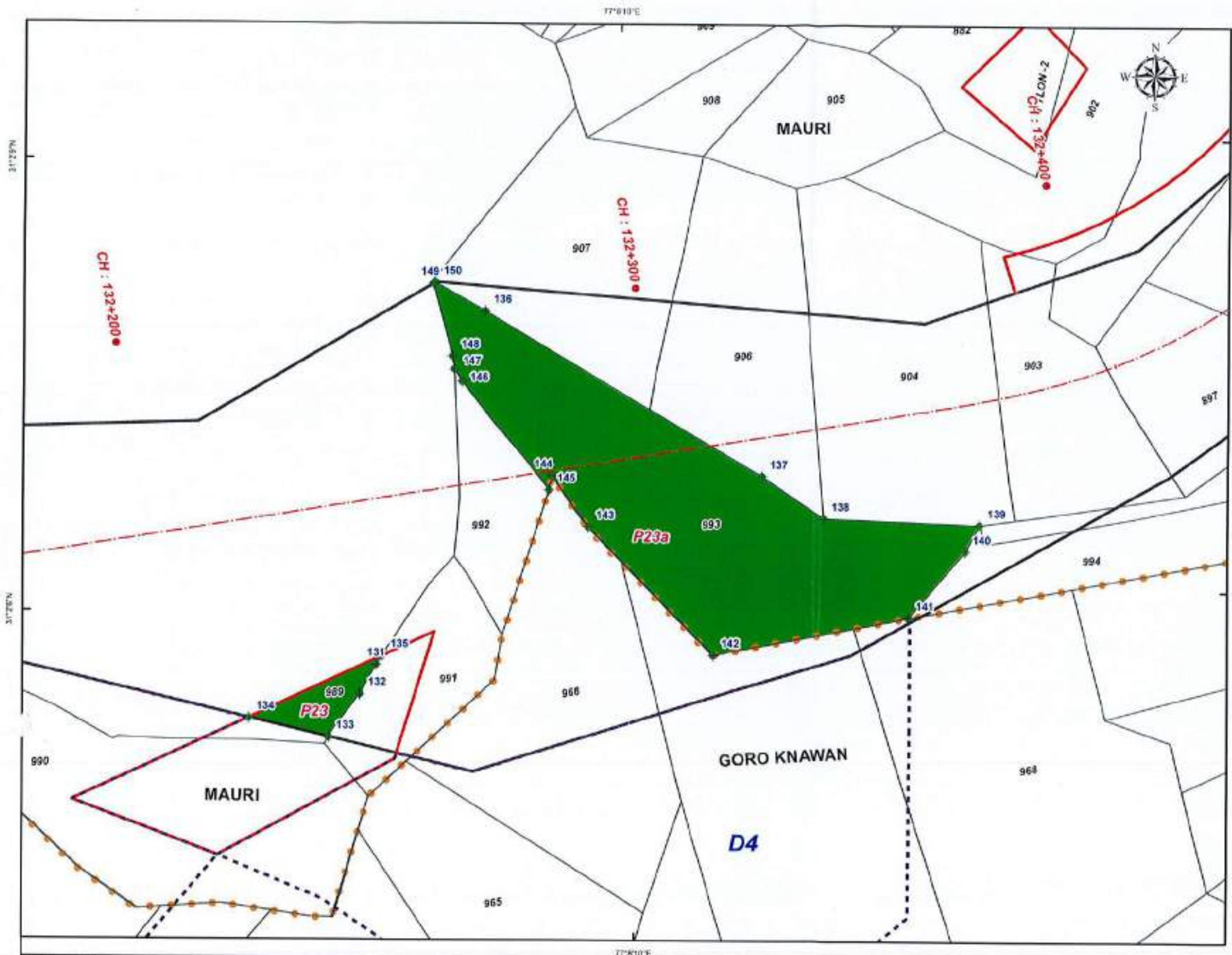


NATIONAL HIGHWAY AUTHORITY OF INDIA

Project:

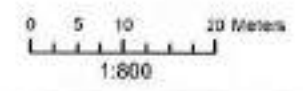
Additional Forest land requirement of 11.7936 ha. for four lining of proposed Shimla Bypass from Kaithlighat to Shakral Section (Package-I) of NH-22 (Chainage from Km. 128.835 to Km. 148.300) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 128.835 to Km. 156.560) of NH-22 for 40.3 Ha in the State of Himachal Pradesh.

Divisional Forest Officer
GPS Mapping
Shimla Forest Division
Tehsil: Shimla Rural, District: Shimla
SHIMLA



GPS Coordinates (UTM)			
GPS_Pillar	Patch_No	Easting	Northing
131	P23	703816.344	3435427.443
132	P23	703813.083	3435421.508
133	P23	703806.772	3435412.684
134	P23	703790.510	3435416.559
135	P23	703817.573	3435429.332
136	P23a	703838.173	3435499.817
137	P23a	703894.425	3435466.250
138	P23a	703907.054	3435457.755
139	P23a	703938.755	3435456.594
140	P23a	703935.897	3435451.138
141	P23a	703924.391	3435437.522
142	P23a	703884.781	3435429.756
143	P23a	703859.254	3435455.796
144	P23a	703851.912	3435466.199
145	P23a	703851.287	3435463.348
146	P23a	703833.512	3435485.415
147	P23a	703832.012	3435487.927
148	P23a	703811.608	3435490.566
149	P23a	703827.607	3435505.381
150	P23a	703827.966	3435505.596

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NHAI, PIU-Shimla



Legend

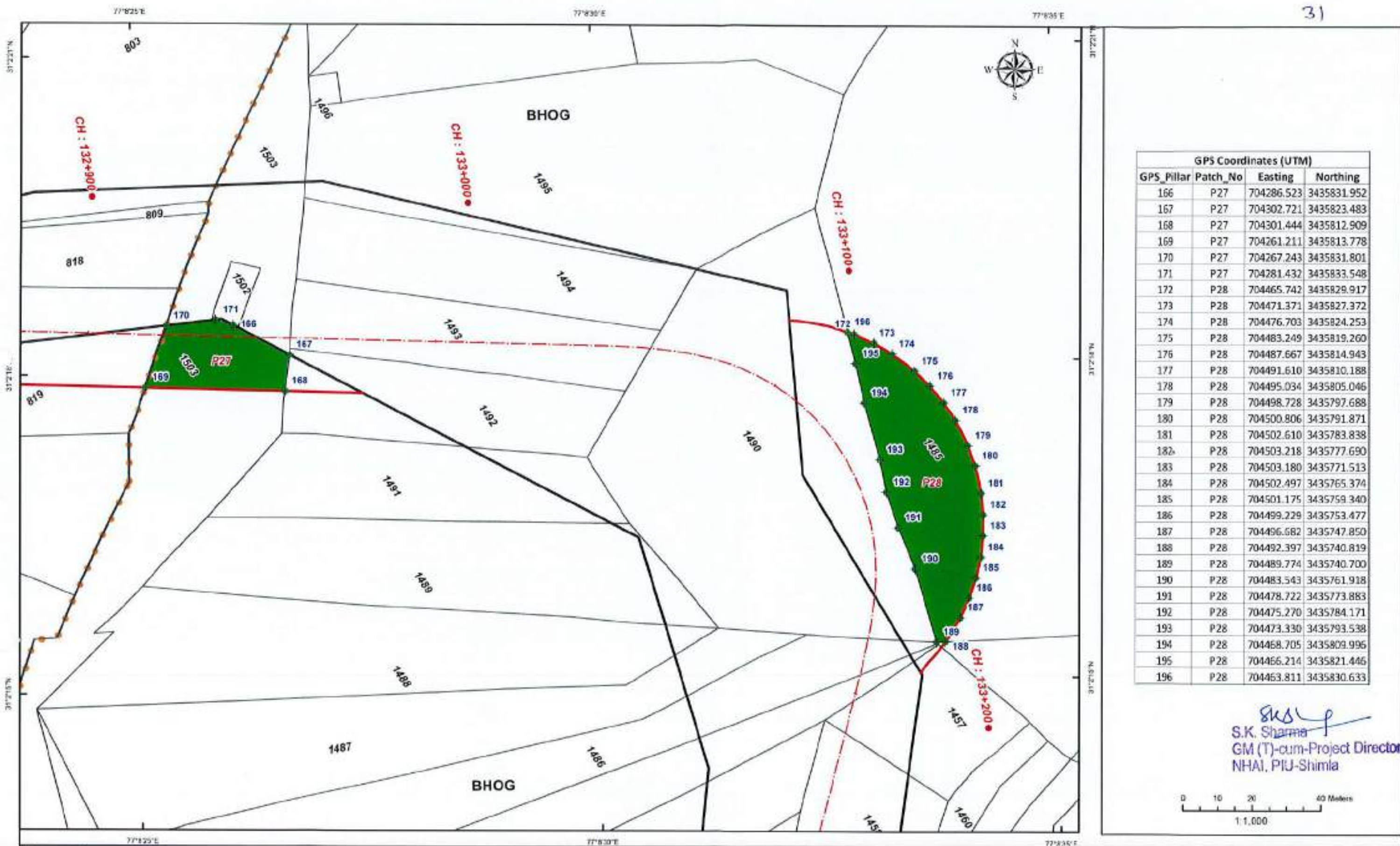
◆ GPS Pillar — PROW — Acquired ROW - - - - Proposed Centreline - - - - Muck Site — Khasra boundary — Village boundary ■ Forest area



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GM (T)-cum-Project Director
NHA, PIU-Shimla

0 4.25 8.5 17 Meters
1:400

GPS Pillar PROW Acquired ROW Proposed Centreline Muck Site Khasra boundary Village boundary Forest area



S.K. Sharma
 GM (T)-cum-Project Director
 NHAI, PIU-Shimla

0 10 20 40 Meters
 1:1,000

Legend

◆ GPS Pillar — PROW — Acquired ROW - - - - Muck Site — Khasra boundary — Village boundary ■ Forest area



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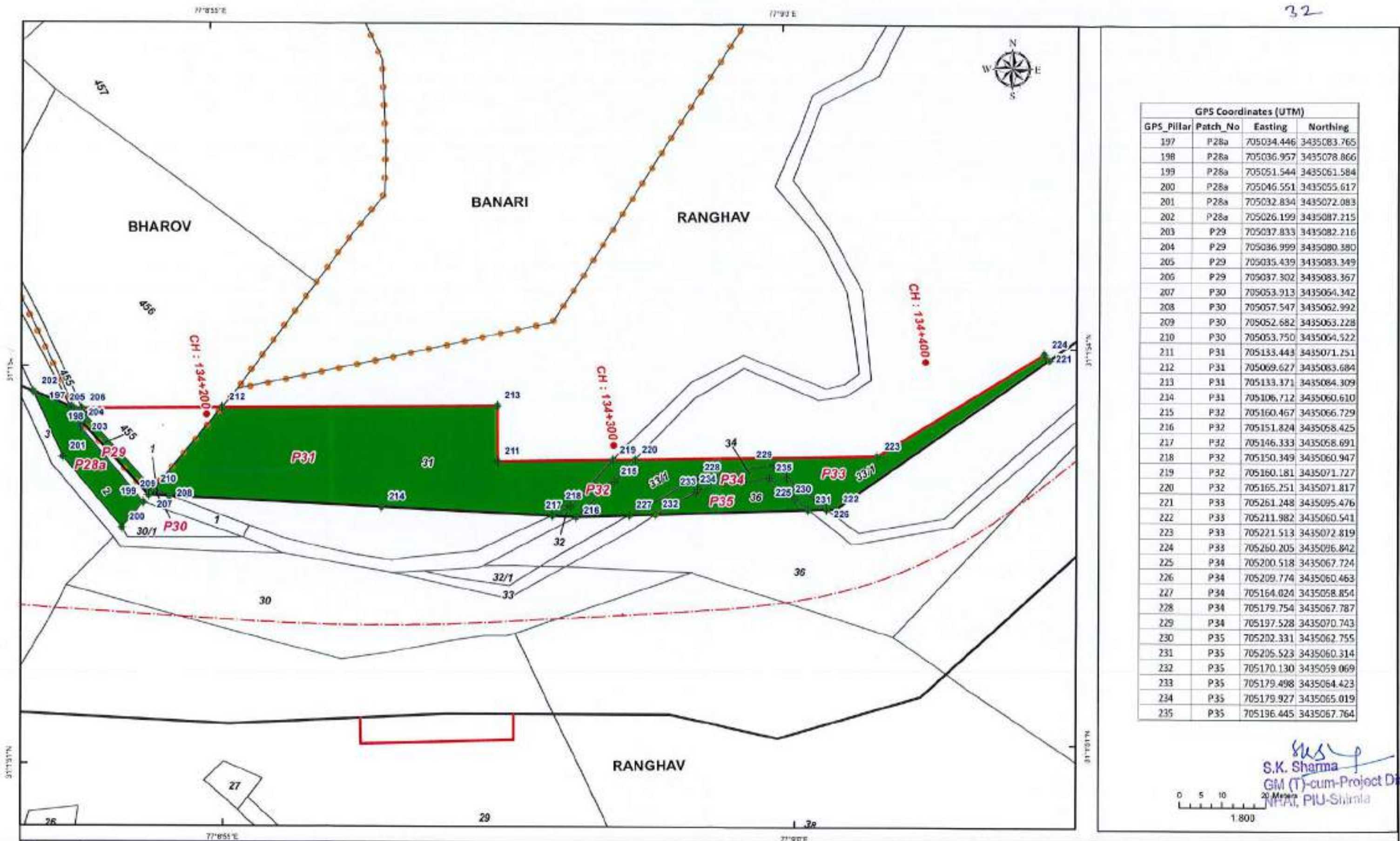
NATIONAL HIGHWAY AUTHORITY OF INDIA

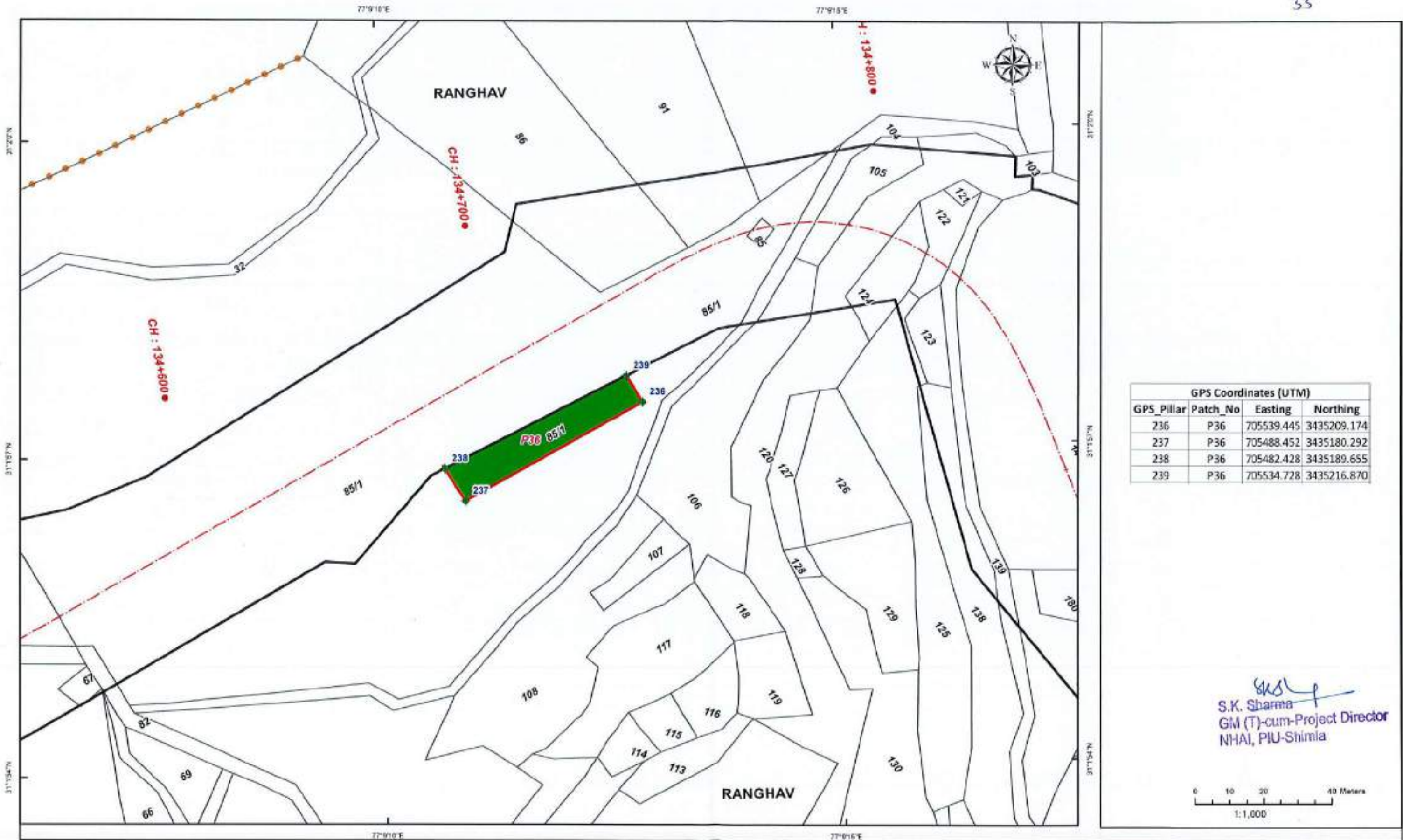
Project:

Additional Forest land requirement of 11.7936 ha. for four laning of proposed Shimla Bypass from Kaithlighat to Shakral Section (Package-I) of NH-22 (Chainage from Km. 128.835 to Km. 146.300) in already approved FCA case of the entire section from Kaithlighat to Dhali (Chainage from Km. 128.835 to Km. 156.660) of NH-22 for 40.3 Ha in the State of Himachal Pradesh.

CS

Divisional Forest Officer
 Shimla Rural Division Shimla
 SHEET-1A





Legend

◆ GPS Pillar — PROW — Acquired ROW — Proposed Centreline - - - Muck Site — Khasra boundary — Village boundary ■ Forest area



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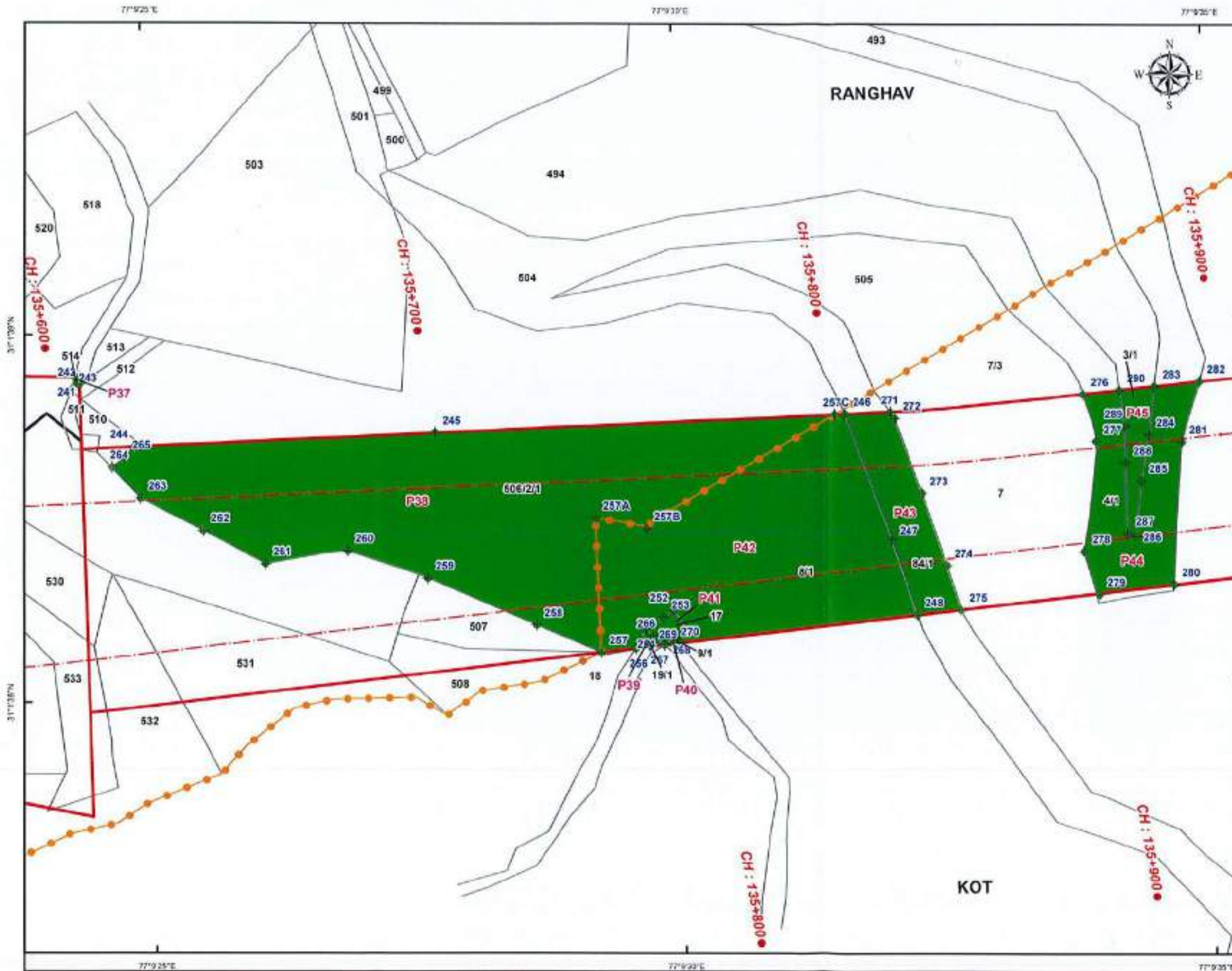


NATIONAL HIGHWAY AUTHORITY OF INDIA

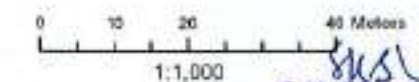
Project:

Additional Forest land requirement of 11.7936 ha. for four laning of proposed Shimla Bypass from Kaithlighat to Shakral Section (Package-II) of NH-22 (Chainage from Km. 128.835 to Km. 146.300) in already approved FCA case of the entire section from Kaithlighat to Dhali (Chainage from Km. 128.835 to Km. 156.580) of NH-22 for 46.3 Ha in the State of Himachal Pradesh.

Divisional Forest Officer
Shimla Forest Division
Tehsil: Shimla Rural, District: Shimla
HIMACHAL PRADESH



GPS Coordinates (UTM)			
GPS Pillar	Patch No	Easting	Northing
290	P44	706116.321	3434633.502
289	P45	706117.801	3434624.387
288	P45	706117.992	3434615.139
287	P44	706118.518	3434597.366
286	P44	706120.433	3434596.717
285	P45	706121.844	3434610.714
284	P45	706123.659	3434622.339
283	P44	706125.102	3434634.466
282	P44	706136.287	3434635.695
281	P44	706131.882	3434620.462
280	P44	706130.111	3434584.519
279	P44	706111.426	3434582.021
278	P44	706107.594	3434592.822
277	P44	706110.479	3434620.679
276	P44	706107.099	3434632.489
275	P43	706076.866	3434578.136
274	P43	706073.256	3434589.240
273	P43	706066.930	3434607.425
272	P43	706060.100	3434626.279
271	P43	706058.907	3434627.899
270	P40	706004.679	3434569.483
269	P39	705998.991	3434568.801
268	P40	706002.449	3434569.216
267	P41	706002.557	3434569.287
266	P41	705999.553	3434571.498
265	P38	705867.306	3434616.278
264	P38	705864.385	3434613.771
263	P38	705871.380	3434605.992
262	P38	705887.090	3434597.952
261	P38	705902.556	3434589.538
260	P38	705913.102	3434592.790
259	P38	705943.159	3434585.928
258	P38	705970.463	3434574.156
257C	P42	706044.785	3434627.199
257B	P42	705997.792	3434598.427
257A	P42	705985.104	3434601.071
257	P42	705986.686	3434567.327
256	P42	705995.219	3434568.349
255	P39	705906.388	3434570.207
254	P42	705997.663	3434573.179
253	P41	706002.182	3434576.168
252	P42	706004.759	3434578.014
251	P42	706008.077	3434572.981
250	P41	706005.217	3434571.095
249	P42	706005.325	3434569.680
248	P42	706005.906	3434576.823
247	P43	706059.553	3434595.722
246	P42	706047.534	3434627.328
245	P38	705944.886	3434622.490
244	P38	705869.969	3434618.959
243	P37	705854.075	3434633.205
242	P37	705856.143	3434634.585
241	P37	705856.078	3434635.532
240	P37	705854.976	3434636.541



Legend

◆ GPS Pillar — PROW — Acquired ROW - - - - - Proposed Centreline - - - - - Muck Site — Khasra boundary — Village boundary ■ Forest area



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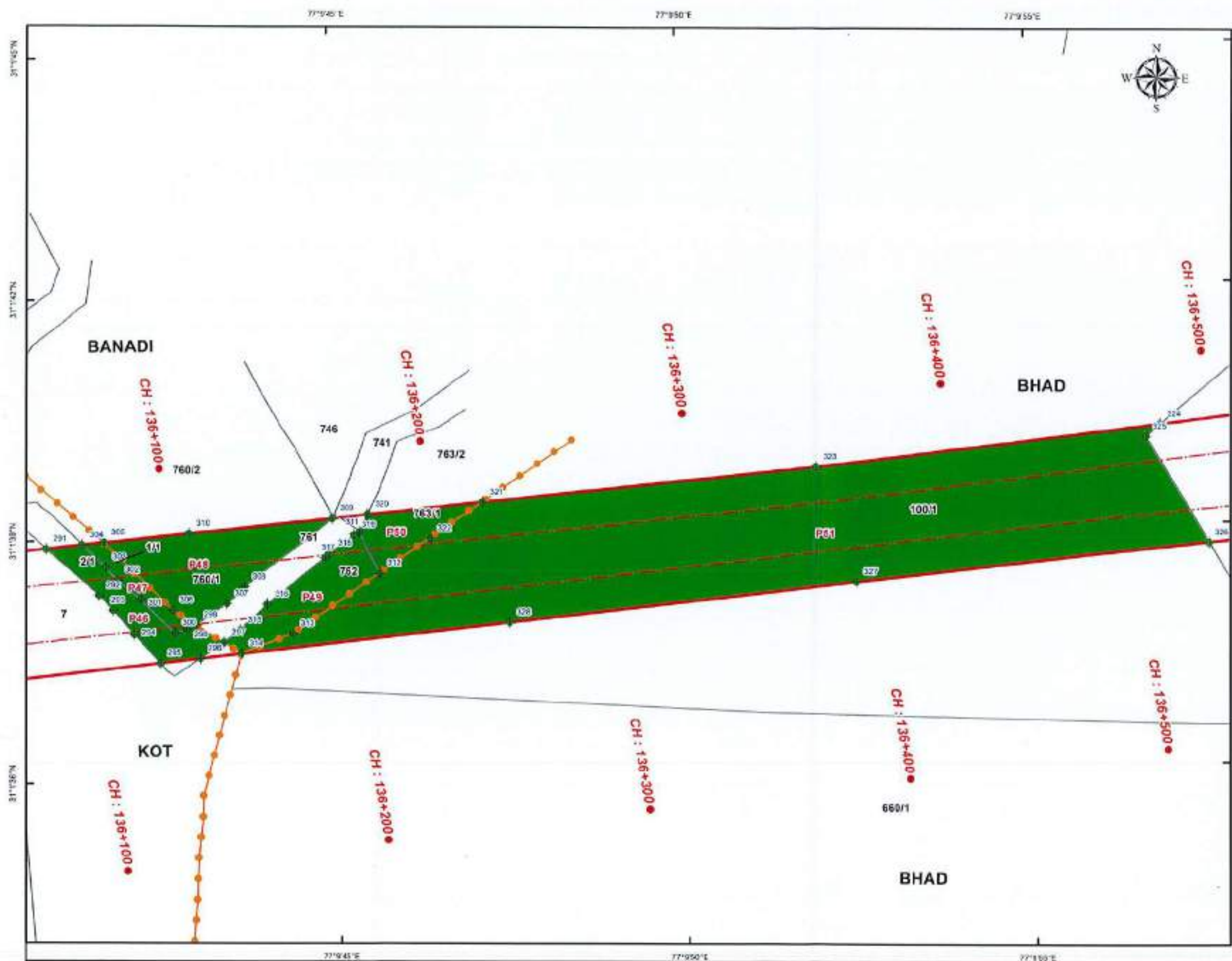
Project:

Additional Forest land requirement of 11.7936 ha. for four laning of proposed Shimla Bypass from Kaithlighat to Shakral Section (Package-I) of NH-22 (Chainage from Km. 128.835 to Km. 146.300) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 128.835 to Km. 156.560) of NH-22 for 40.3 Ha in the State of Himachal Pradesh.

CS

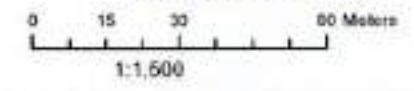
Divisional Engineer
Tehsil: Shimla Rural, District: Shimla
SHIMLA

S.K. Sharma
GM (T) cum Project Director
NHAI, PIU-Shimla



GPS Coordinates (UTM)			
GPS_Pillar	Patch_No	Easting	Northing
328	P51	706468.543	3434625.208
327	P51	706601.767	3434641.058
326	P51	706736.116	3434656.567
325	P51	706711.634	3434697.039
324	P51	706717.053	3434701.841
323	P51	706586.143	3434685.108
322	P51	706439.442	3434657.354
321	P50	706459.132	3434671.157
320	P50	706415.558	3434666.371
319	P49	706410.408	3434658.514
318	P49	706401.265	3434651.558
317	P49	706399.269	3434649.746
316	P49	706377.461	3434631.831
315	P49	706367.111	3434622.047
314	P49	706367.742	3434613.005
313	P51	706387.119	3434620.609
312	P50	706420.306	3434643.934
311	P50	706412.239	3434659.520
310	P48	706347.578	3434658.904
309	P48	706401.969	3434664.878
308	P48	706368.892	3434638.507
307	P48	706362.173	3434632.169
306	P47	706341.312	3434629.639
305	P48	706315.230	3434655.350
304	P47	706307.167	3434654.465
303	P47	706315.799	3434646.019
302	P46	706320.505	3434641.041
301	P47	706329.257	3434633.678
300	P46	706342.294	3434620.958
299	P47	706346.765	3434622.146
298	P48	706350.372	3434623.937
297	P46	706361.099	3434617.185
296	P46	706352.141	3434611.134
295	P46	706336.767	3434609.292
294	P46	706326.715	3434620.296
293	P46	706318.924	3434629.540
292	P46	706313.516	3434635.084
291	P46	706293.529	3434652.967

S.K. Sharma
GM (Team-Project Director)
NHAI, PIU-Shimla



Legend

- GPS Pillar
- PROW
- Acquired ROW
- Proposed Centreline
- Muck Site
- Khasra boundary
- Village boundary
- Forest area

Project: Additional Forest land requirement of 11.7936 ha. for four laning of proposed Shimla Bypass from Kalhligat to Shakral Section (Package-II) of NH-22 (Chainage from Km. 128.835 to Km. 146.300) in already approved FCA case of the entire section from Kalhligat to Dhalli (Chainage from Km. 128.835 to Km. 156.560) of NH-22 for 40.3 Ha in the State of Himachal Pradesh.

Divisional Forest Officer
Tehsil: Shimla Rural, District: Shimla
SHEET-12
SHIMLA

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NATIONAL HIGHWAY AUTHORITY OF INDIA



S.K. Sharma
GM (T)-cum-Project Director
NHAI, PIU-Shimla

0 5 10 20 Meters
1:500

Legend

GPS Pillar PROW Acquired ROW Proposed Centreline Muck Site Khasra boundary Village boundary Forest area



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and Technocrats Pvt. Ltd.

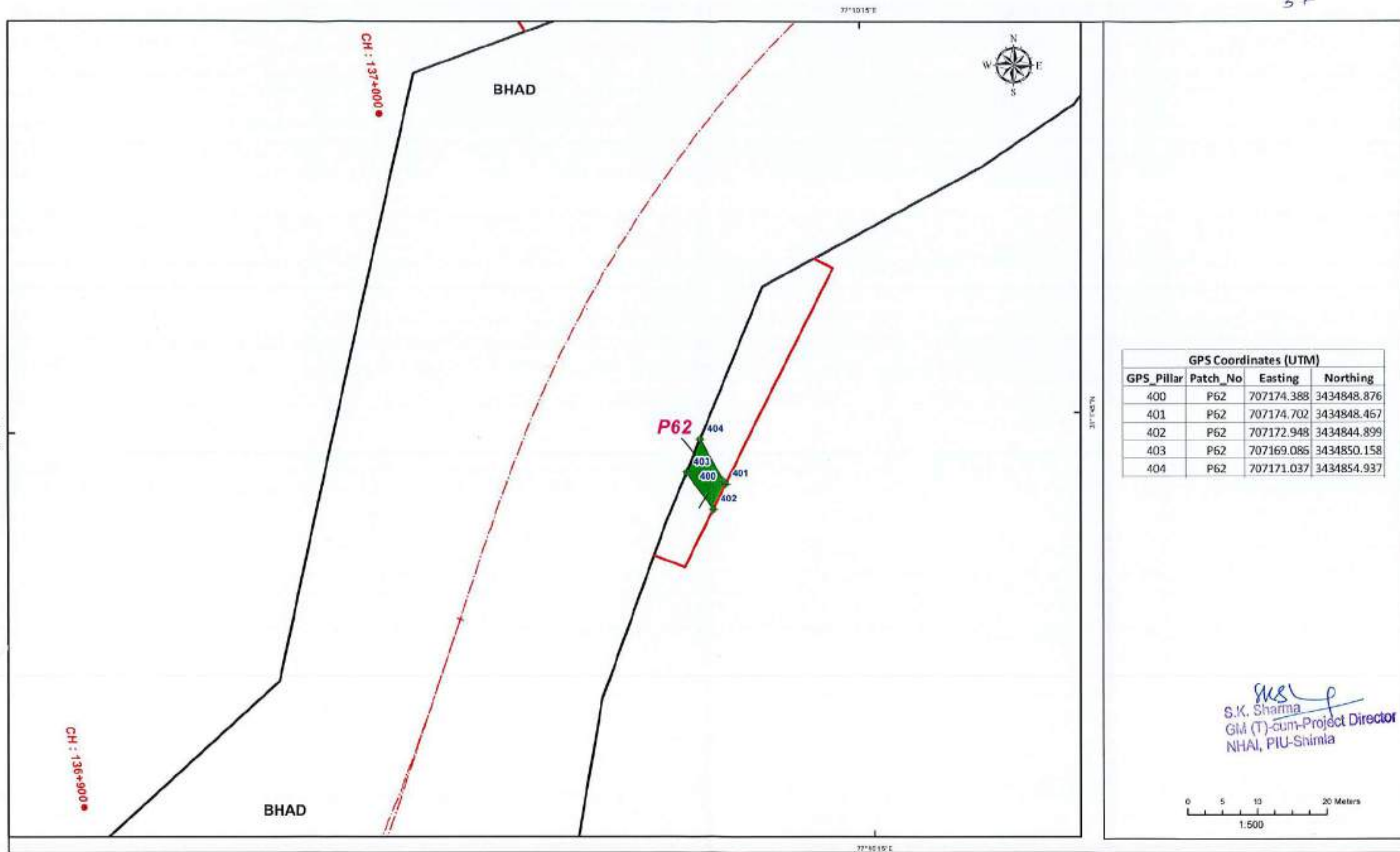


NATIONAL HIGHWAY AUTHORITY OF INDIA

Project:

Additional Forest land requirement of 11.7936 ha. for four laning of proposed Shimla Bypass from Kaithlighat to Shakral Section (Package-I) of NH-22 (Chainage from Km. 128.835 to Km. 146.300) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 128.835 to Km. 156.560) of NH-22 for 40.3 Ha in the State of Himachal Pradesh.

Divisional Forest Officer
Shimla
Tehsil Shimla, District Shimla
SHEET-11A



Legend

◆ GPS Pillar — PROW — Acquired ROW - - - - Proposed Centreline - - - - Muck Site — Khasra boundary - - - - Village boundary ■ Forest area



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and Technocrats Pvt. Ltd.



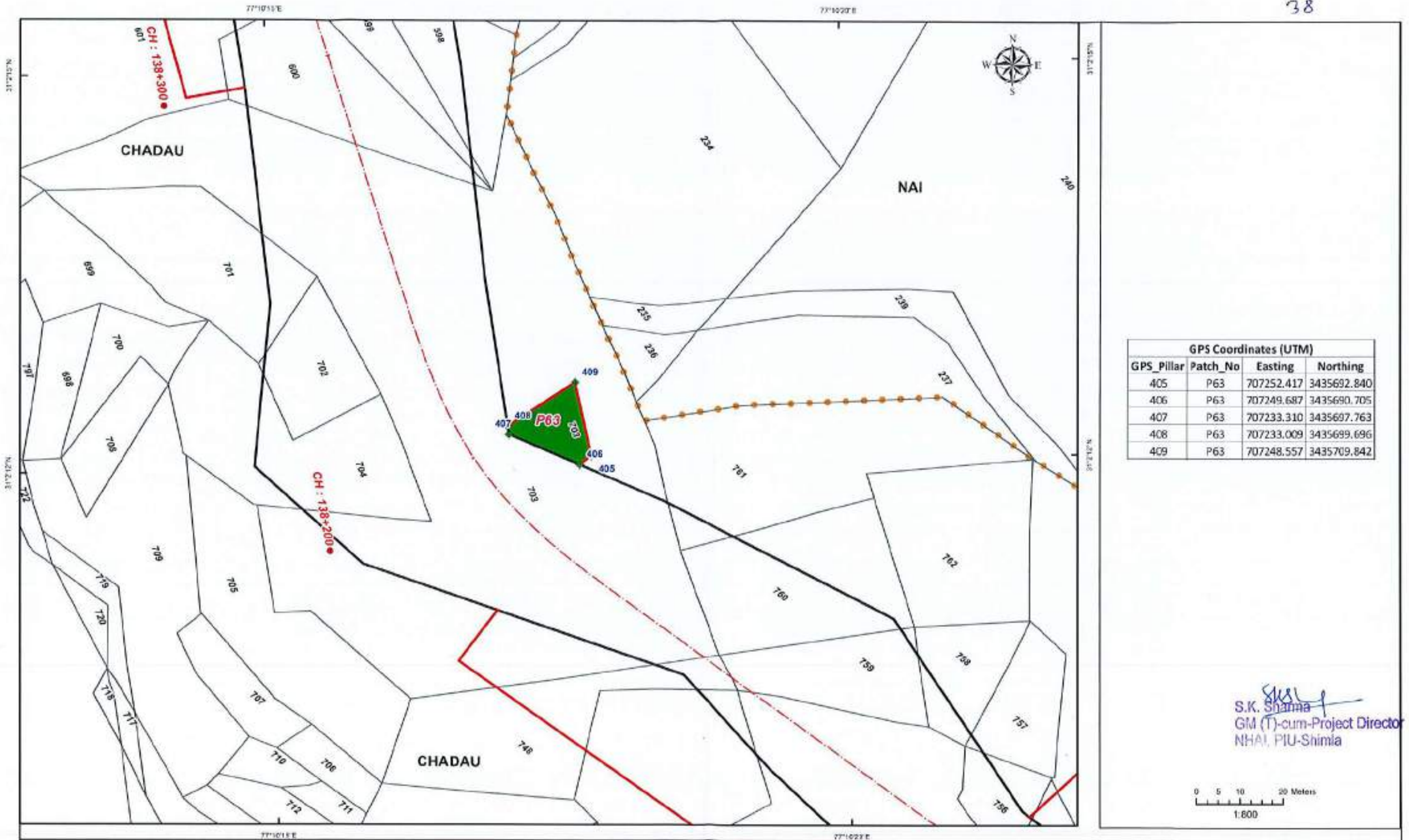
NATIONAL HIGHWAY AUTHORITY OF INDIA

Project:

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Divisional Forest Officer
Shimla Rural Division
Tehsil: Shimla Rural, District: Shimla
SHIMLA



Legend

◆ GPS Pillar — PROW — Acquired ROW - - - - - Proposed Centreline - - - - - Muck Site — Khasra boundary — Village boundary ■ Forest area



Intercontinental Consultants
and Technocrats Pvt. Ltd.



NATIONAL HIGHWAY AUTHORITY OF INDIA

Project:

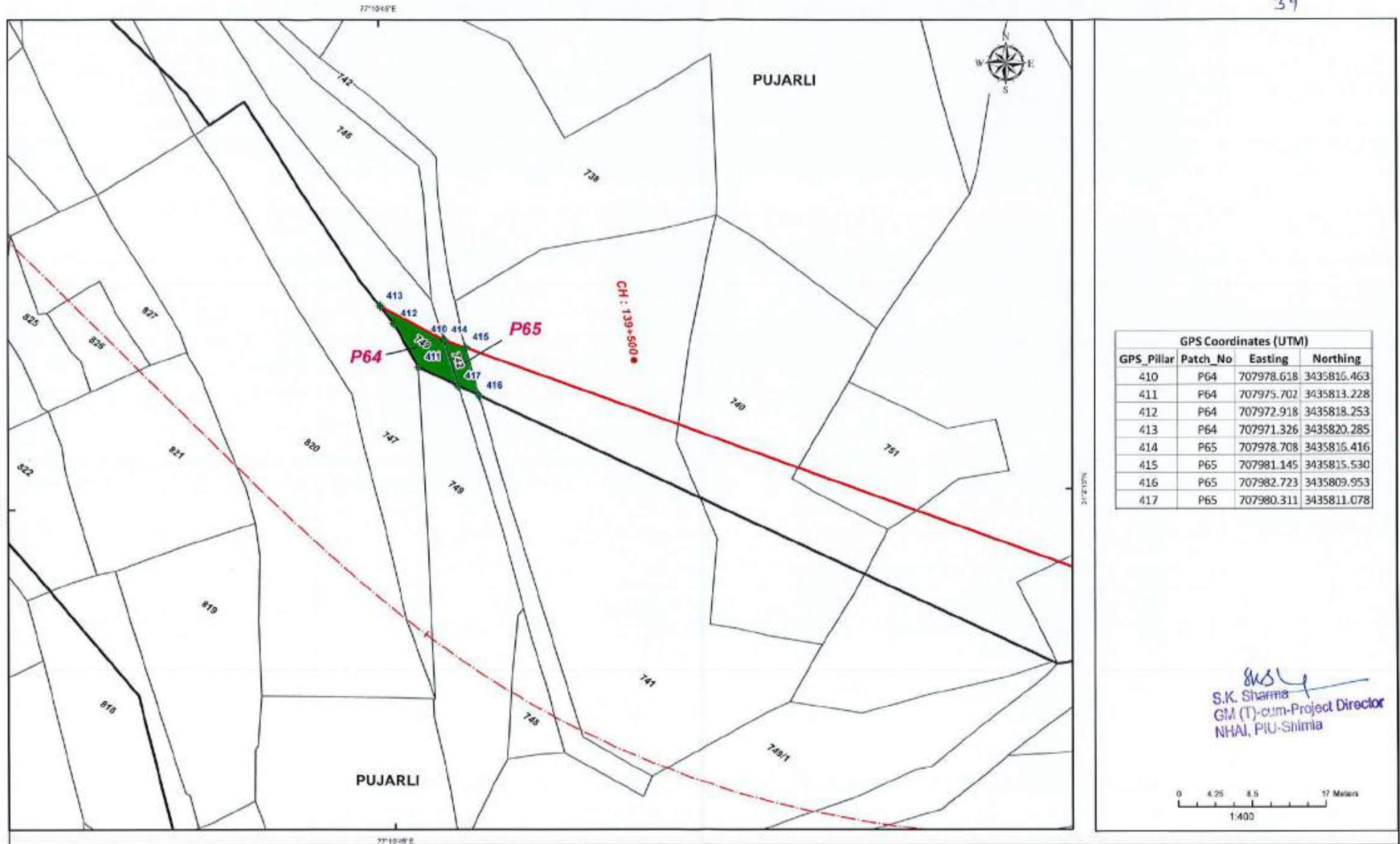
Additional Forest land requirement of 11.7936 ha. for four laning of proposed Shimla Bypass from Kaithlighat to Shakral Section (Package-I) of NH-22 (Chainage from Km. 128.835 to Km. 146.300) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 128.835 to Km. 156.560) of NH-22 for 40.3 Ha in the State of Himachal Pradesh.

Cg

Divisional Forest Officer

Shimla Bypass, District Shimla

SHEET 16

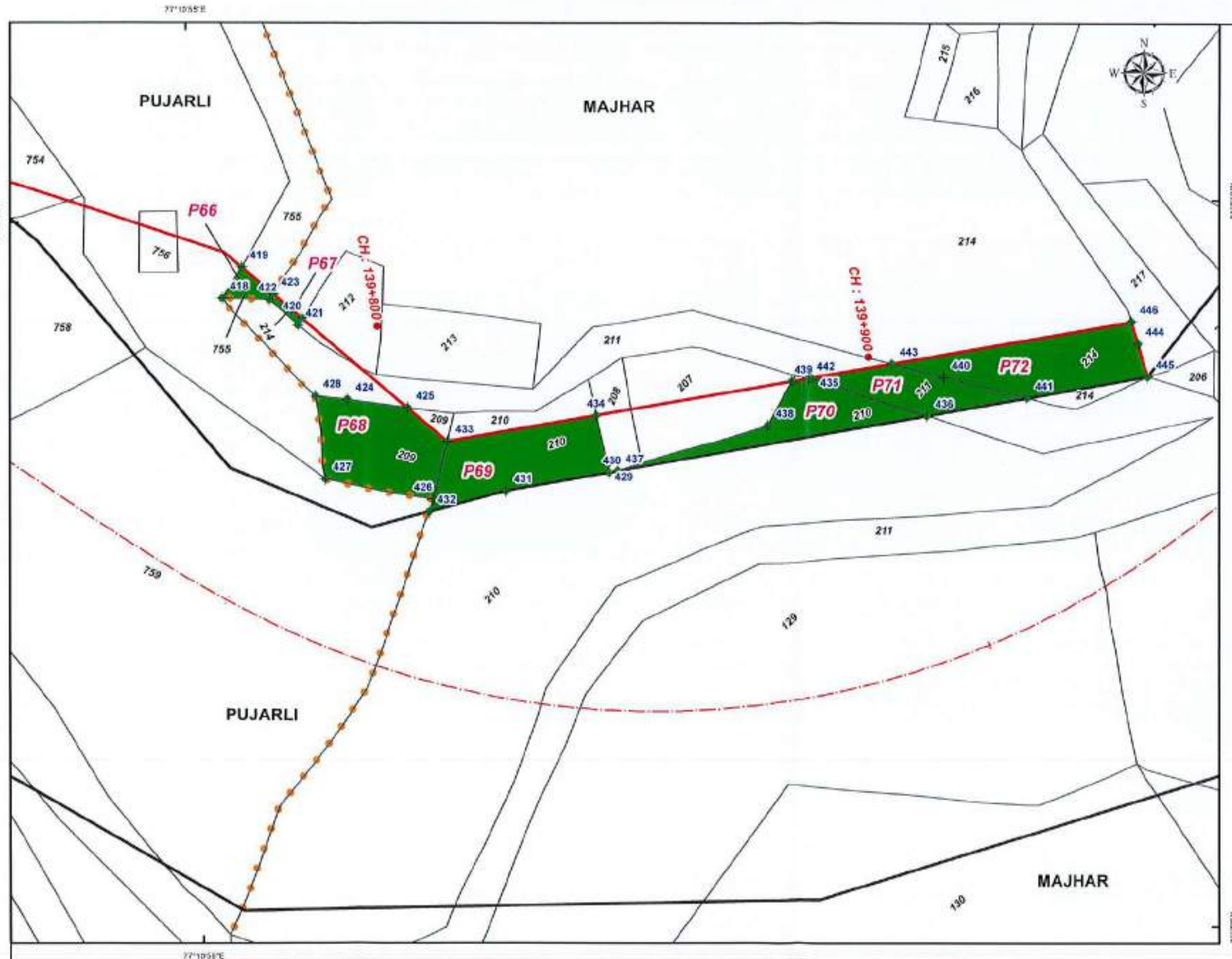


GPS Coordinates (UTM)			
GPS_Pillar	Patch_No	Easting	Northing
410	P64	707978.618	3435816.463
411	P64	707975.702	3435813.228
412	P64	707972.918	3435818.253
413	P64	707971.326	3435820.285
414	P65	707978.708	3435816.416
415	P65	707981.145	3435815.530
416	P65	707982.723	3435809.953
417	P65	707980.311	3435811.078

S.K. Sharma
GM (T)-cum-Project Director
NHAI, PIU-Shimla

Legend

GPS Pillar PROW Acquired ROW Proposed Centreline Muck Site Khasra boundary Village boundary Forest area



GPS Coordinates (UTM)			
GPS_Pillar	Patch_No	Easting	Northing
418	P66	708243.417	3435700.393
419	P66	708245.841	3435704.346
420	P67	708253.463	3435697.858
421	P67	708252.940	3435697.023
422	P67	708249.374	3435700.217
423	P67	708249.831	3435700.950
424	P68	708259.237	3435687.530
425	P68	708266.878	3435686.439
426	P68	708270.138	3435674.858
427	P68	708256.431	3435677.433
428	P68	708255.164	3435687.962
429	P69	708292.054	3435679.337
430	P69	708292.287	3435678.256
431	P69	708279.253	3435675.906
432	P69	708269.546	3435673.257
433	P69	708271.833	3435682.222
434	P69	708290.659	3435685.528
435	P70	708318.012	3435690.170
436	P70	708332.547	3435685.516
437	P70	708293.392	3435678.455
438	P70	708312.327	3435684.248
439	P70	708315.429	3435689.878
440	P71	708334.645	3435690.392
441	P71	708345.147	3435687.788
442	P71	708317.577	3435690.255
443	P71	708328.053	3435692.095
444	P72	708359.229	3435694.692
445	P72	708360.450	3435690.548
446	P72	708358.417	3435697.503

S.K. Sharma
GM (T)-cum-Project Director
NHA, PIU-Shimla
0 5 10 20 Meters
1:500

Legend

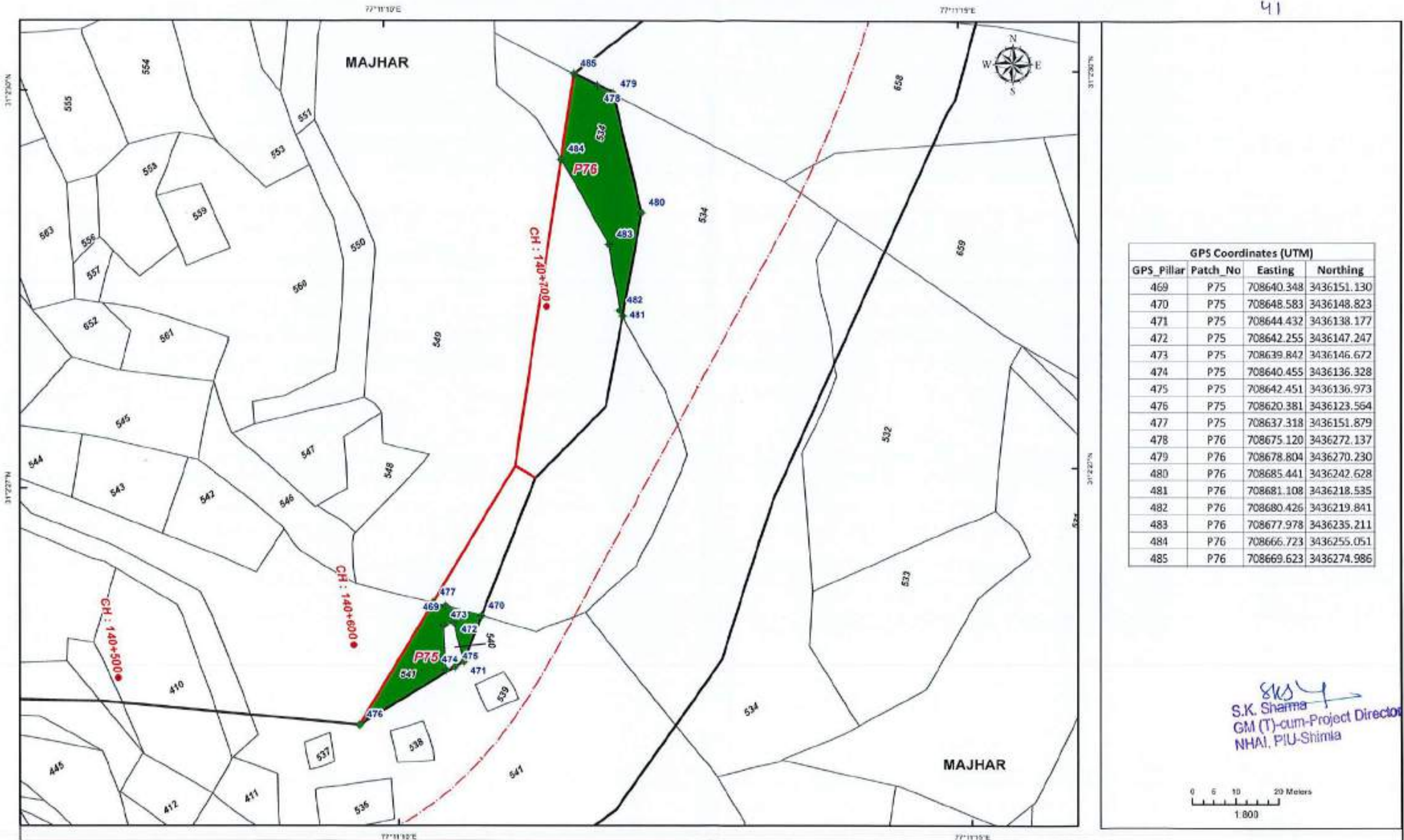
◆ GPS Pillar
 — PROW
 — Acquired ROW
 - - - - Proposed Centreline
 - - - - Muck Site
 — Khasra boundary
 - - - - Village boundary
 Forest area

Project: Additional Forest land requirement of 11.7936 ha. for four laning of proposed Shimla Bypass from Kaithlighat to Shakral Section (Package-I) of NH-22 (Chainage from Km. 128.835 to Km. 146.300) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 128.835 to Km. 156.580) of NH-22 for 40.3 Ha in the State of Himachal Pradesh.

CS Divisional Forest Officer
Shimla
Tehsil: Shimla, District: Shimla
SHEET: 18

Intercontinental Consultants and Technocrats Pvt. Ltd.

NATIONAL HIGHWAY AUTHORITY OF INDIA



Legend

◆ GPS Pillar — PROW — Acquired ROW - - - - Proposed Centreline - - - - Muck Site — Khasra boundary — Village boundary ■ Forest area



Intercontinental Consultants
and Technocrats Pvt. Ltd.

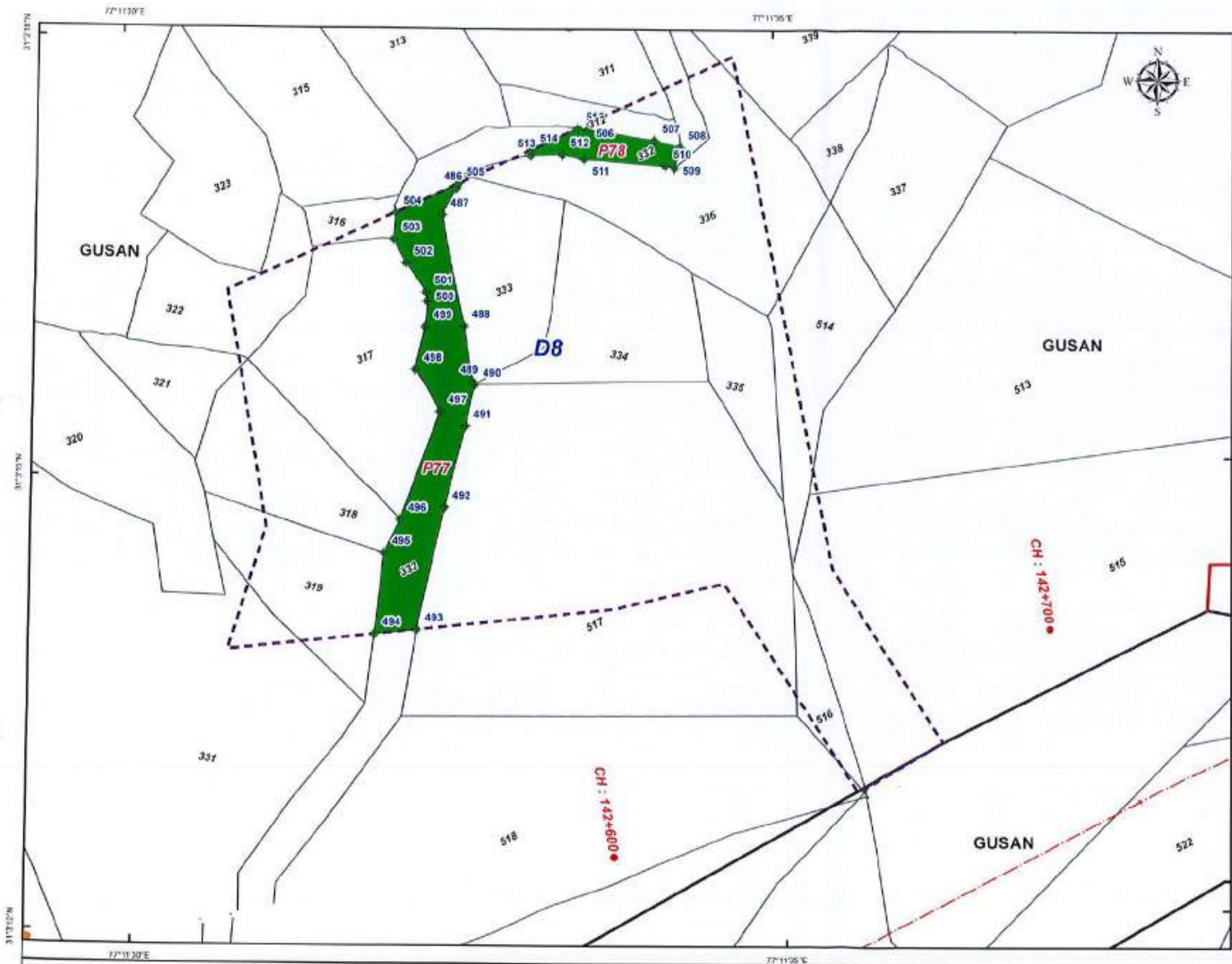


NATIONAL HIGHWAY AUTHORITY OF INDIA

Project:

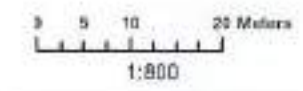
Additional Forest land requirement of 11.7936 ha. for four laning of proposed Shimla Bypass from Kaithlighat to Shakral Section (Package-I) of NH-22 (Chainage from Km. 128.835 to Km. 146.300) in already approved PCA case of the entire section from Kaithlighat to Dhali (Chainage from Km. 128.835 to Km. 156.560) of NH-22 for 40.3 Ha in the State of Himachal Pradesh.

Shimla District
Shimla Forest Division
SHIMLA

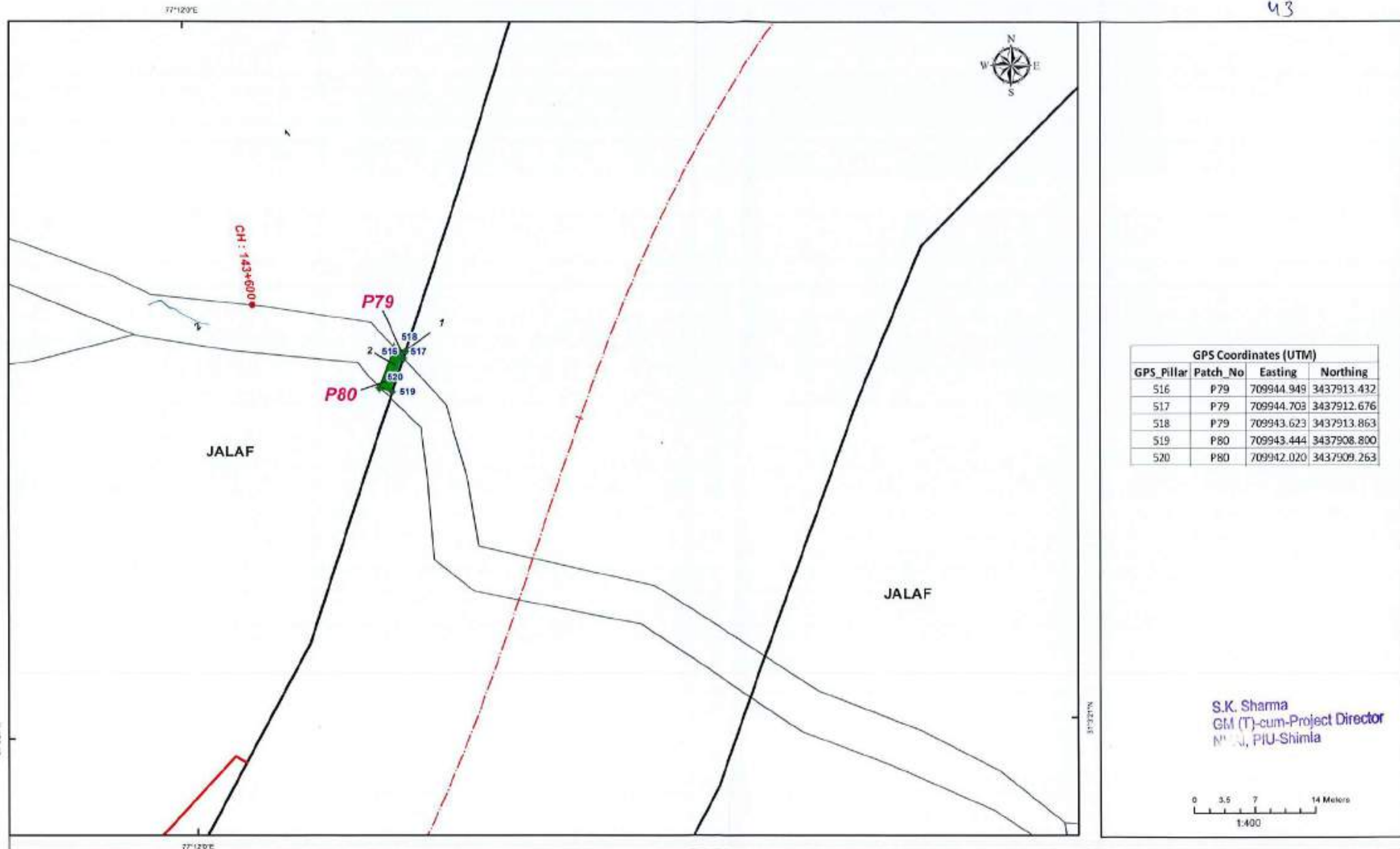


GPS Coordinates (UTM)			
GPS_Pillar	Patch_No	Easting	Northing
486	P77	709195.745	3437727.771
487	P77	709192.924	3437722.316
488	P77	709197.509	3437699.696
489	P77	709199.400	3437688.283
490	P77	709199.836	3437687.715
491	P77	709198.041	3437679.223
492	P77	709193.860	3437662.570
493	P77	709188.507	3437637.622
494	P77	709179.887	3437636.675
495	P77	709181.744	3437653.235
496	P77	709184.918	3437660.031
497	P77	709192.827	3437682.182
498	P77	709187.807	3437690.678
499	P77	709189.685	3437699.481
500	P77	709190.076	3437704.677
501	P77	709189.782	3437706.582
502	P77	709185.697	3437712.480
503	P77	709183.224	3437717.315
504	P77	709183.463	3437722.758
505	P77	709196.169	3437728.729
506	P78	709222.531	3437739.884
507	P78	709236.089	3437737.769
508	P78	709241.374	3437736.406
509	P78	709240.324	3437732.160
510	P78	709238.337	3437732.616
511	P78	709221.772	3437733.865
512	P78	709217.427	3437734.799
513	P78	709210.908	3437734.588
514	P78	709211.160	3437735.773
515	P78	709220.456	3437740.142

S.K. Sharma
GM (T)-cum-Project Director
NH-2, PIU-Shimla

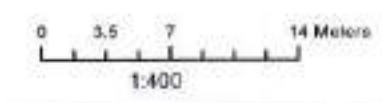


Legend
 ◆ GPS Pillar — PROW — Acquired ROW - - - - Proposed Centreline - - - - Muck Site — Khasra boundary - - - - Village boundary ■ Forest area



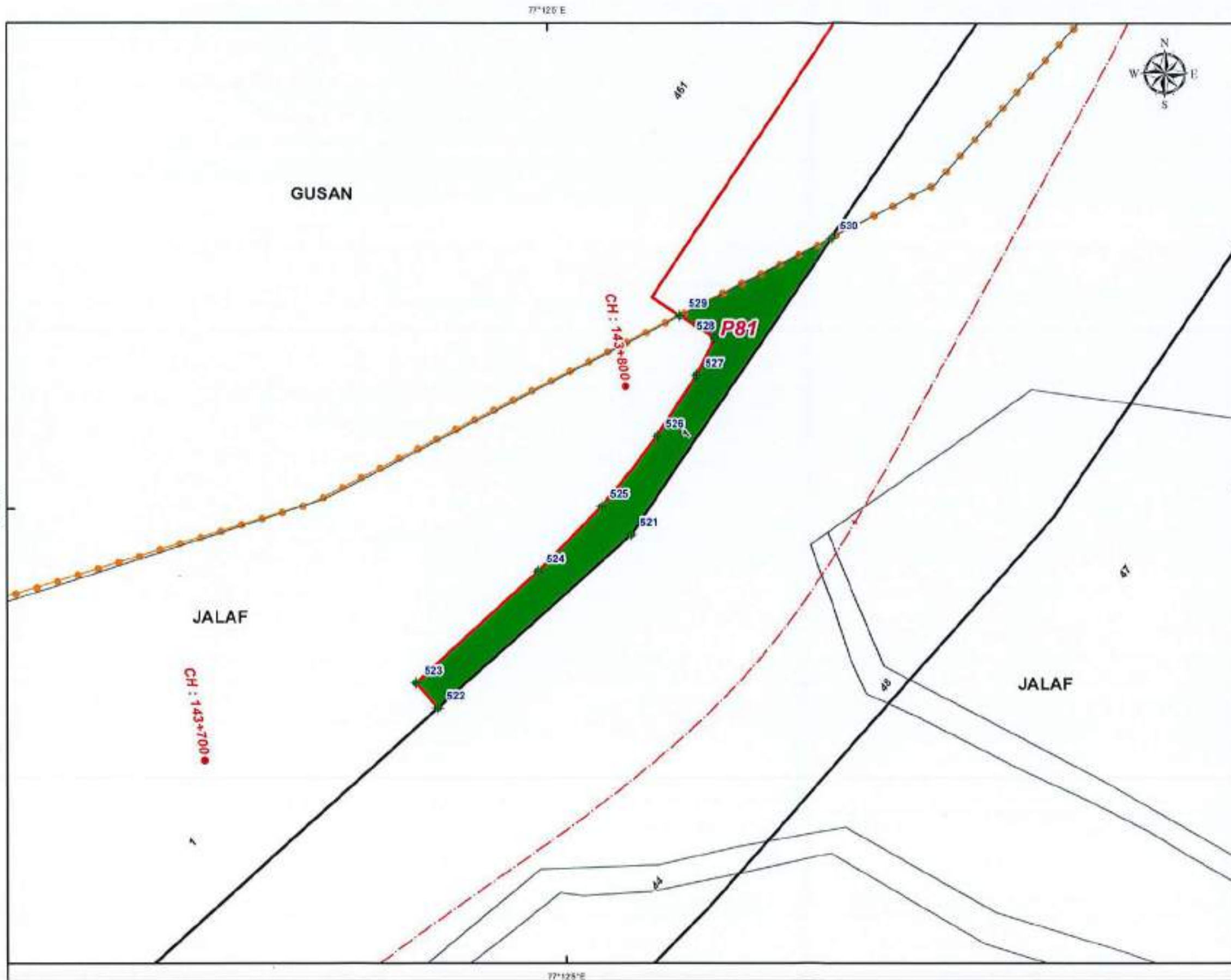
GPS Coordinates (UTM)			
GPS_Pillar	Patch_No	Easting	Northing
516	P79	709944.949	3437913.432
517	P79	709944.703	3437912.676
518	P79	709943.623	3437913.863
519	P80	709943.444	3437908.800
520	P80	709942.020	3437909.263

S.K. Sharma
GM (T)-cum-Project Director
N.H.A., PIU-Shimla



Legend

◆ GPS Pillar — PROW — Acquired ROW - - - - - Muck Site — Khasra boundary — Village boundary ■ Forest area



GPS Coordinates (UTM)			
GPS_Pillar	Patch_No	Easting	Northing
521	P81	710061.054	3438051.324
522	P81	710032.334	3438025.447
523	P81	710029.030	3438029.151
524	P81	710047.152	3438045.831
525	P81	710056.622	3438055.487
526	P81	710064.852	3438066.037
527	P81	710070.750	3438075.112
528	P81	710073.433	3438080.655
529	P81	710068.300	3438083.990
530	P81	710090.764	3438095.623

CS 
Divisional Forest Officer
Shimla Forest Division
SHIMLA


S.K. Sharma
GM (T)-cum-Project Director
NHAI, PIU-Shimla

0 5 10 20 Meters
1:600

Legend

◆ GPS Pillar — PROW — Acquired ROW — Proposed Centreline - - - - Muck Site — Khasra boundary — Village boundary ■ Forest area



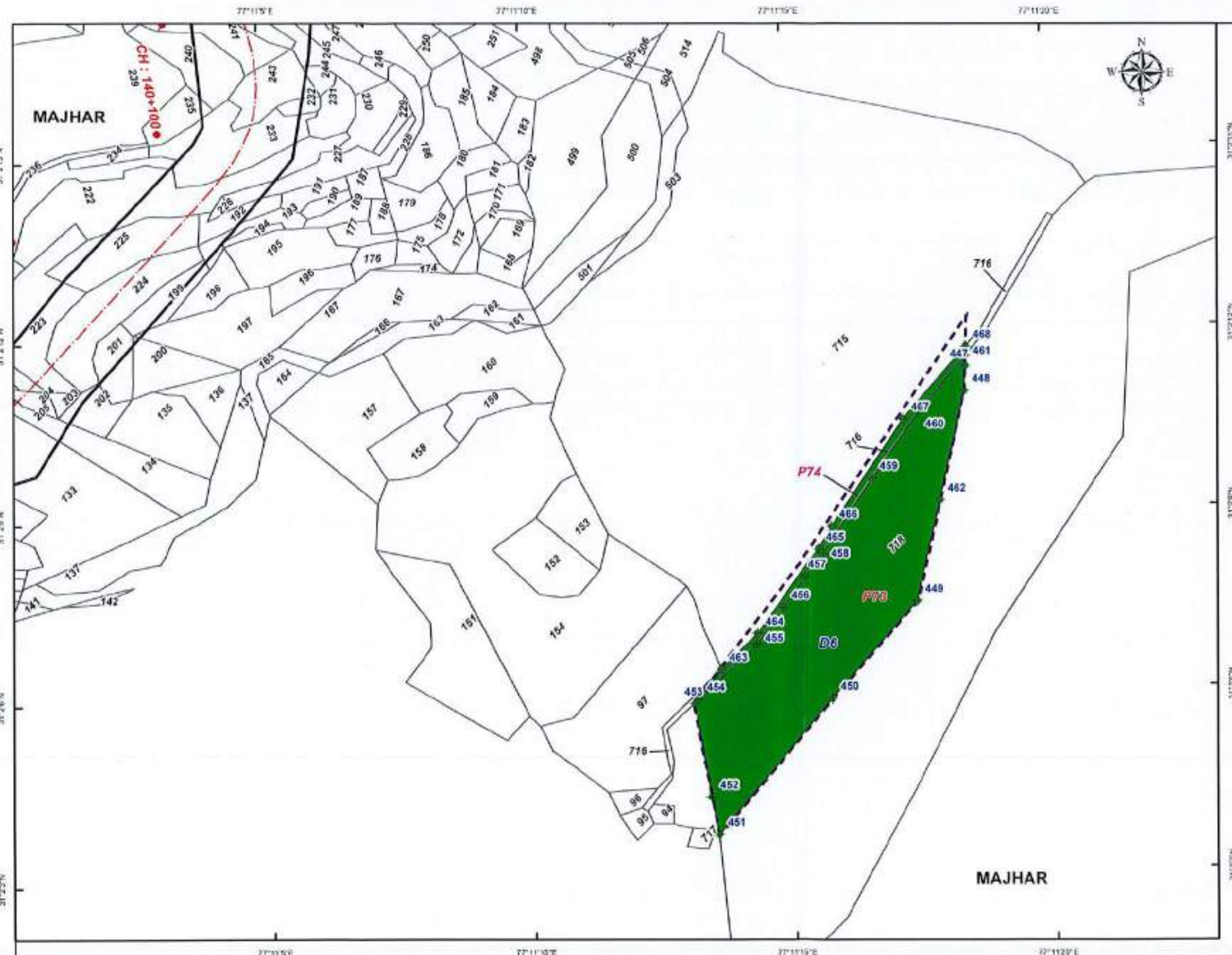
GPS Coordinates (UTM)			
GPS_Pillar	Patch_No	Easting	Northing
531	P82	709878.344	3439188.666
532	P82	709874.194	3439169.616
533	P82	709904.520	3439142.967
534	P82	709941.344	3439108.722
535	P82	710054.541	3439020.312
536	P82	710036.835	3439003.916
537	P82	709961.875	3439011.947
538	P82	709881.938	3439021.094
539	P82	709865.066	3439082.217
540	P82	709816.862	3439197.938
541	P82	709727.596	3439289.390
542	P82	709726.853	3439292.814
543	P83	710129.418	3439098.162
544	P83	710125.405	3439092.122
545	P83	710110.253	3439081.976
546	P83	710100.610	3439070.056
547	P83	710089.842	3439058.177
548	P83	710069.072	3439034.556
549	P83	710058.591	3439060.817
550	P83	710052.480	3439078.087
551	P83	710050.200	3439083.149
552	P83	710040.100	3439084.880
553	P83	709990.553	3439089.950
554	P83	709976.306	3439091.077
555	P83	709969.774	3439090.498
556	P83	709959.478	3439092.076
557	P83	709976.032	3439101.729
558	P83	710136.904	3439109.118

S.K. Sharma
GM (T)-cum-Project Director
NHAI, PIU-Shimla

0 15 30 60 Meters
1:2,000

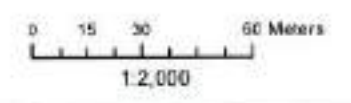
Legend

◆ GPS Pillar — PROW — Acquired ROW — Proposed Centreline - - - - Muck Site — Khasra boundary — Village boundary ■ Forest area



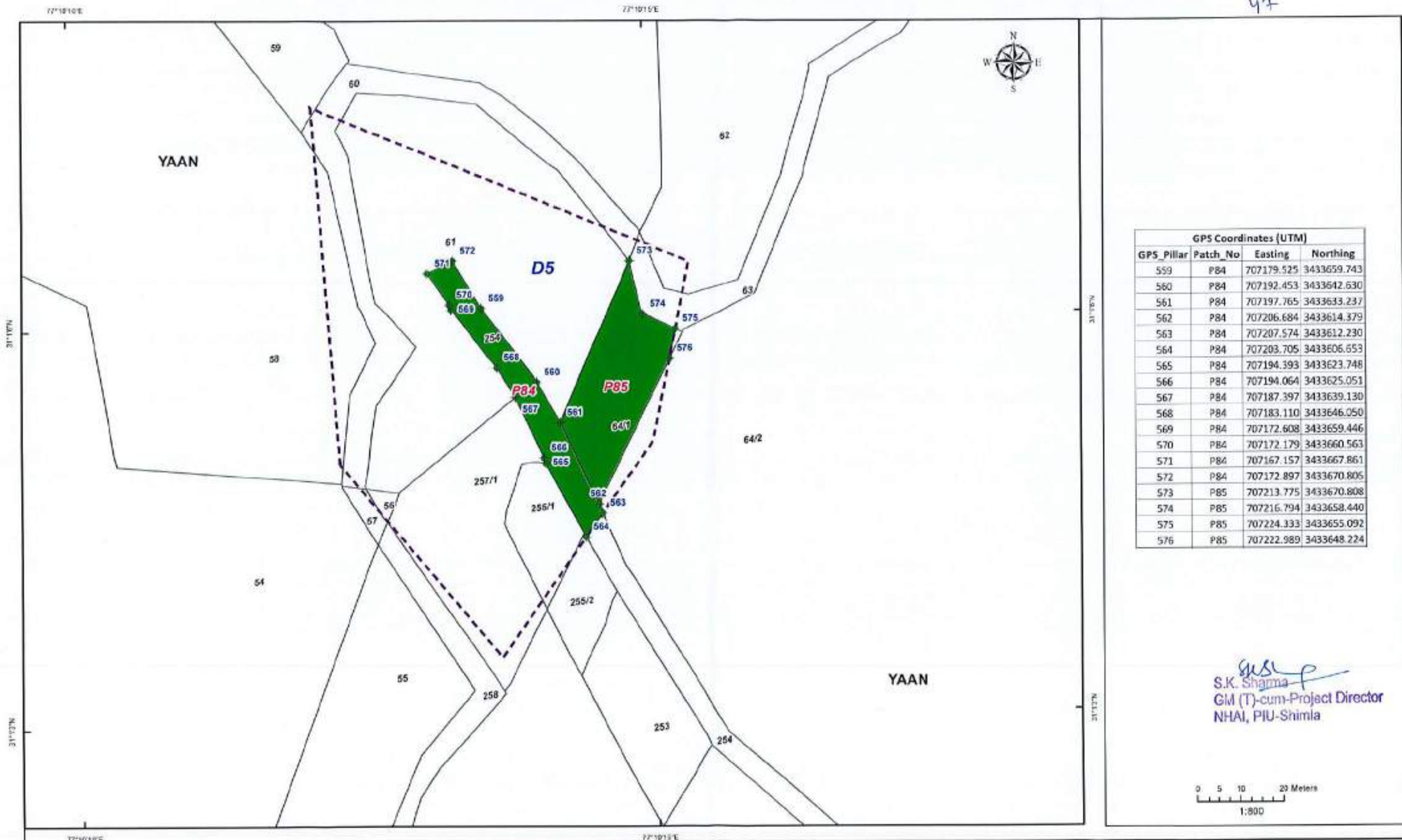
GPS Coordinates (UTM)			
GPS Pillar	Patch No	Easting	Northing
447	P73	708861.355	3435703.039
448	P73	708861.003	3435690.372
449	P73	708836.971	3435582.956
450	P73	708794.037	3435532.981
451	P73	708736.137	3435463.747
452	P73	708732.423	3435482.896
453	P73	708724.044	3435530.180
454	P73	708725.844	3435532.577
455	P73	708755.249	3435560.763
456	P73	708768.901	3435579.462
457	P73	708780.055	3435595.412
458	P73	708789.294	3435607.180
459	P73	708814.030	3435645.594
460	P73	708837.452	3435679.331
461	P73	708861.439	3435708.206
462	P73	708848.580	3435634.324
463	P74	708737.357	3435547.916
464	P74	708755.641	3435566.081
465	P74	708786.835	3435609.306
466	P74	708793.762	3435620.908
467	P74	708829.905	3435675.687
468	P74	708861.516	3435712.985

S.K. Sharma
 GM (T)-cum-Project Director
 NHAI, PIU-Shimla



Legend

◆ GPS Pillar — PROW — Acquired ROW - - - - Proposed Centreline - - - - Muck Site — Khasra boundary - - - - Village boundary ■ Forest area



GPS Coordinates (UTM)			
GPS_Pillar	Patch_No	Easting	Northing
559	P84	707179.525	3433659.743
560	P84	707192.453	3433642.630
561	P84	707197.765	3433633.237
562	P84	707206.684	3433614.379
563	P84	707207.574	3433612.230
564	P84	707203.705	3433606.653
565	P84	707194.393	3433623.748
566	P84	707194.064	3433625.051
567	P84	707187.397	3433639.130
568	P84	707183.110	3433646.050
569	P84	707172.608	3433659.446
570	P84	707172.179	3433660.563
571	P84	707167.157	3433667.861
572	P84	707172.897	3433670.806
573	P85	707213.775	3433670.808
574	P85	707216.794	3433658.440
575	P85	707224.333	3433655.092
576	P85	707222.989	3433648.224

S.K. Sharma
GM (T)-cum-Project Director
NHAI, PIU-Shimla

0 5 10 20 Meters
1:800

TO KATHLIGHAT

TO SHAKRAL

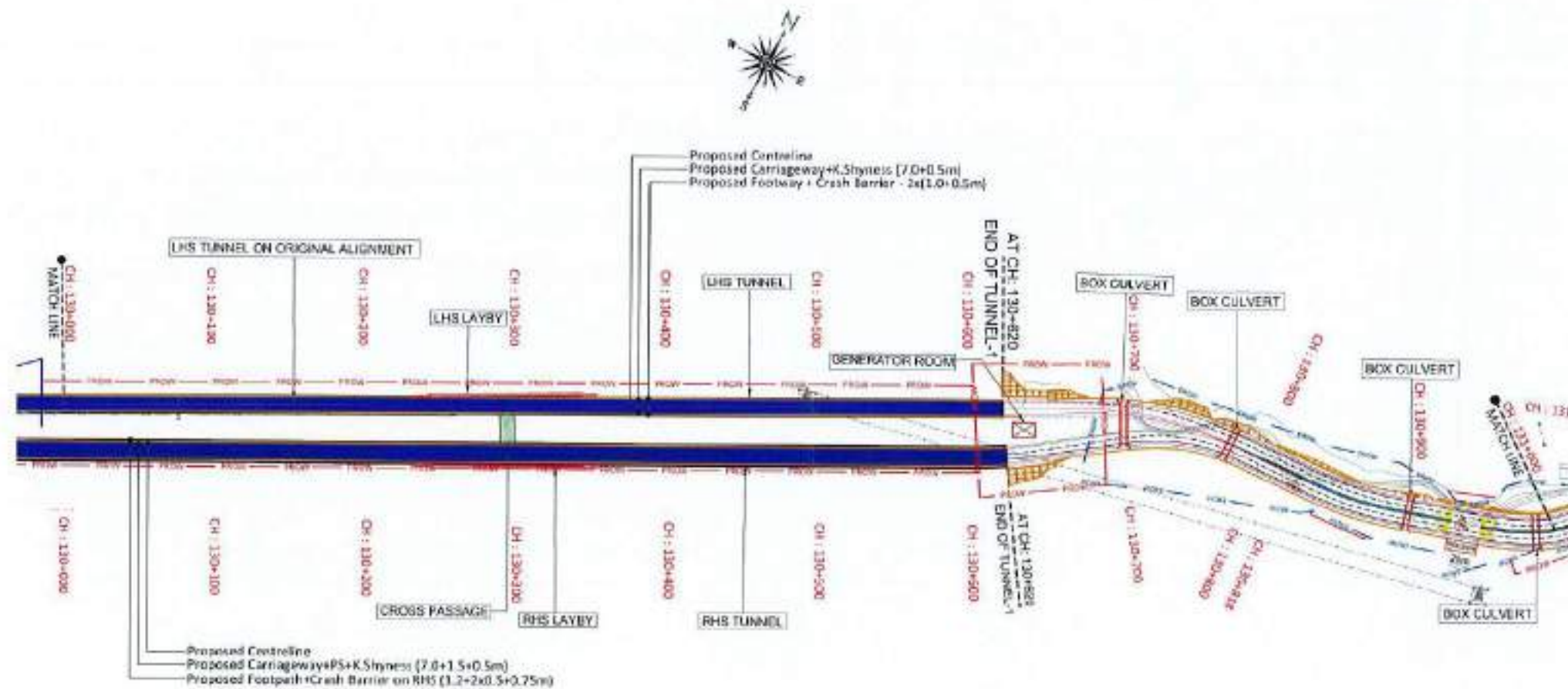


K.T.
 CS Divisional Forest Officer
 Shimla Forest Division
 Shimla
 SHIMLA

S.K. Sharma
 S.K. Sharma
 Joint Project Director
 J.P.D.

Note: All dimension are in meter except otherwise specified.

 <div>NATIONAL HIGHWAYS AUTHORITY OF INDIA</div>	Scale : 1 : 2500	Project Title Construction of Four Lining of NH- 5 from Kathlighat to Shakral Village (Shimla Bypass Package - I from Km 128+835 to Km 146+300 for Design length - 17.465Km) in the state of Himachal Pradesh on HAM.	Drawing Name <u>Final Detailed Project Report</u> Layout Plan Ch. Km 128+835 To 130+000	 <div>Intercontinental Consultants & Technocrats Pvt.Ltd. A-8, Green Park, New Delhi - 110016 Ph : 4086-3000, Fax 2685-5252</div>	Rev.	February, 2022	Final DFR	Checked By
					Revision	Date	Description	
					Revision:			Revision:
Lohit Saxena Prepared by			K.K.Verma Designed by	Naveen Choudhary Checked by	Sandeep Bhattacharya Approved by	DSG No - NHAI/SH-SHIMLA - BYPASS L.P. 01		Rev.



CS 
Divisional Forest Officer
Shimla Forest Division
SHIMLA

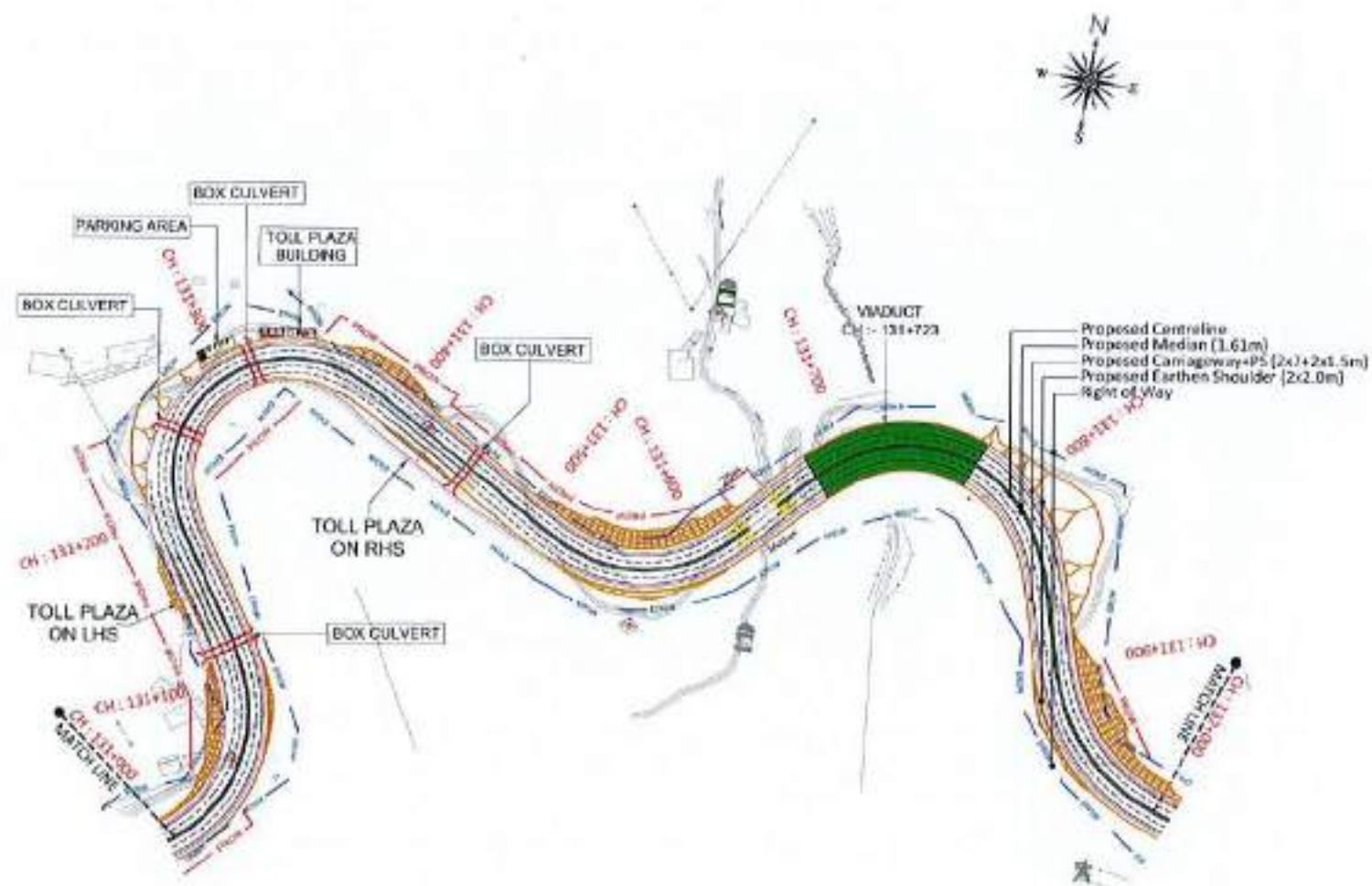

S.K. Sharma
Chief Engineer
Director
NHAI

Note: All dimension are in meter except otherwise specified.

 <div>NATIONAL HIGHWAYS AUTHORITY OF INDIA</div>	Scale :	Project Title	Drawing Name	Intercontinental Consultants & Technocrats Pvt.Ltd. A-8, Green Park, New Delhi - 110016 Ph - 4086-3060, Fax 2685-5252				RD	February, 2021	Final DPR	Checked By
	1 : 2500	Construction of Four Lining of NH- 5 from Kathlighat to Shakral Village (Shimla Bypass Package - I from Km 128+835 to Km 146+300 for Design length - 17.465Km) in the state of Himachal Pradesh on HAM	Final Detailed Project Report Layout Plan Ch. Km 130+050 To 131+000		Lalit Bani Printed by	K.K Verma Checked by	Neeraj Choudhary Checked by	Sandeep Bhattacharya Approved by	Revision	Date	
									Revised		
									DWG No - NHA/SH-5/SHIMLA - BYPASS/DP - 02		

TO KATHLIGHAT

TO SHAKRAL



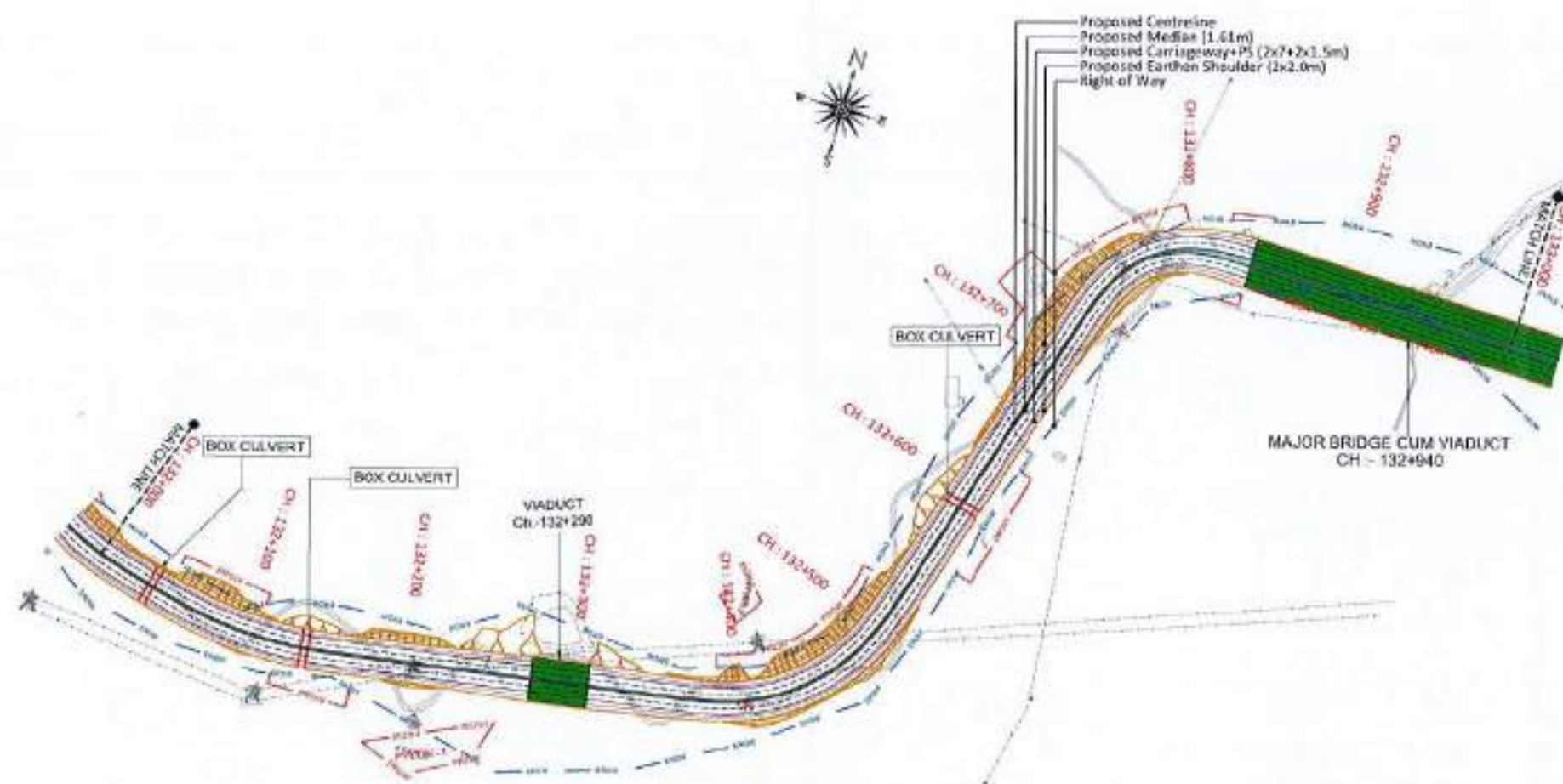
CS 
Divisional Forest Officer
Shimla Forest Division
SHIMLA
S.K. Sharma
GM (T)-cum-Project Director
NH-5, PIU-Shimla

Note: All dimension are in meter except otherwise specified.


 <div>NATIONAL HIGHWAYS AUTHORITY OF INDIA</div>	Scale :	Project Title	Drawing Name	 <div>Intercontinental Consultants & Technocrats Pvt Ltd. A-8, Green Park, New Delhi - 110016 Ph : 4086-3000, Fax 2685-5252</div>	Revision				DWG No - NHAI-NH-5-SHIMLA - BYPASS/P-03	Rev				
	1 : 2500	Construction of Four Laning of NH- 5 from Kathlighat to Shakral Village (Shimla Bypass Package - I from Km 128+835 to Km 146+300 for Design length - 17.463Km) in the state of Himachal Pradesh on HAM.	Final Detailed Project Report Layout Plan Ch. Km 131+000 To 132+000		 Lohi Sam Prepared by	 K.K. Verma Designed by	 Nagesh Choudhary Checked by	 Sardeep Bhattacharya Approved by			Sl	February, 2022	Final DPR	Checked By
											Revision	Date	Description	
											Remarks			

TO KATHLIGHAT

TO SHAKRAL



CS 
 Divisional Forest Officer
 Shimla Forest Division
 SHIMLA


 S.K. Sharma
 GM (T)-cum-Project Director
 NHAI, PIU-Shimla

Note: All dimension are in meter except otherwise specified.



NATIONAL HIGHWAYS
 AUTHORITY OF INDIA

Scale :

1 : 2500

Project Title


Construction of Four Lining of NH- 5 from Kathlighat to Shakral Village
 (Shimla Bypass Package - I from Km 128+835 to Km 146+300 for Design
 length - 17.465Km) in the state of Himachal Pradesh on HAM.


Drawing Name
 Final Detailed Project Report
 Layout Plan

On Km 132+000 To 133+000

Intercontinental Consultants & Technocrats Pvt.Ltd.
 A-8, Green Park, New Delhi - 110016
 Ph : 4086-3080, Fax 2681-5212




 Tahir Saini
 Prepared by


 K.R. Verma
 Designed by

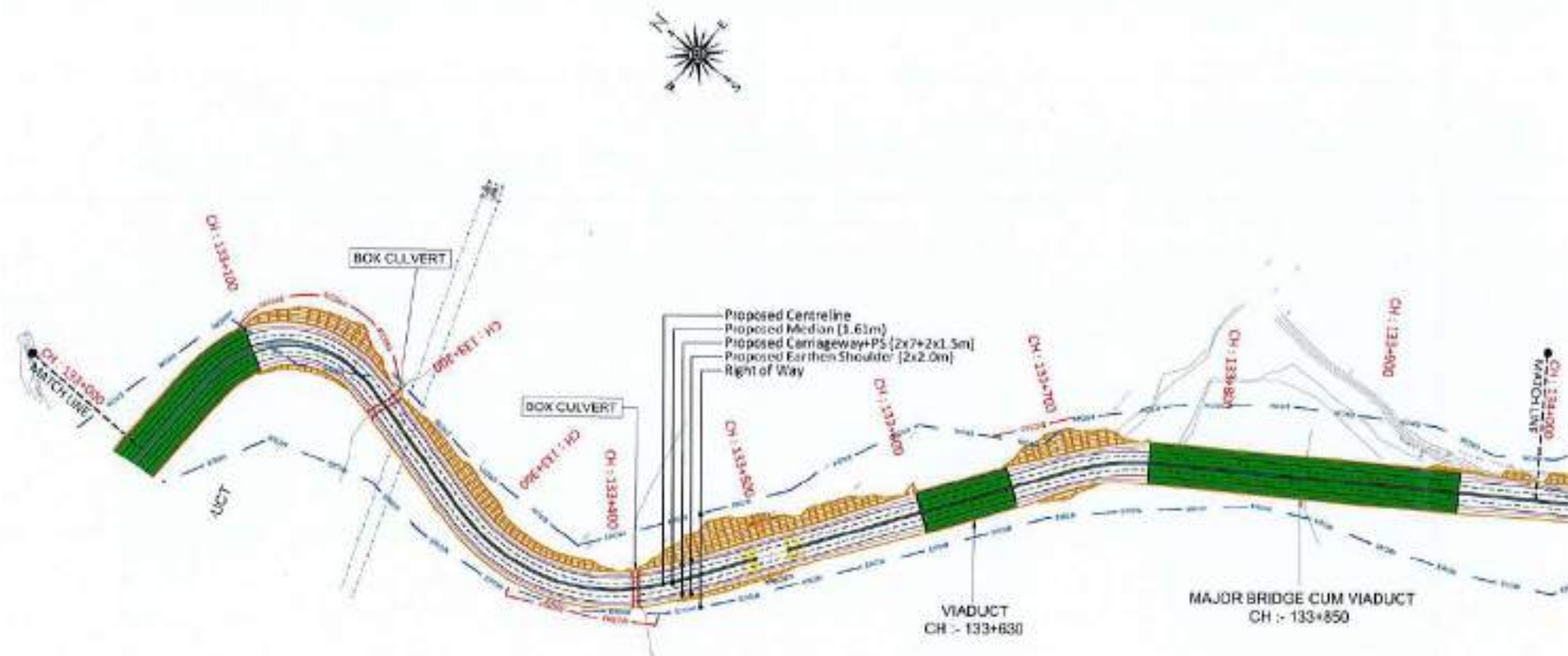

 Neeraj Choudhary
 Checked by


 Sanjay Bhatnagar
 Approved by


Rev	February, 2022	Final DPR	Checked By
Revision	Date	Description	
DWD No- NHAI/SH-SHIMLA-BYPASS LP/04			
Rev	Rev		
01			

TO KATHLIGHAT



TO SHAKRAL



CC 
Divisional Forest Officer
Shimla Forest Division
SHIMLA

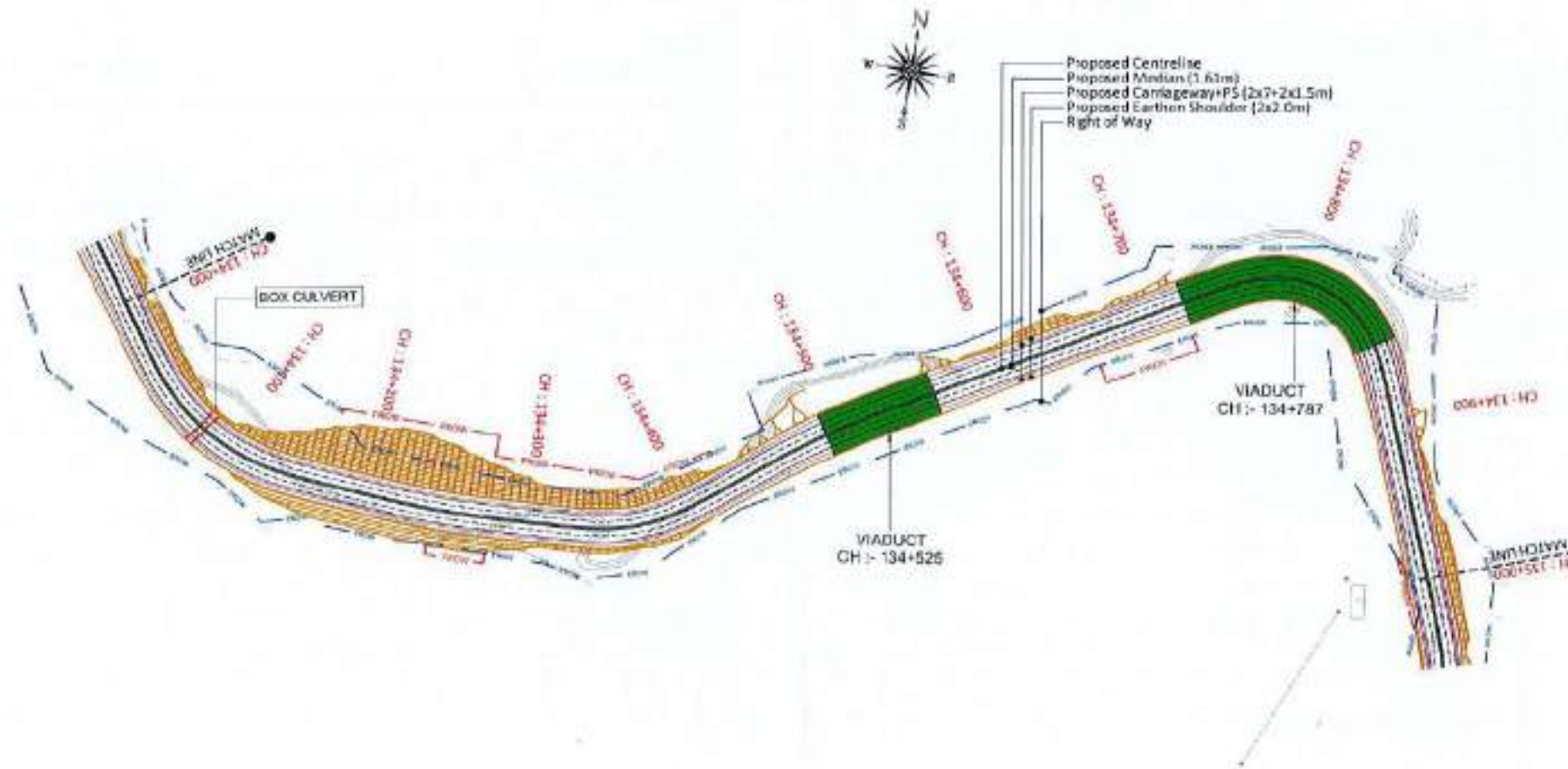

S.K. Sharma
GM (T)-cum-Project Director
NH-5, SHIMLA

Note: All dimension are in meter except otherwise specified.


 NATIONAL HIGHWAYS AUTHORITY OF INDIA	Scale : 1 : 2500	Project Title Construction of Four Lining of NH- 5 from Kathlighat to Shakral Village (Shimla Bypass Package - I from Km 128+835 to Km 146+300 for Design length - 17.465Km) in the state of Himachal Pradesh on HAM.	Drawing Name Final Detailed Project Report Layout Plan Ch. Km 133+000 To 134+000	 Intercontinental Consultants & Technocrats Pvt Ltd, A-8, Green Park, New Delhi - 110016 Ph - 4086-3060, Fax 2685-5252	01	February, 2022	Final DPR	Checked By				
					Revision	Date	Description					
					Revisions				DPR No. - NHAI/SH-5/SHIMLA - BYPASS I/R/05			
									Rev. No.			

TO KATHLIGHAT

TO SHAKRAL



CS 
Divisional Forest Officer
Shimla Forest Division
SHIMLA

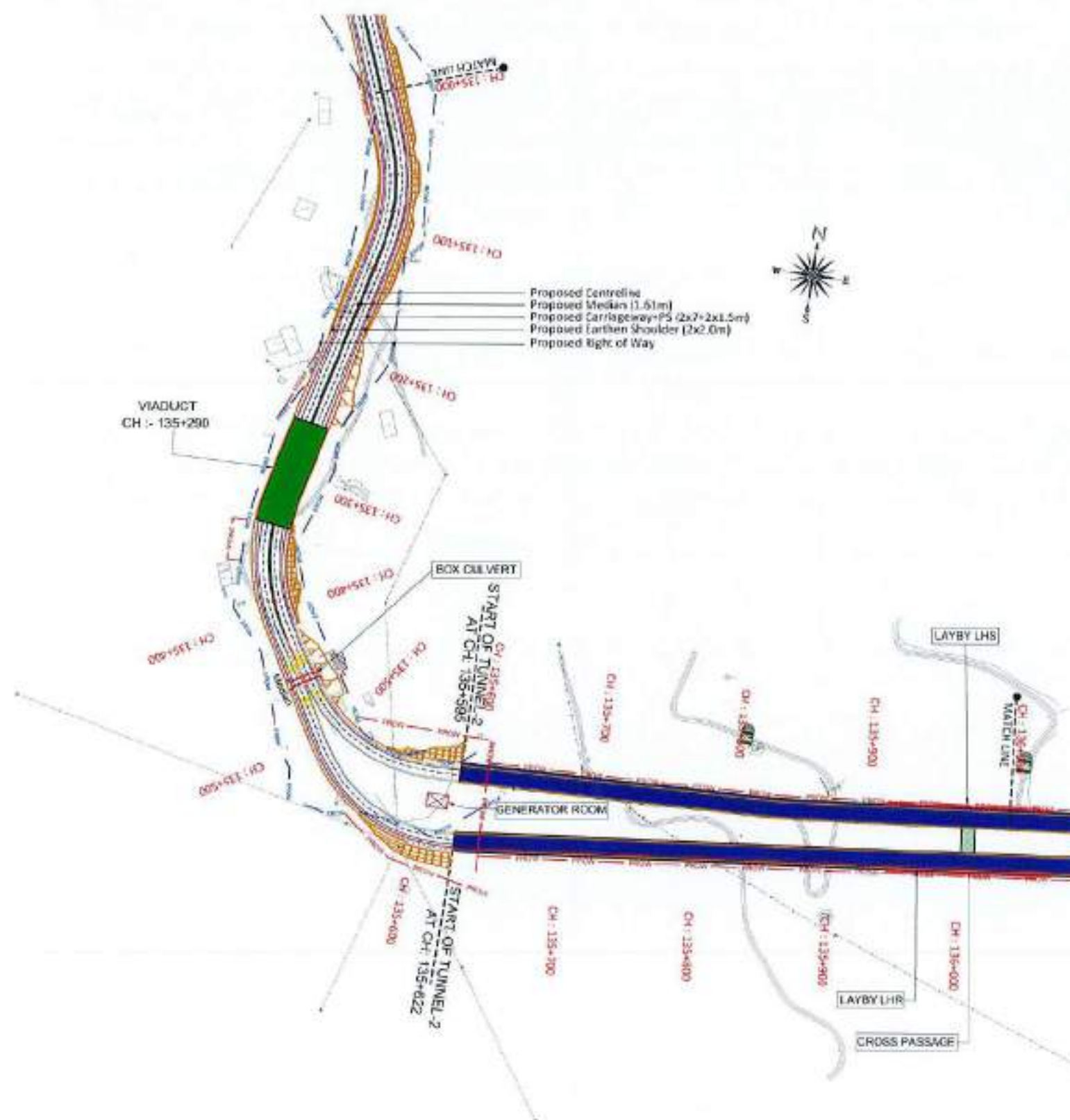

S.K. Sharma
GM (T)-cum-Project Director
NHAI, PIU-Shimla

Note: All dimension are in meter except otherwise specified.

 NATIONAL HIGHWAYS AUTHORITY OF INDIA	Scale : 1 : 2500	Project Title Construction of Four Laning of NH-5 from Kathlighat to Shakral Village (Shimla Bypass Package - I from Km 128+835 to Km 146+300 for Design length - 17.465Km) in the state of Himachal Pradesh on HAM.	Drawing Name Final Detailed Project Report Layout Plan On Km 134+000 To 135+000	Intercontinental Consultants & Technocrats Pvt Ltd. A-8, Green Park, New Delhi - 110016 Ph : 4086-3000, Fax 2685-5252	Revision No. 1 Date February, 2021	Final DFR Description Dwg No. - NHAI/SHI-SHIMLA-BYPASS/06	Checked By 	Recd No.
					Prepared by 	Designed by 	Checked by 	Approved by 

TO KATHLIGHAT

TO SHAKRAL



CS Divisional Forest Officer
Shimla Forest Division
SHIMLA

S.K. Sharma
GM (T)-cum-Project Director
NHAI, PIU-Shimla

Note: All dimension are in meter except otherwise specified.



NATIONAL HIGHWAYS
AUTHORITY OF INDIA

Scale :

1 : 2500

Project Title

Construction of Four Lining of NH- 5 from Kathlighat to Shakral Village
(Shimla Bypass Package - I from Km 128+835 to Km 146+300 for Design
length - 17.465Km) in the state of Himachal Pradesh on HAM.

Drawing Name
Final Detailed Project Report
Layout Plan

Ch. Km 135+000 To 136+000

Intercontinental Consultants & Technocrats Pvt.Ltd.
A-8, Green Park, New Delhi - 110016
Ph : 4086-3000, Fax 2085-5252



Tahir Sani
Prepared by

K.K. Verma
Designed by

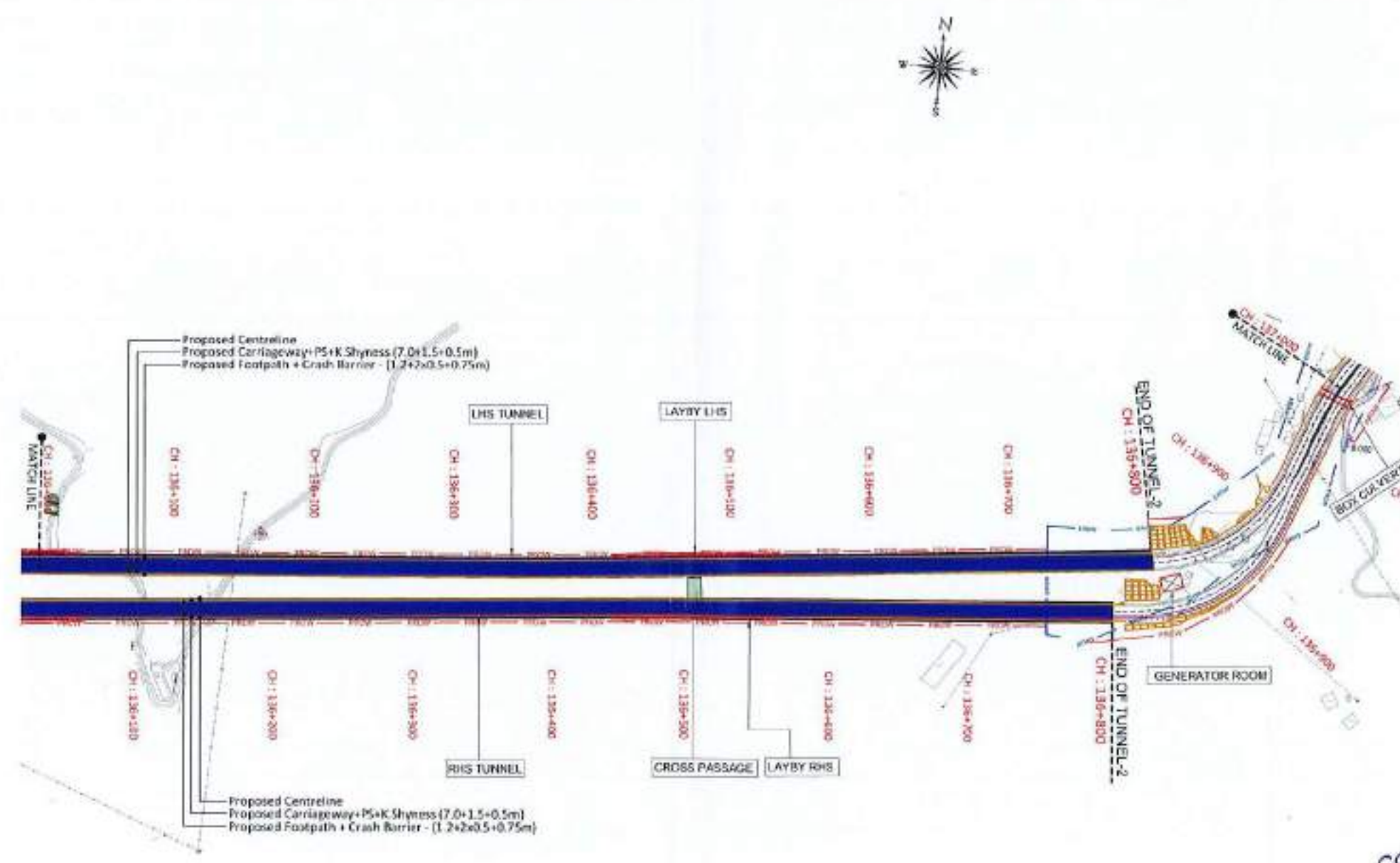
Nand Choudhary
Checked by

Sandeep Bhattacharya
Approved by

Rev	Date	Description	Checked by
01	February, 2022	Final DPR	
Revisions			
DWC No - NHAI/SH-SHMLA - BYPASS LP- 07			
			Rev 00

TO KATHLIGHAT

TO SHAKRAL



CS
Divisional Forest Officer
Shimla Forest Division
SHIMLA

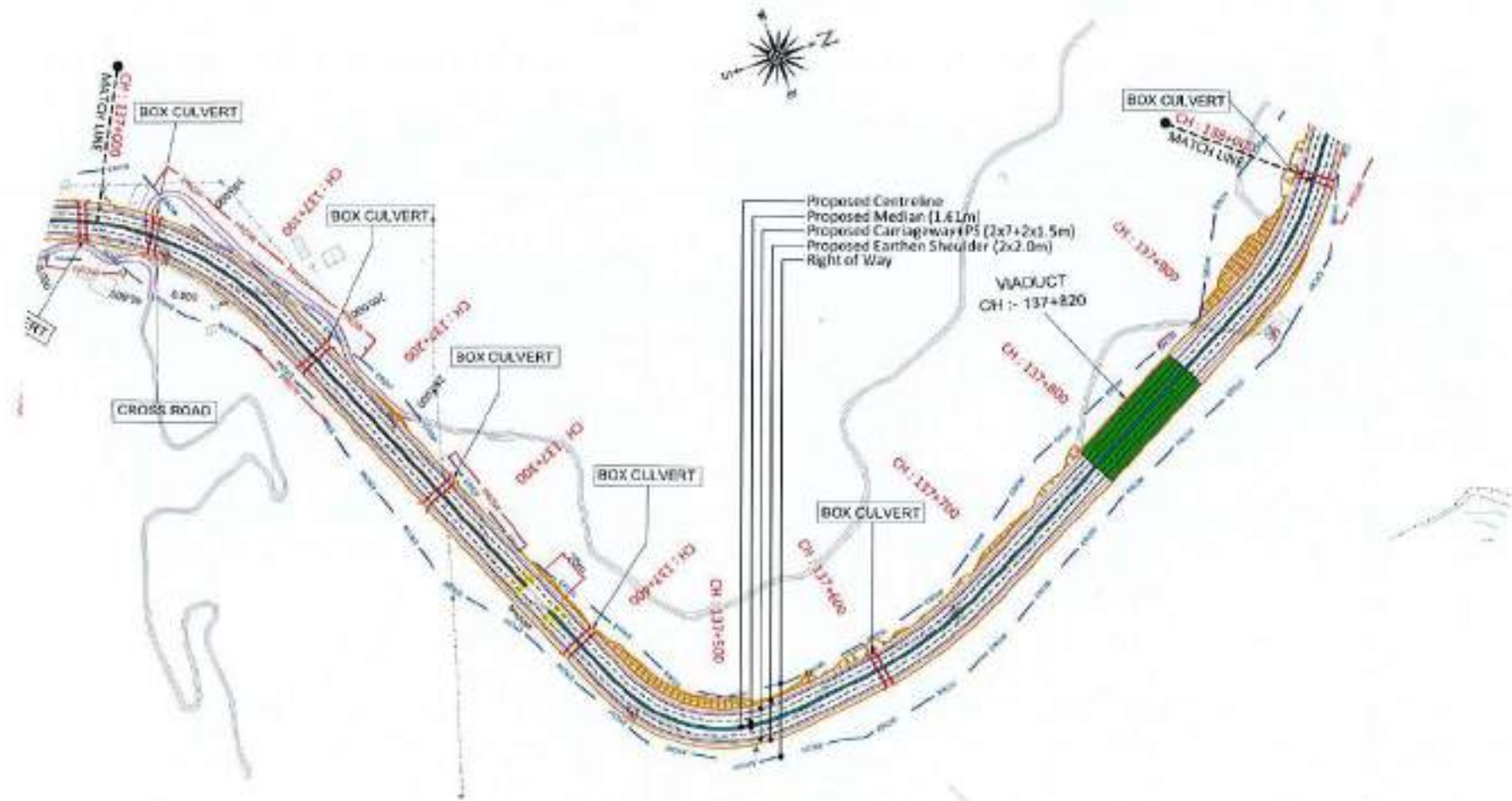
S.K. Sharma
GM (T)-cum-Project Director
NHAI, PIU-Shimla

Note: All dimension are in meter except otherwise specified.

 <div>NATIONAL HIGHWAYS AUTHORITY OF INDIA</div>	Scale :	Project Title	Drawing Name	Intercontinental Consultants & Technocrats Pvt Ltd.		Rev	February, 2020	Final DPR	Checked by
	1 : 2500	Construction of Four Lining of NH- 5 from Kathlighat to Shakral Village (Shimla Bypass Package - I from Km 128+835 to Km 146+300 for Design length - 17.465Km) in the state of Himachal Pradesh on HAM.	Final Detailed Project Report		A-8, Green Park, New Delhi - 110016 Ph : 4085-3000, Fax 2685-5252	Revisions	Date	Description	
			Layout Plan			Ch. Km 136+000 To 137+000	Remarks		
						DAQ No. : NHAI/SHIMLA - BYPASS/EP-08			Rev. No.

TO KATHLIGHAT


TO SHAKRAL

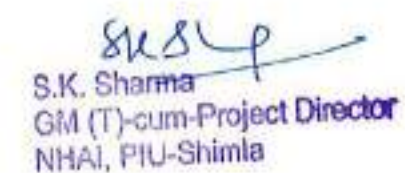


CS 
Divisional Forest Officer
Shimla Forest Division
SHIMLA


S.K. Sharma
GM (T)-cum-Project Director
NHAI, PIU-Shimla

Note: All dimension are in meter except otherwise specified.

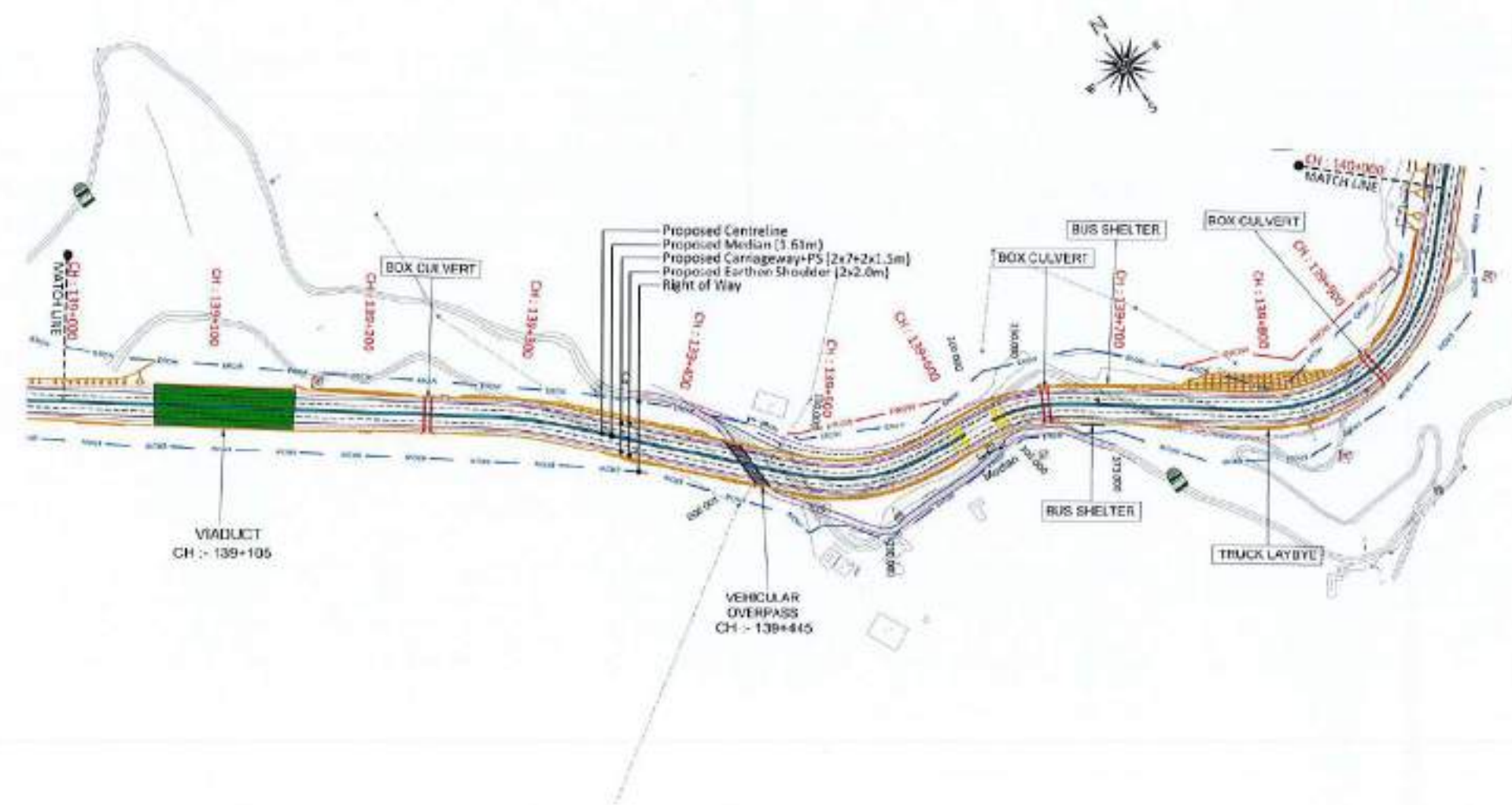
 <div>NATIONAL HIGHWAYS AUTHORITY OF INDIA</div>	Scale :	Project Title	Drawing Name	Intercontinental Consultants & Technocrats Pvt Ltd, A-8, Green Park, New Delhi - 110016 Ph : 4086-3000, Fax 2685-5252				09	February, 2022	Final DPR	Checked By
	1 : 2500	Construction of Four Lining of NH- 5 from Kathlighat to Shakral Village (Shimla Bypass Package - I from Km 128+835 to Km 146+300 for Design length - 17.465Km) in the state of Himachal Pradesh on HAM	Final Detailed Project Report Layout Plan Ch. Km 137+000 To 138+000		 Taha Saini	 K.K. Verma	 Nisha Choudhary	 Sandeep Bhattacharya	Revision	Date	
									Revision		
									DWG No - NHAI/NH-5/SHIMLA - BYPASS/EP/ 09		



Id	February 2022	Final DFR	Checked By
Revisions	Date	Description	
Revisions			
Issue	DWG No. : 04/AT/SH-32/HM.B.A. - BVP/AS LP-10		

TO KATHLIGHAT







TO SHAKRAL



[Signature]
 Divisional Forest Officer
 Shimla Forest Division
 SHIMLA

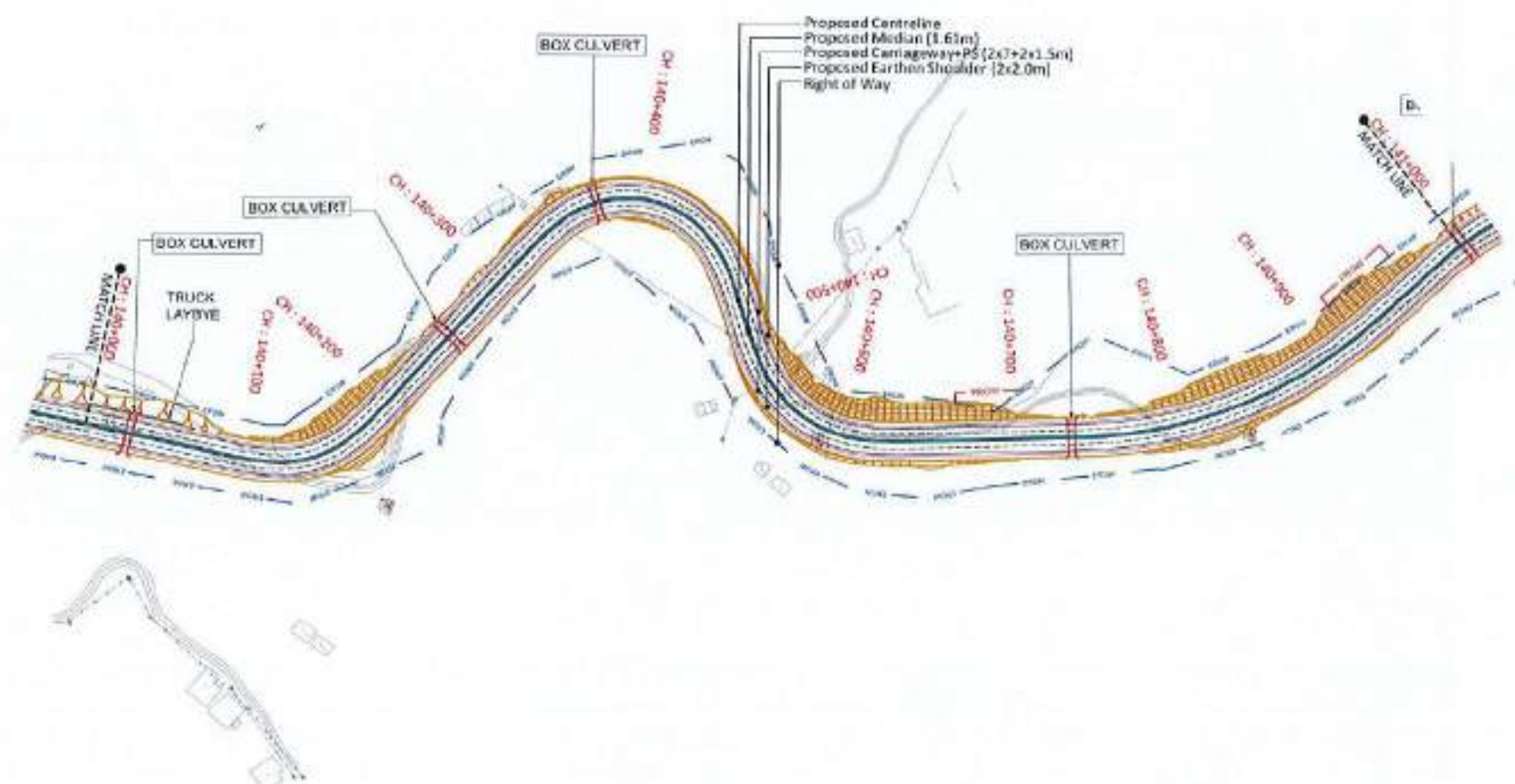
[Signature]
 S.K. Sharma
 GM (T)-cum-Project Director
 NHAI, PIU-Shimla

Note: All dimension are in meter except otherwise specified.

 <div>NATIONAL HIGHWAYS AUTHORITY OF INDIA</div>	Scale : 1 : 2500	Project Title Construction of Four Laning of NH- 5 from Kathlighat to Shakral Village (Shimla Bypass Package - I from Km 128+835 to Km 146+300 for Design length - 17.465Km) in the state of Himachal Pradesh on HAM.	Drawing Name Final Detailed Project Report Layout Plan Ch. Km 129+000 To 140+000	 <div>Intercontinental Consultants & Technocrats Pvt Ltd, A-8, Green Park, New Delhi - 110016 Ph : 4086-1000, Fax 2685-5252</div>	RD	February, 2022	Final DPR	Checked By					
					Revision	Date	Description						
					Revision				D/WG No - SHIMLA/SHIMLA - BYPASS/1/ 11				Rev 01
					 Prepared By Lata Saini	 Designed By K.K. Verma	 Checked By Neeta Choudhary	 Approved By Sandeep Khosla					

TO KATHLIGHAT

TO SHAKRAL



[Signature]
 CS Divisional Forest Officer
 Shimla Forest Division
 SHIMLA

[Signature]
 S.K. Sharma
 GM (T)-cum-Project Director
 NHA, PIU-Shimla

Note: All dimension are in meter except otherwise specified.



NATIONAL HIGHWAYS
 AUTHORITY OF INDIA

Scale :

1 : 2500

Project Title

Construction of Four Lining of NH- 5 from Kathlighat to Shakral Village
 (Shimla Bypass Package - I from Km 128+835 to Km 146+300 for Design
 length - 17.465Km) in the state of Himachal Pradesh on HAM.

Drawing Name

Final Detailed Project Report
 Layout Plan

Ch. Km 140+000 To 141+000

Intercontinental Consultants & Technocrats Pvt Ltd,
 A-8, Green Park, New Delhi - 110016
 Ph: 0086-3000, Fax 2685-5252



[Signature]
 Lata Saini
 Prepared by

[Signature]
 R. C. Verma
 Designed by

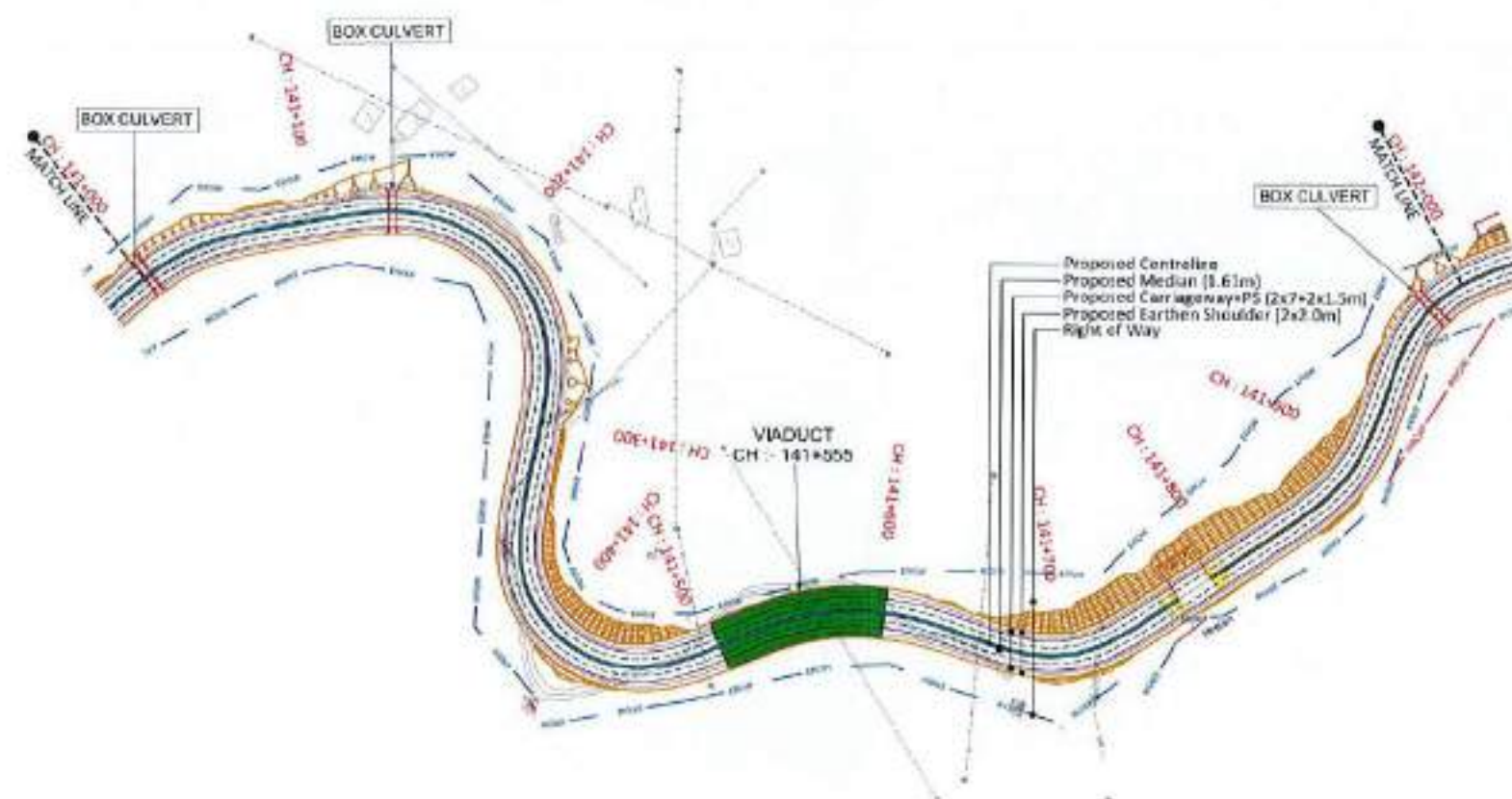
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 Naveen Choudhary
 Checked by

[Signature]
 Sandeep Bhattacharya
 Approved by

Rev	Revision	Date	Description	Checked By
01	Final DFR	February, 2023		
DWG No - SHIMLA-SHIMLA A - BYPASS I.P. 12				
Rev	01			

TO KATHLIGHAT

TO SHAKRAL



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Divisional Forest Officer
Shimla Forest Division
SHIMLA


S.K. Sharma
GM (T)-cum-Project Director
NHAI, PIU-Shimla

Note: All dimension are in meter except otherwise specified.



NATIONAL HIGHWAYS
AUTHORITY OF INDIA

Scale :

1 : 2500

Project Title

Construction of Four Lining of NH- 5 from Kathlighat to Shakral Village
(Shimla Bypass Package - 1 from Km 128+835 to Km 146+300 for Design
length - 17.465Km) in the state of Himachal Pradesh on HAM.

Drawing Name
Final Detailed Project Report
Layout Plan

Ch. Km 141+000 To 142+000

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



Revisions	Date	Description	Checked By
1	15/01/2022	Final DPR	
Revisions			
1	15/01/2022	DWG No - NHAI/SH-5/SHIMLA - BYPASS/P-13	
Prepared by	Designed by	Checked by	Approved by
			

TO KATHLIGHAT

TO SHAKRAL



CC Divisional Forest Officer
Shimla Forest Division
SHIMLA

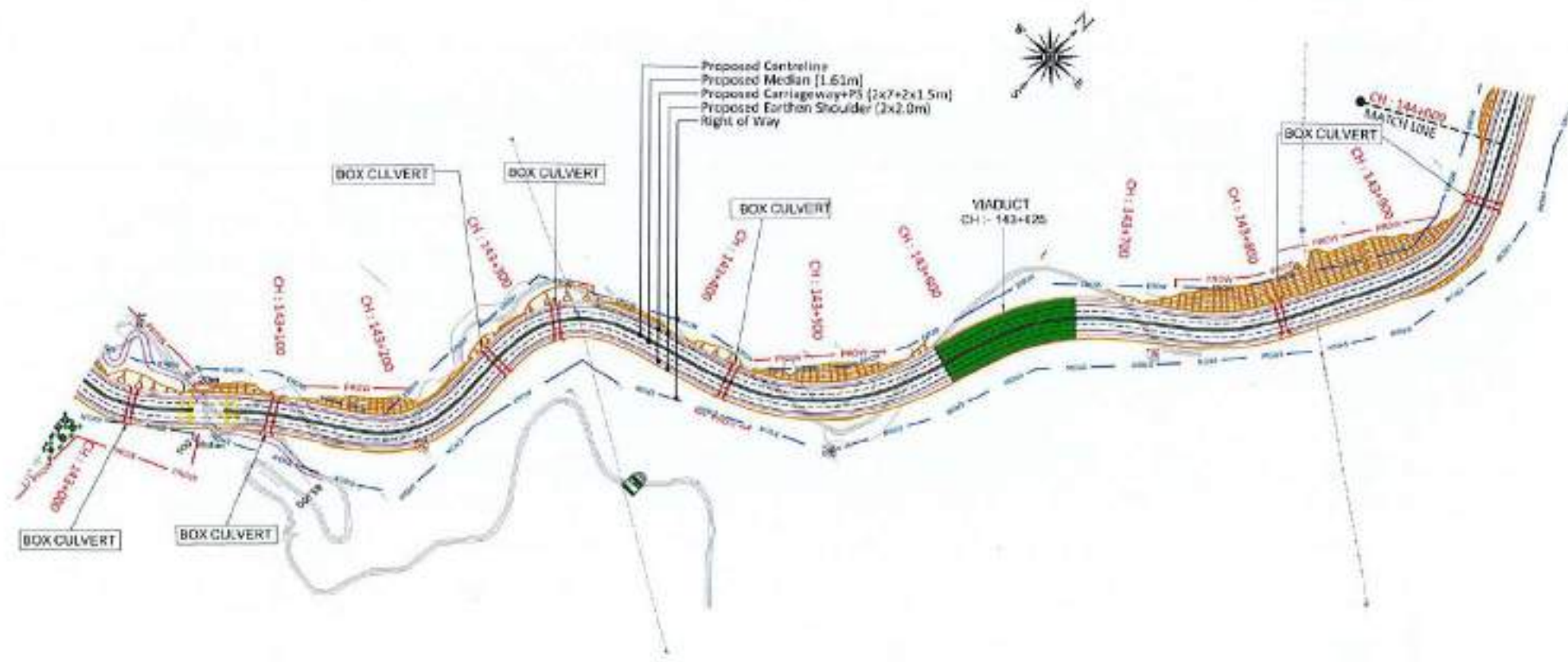
S.K. Sharma
GM (T)-cum-Project Director
NHAI, PIU-Shimla

Note: All dimension are in meter except otherwise specified.

 <div>NATIONAL HIGHWAYS AUTHORITY OF INDIA</div>	Scale : 1 : 2500	Project Title Construction of Four Lining of NH- 5 from Kathlighat to Shakral Village (Shimla Bypass Package - I from Km 128+835 to Km 146+300 for Design length - 17.465Km) in the state of Himachal Pradesh on HAM	Drawing Name Final Detailed Project Report Layout Plan Ch. Km 142+000 To 146+300	 <div>Intercontinental Consultants & Technocrats Pvt Ltd, A-8 Green Park, New Delhi - 110016 Ph : 4086-3000, Fax 2685-5252</div>	08	February, 2022	Final DPR	Checked By					
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					Revisions				DWG No. - NHAI/SH-5/SHIMLA - BYPASS LP/ 14				Rev 01

TO KATHLIGHAT






TO SHAKRAL



[Signature]
 CS Divisional Forest Officer
 Shimla Forest Division
 SHIMLA

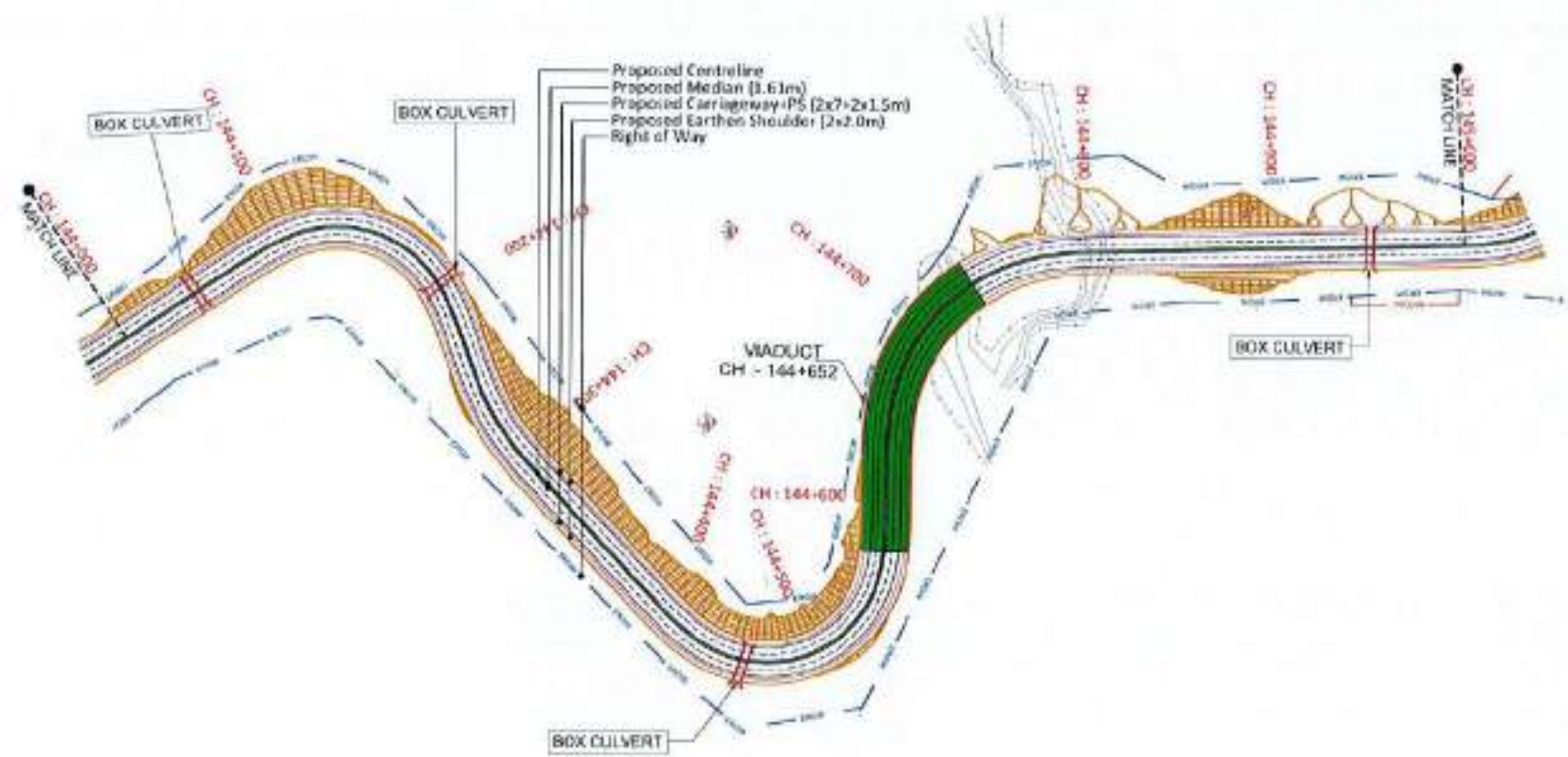
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 S.K. Sharma
 GM (T)-cum-Project Director
 NHAI, PIU-Shimla

Note: All dimension are in meter except otherwise specified.

 <div>NATIONAL HIGHWAYS AUTHORITY OF INDIA</div>	Scale :	Project Title	Drawing Name	Intercontinental Consultants & Technocrats Pvt Ltd, A-8, Green Park, New Delhi - 110016 Ph : 0086-3000, Fax 2685-5252				NO	February, 2022	Final DCR	Checked by
	1 : 2500	Construction of Four Lining of NH- 5 from Kathlighat to Shakral Village (Shimla Bypass Package - I from Km 128+835 to Km 146+300 for Design length - 17.465Kms) in the state of Himachal Pradesh on HAM.	Final Detailed Project Report Layout Plan Ch. Km 143+100 To 144+000					Revision	Date	Description	
								Revision			
								Prepared by	Designed by	Checked by	Approved by

TO KAITHLIGHAT

TO SHAKRAL



CS  Divisional Forest Officer
Shimla Forest Division
SHIMLA

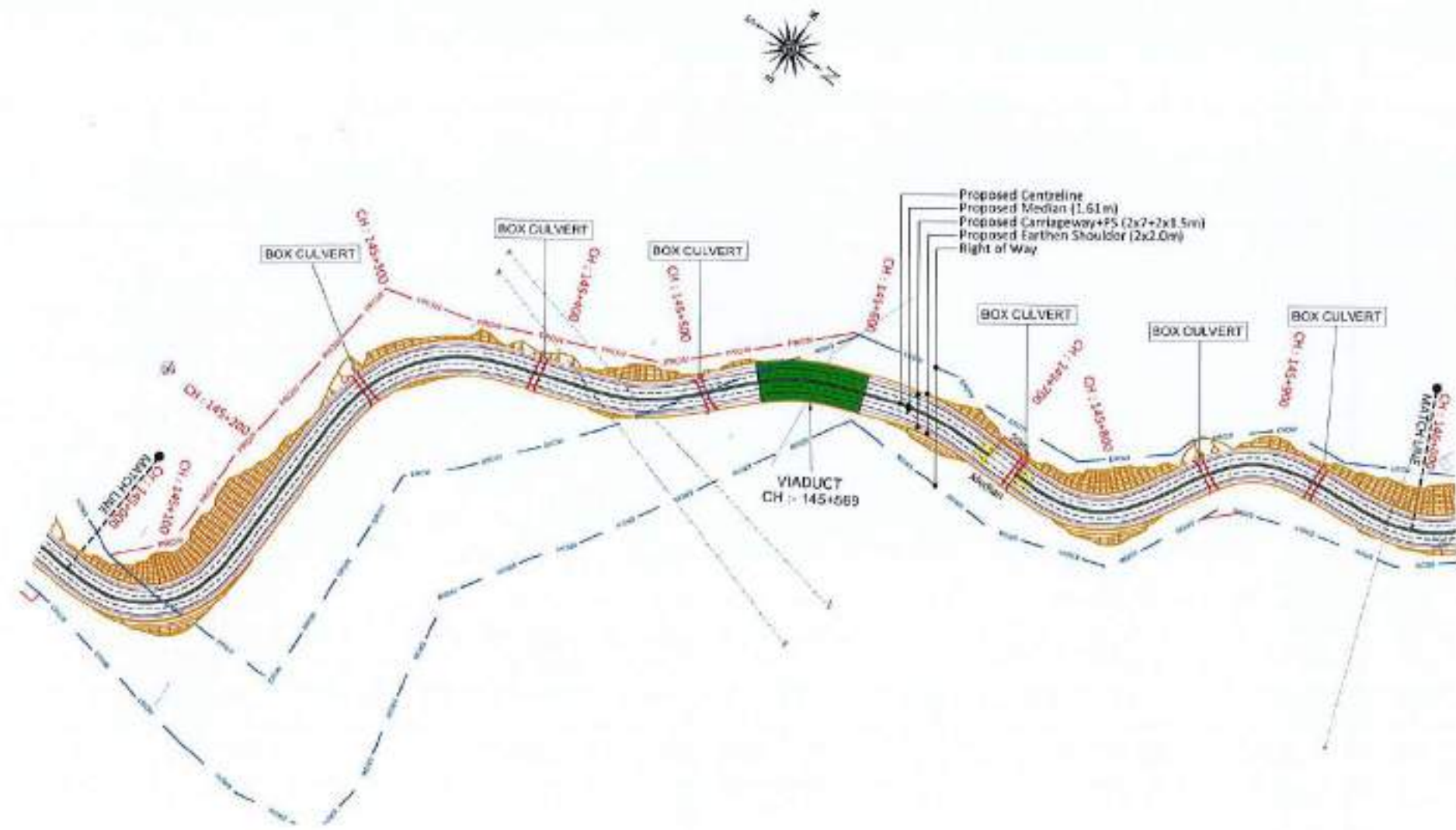

S.K. Sharma
GM (T)-cum-Project Director
NHA, PIU-Shimla

Note: All dimension are in meter except otherwise specified.

 NATIONAL HIGHWAYS AUTHORITY OF INDIA	Scale : 1 : 2500	Project Title Construction of Four Lining of NH- 5 from Kaithlighat to Shakral Village (Shimla Bypass Package - I from Km 128+835 to Km 146+300 for Design length - 17.465Km) in the state of Himachal Pradesh on HAM.	Drawing Name Final Detailed Project Report Layout Plan Ch. Km 144+000 To 145+000	 Intercontinental Consultants & Technocrats Pvt Ltd, A-8, Green Park, New Delhi - 110016 Ph : 4086-3000, Fax 2685-5252	Rev	Revision	Date	Final DPK	Checked By
					Prepared by	Designed by	Checked by	Approved by	Rev
					Prepared by	Designed by	Checked by	Approved by	Rev

TO KAITHLIGHAT

TO SHAKRAL



CS 
Divisional Forest Officer
Shimla Forest Division
SHIMLA


S.K. Sharma
GM (T)-cum-Project Director
NHAI, PIU-Shimla

Note: All dimension are in meter except otherwise specified.

 <div>NATIONAL HIGHWAYS AUTHORITY OF INDIA</div>	Scale : 1 : 2500	Project Title Construction of Four Lining of NH- 5 from Kathlighat to Shakral Village (Shimla Bypass Package - I from Km 128+835 to Km 146+300 for Design length - 17.465Km) in the state of Himachal Pradesh on HAM	Drawing Name Final Detailed Project Report Layout Plan Ch. Km 145+000 To 146+000	 <div>Intercontinental Consultants & Technocrats Pvt Ltd, A-8, Green Park, New Delhi - 110016 Ph : 4086-3000, Fax 2685-5252</div>	<div>RD</div> <div>February, 2022</div> <div>Final DPR</div>	Checked By	For R/S		
					Revisions			Date	Description
					Revision				
					DVG No. - NHAI/SH-3/SHIMLA - BYPASS I.D. 17				

TO KATHLIGHAT



TO SHAKRAL



CS 
Divisional Forest Officer
Shimla Forest Division
SHIMLA


S.K. Sharma
GM (T)-cum-Project Director
NHAI, PIU-Shimla

Note: All dimension are in meter except otherwise specified.

 NATIONAL HIGHWAYS AUTHORITY OF INDIA	Scale : 1 : 2500	Project Title Construction of Four Lining of NH- 5 from Kathlighat to Shakral Village (Shimla Bypass Package - I from Km 128+835 to Km 146+300 for Design length - 17.465Km) in the state of Himachal Pradesh on HAM	Drawing Name Final Detailed Project Report Layout Plan Ch. Km 146+000 To 146+300		Intercontinental Consultants & Technocrats Pvt Ltd, A-8, Green Park, New Delhi - 110016 Ph : 4086-3000, Fax 2685-5252				RD	February, 2022	Final DPR	Checked By
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					Revision							
					DWG No - SHAI/NH-5/SHIMLA - BYPASS/15				Per		101	

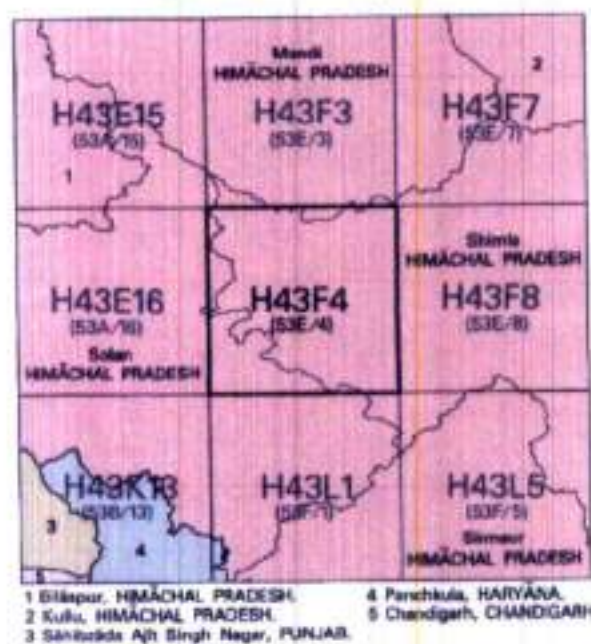


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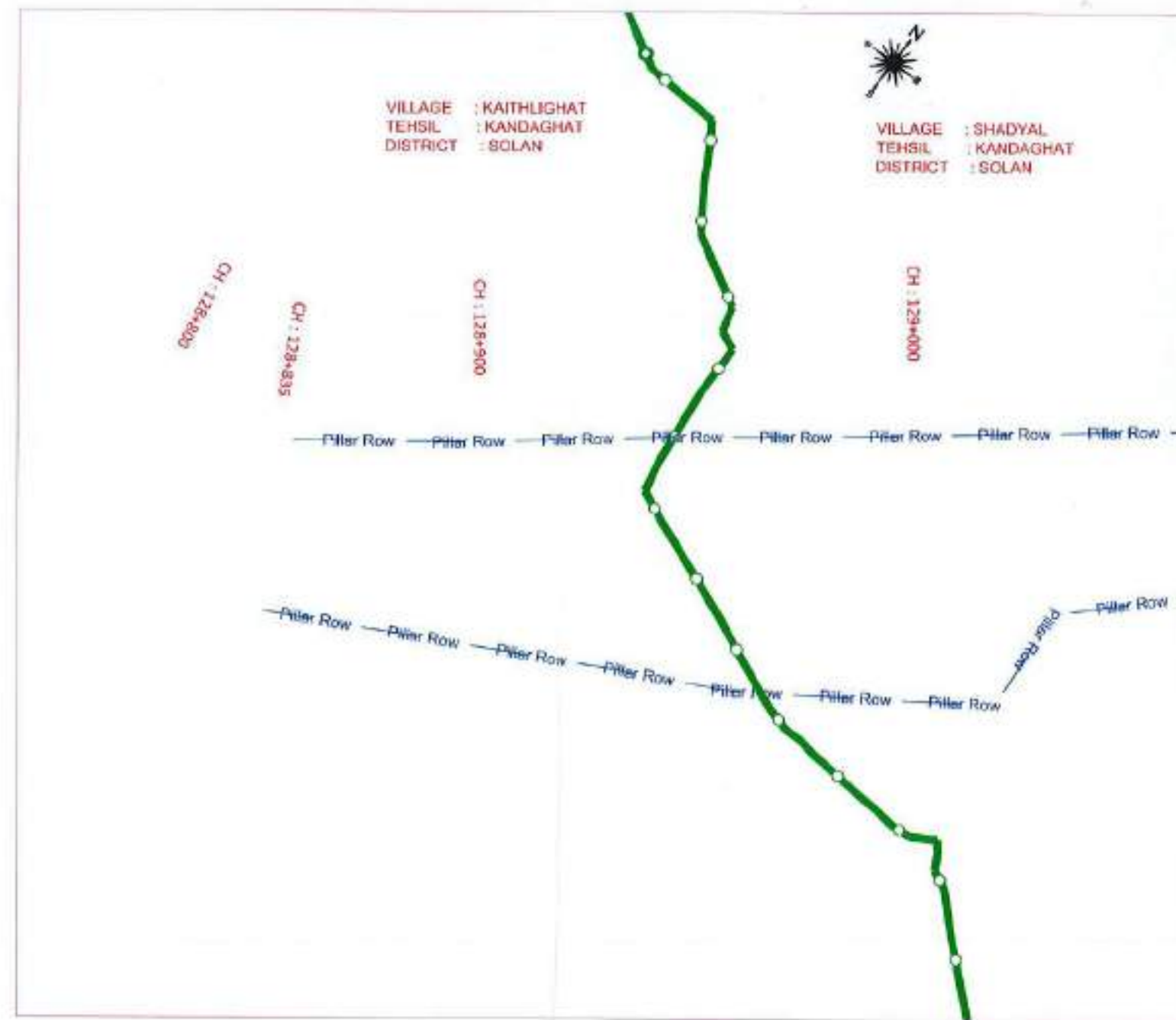


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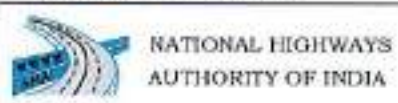
← TO KAITHLIGHAT

TO DHALLI →



Legend:-

Existing Right of Way
Proposed Right of Way
Village Boundary



Scale:-
Scale 1 : 1500

Project Title:
Consultancy Services for Preparation of DPR of 4-Laning of
Proposed Sharda Bypass from Kaithlighat to Dhalli Section of
NH-22 (Chainage from Km 128.835 to Km 156.988)
in the State of Himachal Pradesh on EPC Mode

Drawing Name:
PROW WIDENING DETAIL
FROM CH. 128+835 TO CH. 129+000



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

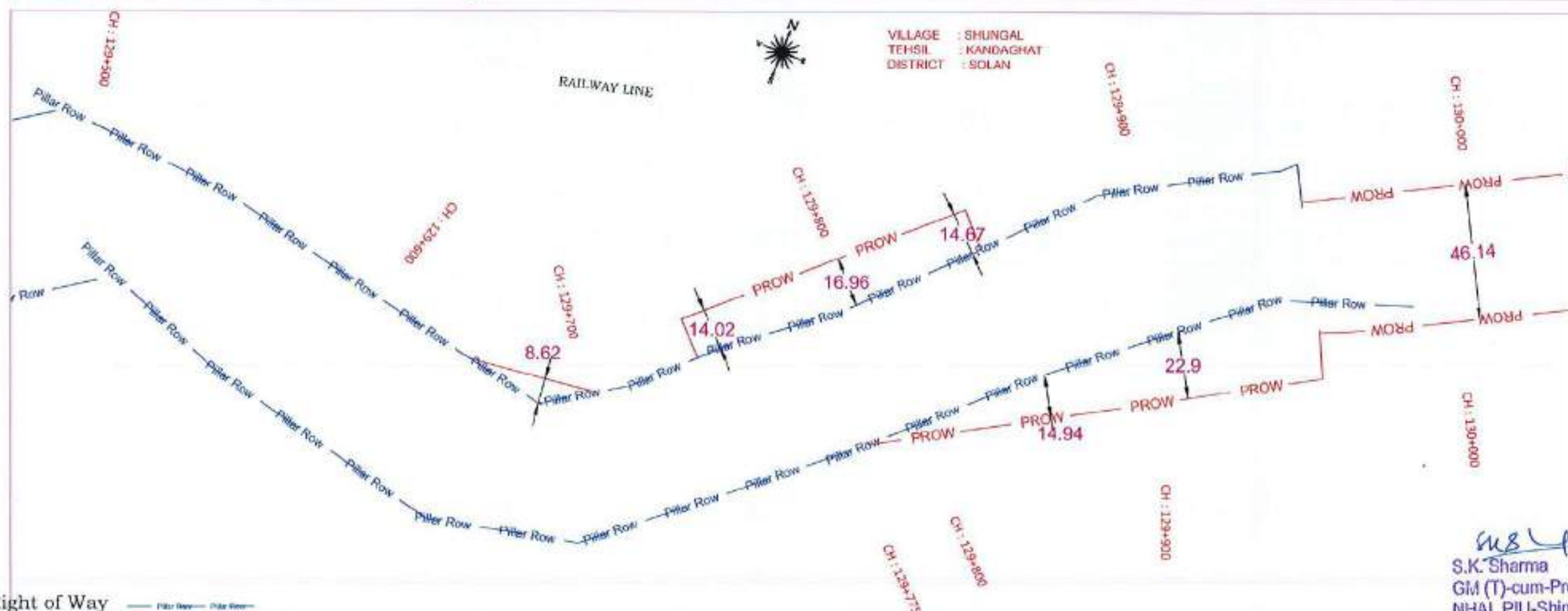
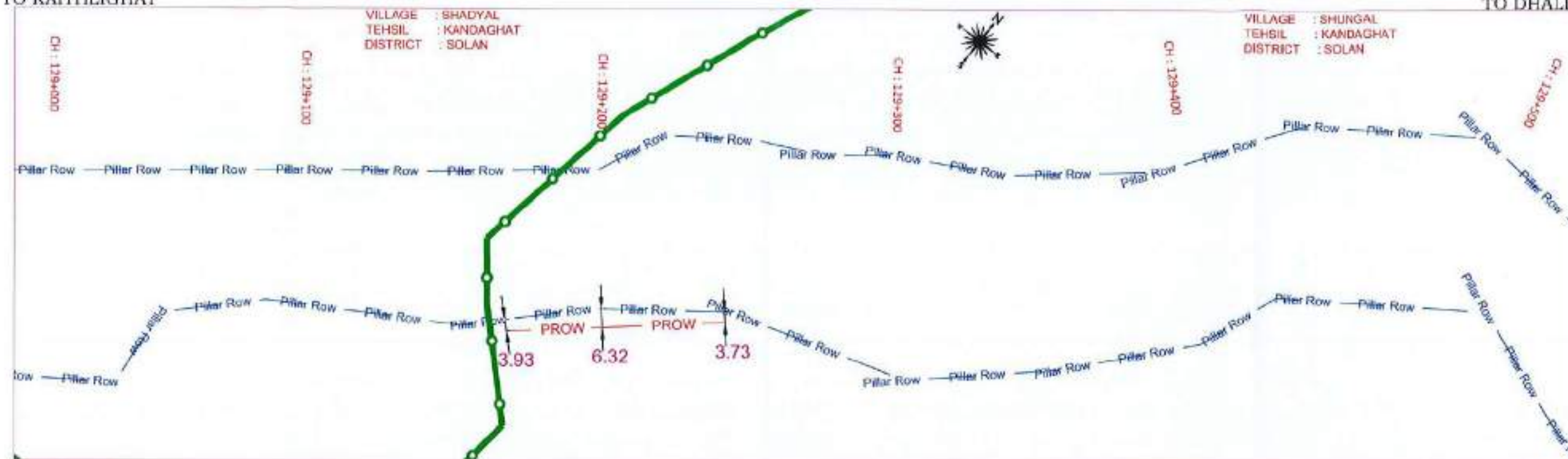
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Approved by: [Signature]

Revisions	Date	Description	Checked by
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Revisions			
DRAWING No: BHAI/NE-22/KAITH-DHALLI/PROW-WD/ 01 /100			

S.K. Sharma
GM (T)-cum-Project Director
NHAI, PIU-Shimla

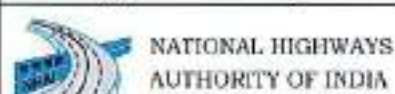
TO KAITHLIGHAT

TO DHALLI



Legend:-

Existing Right of Way
Proposed Right of Way
Village Boundary



Scale:-
Scale 1 : 1000

Project Title:

Consultancy Services for Preparation of DPR of 4-Laning of
Proposed Shimla Bypass From Kaitlghat to Dhalli Section of
NH-22 (Change From Km 128.835 to Km 156.068)
in the State of Himachal Pradesh on EPC Mode

Drawing Name:

PROW WIDENING DETAIL

FROM CH. 129+000 TO CH. 130+000



Intercontinental Consultants & Technocrats Pvt. Ltd.

A-8, Green Park, New Delhi - 110016

Ph : 4086-3000, Fax 2685-5252

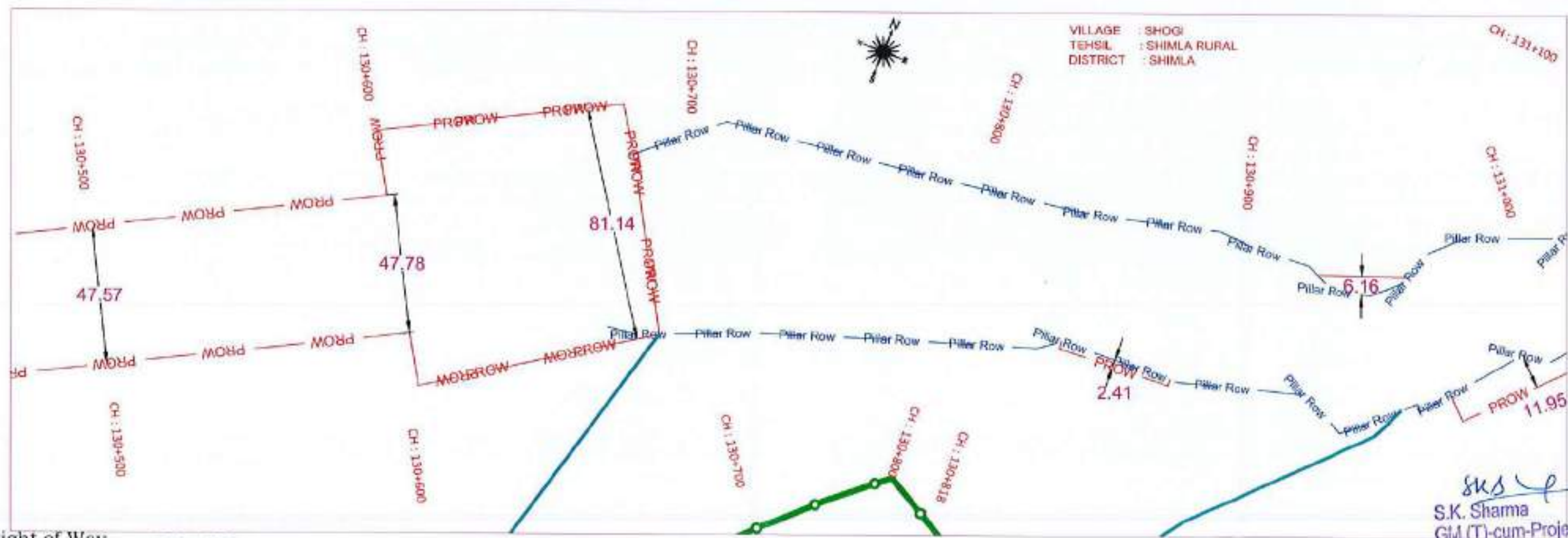
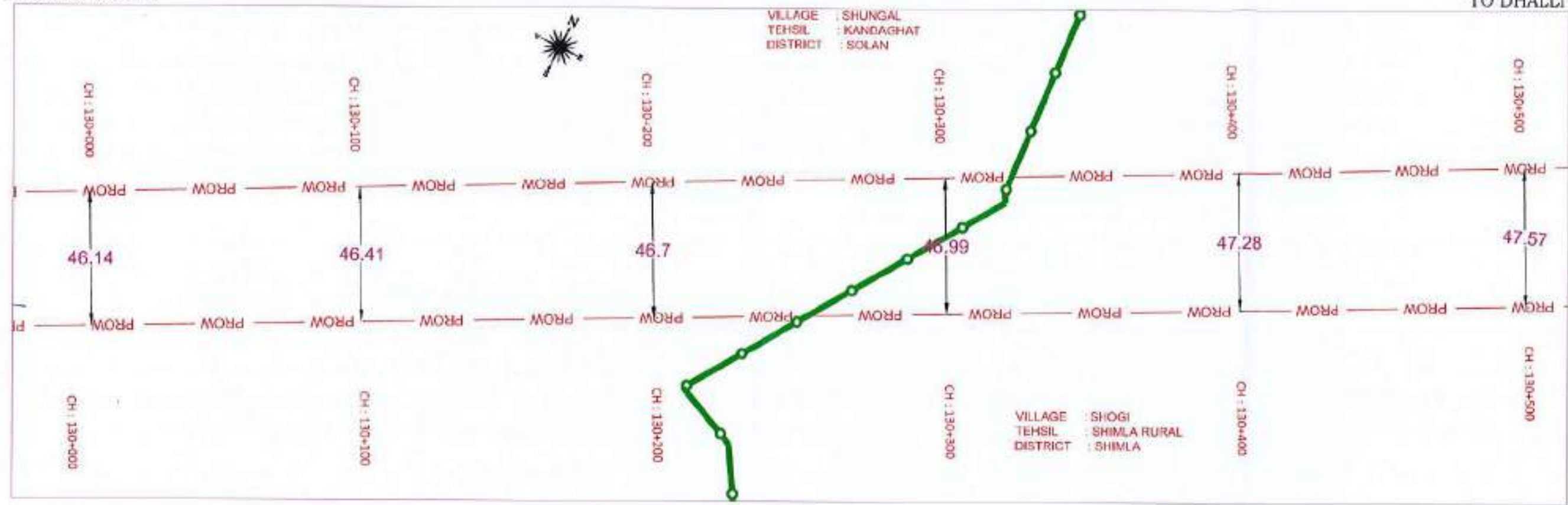
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Revisions			
DRAWING No: NHAI/MH-22/KAITH-DHALLI/PROW-WD/02/180			

S.K. Sharma
GM (T)-cum-Project Director
NHAI, PIU-Shimla

TO KAITHLIGHT







TO DHALLI



Legend:-

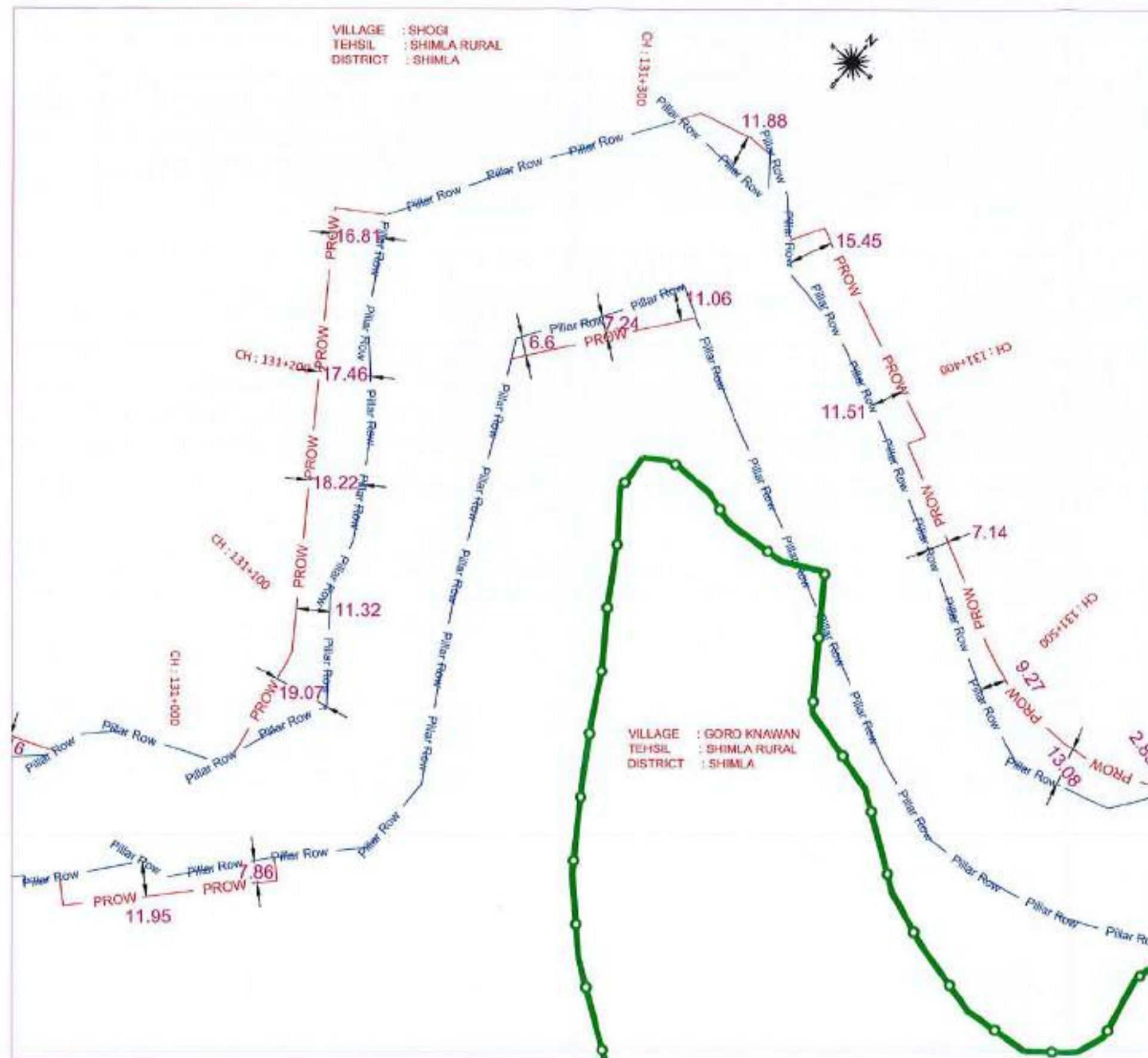
- Existing Right of Way
- Proposed Right of Way
- Village Boundary

S.K. Sharma
GM (T)-cum-Project Director
NHAI, PIU-Shimla

 NATIONAL HIGHWAYS AUTHORITY OF INDIA	Scale:-	Project Title:	Drawing Name:	Intercontinental Consultants & Technocrats Pvt Ltd, A-8, Green Park, New Delhi - 110016 Ph : 4086-3900, Fax 2685-5252				Revisions	
	Scale 1 : 1500	Consultancy Services for Preparation of DPR of 4-Laning of Proposed Shimla Bypass From Kaitlight to Dhalli Section of NH-224 (Chainage From Km 128.815 to Km 156.068) in the State of Himachal Pradesh on EPC Mode	PROW WIDENING DETAIL		 Shiv Kumar Gupta	 Pranav Mittal	 Naveen Choudhary	 Sandeep Datta	DRAWING No: NHAI/NH-22/KAITH-DHALLI/PROW-WD/ 03 /20
			FROM CH. 130+000 TO CH. 131+000						

TO KAITHLIGHAT

TO DHALLI



Legend:-

Existing Right of Way
Proposed Right of Way
Village Boundary



NATIONAL HIGHWAYS
AUTHORITY OF INDIA

Scale:-

Scale: 1 : 1000

Project Title:

Consultancy Services for Preparation of DPR of Bypass of
Proposed Shimla Bypass From Kaithlighat to Dhalli Section of
NH-22 (Change From Km 128.835 to Km 156.008)
in the State of Himachal Pradesh on EPC Mode

Drawing Name:

PROW WIDENING DETAIL

FROM CH 131+000 TO CH 131+300



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A-8, Green Park, New Delhi - 110016
Ph - 4086-3000, Fax 2685-5252

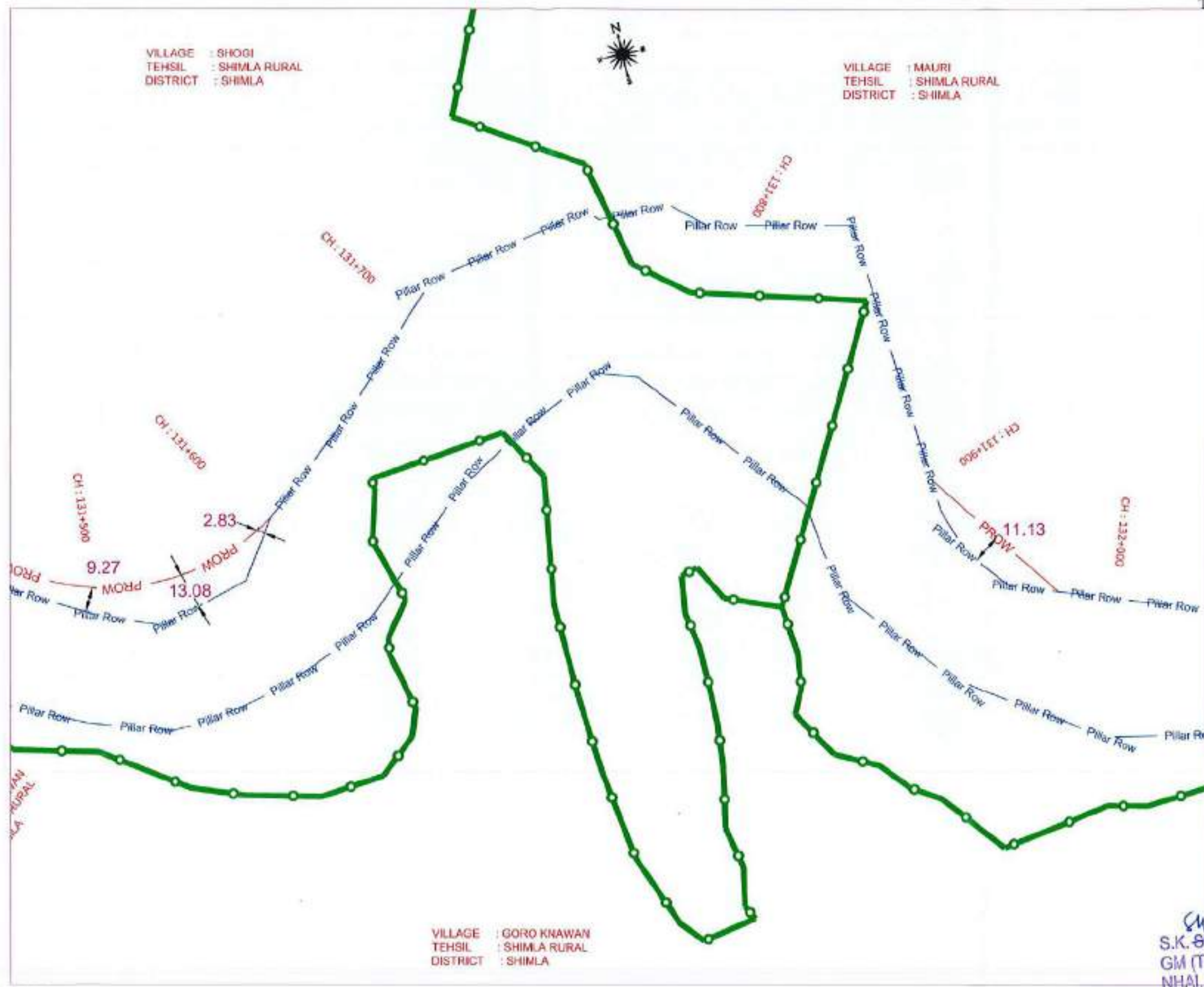
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S.K. Sharma
GM (T)-cum-Project Director
NHAI, PIU-Shimla

RD	Jan - 2022	Initial Drawing	
Reasons	Date	Description	checked by
Revisions			
DRAWING No: NHAI/WH-22/KAITH-DHALLI/PROW-WD/ 04 /RD			

TO KAITHLIGHAT

TO DHALLI



Legend:-

Existing Right of Way
Proposed Right of Way
Village Boundary



Scale:-

Scale 1 : 2500

Project Title:

Consultancy Services for Preparation of DPR of 4-Laning of
Proposed Shimla Bypass from Kaithlighat to Dhalli Section of
NH-22 (Change from Km 128.835 to Km 156.668)
in the State of Himachal Pradesh on EPC Mode

Drawing Name:

PROW WIDENING DETAIL

FROM CH. 131+500 TO CH. 132+000



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

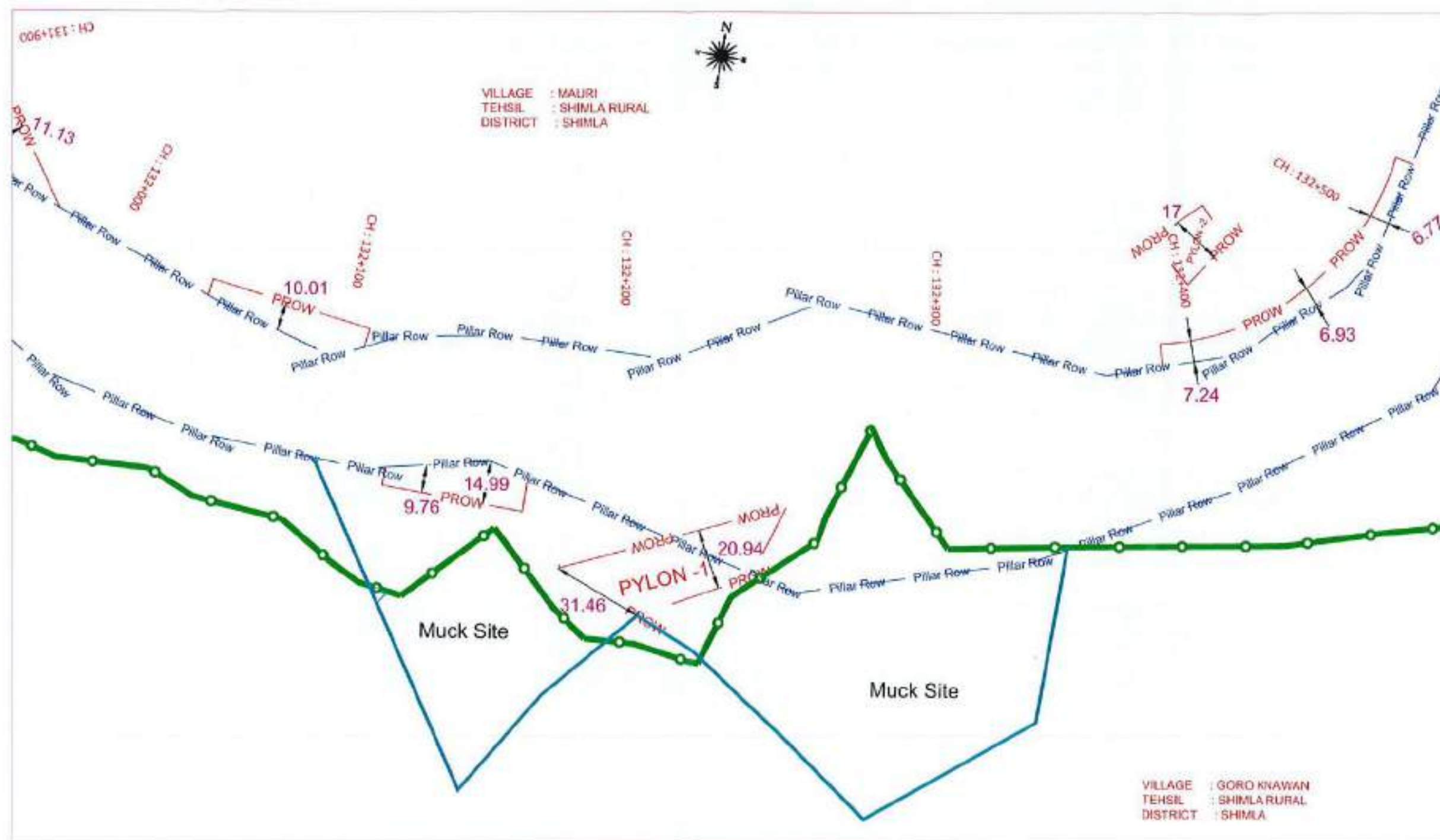
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Rev	Date	Initial Drawing	Checked by
01	Jan - 2022		
Revisions			
DRAWING No: NHAI/NH-22/KAITH-DHALLI/PROW-WD/ 05 /R0			

S.K. Sharma
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NHAI, PIU-Shimla

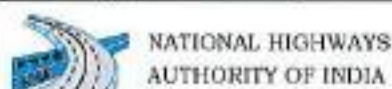
← TO KATHLIGHAT

TO DHALLI →



Legend:-

Existing Right of Way
Proposed Right of Way
Village Boundary



Scale:-
Scale 1 : 1500

Project Title:
Consultancy Services for Preparation of DPR of 4-Laning of
Proposed Shimla Bypass From Kathlighat to Dhalli Section of
NH-22 (Change From Km 124.835 to Km 156.068)
in the State of Himachal Pradesh on EPC Mode

Drawing Name:
PROW WIDENING DETAIL
FROM CH. 132+000 TO CH. 132+500



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Revisions	Date	Description	Checked by
80	Jan - 2022	Initial Drawing	
Revisions			
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NHAI, PIU-Shimla

← TO KAITHLIGHAT

TO DHALLI →



Legend:-

Existing Right of Way — Piler Row — Piler Row —
Proposed Right of Way — PROW —
Village Boundary —



NATIONAL HIGHWAYS
AUTHORITY OF INDIA

Scale:-

Scale 1 : 1000

Project Title:

Consultancy Services for Preparation of DPR of 4-Laning of
Proposed Shimla Bypass From Kaitthlighat to Dhalli Section of
NH-22 (Charge From Km 131.835 to Km 156.068)
in the State of Himachal Pradesh on EPC Mode

Drawing Name:

PROW WIDENING DETAIL

FROM CH. 132+500 TO CH. 133+000



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

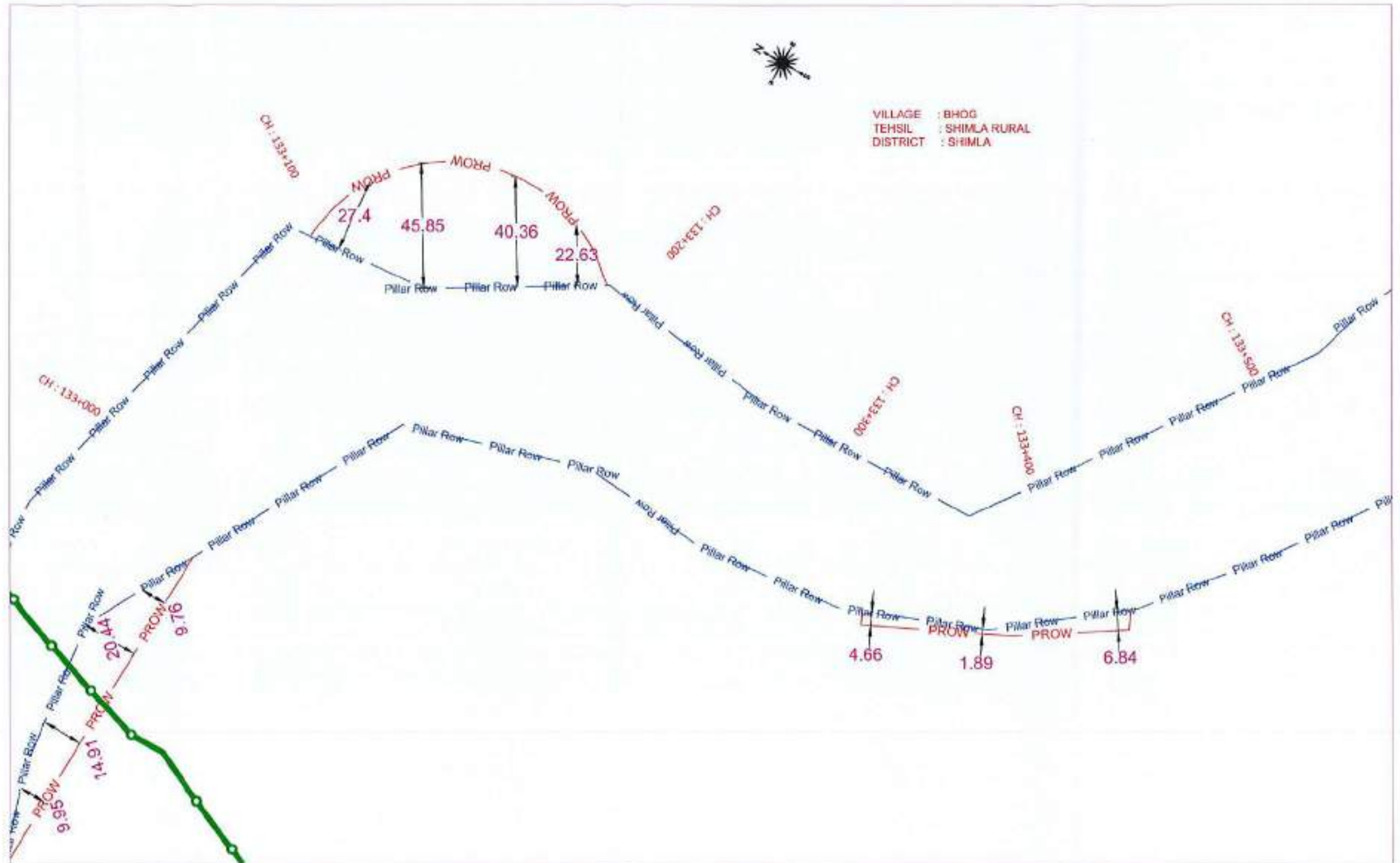
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GM (T)-cum-Project Director
NHAI, PIU-Shimla

NO	Date	Description	Checked by
01	Jan - 2022	Initial Drawing	
Revisions			
DRAWING No: NHAI/SH-22/KATH-DHALLI/PROW-WD/ 07 /20			

← TO KATHLIGHAT

TO DHALLI →



Legend:-

Existing Right of Way
Proposed Right of Way
Village Boundary



Scale:-
Scale 1 : 1500

Project Title:
Consultancy Services for Preparation of DPR of 4-Laning of
Proposed Shimla Bypass From Kathlighat to Dhalli Section of
NH-22 (Chaurage From Km 128.435 to Km 156.068)
in the State of Himachal Pradesh on EPC Mode

Drawing Name:
PROW WIDENING DETAIL
FROM CH. 133+000 TO CH. 133+500



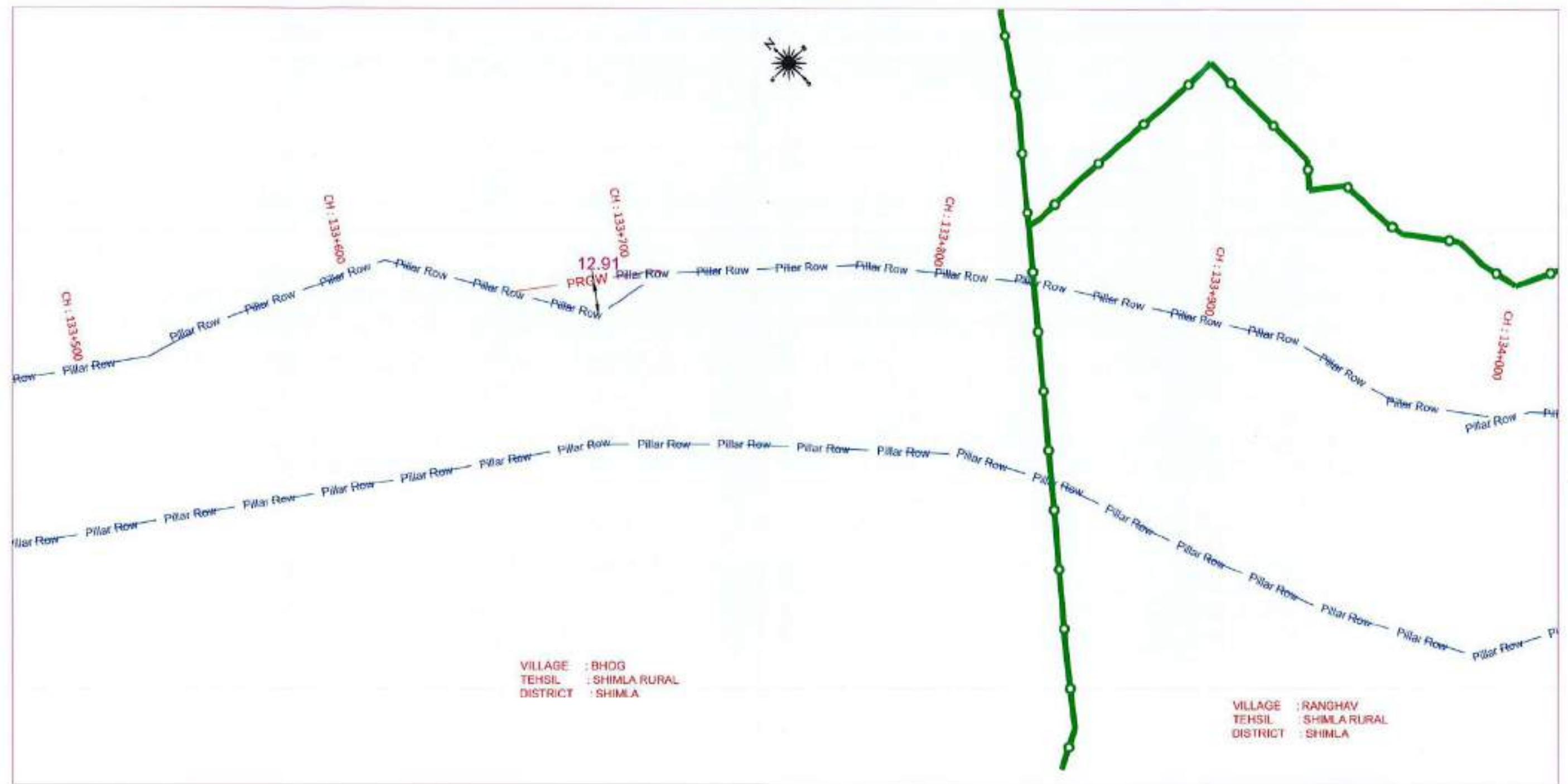
Intercontinental Consultants & Technocrats Pvt Ltd,
A-8, Green Park, New Delhi - 110016
Ph : 4086-3000, Fax 2685-5252

S.K. Sharma
GM (T)-cum-Project Director
NHAI, PIU-Shimla

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Revisions	Date	Description	Checked by
Revisions			
DRAWING No: NHAI/NH-22/KATH-DHALLI/PROW-WD/08/00			

← TO KAITHLIGHTAT

TO DHALLI →



Legend:-

- Existing Right of Way
- Proposed Right of Way
- Village Boundary



Scale:-
Scale 1 : 1000

Project Title:
Consultancy Services for Preparation of DPR of 4-Laning of
Proposed Shimla Bypass From Kaitthlight to Dhalla Section of
NH-22 (Change From Km 128.835 to Km 156.068)
in the State of Himachal Pradesh on EPC Mode

Drawing Name:
PROW WIDENING DETAIL
FROM CH. 133+500 TO CH. 134+000



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Ph : 4086-3000, Fax 2685-5282

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Revisions	Date	Description	
Revisions			
DRAWING No: NHAI/WH-22/KAITH-DHALLI/PROW-WD/09/80			

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NHAI, PIU-Shimla



Existing Right of Way
Proposed Right of Way
Village Boundary



NATIONAL HIGHWAYS
AUTHORITY OF INDIA

Scale: 1000

Scale 1 = 1000

Project Title:

Consultancy Services for Preparation of DPR of 4-Laning of
Proposed Shirdi Bypass From Karthikgiri to Dhilli Section of
NH-22 (Chaining From Km 128.835 to Km 156.668)
in the State of Himachal Pradesh on EPC Mode

Drawing Name:

FRONT WIDENING DETAIL.

FROM CH. 134+000 TO CH. 134+500



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

			
Glen K. Hays	Peter G. Gostine	Nancy Chubb	David Stanton
Prepared by	Designed by	Checked by	Approved

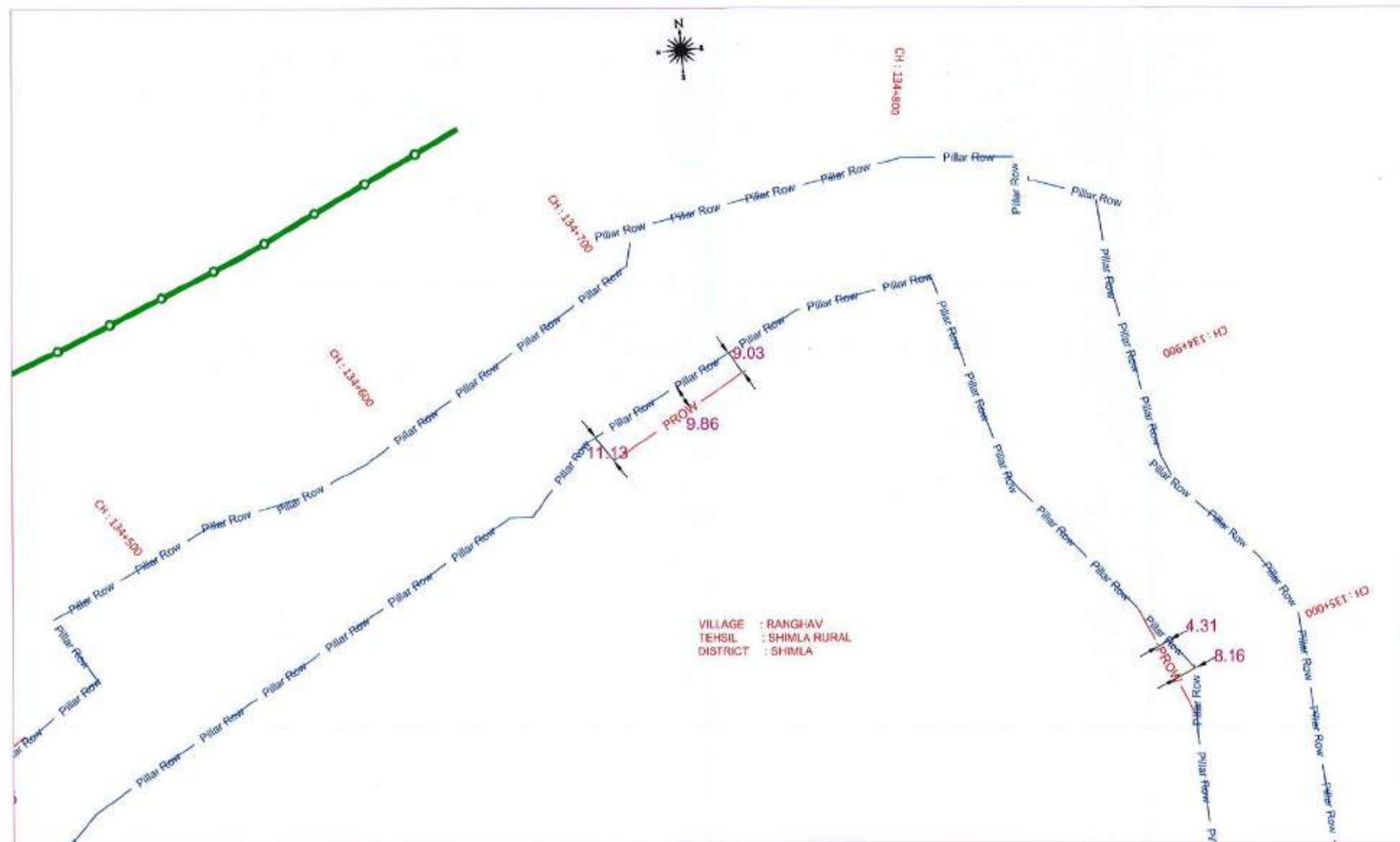
S.K. Sharma

GM (T)-cum-Project Director
NHAI, PIU-Shimla

ED	Jan. - 2022	Initial Drawing	
Revisions	Date	Description	Checked
Revisions			
DRAWING No: NHAJ/NH-22/KAITH-DHALLI/FROW-WD/ 10 /18			

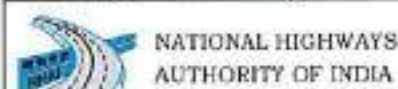
← TO KAITHLIGHTAT

TO DHALLI →



Legend:-

Existing Right of Way
Proposed Right of Way
Village Boundary



Scale:-
Scale 1 : 1500

Project Title:

Consultancy Services for Preparation of DPR of 4-Laning of
Proposed Sharda Bypass From Kaithlight to Dhalli Section of
NH-22 (Chimnig From Km 128.435 to Km 136.368)
in the State of Himachal Pradesh on EPC Mode

Drawing Name:

PROW WIDENING DETAIL

FROM CH. 134+500 TO CH. 135+000

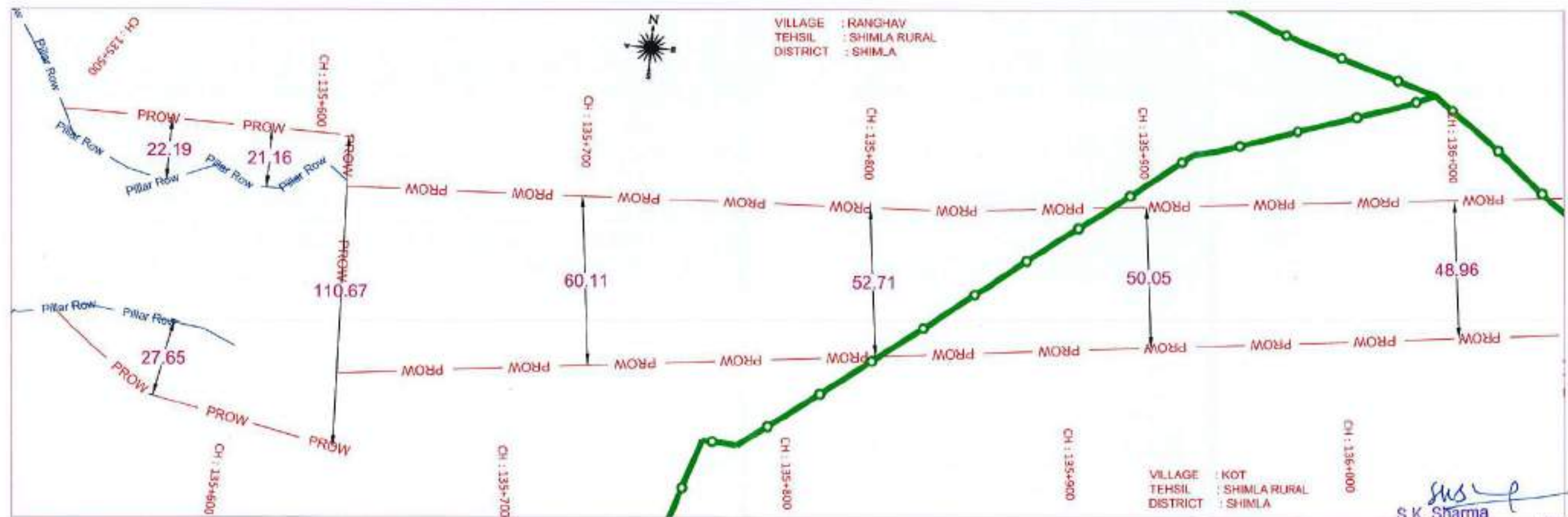


Intercontinental Consultants & Technocrats Pvt Ltd,
A-8, Green Park, New Delhi - 110016
Ph: 4086-3000, Fax 2685-5252

Prepared by: [Signature]
Designed by: [Signature]
Checked by: [Signature]
Approved by: [Signature]

RD	Jun - 2022	Initial Drawing	
Revisions	Date	Description	Checked by
Revisions			
DRAWING No. NHAI/NH-22/KAITH-SHALLI/PROW-WD/ 11 /100			

S.K. Sharma
GM (T)-cum-Project Director
NHAI, PIU-Shimla



Legend:-

Existing Right of Way — Pillar Row — Pillar Row
Proposed Right of Way — PROW —
Village Boundary —



Scale:-
Scale 1 : 1000

Project Title:
Consultancy Services for Preparation of DPR of 4-Laning of
Proposed Shimla Bypass From Kaithlighat to Dhalli Section of
NH-22 (Change From Km 128.835 to Km 155.015)
in the State of Himachal Pradesh on EPC Mode

Drawing Name:
PROW WIDENING DETAIL
FROM CH. 135+000 TO CH. 136+000



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

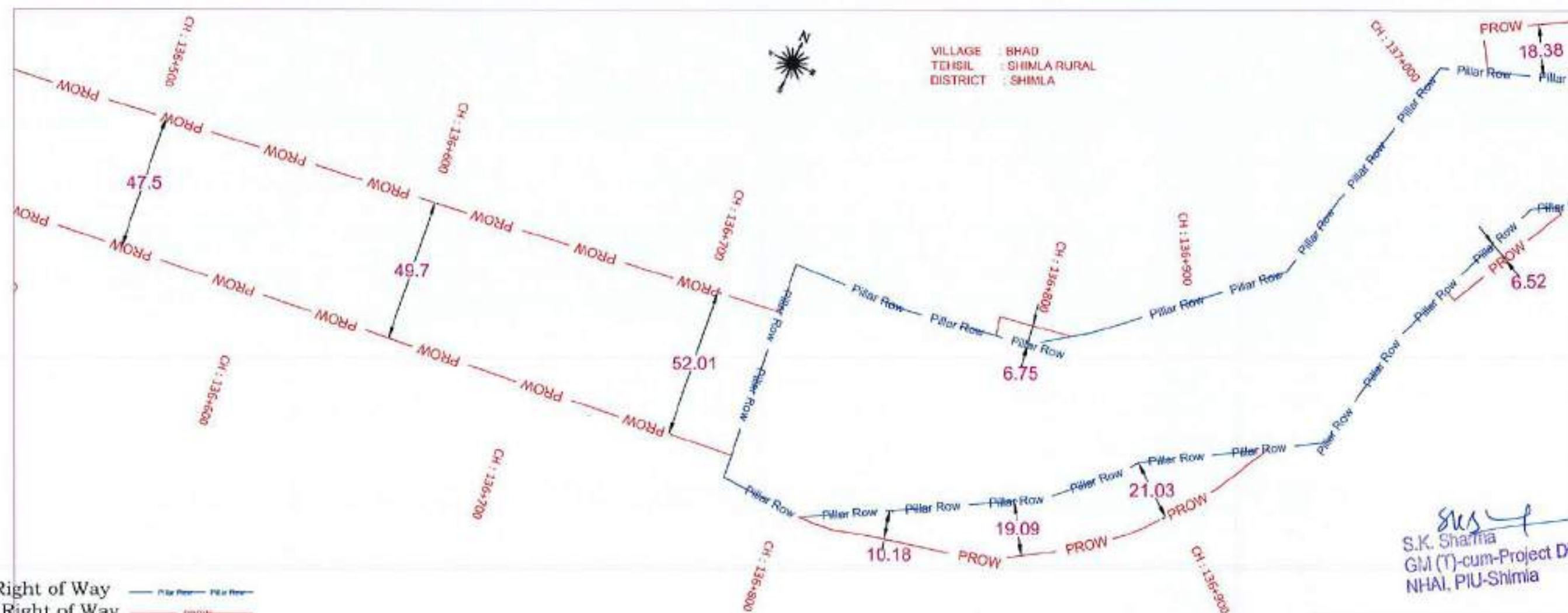
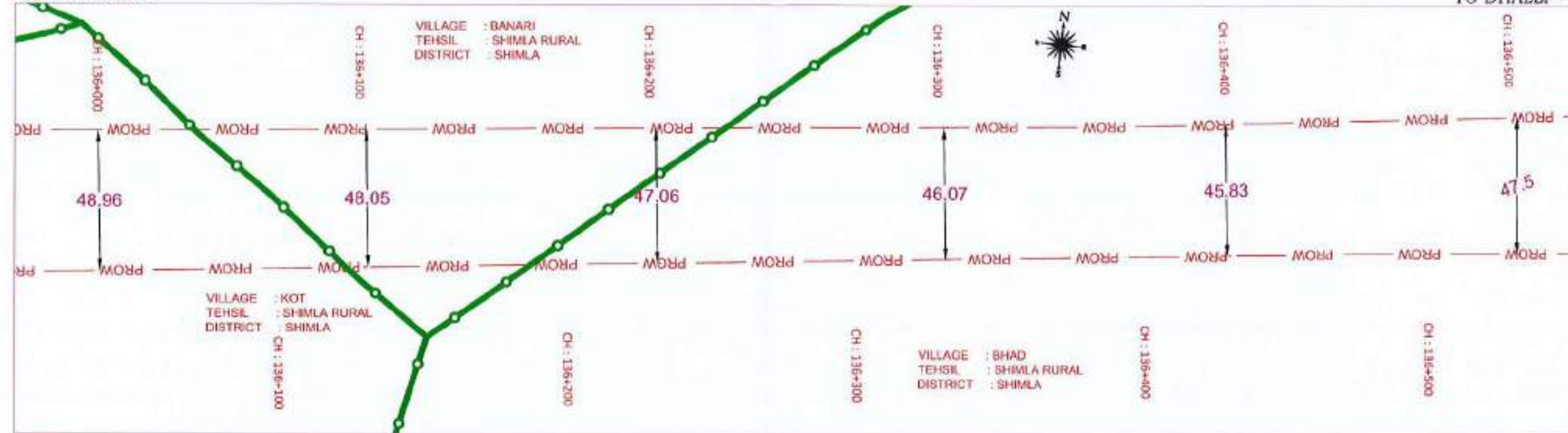
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Checked by: _____
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S.K. Sharma
GM (T)-cum-Project Director
NHAI, PIU-Shimla

NO	Date	Description	Checked by
10	Jan - 2022	Initial Drawing	
Revisions			
DRAWING No: NHAI/SH-22/KAITH-DHALLI/PROW-WD/ 12 /R0			

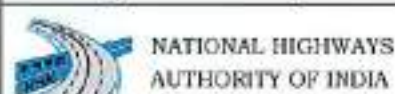
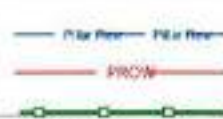
TO KAITHLIGHAT

TO DHALLI



Legend:-

Existing Right of Way
Proposed Right of Way
Village Boundary



Scale:-
Scale 1 : 1500

Project Title:

Consultancy Services for Preparation of DPR of 4-Laning of
Proposed Shimla Bypass From Kaithlighat to Dhalli Section of
NH-22 (Change From Km 128.835 to Km 136.008)
in the State of Himachal Pradesh in EPC Mode

Drawing Name:

PROW WIDENING DETAIL

FROM CH. 136+000 TO CH. 137+000



Intercontinental Consultants & Technocrats Pvt Ltd.

A-8, Green Park, New Delhi - 110016

Ph : 4086-3000, Fax 2685-5252

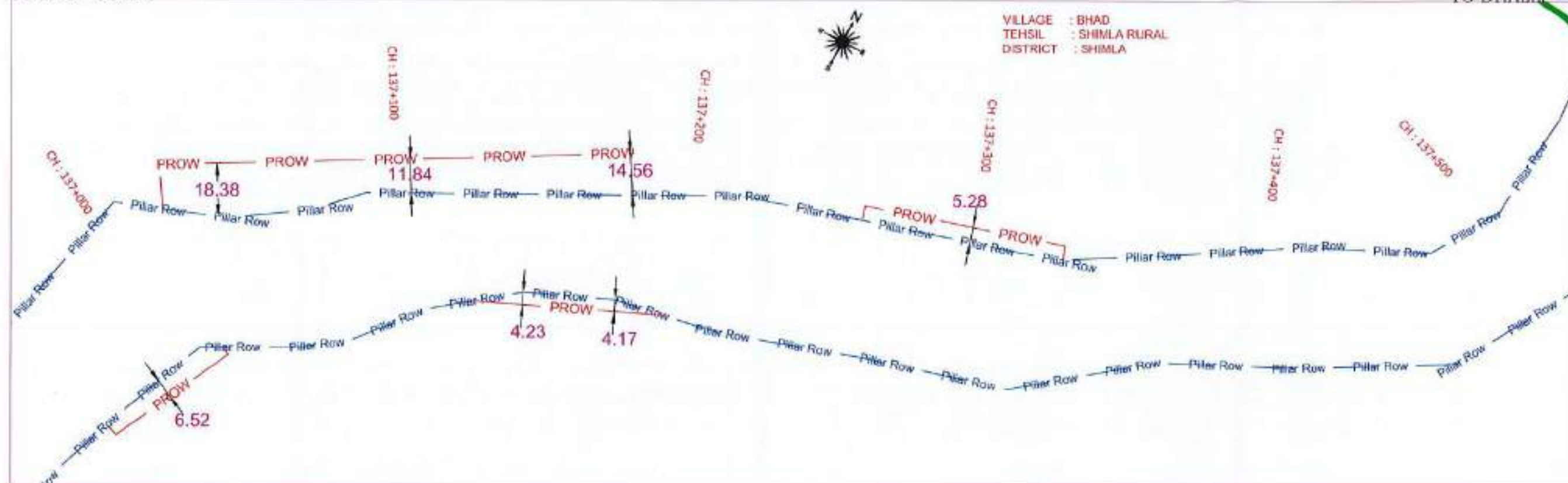
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NO	Date	Initial Drawing	Checked by
Revisions	Date	Description	
Revisions			
DRAWING No: NHAI/NH-22/KAITH-DHALLI/PROW-WD/ 13 /R0			

S.K. Sharma
GM (T)-cum-Project Director
NHAI, PIU-Shimla

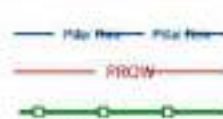
TO KATHLIGHTAT

TO DHALLI



Legend:-

Existing Right of Way
Proposed Right of Way
Village Boundary



Scale:-

Scale 1 : 1500

Project Title:

Consultancy Services for Preparation of DPR of 4-Laning of
Proposed Sharda Bypass From Kathlighat to Dhalli Section of
NH-22 (Change From Km 128.835 to Km 155.008)
in the State of Himachal Pradesh on EPC Mode

Drawing Name:

PROW WIDENING DETAIL

FROM CH. 137+000 TO CH. 138+000



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A-8, Green Park, New Delhi - 110016
Ph : 4086-3000, Fax 2685-5252

Prepared by: [Signature]
Designed by: [Signature]
Checked by: [Signature]
Approved by: [Signature]

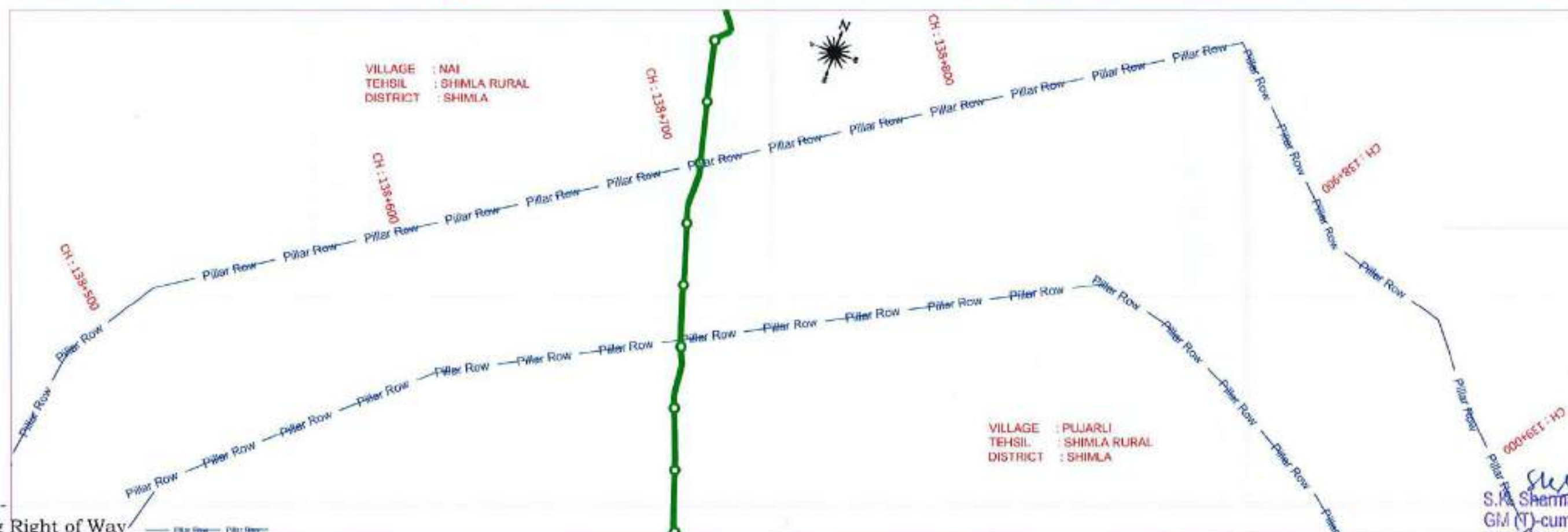
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01	Jan - 2023	Initial Drawing	
Revisions			
DRAWING No: NHAI/SH-22/KATH-DHALLI/PROW-WD/ 14 /80			



NATIONAL HIGHWAYS
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S.K. Sharma

GM (T)-cum-Project Director
NHAI, PIU-Shimla



Existing Right of Way/
Proposed Right of Way
Village Boundary

Scale: -
Scale 1 : 1500

Consultancy Services for Preparation of DPR of 4-Laning of Proposed Sharda Bypass From Kathlight to Ghali Section of NH-22 (Chainage from Km 128.835 to km 156.098) in the State of Himachal Pradesh on EPC Mode

PROW WIDENING DETAIL

FROM CIL 138+000 TO CIL 139+000

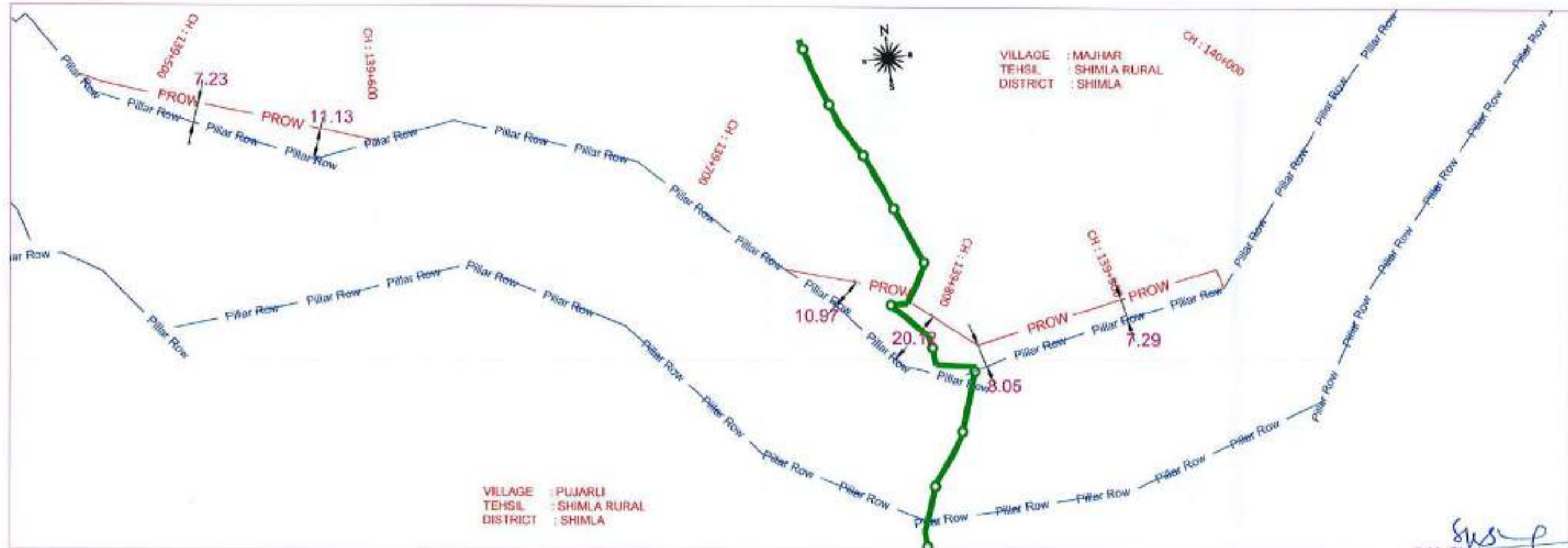
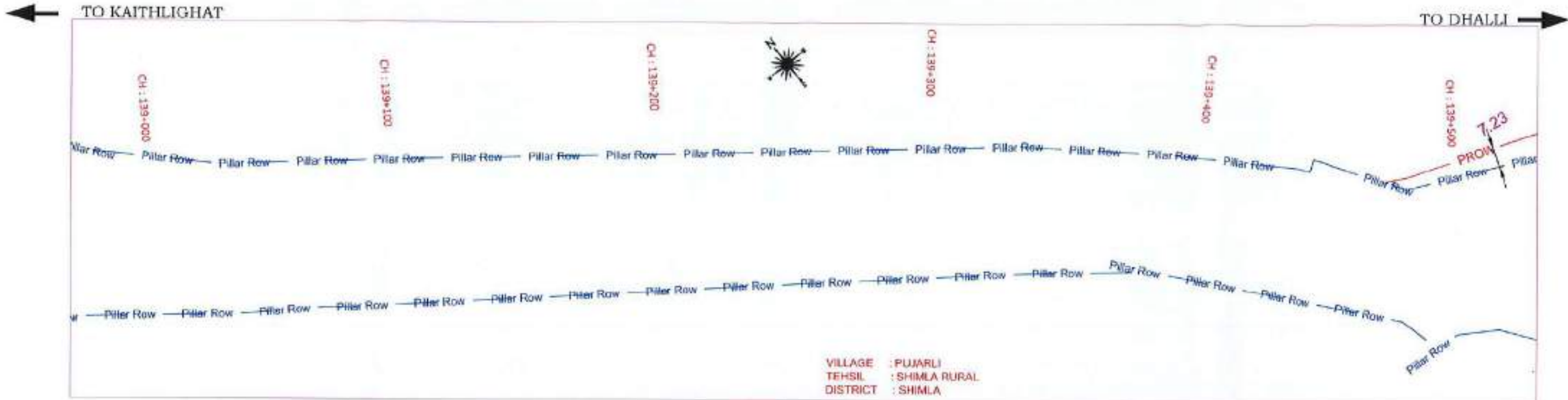


Intercontinental Consultants & Technocrats Pvt Ltd,
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Ph: 4086-3000, Fax 2685-5252

Who	How	When	Where
Who: Robert Smith	How: 1. Phone	When: Christmas	Where: Smith's Office
Who: Robert Smith	How: 2. Email	When: Christmas	Where: Smith's Office







S.K. Sharma
GM (N)-cum-Project Dir
NHAI, PIU-Shimla

Rev	Date - 2023	Initial Drawing	
Revisions	Date	Description	Checked by
Revisions			
DRAWING No: NHAI/NH-22/KATRA-DHALLI/PROJ-WD/ 15 / (R0)			



Legend:-
 Existing Right of Way ——— Pillar Row ——— Pillar Row ———
 Proposed Right of Way ——— PROW ———
 Village Boundary ———

S.K. Sharma
 GM (T)-cum-Project Director
 NHAI, PIU-Shimla

 <div>NATIONAL HIGHWAYS AUTHORITY OF INDIA</div>	Scale:-	Project Title:	Drawing Name:	Intercontinental Consultants & Technocrats Pvt Ltd, A-8, Green Park, New Delhi - 110016 Ph : 4086-3000, Fax 2685-5252				Revisions	
	Scale 1 : 1500	Consultancy Services for Preparation of DPR of 4-Laning of Proposed Shimla Bypass From Kathlighat to Dhalla Section of NH-22 (Change From Km 128.835 to Km 156.068) in the State of Himachal Pradesh on EPC Mode	PROW WIDENING DETAIL FROM CH. 139+000 TO CH. 140+000		 Rishi Chatur Gupta Prepared by	 Pratik Sharma Designed by	 Neha Choudhary Checked by	 Rajesh Choudhary Approved by	DRAWING No: NHAI/03-22/KATH-DHALI/PROW-WD/ 16 /80

TO KAITHLIGHAT ←

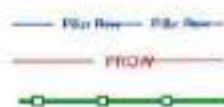
TO DHALLI →



VILLAGE : MAJHAR
 TEHSIL : SHIMLA RURAL
 DISTRICT : SHIMLA

Legend:-

Existing Right of Way
 Proposed Right of Way
 Village Boundary



Scale:-

Scale 1 : 1000

Project Title:

Consultancy Services for Preparation of DPR of 4-Laning of
 Proposed Shimla Bypass From Kaithlighat to Dhalli Section of
 NH-22 (Chainage From Km 158.811 to Km 156.668)
 in the State of Himachal Pradesh on EPC Mode

Drawing Name:

PROW WIDENING DETAIL

FROM CH. 140+000 TO CH. 140+500

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 Ph : 4086-3000, Fax 2685-5252



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 Designed by: [Signature]
 Checked by: [Signature]
 Approved by: [Signature]

S.K. Sharma
 GM (T)-cum-Project Director
 NHAI, PIU Shimla

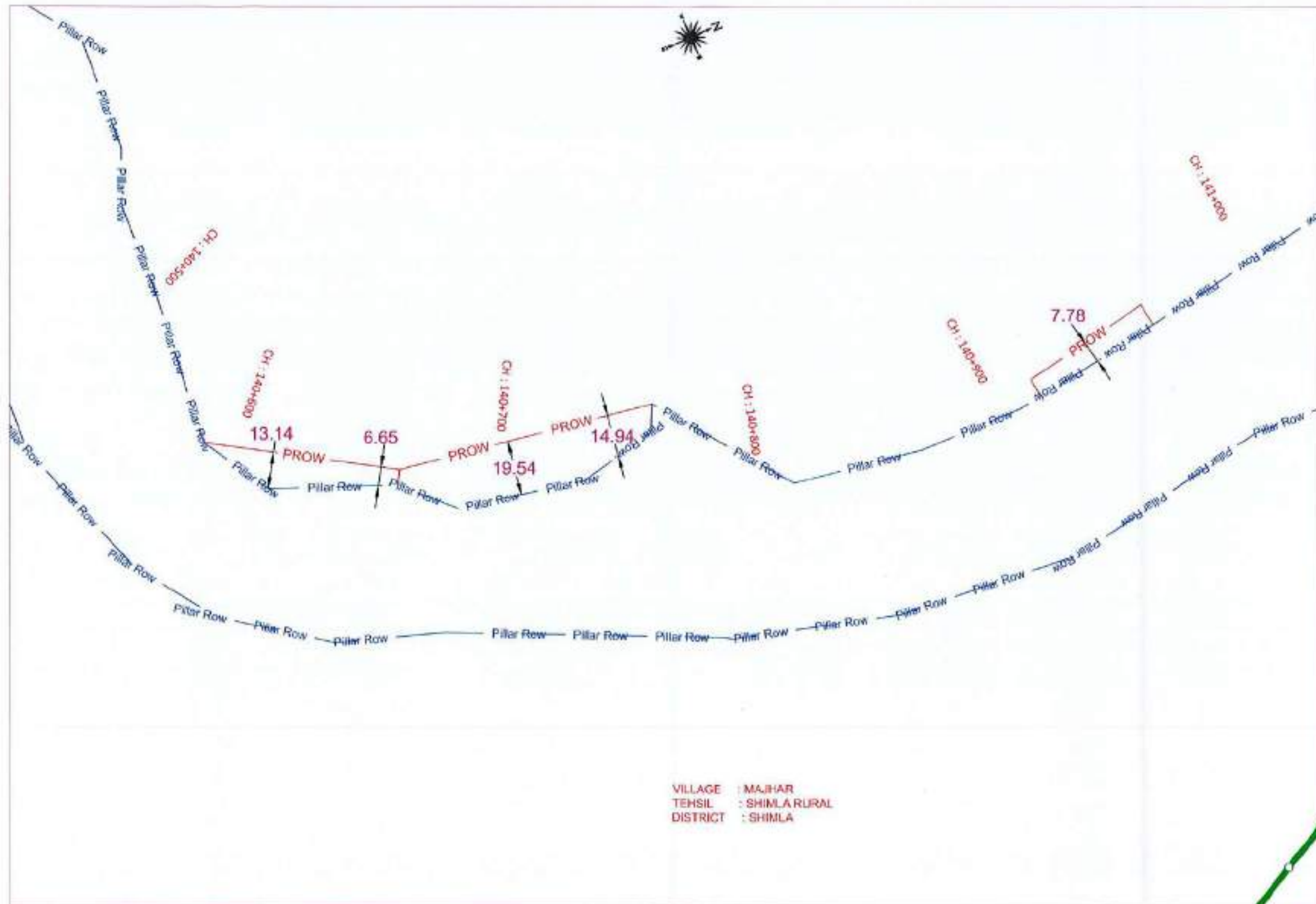
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01	Jan - 2022		
Revisions			
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NATIONAL HIGHWAYS
 AUTHORITY OF INDIA

TO KATHLIGHAT ←

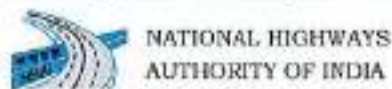
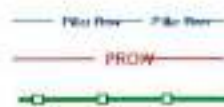
TO DHALLI →



VILLAGE : MAJHAR
 TEHSIL : SHIMLA RURAL
 DISTRICT : SHIMLA

Legend:-

Existing Right of Way
 Proposed Right of Way
 Village Boundary



Scale:-
 1:1000

Project Title:

Consultancy Services for Preparation of DPR of 4-Laning of
 Proposed Shimla Bypass From Kathlighat to Dhalli Section of
 NH-22 (Chainage From Km 128.835 to Km 156.068)
 in the State of Himachal Pradesh on EPC Mode

Drawing Name:

PROW WIDENING DETAIL

FROM CH. 140+500 TO CH. 141+000



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

Prepared by: [Signature] Designed by: [Signature] Checked by: [Signature] Approved by: [Signature]

S.K. Sharma
 GM (T)-cum-Project Director
 NHAI, PIU-Shimla

Sl. No.	Date	Description	Checked by
01	Jan - 2022	Initial Drawing	
Revisions			
DRAWING No: NHAI/NI-22/KATHI-DHALLI/PROW-WD/ 18 /100			

TO KAITHLIGHAT

TO DHALLI →



Existing Right of Way
Proposed Right of Way
Village Boundary

Scale:-

Consultancy Services for Preparation of DPR of 4-Laning of
Proposed Sharda Bypass From Karilghat to Dhuli Section of
NH-22 (Chaurage From Km 128.835 to Km 156.663)
in the State of Uttarakhand on EPC Mode

FROM CH. 141+000 TO CH. 141+500

Id

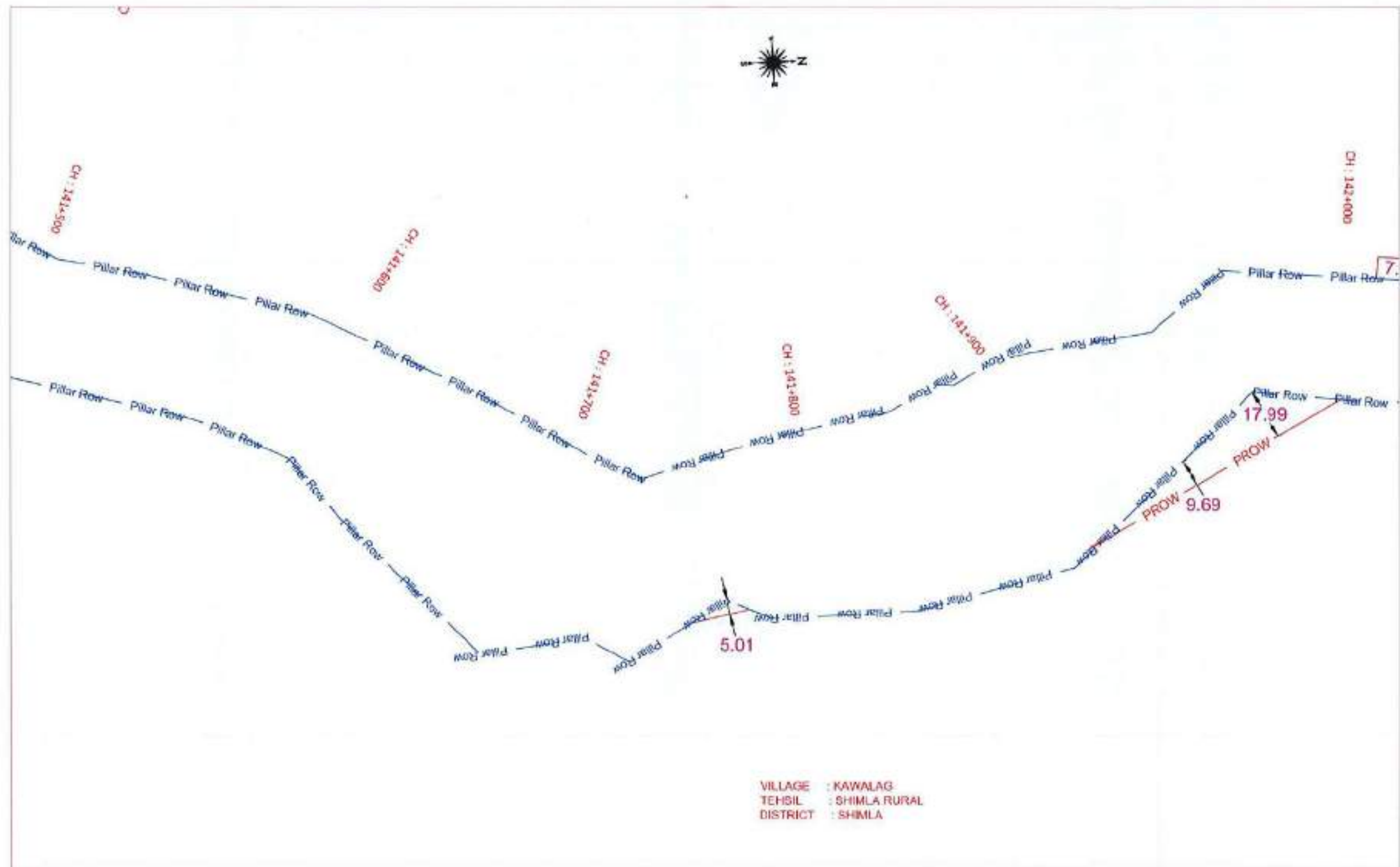
			
Manoj Kumar Gupta	Preeti Sharma	Nandini	Anjali
Prepared by	Designed by	Checked by	Approved by

S.K. Sharma
GM (T)-cum-Project Director
NHAI, PIU-Shimla

Rev	Jan - 2022	Initial Drawing	
Revisions	Date	Description	Checked by
Revisions			
DRAWING NO: NHA1/PH-22/KATH-DHALLA/PROW-WD/ 19 /RO			

TO KAITHLIGHAT ←

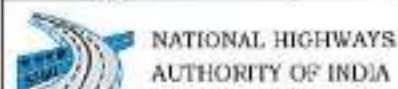
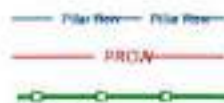
TO DHALLI →



VILLAGE : KAWALAG
 TEHSIL : SHIMLA RURAL
 DISTRICT : SHIMLA

Legend:-

Existing Right of Way
 Proposed Right of Way
 Village Boundary



Scale:-
 Scale 1 : 1500

Project Title:

Consultancy Services for Preparation of DPR of 4-Laning of
 Proposed Shimla Bypass From Kaitlhighat to Dhalli Section of
 NH-22 (Chainage From Km 128.835 to Km 156.068)
 in the State of Himachal Pradesh on EPC Mode

Drawing Name:

PROW WIDENING DETAIL

FROM CH. 141+500 TO CH. 142+000



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

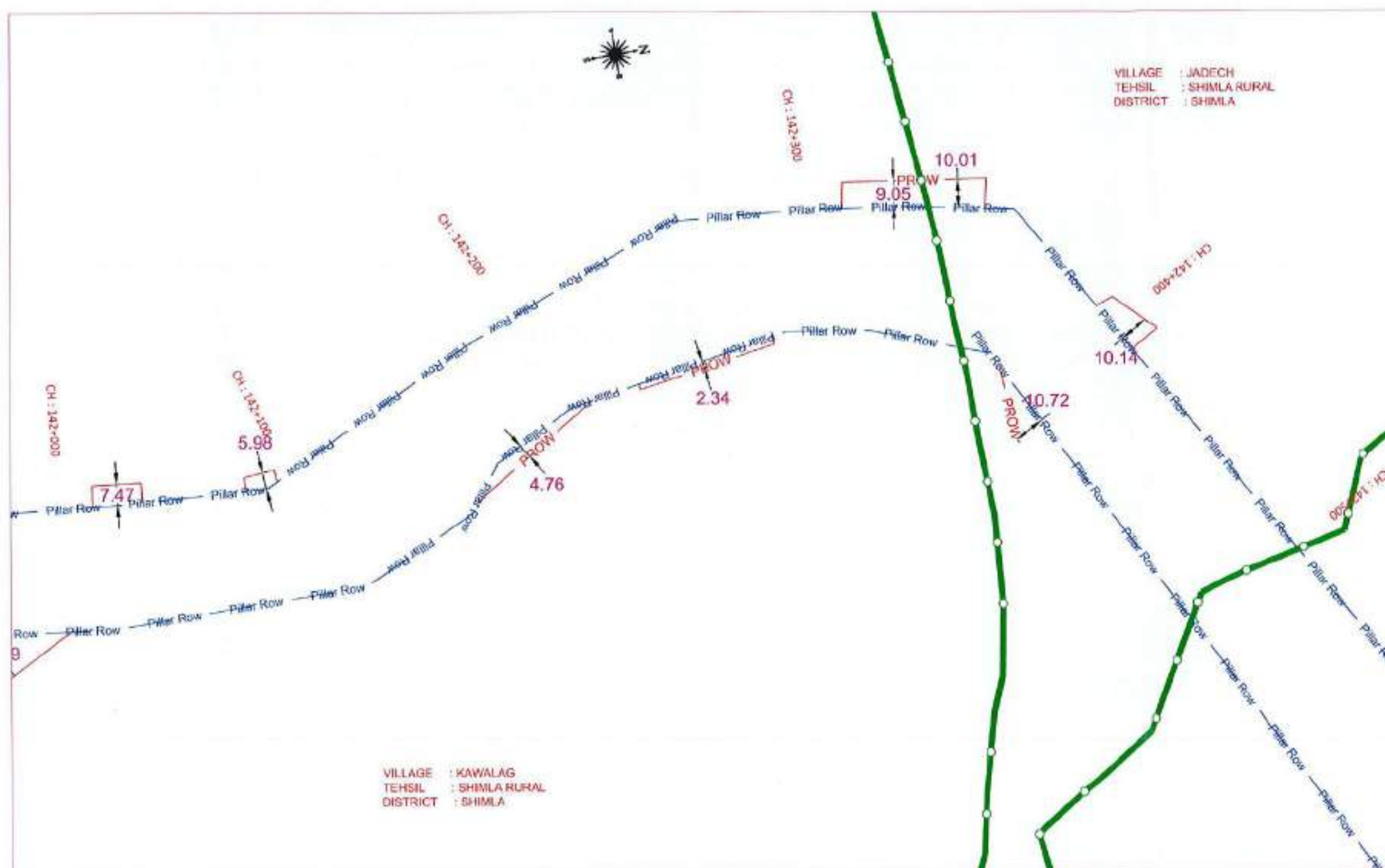
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S.K. Sharma
 GM (T)-cum-Project Director
 NHAI, PIU-Shimla

RD	Jun - 2022	Initial Drawing	
Revisions	Date	Description	Checked by
Revisions			
DRAWING No: NHAI/SH-22/KAITH-DHALLI/PROW-WD/20/RD			

← TO KATHLIGHTAT

TO DHALLI →



Legend:-

Existing Right of Way
Proposed Right of Way
Village Boundary



NATIONAL HIGHWAYS
AUTHORITY OF INDIA

Scale:-

Scale 1 : 1500

Project Title:

Consultancy Services for Preparation of DPR of 4-Laning of
Proposed Shimla Bypass From Kathlightat to Dhalli Section of
NH-22 (Chainage From Km 118.815 to Km 156.068)
in the State of Himachal Pradesh on EPC Mode

Drawing Name:

PROW WIDENING DETAIL

FROM CH. 142+000 TO CH. 142+500



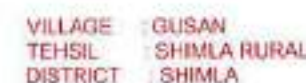
Intercontinental Consultants & Technocrats Pvt Ltd,
A-8, Green Park, New Delhi - 110016
Ph: 4086-3000, Fax 2685-5252

Prepared by: [Signature] Designed by: [Signature] Checked by: [Signature] Approved by: [Signature]

NO	Date	Initial Drawing	Checked by
Revisions		Description	
Revisions			
DRAWING No: NHAI/NH-22/KATHI-DHALLI/PROW-WD/ 21 /80			

S.K. Sharma
GM (T)-cum-Project Director
NHAI, PIU-Shimla

TO DHALLI →



VILLAGE : JALAF
TEHSIL : SHIMLA RURAL
DISTRICT : SHIMLA

Existing Right of Way
Proposed Right of Way
Village Boundary

Scale:-

Scale 1 : 1500

Consultancy Services for Preparation of DPR of 4-Laning of Proposed Sharda Bypass From Karthikpur to Dhabli Section of NH-224 (Chaining From Km 128.835 to Km 156.068) in the State of Himachal Pradesh on EPC Mode

PROW WIDENING DETAIL

FROM CH. 142-500 TO CH. 143-600

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A-8, Green Park, New Delhi - 110016
Ph : 4086-3000, Fax 2685-5252

ict

Prepared by

Designed by	
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Checked by	<i>[Signature]</i>
Checked by	

NO	
r	Approved by

Sl	Jan - 2022	Sl	Sl
Sl	Date	Description	Checked by

Revisions

DRAWING No: RHM/SH-22/SATHE-DIALLE/PROW-WD/ 22 /RD

← TO KATHLIGHAT

TO DHALLI →



VILLAGE : JALAF
 TEHSIL : SHIMLA RURAL
 DISTRICT : SHIMLA

Legend:-

Existing Right of Way ——— Pila Row ——— Pila Row ———
 Proposed Right of Way ——— PROW ———
 Village Boundary ———

Scale:-

Scale 1 : 1500

Project Title:

Consultancy Services for Preparation of DPR of 4-Laning of
 Proposed Shimla Bypass From Kathlighat to Dhalli Section of
 NH-22 (Change From Km 128.835 to Km 156.668)
 in the State of Himachal Pradesh on EPC Mode

Drawing Name:

PROW WIDENING DETAIL

FROM CH. 143+000 TO CH. 143+300



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 Ph : 4086-3000, Fax 2685-5252

Prepared by: [Signature] Designed by: [Signature] Checked by: [Signature] Approved by: [Signature]

S.K. Sharma
 GM (T)-cum-Project Director
 NHAI, PIU-Shimla

Rev.	Date	Description	Checked by
001	Jan - 2022	Initial Drawing	
Revisions			
DRAWING No: NHAI/NH-22/KATH-DHALLI/PROW-WD/ 23 /80			

TO KATHLIGHTAT

TO DHALLI



Legend:-

Existing Right of Way
Proposed Right of Way
Village Boundary



Scale:-

Scale 1 : 1500

Project Title:

Consultancy Services for Preparation of DPR of 4-Laning of
Proposed Shimla Bypass From Kathlighat to Dhalli Section of
NH-22 (Chainage From Km 138.835 to Km 156.008)
in the State of Himachal Pradesh on EPC Mode

Drawing Name:

PROW WIDENING DETAIL

FROM CH. 143+500 TO CH. 144+000



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A-8, Green Park, New Delhi - 110016
Ph: 4086-3000, Fax 2683-5252

Prepared by: [Signature] Designed by: [Signature] Checked by: [Signature] Approved by: [Signature]

S.K. Sharma
GM (T)-cum-Project Director
NHAI, PIU-Shimla

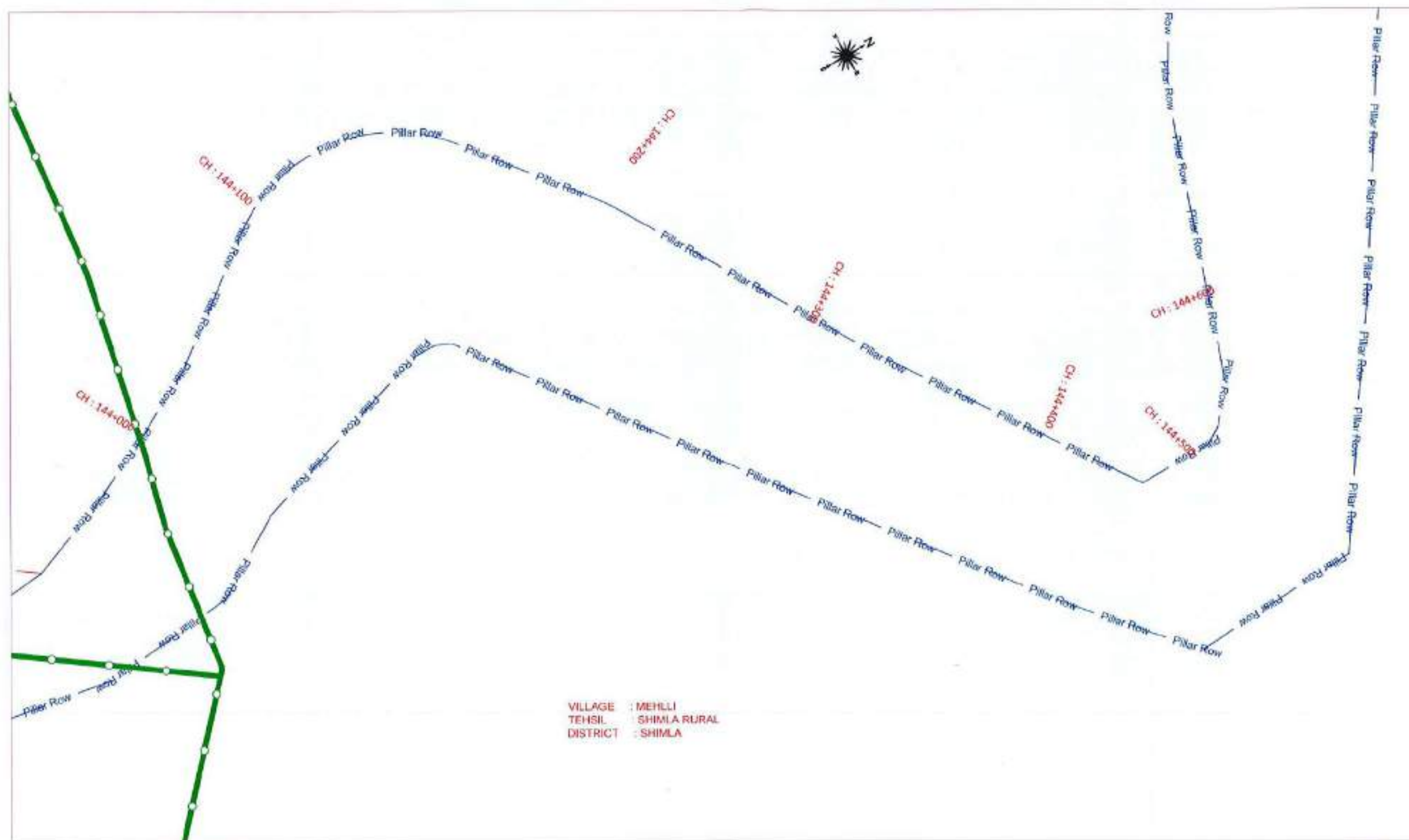
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Revisions	Time	Description	
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NATIONAL HIGHWAYS
AUTHORITY OF INDIA

← TO KAITHLIGHT

TO DHALLI →



VILLAGE : MEHLI
 TEHSIL : SHIMLA RURAL
 DISTRICT : SHIMLA

Legend:-

Existing Right of Way
 Proposed Right of Way
 Village Boundary



Scale:-

Scale 1 : 1500

Project Title:

Consultancy Services for Preparation of DPR of 4-Laning of
 Proposed Shimla Bypass From Kaitlight to Dhalli Section of
 NH-22 (Chainage From Km 128.835 to Km 156.068)
 in the State of Himachal Pradesh on EPC Mode

Drawing Name:

PROW WIDENING DETAIL

FROM CH 144+000 TO CH 144+500



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

Prepared by: [Signature]
 Designed by: [Signature]
 Checked by: [Signature]
 Approved by: [Signature]

SUSP
 GM (T)-cum-Project Director
 NHAI, PIU-Shimla

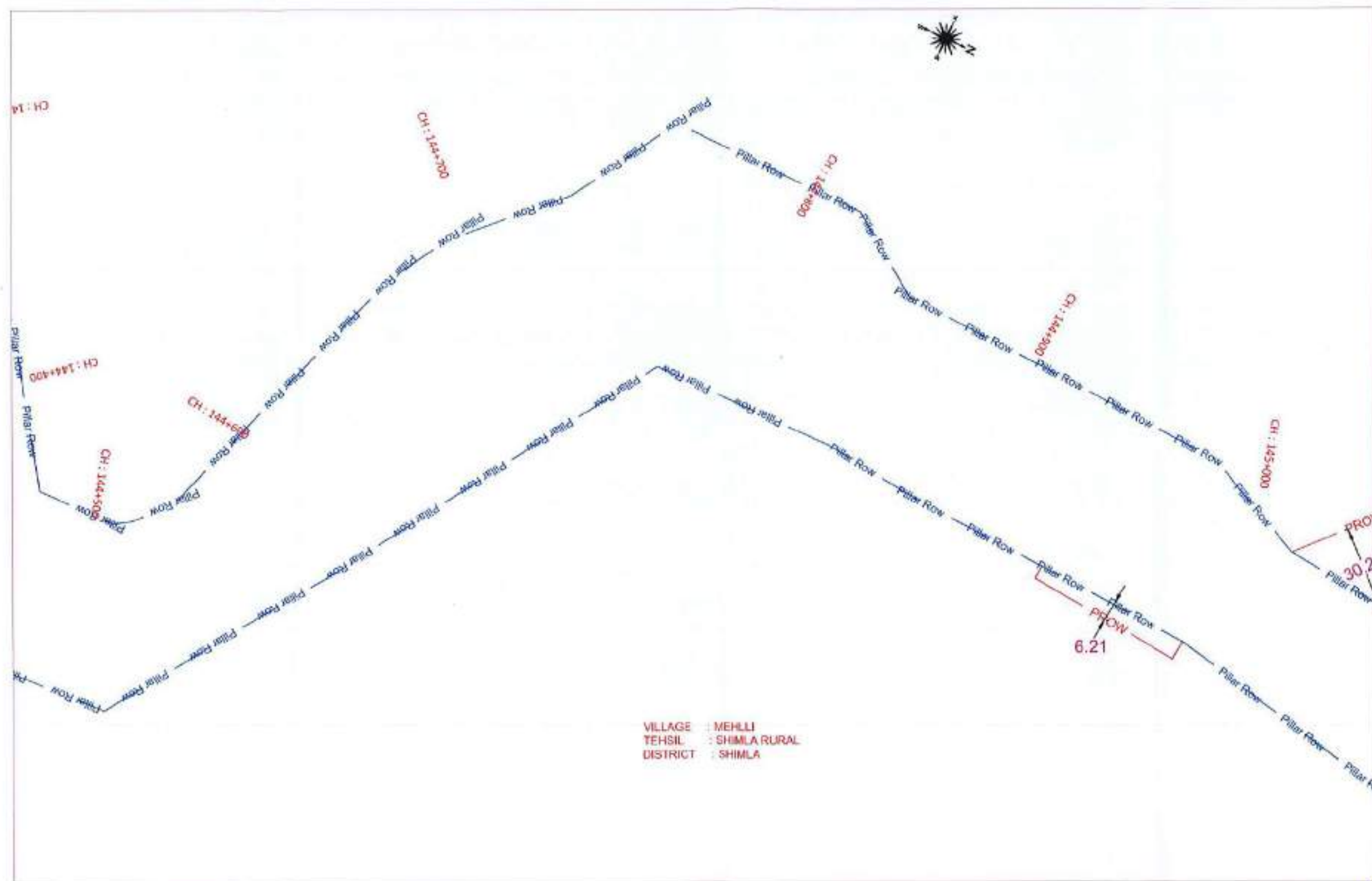
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Revisions	Date	Description	Checked by
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NATIONAL HIGHWAYS
 AUTHORITY OF INDIA

← TO KATHLIGHAT

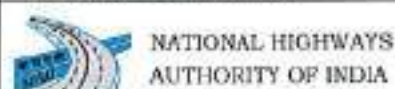
TO DHALLI →



VILLAGE : MEHLI
 TEHSIL : SHIMLA RURAL
 DISTRICT : SHIMLA

Legend:-

Existing Right of Way
 Proposed Right of Way
 Village Boundary



Scale:-
 Scale 1 : 1500

Project Title:

Consultancy Services for Preparation of DPR of 4-Laning of
 Proposed Shimla Bypass From Kathlighat to Dhalli Section of
 NH-221 (Chainage From Km 128.835 to Km 136.958)
 in the State of Himachal Pradesh, on EPC Mode

Drawing Name:

PROW WIDENING DETAIL

FROM CH. 144+500 TO CH. 145+000



Intercontinental Consultants & Technocrats Pvt Ltd,
 A-8, Green Park, New Delhi - 110016
 Ph : 4086-3000, Fax 2685-6252

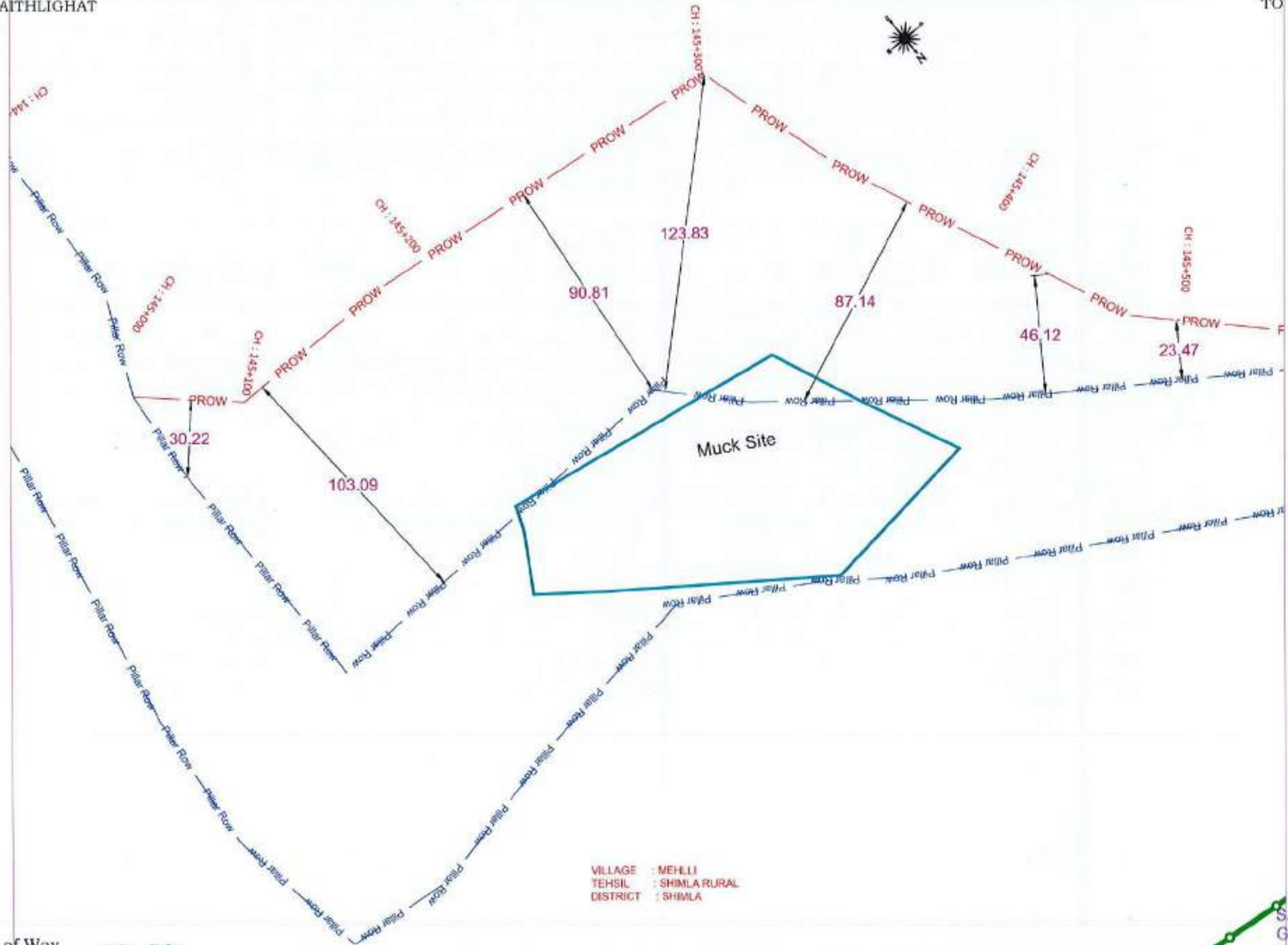
Prepared by: [Signature]
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 Approved by: [Signature]

S.K. Sharma
 GM (T)-cum-Project Director
 NHAI, PIU-Shimla

Rev	Date	Description	Checked by
100	Jan - 2022	Initial Drawing	
Revisions			
DRAWING No: NHAI/201-22/KATHI-DHALLI/PROW-WD/ 26 /RO			

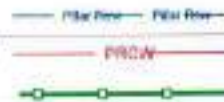
TO KATHLIGHAT

TO DHALLI



Legend:-

Existing Right of Way
Proposed Right of Way
Village Boundary



Scale:-

Scale 1 : 1500

Project Title:

Consultancy Services for Preparation of DPR of 4-Laning of
Proposed Shimla Bypass From Kathlighat to Dhalli Section of
NH-22 (Chainage From Km 138.815 to Km 156.058)
in the State of Himachal Pradesh on EPC Mode

Drawing Name:

PROW WIDENING DETAIL

FROM CH. 145+000 TO CH. 145+500

Intercontinental Consultants & Technocrats Pvt Ltd,
A-8, Green Park, New Delhi - 110016
Ph : 4086-3000, Fax 2655-5252



Prepared by: _____
Designed by: _____
Checked by: _____
Approved by: _____

Revisions	Date	Description	Checked by
01	Jan - 2022	Initial Drawing	
Revisions			
DRAWING No: NHAI/NH-22/KATH-DHALLI/PROW-WD/ 27 /RO			

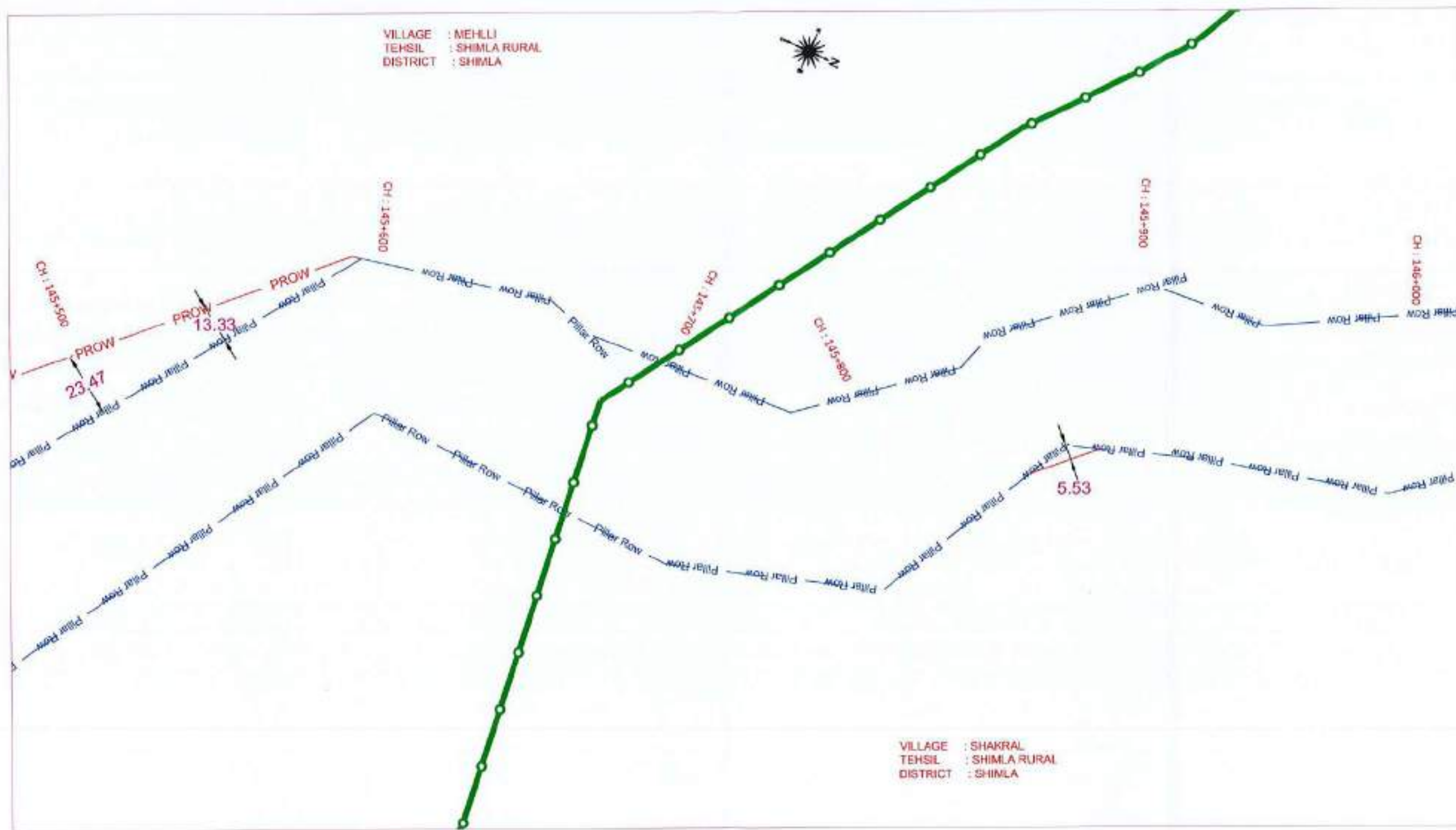
S.K. Sharma
GM (T)-cum-Project Director
NHAI, PIU-Shimla



NATIONAL HIGHWAYS
AUTHORITY OF INDIA

← TO KAITHLIGHAT

TO DHALLI →



Legend:-

Existing Right of Way ———
Proposed Right of Way ——— PROW ———
Village Boundary ———

Scale:-
Scale 1 : 1500

Project Title:
Consultancy Services for Preparation of DPR of 4-Laning of
Proposed Shimla Bypass From Kaithlighat to Dhalli Section of
NH-221 (Chainage From Km 128.855 to Km 156.068)
in the State of Himachal Pradesh on EPC Mode

Drawing Name:
PROW WIDENING DETAIL
FROM CH. 145+500 TO CH. 146+000

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

Prepared by: [Signature]
Designed by: [Signature]
Checked by: [Signature]
Approved by: [Signature]

S.K. Sharma
GM (T)-cum-Project Director
NHAI, PIU-Shimla

Sl. No.	Date	Description	Checked by
1	Jan - 2023	Initial Drawing	
Revisions			
DRAWING No: NHAI/PIU-22/KATH-DHALLI/PROW-WD/ 28 /19			



← TO KATHLIGHTAT

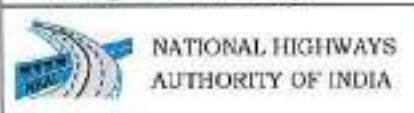
TO DHALLI →



VILLAGE : SHAKRAL
TEHSIL : SHIMLA RURAL
DISTRICT : SHIMLA

Legend:-

Existing Right of Way ——— Pillar Row ——— Pillar Row
Proposed Right of Way ——— PROW ———
Village Boundary ———



Scale:-
Scale 1 : 1000

Project Title:
Consultancy Services for Preparation of DPR of 4-Laning of
Proposed Shimla Bypass from Kathlighat to Dhalli Section of
NH-22 (Chainage From Km 128.835 to Km 150.088)
in the State of Himachal Pradesh on EPC Mode.

Drawing Name
PROW WIDENING DETAIL
FROM CH. 146+000 TO CH. 146+300

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

Prepared by	Designed by	Checked by	Approved by

S.K. Sharma
GM (T)-cum-Project Director
NHAI, PIU-Shimla

Sl. No.	Date	Description	Checked by
1	Jan - 2022	Initial Drawing	
Revisions			
DRAWING No: NHAI/NH-22/KATH-DHALLI/PROW-WD/ 29 /R0			

Full Title of the proposal:- Additional Forest land requirement of 11.7936 ha. for four laning of proposed Shimla Bypass from Kaithlighat to Shakral Section (Package-I) of NH-22 (Chainage from Km. 128.835 to Km. 146.300) in already approved FCA case of the entire section from Kaithlighat to Dhadli (Chainage from Km. 128.835 to Km. 156.560) of NH-22 for 40.3 ha. in the State of Himachal Pradesh.

File No. : FP/HP/ROAD/15117/2022

Date of Proposal: 13th January, 2022

CHECK-LIST SERIAL NO. - 07

STATEMENT SHOWING THE DETAILS OF THE FOREST AREA PROPOSED FOR DIVERSION

Forest Area (Ha.) involved in Shimla Forest Division of Shimla Bypass (Pkg.-I)							
S. No.	District	Division	Range/Tehsil/Taluka/Village	Khasra/ Survey or Compartment Number of Km. Stone	Forest Area proposed for Diversion (Ha.)	Legal status of Forest Area	Remarks
1.	Shimla	Shimla	Shimla Rural	Details Attached	11.7936	Details Attached	

Date: 12/08/2022

Place : Shimla


 महाप्रबंधक (तकनीकी) / GM(T.)
 एवं परियोजना निदेशक / Project Director
 भारतराष्ट्र / N.H.A.I. Office Seal
 पक्षाई - शिमला (H.P.)
 National Highways Authority of India
 Project Implementation Unit (PIU)
 Shimla, Himachal Pradesh

Countersigned -

Divisional Forest Officer
 Shimla Forest Division
 Office Seal

FULL TITLE OF PROJECT: Additional Forest land requirement of 11.7936 ha. for four laning of proposed Shimla Bypass from Kaithalghat to Shakral Section (Package-I) of NH-22 (Chainage from Km 128.835 to Km.146.300) in already approved FCA case of the entire section from Kaithalghat to Dhali. Online Proposal No. FP/HP/ROAD/151117/2022.

S.No	District	Division	Range/Tehsil/ Village	Khasra/Survey or Compartment number of Km. Stone.	Forest Area Proposed for diversion [ha.].	Legal Status of Forest Area	Remarks
1	Shimla	Shimla	Mashobra /Shimla/ Shogi	837/1	0.0595	UPF	Road
2	Shimla	Shimla	Mashobra /Shimla/ Shogi	839/1	0.0578	UPF	Road
3	Shimla	Shimla	Mashobra /Shimla/ Shogi	922/2/1	0.0064	UPF	Road
4	Shimla	Shimla	Mashobra /Shimla/ Shogi	939/2/1	0.0340	UPF	Road
5	Shimla	Shimla	Mashobra /Shimla/ Shogi	981/2	0.0110	UPF	Road
6	Shimla	Shimla	Mashobra /Shimla/ Shogi	981/3/1	0.0010	UPF	Road
7	Shimla	Shimla	Mashobra /Shimla/ Mauri	985/3/1	0.0480	UPF	Road
8	Shimla	Shimla	Mashobra /Shimla/ Mauri	985/3/2	0.0012	UPF	Road
9	Shimla	Shimla	Mashobra /Shimla/ Mauri	855/2/1	0.0035	UPF	Road
10	Shimla	Shimla	Mashobra /Shimla/ Mauri	855/3	0.0090	UPF	Road
11	Shimla	Shimla	Mashobra /Shimla/ Mauri	856/2/1	0.0033	UPF	Road
12	Shimla	Shimla	Mashobra /Shimla/ Mauri	920/2/1	0.0189	UPF	Road
13	Shimla	Shimla	Mashobra /Shimla/ Bhog	1485/1/1	0.3174	UPF	Road
14	Shimla	Shimla	Mashobra /Shimla/ Bhog	1503/1/1	0.0410	UPF	Road
15	Shimla	Shimla	Mashobra /Shimla/ Bharob	455/1	0.0032	UPF	Road
16	Shimla	Shimla	Mashobra /Shimla/ Ranghav	517/1	0.0072	UPF	Road
17	Shimla	Shimla	Mashobra /Shimla/ Ranghav	527	0.0054	UPF	Road
18	Shimla	Shimla	Mashobra /Shimla/ Ranghav	528	0.0096	UPF	Road
19	Shimla	Shimla	Mashobra /Shimla/ Ranghav	85/1/3/1	0.0636	UPF	Road
20	Shimla	Shimla	Mashobra /Shimla/ Ranghav	85/1/2/1	0.0232	UPF	Road
21	Shimla	Shimla	Mashobra /Shimla/ Ranghav	33/1/3/1	0.0853	UPF	Road
22	Shimla	Shimla	Mashobra /Shimla/ Ranghav	34/4	0.0078	UPF	Road
23	Shimla	Shimla	Mashobra /Shimla/ Ranghav	36/3	0.0270	UPF	Road
24	Shimla	Shimla	Mashobra /Shimla/ Ranghav	32/2/1	0.0050	UPF	Road

महाप्रबंधक (तकनीकी)/GM(T)

एवं परियोजना निदेशक / & Project Director

भारत सरकार, न.म.प.न.

पत्राचार, निदेशक (निदेशक), न.म.प.न. (न.म.प.न.)

25	Shimla	Shimla	Mashobra Ranghav /Shimla/	31/2/1	0.1834	UPF	Road
26	Shimla	Shimla	Mashobra Ranghav /Shimla/	.1/2/1	0.0032	UPF	Road
27	Shimla	Shimla	Mashobra Ranghav /Shimla/	.2/2/1	0.0087	UPF	Road
28	Shimla	Shimla	Mashobra /Shimla/ Bhad	206/2	0.0042	UPF	Road
29	Shimla	Shimla	Mashobra /Shimla/ Bhad	221/2/1	0.0048	UPF	Road
30	Shimla	Shimla	Mashobra /Shimla/ Chadau	703/1/1	0.0318	UPF	Road
31	Shimla	Shimla	Mashobra /Shimla/ Pujari	742/2/1	0.0016	UPF	Road
32	Shimla	Shimla	Mashobra /Shimla/ Pujari	749/2/1	0.0028	UPF	Road
33	Shimla	Shimla	Mashobra /Shimla/ Pujari	755/1	0.0010	UPF	Road
34	Shimla	Shimla	Mashobra /Shimla/ Up Mahal Majhar	209	0.0170	UPF	Road
35	Shimla	Shimla	Mashobra /Shimla/ Up Mahal Majhar	210/1/2	0.1303	UPF	Road
36	Shimla	Shimla	Mashobra /Shimla/ Up Mahal Majhar	211/1/1	0.0148	UPF	Road
37	Shimla	Shimla	Mashobra /Shimla/ Up Mahal Majhar	211/1/2	0.0119	UPF	Road
38	Shimla	Shimla	Mashobra /Shimla/ Up Mahal Majhar	214/1/1	0.0192	UPF	Road
39	Shimla	Shimla	Mashobra /Shimla/ Up Mahal Majhar	534/1/1	0.0348	UPF	Road
40	Shimla	Shimla	Mashobra /Shimla/ Up Mahal Majhar	541/1/1	0.0196	UPF	Road
41	Shimla	Shimla	Mashobra /Shimla/ Jalf	2/1/1	0.0060	UPF	Road
42	Shimla	Shimla	Mashobra /Shimla/ Jalf	1/1/1	0.0870	UPF	Road
43	Shimla	Shimla	Mashobra /Shimla/ Mehli	1114/1/1	1.0822	UPF	Road
44	Shimla	Shimla	Mashobra /Shimla/ Mehli	1072/3/1	0.7475	UPF	Road
45	Shimla	Shimla	Mashobra /Shimla/ Shogi	798/2/1	1.8127	UPF	Dumping
46	Shimla	Shimla	Mashobra /Shimla/ Shogi	939/3/1	0.0047	UPF	Dumping
47	Shimla	Shimla	Mashobra /Shimla/ Shogi	940/2/1	0.0038	UPF	Dumping
48	Shimla	Shimla	Mashobra /Shimla/ Shogi	940/3/1	0.0014	UPF	Dumping
49	Shimla	Shimla	Mashobra /Shimla/ Shogi	842	0.0856	UPF	Dumping
50	Shimla	Shimla	Mashobra /Shimla/ Goru Kanawan	152/1	0.6025	UPF	Dumping
51	Shimla	Shimla	Mashobra /Shimla/ Goru Kanawan	125/1	0.0595	UPF	Dumping
52	Shimla	Shimla	Mashobra /Shimla/ Mauri	989/2/1	0.0385	UPF	Dumping


 महाप्रबंधक (सकनीकी) / G.M(T.)
 एवं परियोजना निदेशक / & Project Director
 भारत रासायनिक महामंडळ
 रासायनिक - जिला (H.P.)

53	Shimla	Shimla	Mashobra /Shimla/ Mauri	989/3/1	0.3271	UPF	Dumping
54	Shimla	Shimla	Mashobra /Shimla/ Mauri	993/2/1	0.2129	UPF	Dumping
55	Shimla	Shimla	Mashobra /Shimla/ Yaen	64/1	0.0701	UPF	Dumping
56	Shimla	Shimla	Mashobra /Shimla/ Yaen	254/1	0.0360	UPF	Dumping
57	Shimla	Shimla	Mashobra /Shimla/ Up Mahal Majhar	718/1	1.0912	UPF	Dumping
58	Shimla	Shimla	Mashobra /Shimla/ Up Mahal Gusan	332/1	0.0434	UPF	Dumping
59	Shimla	Shimla	Mashobra /Shimla/ Shoghi	798/2/2/1	0.5845	UPF	Tunnel
60	Shimla	Shimla	Mashobra /Shimla/ Kot	1/1	0.0380	UPF	Tunnel
61	Shimla	Shimla	Mashobra /Shimla/ Kot	2/1	0.1504	UPF	Tunnel
62	Shimla	Shimla	Mashobra /Shimla/ Kot	3/1	0.0276	UPF	Tunnel
63	Shimla	Shimla	Mashobra /Shimla/ Kot	4/1	0.1256	UPF	Tunnel
64	Shimla	Shimla	Mashobra /Shimla/ Kot	8/1	0.3056	UPF	Tunnel
65	Shimla	Shimla	Mashobra /Shimla/ Kot	9/1	0.0018	UPF	Tunnel
66	Shimla	Shimla	Mashobra /Shimla/ Kot	17	0.0038	UPF	Tunnel
67	Shimla	Shimla	Mashobra /Shimla/ Kot	19/1	0.0061	UPF	Tunnel
68	Shimla	Shimla	Mashobra /Shimla/ Kot	84/1	0.0620	UPF	Tunnel
69	Shimla	Shimla	Mashobra /Shimla/ Ranghav	506/2/1	0.1957	UPF	Tunnel
70	Shimla	Shimla	Mashobra /Shimla/ Ranghav	514/2/1	0.0050	UPF	Tunnel
71	Shimla	Shimla	Mashobra /Shimla/ Banadi	760/1	0.2983	UPF	Tunnel
72	Shimla	Shimla	Mashobra /Shimla/ Banadi	762	0.0901	UPF	Tunnel
73	Shimla	Shimla	Mashobra /Shimla/ Banadi	763/1	0.2338	UPF	Tunnel
74	Shimla	Shimla	Mashobra /Shimla/ Bhad	100/1	1.9520	UPF	Tunnel
75	Shimla	Shimla	Mashobra /Shimla/ Bhad	105	0.0628	UPF	Tunnel
				Total	11.7936		

Divisional Forest Officer
Shimla Forest Division
Shimla Forest Division
SHIMLA

महाप्रबंधक (नकलीकी) / GM (F)
एवं परियोजना निदेशक / & Project Director
भारतगंगा / BHAGANGA
पंचसरी - हिमालय (Himalaya) / PU-Shimla (H.P.)

Full Title of the proposal:- Additional Forest land requirement of 11.7936 ha. for four laning of proposed Shimla Bypass from Kaithlighat to Shakral Section (Package-I) of NH-22 (Chainage from Km. 128.835 to Km. 146.300) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 128.835 to Km. 156.560) of NH-22 for 40.3 ha. in the State of Himachal Pradesh.

File No. : FP/HP/ROAD/151117/2022

Date of Proposal: 13th January, 2022


CHECK-LIST SERIAL NO. - 08

STATEMENT SHOWING THE DETAILS OF THE NON-FOREST AREA PROPOSED FOR DIVERSION

Non-Forest Area (Ha.) involved in Shimla Forest Division of Shimla Bypass (Pkg.-I)							
S. No.	District	Division	Range/Tehsil/Taluka/Village	Khasra/ Survey or Compartment Number of Km. Stone	Non - Forest Area proposed for Diversion (Ha.)	Present Land use	Remarks
I.	Shimla	Shimla	Shimla Rural Taluka	Details Attached	13.8090	Details Attached	

Date : 19-04-2022

Place : Shimla


Project Director
National Highways Authority of India
Project Implementation Unit (PIU)
Shimla, Himachal Pradesh

S.K. Sharma
GM (T)-cum-Project Director
NHAI, PIU-Shimla

Countersigned :


Divisional Forests Officer
Shimla Forest Division
Shimla Forest Division
SHIMLA

Full Title of the proposal:- *Additional Forest land requirement of 11.7936 ha. for four laning of proposed Shimla Bypass from Kaithlighat to Shakral Section (Package-I) of NH-22 (Chainage from Km. 128.835 to Km. 146.300) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 128.835 to Km. 156.560) of NH-22 for 40.3 Ha in the State of Himachal Pradesh*

File No. : FP/HP/ROAD/151117/2022

Date of Proposal: 13 Jan 2022

Area Abstract - Shimla Forest Division

S.No.	District	Tehsil	Village	Forest Area (Ha.)	Total Non-Forest Area (Ha.)	Total Area (Ha.)
Road						
1	Shimla	Shimla Rural	Shogi	0.1697	0.7585	0.9282
2	Shimla	Shimla Rural	Mauri	0.0839	0.5713	0.6552
3	Shimla	Shimla Rural	Bhog	0.3584	0.1378	0.4962
4	Shimla	Shimla Rural	Bharob	0.0032	0.0296	0.0328
5	Shimla	Shimla Rural	Ranghav	0.4294	0.5095	0.9389
6	Shimla	Shimla Rural	Bhad	0.0090	0.6122	0.6212
7	Shimla	Shimla Rural	Chadau	0.0318	0.9245	0.9563
8	Shimla	Shimla Rural	Pujarli	0.0054	0.1213	0.1267
9	Shimla	Shimla Rural	Up Mahal Majhar	0.2476	0.1624	0.4100
10	Shimla	Shimla Rural	Up Mahal Kawalag	0.0000	0.0465	0.0465
11	Shimla	Shimla Rural	Up Mahal Jarech	0.0000	0.1088	0.1088
12	Shimla	Shimla Rural	Up Mahal Gusan	0.0000	0.3931	0.3931
13	Shimla	Shimla Rural	Jalf	0.0930	0.2280	0.3210
14	Shimla	Shimla Rural	Mehli	1.8297	0.1480	1.9777
15	Shimla	Shimla Rural	Shakral	0.0000	0.1434	0.1434
			Total	3.2611	4.8949	8.1560
Muck Disposal Sites						
D2	Shimla	Shimla Rural	Shogi	1.9082	0.5473	2.4555
D2	Shimla	Shimla Rural	Goru Kanawan	0.6620	0.0000	0.6620
D3	Shimla	Shimla Rural	Goru Kanawan	0.0000	0.0241	0.0241
D3	Shimla	Shimla Rural	Mauri	0.5785	0.2412	0.8197
D4	Shimla	Shimla Rural	Goru Kanawan	0.0000	0.4840	0.4840
D5	Shimla	Shimla Rural	Yaan	0.1061	0.4978	0.6039
D6	Shimla	Shimla Rural	Up Mahal Majhar	1.0912	0.2777	1.3689
D7	Shimla	Shimla Rural	Jalf	0.0000	1.1126	1.1126
D8	Shimla	Shimla Rural	Up Mahal Gusan	0.0434	0.8101	0.8535
D9	Shimla	Shimla Rural	Mehli	0.0000	0.5954	0.5954
			Total	4.3894	4.5902	8.9796
Tunnels						
T-1	Shimla	Shimla Rural	Sunghal	0	1.0077	1.0077
T-1	Shimla	Shimla Rural	Shogi	0.5845	0.5748	1.1593
T-2	Shimla	Shimla Rural	Ranghav	0.2007	0.3849	0.5856
T-2	Shimla	Shimla Rural	Kot	0.7209	1.1259	1.8468
T-2	Shimla	Shimla Rural	Banedi	0.6222	0.0679	0.6901
T-2	Shimla	Shimla Rural	Bhad	2.0146	1.1627	3.1775
			Total	4.1431	4.3239	8.4670
			Grand Total	11.7936	13.8090	25.6026

S.K.S.
S.K. Sharma
GM (T)-cum-Project Director
NHAI, PIU-Shimla

Full Title of the Proposal: *Additional Forest land requirement of 11.7936 ha. for four laning of proposed Shimla Bypass from Kaithlighat to Shakral Section (Package-I) of NH-22 (Chainage from Km. 128.835 to Km. 146.300) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 128.835 to Km. 156.560) of NH-22 for 40.3 Ha in the State of Himachal Pradesh*

File No. : FP/HP/ROAD/151117/2022

Date of Proposal: 13 Jan 2022

Total Non Forest Area - Shimla Forest Division

Sr. No	Type	District	Taluka	Village	Khasra No	Type of Land	Nature of Land	Area in Hect.
1	Road	Shimla	Shimla Rural	Shogi	862/1	Private	Banjar Kadeem	0.0081
2	Road	Shimla	Shimla Rural	Shogi	863/1	Private	Banjar Kadeem	0.0086
3	Road	Shimla	Shimla Rural	Shogi	840/1	Private	Banjar Kadeem	0.0295
4	Road	Shimla	Shimla Rural	Shogi	855/1	Private	Banjar Kadeem	0.0065
5	Road	Shimla	Shimla Rural	Shogi	874/1	Private	Banjar Kadeem	0.0361
6	Road	Shimla	Shimla Rural	Shogi	865/2/1	Private	Banjar Kadeem	0.0056
7	Road	Shimla	Shimla Rural	Shogi	926/2/1	Private	Bakhal Awwal	0.0080
8	Road	Shimla	Shimla Rural	Shogi	927/2/1	Private	Banjar Kadeem	0.0029
9	Road	Shimla	Shimla Rural	Shogi	932/1	Private	G. M. Sehan	0.0039
10	Road	Shimla	Shimla Rural	Shogi	933/1	Private	G.M. Makan	0.0037
11	Road	Shimla	Shimla Rural	Shogi	934/1	Private	G. M. Sehan	0.0043
12	Road	Shimla	Shimla Rural	Shogi	905/2/1	Private	Ghasni	0.0135
13	Road	Shimla	Shimla Rural	Shogi	958/1	Private	Bakhal Awwal	0.0293
14	Road	Shimla	Shimla Rural	Shogi	957/2	Private	Bakhal Awwal	0.0104
15	Road	Shimla	Shimla Rural	Shogi	979	Private	Banjar Kadeem	0.3137
16	Road	Shimla	Shimla Rural	Shogi	983/2/1	Private	Ghasni	0.0275
17	Road	Shimla	Shimla Rural	Shogi	984/2/2	Private	Ghasni	0.0541
18	Road	Shimla	Shimla Rural	Shogi	985/2/1	Private	Ghasni	0.0758
19	Road	Shimla	Shimla Rural	Shogi	991/1	Private	Banjar Kadeem	0.0016
20	Road	Shimla	Shimla Rural	Shogi	995/2/1	Private	Ghasni	0.0116
21	Road	Shimla	Shimla Rural	Shogi	872	Private	Banjar Kadeem	0.0077
22	Road	Shimla	Shimla Rural	Shogi	931	Private	G.M. Makan	0.0148
23	Road	Shimla	Shimla Rural	Shogi	975	Private	Bakhal Awwal	0.0338
24	Road	Shimla	Shimla Rural	Shogi	992	Private	Banjar Kadeem	0.0438
25	Road	Shimla	Shimla Rural	Shogi	993	Private	Ghasni	0.0047
							Total	0.7585
27	Road	Shimla	Shimla Rural	Mauri	906/2	Private	Ghasni	0.0595
28	Road	Shimla	Shimla Rural	Mauri	880/1	Private	Ghasni	0.0235
29	Road	Shimla	Shimla Rural	Mauri	880/2	Private	Ghasni	0.0375
30	Road	Shimla	Shimla Rural	Mauri	880/3	Private	Ghasni	0.0068
31	Road	Shimla	Shimla Rural	Mauri	882/2/1	Private	Ghasni	0.1031
32	Road	Shimla	Shimla Rural	Mauri	983/1	Private	Banjar Kadeem	0.0140
33	Road	Shimla	Shimla Rural	Mauri	905/2	Private	Ghasni	0.0715
34	Road	Shimla	Shimla Rural	Mauri	902/3/1	Private	Banjar Kadeem	0.1130
35	Road	Shimla	Shimla Rural	Mauri	888/2/1	Private	Banjar Kadeem	0.0378
36	Road	Shimla	Shimla Rural	Mauri	999/1	Private	Ghasni	0.0192
37	Road	Shimla	Shimla Rural	Mauri	845/2/1	Private	Bakhal Doyam	0.0399
38	Road	Shimla	Shimla Rural	Mauri	842/2/1	Private	Ghasni	0.0072
39	Road	Shimla	Shimla Rural	Mauri	844/2/1	Private	G.M. Abadi	0.0088
40	Road	Shimla	Shimla Rural	Mauri	861/2/1	Private	Banjar Kadeem	0.0178
41	Road	Shimla	Shimla Rural	Mauri	859/1	Private	Banjar Kadeem	0.0117
							Total	0.5713

S.K. Sharma
S.K. Sharma
GM (T)-cum-Project Director
N.F., PIU-Shimla


Sr. No	Type	District	Taluka	Village	Khasra No	Type of Land	Nature of Land	Area in Hect.
43	Road	Shimla	Shimla Rural	Bhog	1490/1/2/1	Private	Ghasni	0.0388
44	Road	Shimla	Shimla Rural	Bhog	1492/1	Private	Ghasni	0.0990
							Total	0.1378
45	Road	Shimla	Shimla Rural	Bharob	456/1	Private	Ghasni	0.0296
							Total	0.0296
48	Road	Shimla	Shimla Rural	Ranghav	406/2/1	Private	Bakhal Awwal	0.0538
49	Road	Shimla	Shimla Rural	Ranghav	52/1	Private	G.M. Tank	0.0020
50	Road	Shimla	Shimla Rural	Ranghav	522/1	Private	Ghasni	0.0122
51	Road	Shimla	Shimla Rural	Ranghav	523/1	Private	Bakhal Awwal	0.0254
52	Road	Shimla	Shimla Rural	Ranghav	524/1	Private	Bakhal Awwal	0.0482
53	Road	Shimla	Shimla Rural	Ranghav	529/1	Private	Ghasni	0.0176
54	Road	Shimla	Shimla Rural	Ranghav	530/1	Private	Ghasni	0.0212
55	Road	Shimla	Shimla Rural	Ranghav	509/2/1	Private	Ghasni	0.0272
56	Road	Shimla	Shimla Rural	Ranghav	547/2/2/1	Private	Ghasni	0.0962
57	Road	Shimla	Shimla Rural	Ranghav	29/2/1	Private	Ghasni	0.0216
58	Road	Shimla	Shimla Rural	Ranghav	518/2	Private	Banjar Kadeem	0.0402
59	Road	Shimla	Shimla Rural	Ranghav	520/2	Private	Bagicha Bakhal Doyam Faldar	0.0166
60	Road	Shimla	Shimla Rural	Ranghav	525/2	Private	Bakhal Awwal	0.0515
61	Road	Shimla	Shimla Rural	Ranghav	186/2	Private	Bakhal Awwal	0.0758
							Total	0.5095
63	Road	Shimla	Shimla Rural	Bhad	67/1	Private	Bakhal Awwal	0.0130
64	Road	Shimla	Shimla Rural	Bhad	208/2/1	Private	Bakhal Awwal	0.0227
65	Road	Shimla	Shimla Rural	Bhad	213/2/1	Private	Bakhal Awwal	0.0125
66	Road	Shimla	Shimla Rural	Bhad	215/1/1	Private	G.M. Sadak	0.0087
67	Road	Shimla	Shimla Rural	Bhad	70/1	Private	Bakhal Doyam	0.0218
68	Road	Shimla	Shimla Rural	Bhad	71/2	Private	Bakhal Doyam	0.0080
69	Road	Shimla	Shimla Rural	Bhad	265/2/1	Private	Ghasni	0.0340
70	Road	Shimla	Shimla Rural	Bhad	264/1	Private	Ghasni	0.0289
71	Road	Shimla	Shimla Rural	Bhad	263/2/1	Private	Ghasni	0.0052
72	Road	Shimla	Shimla Rural	Bhad	180/2/1	Private	Banjar Kadeem	0.0345
73	Road	Shimla	Shimla Rural	Bhad	216/2/1	Private	Bakhal Awwal	0.0082
74	Road	Shimla	Shimla Rural	Bhad	222/1	Private	Banjar Kadeem	0.0126
75	Road	Shimla	Shimla Rural	Bhad	76/2/1	Private	Bakhal Awwal	0.0117
76	Road	Shimla	Shimla Rural	Bhad	63/2/1	Private	Bakhal Awwal	0.0231
77	Road	Shimla	Shimla Rural	Bhad	68/1	Private	Bakhal Awwal	0.0104
78	Road	Shimla	Shimla Rural	Bhad	127/4/1	Private	Banjar Kadeem	0.0086
79	Road	Shimla	Shimla Rural	Bhad	138/3/1	Private	Banjar Kadeem	0.1801
80	Road	Shimla	Shimla Rural	Bhad	176/1	Private	Banjar Kadeem	0.0176
81	Road	Shimla	Shimla Rural	Bhad	179/3/1	Private	Ghasni	0.0515
82	Road	Shimla	Shimla Rural	Bhad	181/2	Private	Banjar Kadeem	0.0460
83	Road	Shimla	Shimla Rural	Bhad	240	Private	G.M. Rasta	0.0005
84	Road	Shimla	Shimla Rural	Bhad	69	Private	Bakhal Awwal	0.0526
							Total	0.6122
86	Road	Shimla	Shimla Rural	Chadau	601/1/1	Private	Ghasni	0.0659
87	Road	Shimla	Shimla Rural	Chadau	602/1	Private	Banjar Kadeem	0.0108
88	Road	Shimla	Shimla Rural	Chadau	603/1	Private	Banjar Kadeem	0.0360
89	Road	Shimla	Shimla Rural	Chadau	604/1/1	Private	Ghasni	0.0251
90	Road	Shimla	Shimla Rural	Chadau	606/1	Private	Ghasni	0.0273
91	Road	Shimla	Shimla Rural	Chadau	590/1/1	Private	Ghasni	0.0013
92	Road	Shimla	Shimla Rural	Chadau	766/1	Private	Ghasni	0.0648
93	Road	Shimla	Shimla Rural	Chadau	759/1	Private	Ghasni	0.0309
94	Road	Shimla	Shimla Rural	Chadau	755	Private	Ghasni	0.0636

Sr. No	Type	District	Taluka	Village	Khasra No	Type of Land	Nature of Land	Area in Hect.
95	Road	Shimla	Shimla Rural	Chadau	756	Private	Ghasni	0.0249
96	Road	Shimla	Shimla Rural	Chadau	769/1	Private	Ghasni	0.0555
97	Road	Shimla	Shimla Rural	Chadau	770/1	Private	Ghasni	0.0170
98	Road	Shimla	Shimla Rural	Chadau	771/1	Private	Ghasni	0.0030
99	Road	Shimla	Shimla Rural	Chadau	772/1	Private	Ghasni	0.0628
100	Road	Shimla	Shimla Rural	Chadau	754/1	Private	Ghasni	0.0050
101	Road	Shimla	Shimla Rural	Chadau	753/1	Private	Ghasni	0.0178
102	Road	Shimla	Shimla Rural	Chadau	752/1	Private	Ghasni	0.1592
103	Road	Shimla	Shimla Rural	Chadau	749/1	Private	Ghasni	0.0504
104	Road	Shimla	Shimla Rural	Chadau	748/1	Private	Banjar Kadeem	0.0241
105	Road	Shimla	Shimla Rural	Chadau	767	Private	Ghasni	0.0895
106	Road	Shimla	Shimla Rural	Chadau	768	Private	Ghasni	0.0895
							Total	0.9245
108	Road	Shimla	Shimla Rural	Pujarli	740/2/1	Private	Banjar Kadeem	0.0212
109	Road	Shimla	Shimla Rural	Pujarli	741/2/1	Private	Ghasni	0.0189
110	Road	Shimla	Shimla Rural	Pujarli	751/1	Private	G.M. Abadi	0.0038
111	Road	Shimla	Shimla Rural	Pujarli	752/2/1	Private	Ghasni	0.0198
112	Road	Shimla	Shimla Rural	Pujarli	756	Private	G.M. Makan	0.0040
113	Road	Shimla	Shimla Rural	Pujarli	757/1	Private	Ghasni	0.0380
114	Road	Shimla	Shimla Rural	Pujarli	750/1	Private	Banjar Kadeem	0.0156
							Total	0.1213
116	Road	Shimla	Shimla Rural	Up Mahal Majhar	207	Private	G.M. Abadi	0.0192
117	Road	Shimla	Shimla Rural	Up Mahal Majhar	208	Private	Bakhal Awwal	0.0048
118	Road	Shimla	Shimla Rural	Up Mahal Majhar	549/1/1	Private	Banjar Kadeem	0.0894
119	Road	Shimla	Shimla Rural	Up Mahal Majhar	640/1/1	Private	Ghasni	0.0376
120	Road	Shimla	Shimla Rural	Up Mahal Majhar	650/3/1	Private	Ghasni	0.0114
							Total	0.1624
122	Road	Shimla	Shimla Rural	Up Mahal Kawalag	169/1/1	Private	Ghasni	0.0180
123	Road	Shimla	Shimla Rural	Up Mahal Kawalag	170/1/1	Private	Ghasni	0.0060
124	Road	Shimla	Shimla Rural	Up Mahal Kawalag	178/1/1	Private	Ghasni	0.0225
							Total	0.0465
126	Road	Shimla	Shimla Rural	Up Mahal Jarech	311/1/1	Private	Ghasni	0.0208
127	Road	Shimla	Shimla Rural	Up Mahal Jarech	311/3/1	Private	Ghasni	0.0195
128	Road	Shimla	Shimla Rural	Up Mahal Jarech	312/1/1	Private	Ghasni	0.0221
129	Road	Shimla	Shimla Rural	Up Mahal Jarech	312/3/1	Private	Ghasni	0.0208
130	Road	Shimla	Shimla Rural	Up Mahal Jarech	313/1/1	Private	Ghasni	0.0256
							Total	0.1088
132	Road	Shimla	Shimla Rural	Up Mahal Gusan	511/1/1	Private	Ghasni	0.0868
133	Road	Shimla	Shimla Rural	Up Mahal Gusan	528/1/1	Private	Ghasni	0.0122
134	Road	Shimla	Shimla Rural	Up Mahal Gusan	547/1	Private	Ghasni	0.0897
135	Road	Shimla	Shimla Rural	Up Mahal Gusan	548/1	Private	Ghasni	0.0750


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Sr. No	Type	District	Taluka	Village	Khasra No	Type of Land	Nature of Land	Area in Hect.
136	Road	Shimla	Shimla Rural	Up Mahal Gusan	560/1	Private	Ghasni	0.0178
137	Road	Shimla	Shimla Rural	Up Mahal Gusan	561/1	Private	Ghasni	0.0975
138	Road	Shimla	Shimla Rural	Up Mahal Gusan	527/3/1	Private	Ghasni	0.0076
139	Road	Shimla	Shimla Rural	Up Mahal Gusan	508/1/1	Private	Ghasni	0.0065
							Total	0.3931
141	Road	Shimla	Shimla Rural	Jalf	17/1/1	Private	Ghasni	0.0812
142	Road	Shimla	Shimla Rural	Jalf	17/1/2	Private	Ghasni	0.0282
143	Road	Shimla	Shimla Rural	Jalf	13/1/1	Private	Ghasni	0.0064
144	Road	Shimla	Shimla Rural	Jalf	13/1/2	Private	Ghasni	0.0092
145	Road	Shimla	Shimla Rural	Jalf	93/18/1	Private	Ghasni	0.0960
146	Road	Shimla	Shimla Rural	Jalf	95/18/1	Private	Ghasni	0.0060
							Total	0.2280
148	Road	Shimla	Shimla Rural	Mehli	1078/3	Private	Ghasni	0.1072
149	Road	Shimla	Shimla Rural	Mehli	1079/1/2/1	Private	Ghasni	0.0408
							Total	0.1480
151	Road	Shimla	Shimla Rural	Shakral	547/17/4/1	Private	Ghasni	0.0493
152	Road	Shimla	Shimla Rural	Shakral	22 /1/1	Private	Bakhal Awwal	0.0800
153	Road	Shimla	Shimla Rural	Shakral	16	Private	Ghasni	0.0065
154	Road	Shimla	Shimla Rural	Shakral	262	Private	Banjar Kadeem	0.0076
							Total	0.1434
156	D2	Shimla	Shimla Rural	Shogi	856/1	Private	Banjar Kadeem	0.0032
157	D2	Shimla	Shimla Rural	Shogi	937/3/1	Private	Ghasni	0.167
158	D2	Shimla	Shimla Rural	Shogi	841	Private	Banjar Kadeem	0.0929
159	D2	Shimla	Shimla Rural	Shogi	843	Private	Ghasni	0.0116
160	D2	Shimla	Shimla Rural	Shogi	844/2	Private	Ghasni	0.0847
161	D2	Shimla	Shimla Rural	Shogi	850	Private	Ghasni	0.0309
162	D2	Shimla	Shimla Rural	Shogi	851	Private	Ghasni	0.0575
163	D2	Shimla	Shimla Rural	Shogi	852	Private	Banjar Kadeem	0.0282
164	D2	Shimla	Shimla Rural	Shogi	853	Private	Banjar Kadeem	0.0322
165	D2	Shimla	Shimla Rural	Shogi	854	Private	Ghasni	0.0104
166	D2	Shimla	Shimla Rural	Shogi	857	Private	Banjar Kadeem	0.0203
167	D2	Shimla	Shimla Rural	Shogi	858	Private	Banjar Kadeem	0.0084
							Total	0.5473
169	D3	Shimla	Shimla Rural	Goru Kanawan	852/1	Private	Ghasni	0.0171
170	D3	Shimla	Shimla Rural	Goru Kanawan	962/1	Private	Ghasni	0.007
							Total	0.0241
172	D3	Shimla	Shimla Rural	Mauri	991	Private	Ghasni	0.1017
173	D3	Shimla	Shimla Rural	Mauri	992/2	Private	Ghasni	0.0385
174	D3	Shimla	Shimla Rural	Mauri	990/1	Private	Ghasni	0.101
							Total	0.2412
176	D4	Shimla	Shimla Rural	Goru Kanawan	965/1	Private	Ghasni	0.0971
177	D4	Shimla	Shimla Rural	Goru Kanawan	966	Private	Ghasni	0.1958
178	D4	Shimla	Shimla Rural	Goru Kanawan	967/1	Private	Ghasni	0.1843
179	D4	Shimla	Shimla Rural	Goru Kanawan	960/1	Private	Ghasni	0.0068
							Total	0.484

Sr. No	Type	District	Taluka	Village	Khasra No	Type of Land	Nature of Land	Area in Hect.
181	D5	Shimla	Shimla Rural	Yaan	257/1	Private	Ghasni	0.1276
182	D5	Shimla	Shimla Rural	Yaan	255/1	Private	Ghasni	0.0351
183	D5	Shimla	Shimla Rural	Yaan	56	Private	Ghasni	0.003
184	D5	Shimla	Shimla Rural	Yaan	61	Private	Ghasni	0.3321
							Total	0.4978
186	D6	Shimla	Shimla Rural	Up Mahal Majhar	715/2	Private	Ghasni	0.1577
187	D6	Shimla	Shimla Rural	Up Mahal Majhar	502/1	Private	Ghasni	0.0098
188	D6	Shimla	Shimla Rural	Up Mahal Majhar	716/1	Private	Gairmumkin Kuhal	0.1104
							Total	0.2777
190	D7	Shimla	Shimla Rural	Jalf	94/18/1/1	Private	Ghasni	1.1082
191	D7	Shimla	Shimla Rural	Jalf	97/18/2/1	Private	Ghasni	0.0044
							Total	1.1126
193	D8	Shimla	Shimla Rural	Up Mahal Gusan	513/1	Private	Ghasni	0.0056
194	D8	Shimla	Shimla Rural	Up Mahal Gusan	313	Private	Ghasni	0.0744
195	D8	Shimla	Shimla Rural	Up Mahal Gusan	315	Private	Banjar Kadeem	0.0748
196	D8	Shimla	Shimla Rural	Up Mahal Gusan	316	Private	Banjar Kadeem	0.0102
197	D8	Shimla	Shimla Rural	Up Mahal Gusan	317	Private	Banjar Kadeem	0.0671
198	D8	Shimla	Shimla Rural	Up Mahal Gusan	318	Private	Banjar Kadeem	0.038
199	D8	Shimla	Shimla Rural	Up Mahal Gusan	321	Private	Banjar Kadeem	0.0224
200	D8	Shimla	Shimla Rural	Up Mahal Gusan	322	Private	Banjar Kadeem	0.0337
201	D8	Shimla	Shimla Rural	Up Mahal Gusan	323	Private	Banjar Kadeem	0.0528
202	D8	Shimla	Shimla Rural	Up Mahal Gusan	333	Private	Ghasni	0.0459
203	D8	Shimla	Shimla Rural	Up Mahal Gusan	334	Private	Ghasni	0.0626
204	D8	Shimla	Shimla Rural	Up Mahal Gusan	335	Private	Ghasni	0.0266
205	D8	Shimla	Shimla Rural	Up Mahal Gusan	324/1	Private	Ghasni	0.0129
206	D8	Shimla	Shimla Rural	Up Mahal Gusan	329/1	Private	Ghasni	0.0064
207	D8	Shimla	Shimla Rural	Up Mahal Gusan	320/1	Private	Banjar Kadeem	0.0459
208	D8	Shimla	Shimla Rural	Up Mahal Gusan	331/1	Private	Ghasni	0.0081
209	D8	Shimla	Shimla Rural	Up Mahal Gusan	331/2	Private	Ghasni	0.0018
210	D8	Shimla	Shimla Rural	Up Mahal Gusan	319/1	Private	Ghasni	0.016
211	D8	Shimla	Shimla Rural	Up Mahal Gusan	517/1	Private	Ghasni	0.1234
212	D8	Shimla	Shimla Rural	Up Mahal Gusan	516/1	Private	Ghasni	0.0119
213	D8	Shimla	Shimla Rural	Up Mahal Gusan	515/1/1	Private	Ghasni	0.0507
214	D8	Shimla	Shimla Rural	Up Mahal Gusan	514/1	Private	Ghasni	0.0144


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Sr. No	Type	District	Taluka	Village	Khasra No	Type of Land	Nature of Land	Area in Hect.
215	D8	Shimla	Shimla Rural	Up Mahal Gusan	336/1	Private	Ghasni	0.0045
							Total	0.8101
217	D9	Shimla	Shimla Rural	Mehli	1071/1	Private	Ghasni	0.5954
							Total	0.5954
219	T-1	Shimla	Shimla Rural	Sunghal	60	Private	Ghasni	0.4639
220	T-1	Shimla	Shimla Rural	Sunghal	62	Private	Ghasni	0.5438
							Total	1.0077
222	T-1	Shimla	Shimla Rural	Shogi	797	Private	Ghasni	0.0051
223	T-1	Shimla	Shimla Rural	Shogi	799	Government	G.M.Tower	0.0130
224	T-1	Shimla	Shimla Rural	Shogi	800	Private	Ghasni	0.0535
225	T-1	Shimla	Shimla Rural	Shogi	801	Private	Ghasni	0.0350
226	T-1	Shimla	Shimla Rural	Shogi	802	Private	Ghasni	0.0500
227	T-1	Shimla	Shimla Rural	Shogi	803	Private	Ghasni	0.0295
228	T-1	Shimla	Shimla Rural	Shogi	804	Private	Ghasni	0.0180
229	T-1	Shimla	Shimla Rural	Shogi	805	Private	Ghasni	0.0620
230	T-1	Shimla	Shimla Rural	Shogi	806	Private	Ghasni	0.0153
231	T-1	Shimla	Shimla Rural	Shogi	807	Private	Ghasni	0.0936
232	T-1	Shimla	Shimla Rural	Shogi	810	Private	Ghasni	0.0165
233	T-1	Shimla	Shimla Rural	Shogi	828	Private	Ghasni	0.0378
234	T-1	Shimla	Shimla Rural	Shogi	832	Private	Ghasni	0.0448
235	T-1	Shimla	Shimla Rural	Shogi	833	Private	Ghasni	0.0451
236	T-1	Shimla	Shimla Rural	Shogi	834	Private	Ghasni	0.0102
237	T-1	Shimla	Shimla Rural	Shogi	835	Private	Ghasni	0.0454
							Total	0.5748
239	T-2	Shimla	Shimla Rural	Ranghav	507	Private	Banjar Kadeem	0.0344
240	T-2	Shimla	Shimla Rural	Ranghav	508	Private	Banjar Kadeem	0.0226
241	T-2	Shimla	Shimla Rural	Ranghav	509	Private	Ghasni	0.1677
242	T-2	Shimla	Shimla Rural	Ranghav	510	Private	Ghasni	0.0029
243	T-2	Shimla	Shimla Rural	Ranghav	511	Private	G.M.Rasta	0.0015
244	T-2	Shimla	Shimla Rural	Ranghav	512	Government	G.M.Kuhal	0.0004
245	T-2	Shimla	Shimla Rural	Ranghav	530	Private	Ghasni	0.0086
246	T-2	Shimla	Shimla Rural	Ranghav	531	Private	Banjar Kadeem	0.1030
247	T-2	Shimla	Shimla Rural	Ranghav	532	Private	Banjar Kadeem	0.0391
248	T-2	Shimla	Shimla Rural	Ranghav	533	Private	Bakhal Awwal	0.0047
							Total	0.3849
250	T-2	Shimla	Shimla Rural	Banadi	741	Government	G.M.Sadak	0.0645
251	T-2	Shimla	Shimla Rural	Banadi	761	Government	G.M.Sadak	0.0034
							Total	0.0679
253	T-2	Shimla	Shimla Rural	Kot	5	Private	Ghasni	0.3369
254	T-2	Shimla	Shimla Rural	Kot	7	Private	Ghasni	0.7890
							Total	1.1259
256	T-2	Shimla	Shimla Rural	Bhad	101	Private	Ghasni	0.7487
257	T-2	Shimla	Shimla Rural	Bhad	103	Private	Ghasni	0.1053
258	T-2	Shimla	Shimla Rural	Bhad	104	Private	Ghasni	0.1907
259	T-2	Shimla	Shimla Rural	Bhad	120	Private	Banjar Kadeem	0.0215
260	T-2	Shimla	Shimla Rural	Bhad	121	Private	Banjar Kadeem	0.0301
261	T-2	Shimla	Shimla Rural	Bhad	122	Private	G.M.Makan	0.0120
262	T-2	Shimla	Shimla Rural	Bhad	123	Private	G.M.Makan	0.0051
263	T-2	Shimla	Shimla Rural	Bhad	127	Private	Banjar Kadeem	0.0182
264	T-2	Shimla	Shimla Rural	Bhad	128	Private	Bakhal Awwal	0.0351
							Total	1.1627
							Grand Total	13.8090


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No.SML-SR-57/2022 - 1023
Office of the Deputy Commissioner,
Shimla, District Shimla, H.P.

Dated, Shimla-1 the 26th March, 2022.

NON AVAILABILITY OF NON FOREST LAND CERTIFICATE

Certified that no alternative suitable Non Forest land is available for construction of four laning of proposed Shimla Bypass from Kaithlighat to Shakral Section (Package-1) (Km 128.835 to Km 146.300). The diversion of forest land area measuring **11.7936 Hectares** situated in Mohal/Mauja Shogi, Mauri, Bhog, Bharob, Ranghav, Bhad, Chadau, Pujarli, Majhar, Jalf, Mehli, Goru Kanawan, Yaan, Gusan, Kot, Banadi, Tehsil Shimla (Rural), District Shimla, Himachal Pradesh is essential which cannot be avoided. The detail of forest land is as under:-

Sr. No.	Name of Tehsil/ Sub-Tehsil	Name of Mauja/ Up-Mohal	Khasra No.	Area in Hectares	Classification of Land
1.	Shimla Rural	Shogi	837/1	0.0595	G.M. Nalah
			839/1	0.0578	Charagh Billa Drakhtan
			922/2/1	0.0064	G.M Rasta
			939/2/1	0.0340	Charagh Drakhtan
			981/2	0.0110	G.M. Nalah
			981/3/1	0.0010	G.M. Nalah
		Mauri	985/3/1	0.0480	Charagh Drakhtan
			985/3/2	0.0012	Charagh Drakhtan
			855/2/1	0.0035	Charagh Billa Drakhtan
			855/3	0.0090	Charagh Billa Drakhtan

	856/2/1	0.0033	Charagh Billa Drakhtan
	920/2/1	0.0189	Charagh Drakhtan
Bhog	1485/1/ 1	0.3174	Charagh Drakhtan
	1503/1/ 1	0.0410	G.M. Nalah
Bharob	455/1	0.0032	G.M. Rasta
Ranghav	517/1	0.0072	Charagh Billa Drakhtan
	527	0.0054	G.M. Khahal
	528	0.0096	Charagh Billa Drakhtan
	85/1/3/ 1	0.0636	Charagh Billa Drakhtan
	85/1/2/ 1	0.0232	Charagh Billa Drakhtan
	33/1/3/ 1	0.0853	Charagh Billa Drakhtan
	34/4	0.0078	G.M. Rasta
	36/3	0.0270	Charagh Billa Drakhtan
	32/2/1	0.0050	G.M. Kuhal
	31/2/1	0.1834	Charagh Billa Drakhtan
	.1/2/1	0.0032	G.M. Rasta
	.2/2/1	0.0087	Charagh Drakhtan
Bhad	206/2	0.0042	G.M. Rasta
	221/2/1	0.0048	G.M. Rasta
Chadau	703/1/1	0.0318	Charagh Drakhtan
Pujarli	742/2/1	0.0016	G.M. Rasta
	749/2/1	0.0028	G.M. Sadak
	755/1	0.0010	G.M. Rasta
Majhar	209	0.0170	Charagh
	210/1/2	0.1303	Charagh

	211/1/1	0.0148	G.M Sadak
	211/1/2	0.0119	G.M Sadak
	214/1/1	0.0192	Charagah
	534/1/1	0.0348	Charagah
	541/1/1	0.0196	Charagah
Jalf	2/1/1	0.0060	G.M Rasta
	1/1/1	0.0870	Charagah Billa Drakhtan
Mehli	1114/1/ 1	1.0822	Charagah Drakhtan
	1072/3/ 1	0.7475	Charagah Drakhtan
Shogi	798/2/1	1.8127	Charagah Drakhtan
	939/3/1	0.0047	Charagah Drakhtan
	940/2/1	0.0038	G.M. Nalah
	940/3/1	0.0014	G.M. Nalah
	842	0.0856	Charagah Billa Drakhtan
Goru Kanawan	152/1	0.6025	Charagah Drakhtan
	125/1	0.0595	G.M. Nalah
Mauri	989/2/1	0.0385	Charagah Drakhtan
	989/3/1	0.3271	Charagah Drakhtan
	993/2/1	0.2129	Charagah Billa Drakhtan
Yaan	64/1	0.0701	Charagah Drakhtan
	254/1	0.0360	G.M Nalah
Up Mahal Majhar	718/1	1.0912	Gair Mumkin Khad
Up Mahal Gusan	332/1	0.0434	G.M. Nalah
Shoghi	798/2/2 f.	0.5845	Charagah Drakhtan
Kot	1/1	0.0380	Charagah Drakhtan

		2/1	0.1504	Charagah Billa Drakhtan
		3/1	0.0276	Charagah Billa Drakhtan
		4/1	0.1256	Charagah Billa Drakhtan
		8/1	0.3056	Charagah Drakhtan
		9/1	0.0018	G.M.Kuhal
		17	0.0038	G.M.Chashma Pani
		19/1	0.0061	G.M.Nalah
		84/1	0.0620	Charagah Billa Drakhtan
	Ranghav	506/2/1	0.1957	Charagah Billa Drakhtan
		514/2/1	0.0050	G.M Rasta
	Banadi	760/1	0.2983	Charagah Billa Drakhtan
		762	0.0901	Charagah Billa Drakhtan
		763/1	0.2338	Charagah Billa Drakhtan
	Bhad	100/1	1.9520	Charagah Billa Drakhtan
		105	0.0628	G.M Rasta
		Kita=75		
		Grand Total	11.7936 Hec.	

Deputy Commissioner,
Shimla (H.P.)-176001, Shimla, H.P.

Full Title of the proposal:- Additional Forest land requirement of 11.7936 ha. for four laning of proposed Shimla Bypass from Kaithlighat to Shakral Section (Package-I) of NH-22 (Chainage from Km. 128.835 to Km. 146.300) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 128.835 to Km. 156.560) of NH-22 for 40.3 ha. in the State of Himachal Pradesh.

File No. : FP/HP/ROAD/151117/2022

Date of Proposal: 13th January, 2022

CHECK-LIST SERIAL NO. - 10

JUSTIFICATION FOR LOCATING THE PROJECT IN FOREST AREA

Stage II approval of forest diversion proposal of the entire section from Kaithlighat to Dhalli (Chainage from Km.128.835 to Km.156.560) of NH-22 for 40.3 Ha. was obtained by NHAI vide MOEF&CC, Dehradun letter dated 15.09.2017.

However, some additional forest land of area 11.7936 Ha. is required to be diverted for four laning of proposed Shimla Bypass from Kaithlighat to Shakral Section (Package-I) of NH-22 (Chainage from Km.128.835 to Km.146.300) for the following purposes:

- (i) Dumping sites for Muck Disposal
- (ii) Diversion of land over tunnels
- (iii) Four laning of structures against 2-lane in previous project
- (iv) Slope protection measures at fragile hill strata locations
- (v) Minor modification for improving geometry of highway

As all the Govt. waste land in Shimla is considered as forest land in view of the Notification Fl.29-241/B/C/49 dated 25.02.1952 of Govt. of Himachal Pradesh. Hence there is no availability of suitable non forest land within Shimla District.


The proposed 4-lane road necessarily passes through forest land because there is no non-forest land available. These forests are located along the already approved alignment in scattered patches on either side of the road. The four laning of Shimla Bypass will require bare minimum diversion of forest land. Also, the project road is located in hilly areas and an alternative option to the road will not be viable. Hence there is no escape from using the forest land.

Date : 19.04.2022

Place : Shimla

Countersigned -


Divisional Forest Officer
Shimla Forest Division
SHIMLA


Project Director
National Highways Authority of India
Project Implementation Unit (PIU)
Shimla, Himachal Pradesh
S.K. Sharma
GM (T)-cum-Project Director
NHAI, PIU-Shimla

Full Title of the proposal:- Additional Forest land requirement of 11.7936 ha. for four laning of proposed Shimla Bypass from Kaithlighat to Shakrol Section (Package-I) of NH-22 (Chainage from Km. 128.835 to Km. 146.300) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 128.835 to Km. 156.560) of NH-22 for 40.3 ha. in the State of Himachal Pradesh.

File No. : FP/HP/ROAD/151117/2022

Date of Proposal: 13th January, 2022

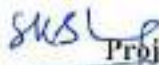
CHECK-LIST SERIAL NO. - 11

CERTIFICATE FOR MINIMUM USE OF FOREST LAND

This is to certify that the forest area involved in the proposal is unavoidable and barest minimum. **11.7936 ha** of forest area is proposed for diversion.

Date : 19.04.2022

Place : Shimla


Project Director
National Highways Authority of India
Project Implementation Unit (PIU)
Shimla, Himachal Pradesh
S.K. Sharma
GM (T)-cum-Project Director
NHAI, PIU-Shimla

Countersigned -


Divisional Forest Officer
Shimla Forest Division
SHIMLA

Full Title of the proposal:- Additional Forest land requirement of 11.7936 ha. for four laning of proposed Shimla Bypass from Kaithlighat to Shakral Section (Package-I) of NH-22 (Chainage from Km. 128.835 to Km. 146.300) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 128.835 to Km. 156.560) of NH-22 for 40.3 ha, in the State of Himachal Pradesh.

File No. : FP/HP/ROAD/151117/2022

Date of Proposal: 13th January, 2022

CHECK-LIST SERIAL NO. -12

UNDERTAKING FOR PAYMENT OF COST OF COMPENSATORY AFFORESTATION

I, the undersigned, on behalf of National Highways Authority of India, hereby undertake to pay the entire amount for compensatory afforestation in lieu of the forest area for four laning of Shimla Bypass (Package-I), as per prevailing rates at the time of undertaking the plantation activities.

Date : 19.04.2022
Place : Shimla


Project Director
National Highways Authority of India
Project Implementation Unit (PIU)
Shimla, Himachal Pradesh

S.K. Sharma
GM (T)-cum-Project Director
NHAI, PIU-Shimla

Countersigned -


Divisional Forest Officer
Shimla Forest Division
SHIMLA

Full Title of the proposal:- Additional Forest land requirement of 11.7936 ha. for four laning of proposed Shimla Bypass from Kaithlighat to Shakral Section (Package-I) of NH-22 (Chainage from Km. 128.835 to Km. 146.300) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 128.835 to Km. 156.560) of NH-22 for 40.3 ha. in the State of Himachal Pradesh.

File No. : FP/HP/ROAD/151117/2022

Date of Proposal: 13th January, 2022


CHECK-LIST SERIAL NO. - 13

UNDERTAKING FOR PAYMENT OF NET PRESENT VALUE OF FOREST AREA

It is to certify that I, the undersigned, on behalf of National Highways Authority of India, have applied for diversion of **11.7936 ha.** of forest area for four laning of Shimla Bypass (Package-I) and hereby, undertake to pay the Net Present Value (NPV) of the above forest land.

Date : 19.09.2022

Place : Shimla


Project Director
National Highways Authority of India
Project Implementation Unit (PIU)
Shimla, Himachal Pradesh
S.K. Sharma
GM (T)-cum-Project Director
NHAI, PIU-Shimla

Countersigned -


Divisional Forest Officer
Shimla Forest Division
SHIMLA

Full Title of the proposal:- Additional Forest land requirement of 11.7936 ha. for four laning of proposed Shimla Bypass from Kaithlighat to Shakral Section (Package-I) of NH-22 (Chainage from Km. 128.835 to Km. 146.300) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 128.835 to Km. 156.560) of NH-22 for 40.3 ha. in the State of Himachal Pradesh.

File No. : FP/HP/ROAD/151117/2022

Date of Proposal: 13th January, 2022

CHECK-LIST SERIAL NO. – 13a

UNDERTAKING FOR PAYMENT OF ADDITIONAL NET PRESENT VALUE

I, the undersigned, on behalf of National Highways Authority of India, hereby undertake to pay the additional amount of NPV, if so determined as per the decision of the Hon'ble Supreme Court of India in respect of diversion of forest land required for four laning of Shimla Bypass Package I.

Date : 19.04.2022

Place : Shimla


Project Director
National Highways Authority of India
Project Implementation Unit (PIU)
Shimla, Himachal Pradesh

S.K. Sharma
GM (T)-cum-Project Director
NHAI, PIU-Shimla

Countersigned -


Divisional Forest Officer
Shimla Forest Division
SHIMLA

Full Title of the proposal:- *Additional Forest land requirement of 11.7936 ha. for four laning of proposed Shimla Bypass from Kaithlighat to Shakral Section (Package-I) of NH-22 (Chainage from Km. 128.835 to Km. 146.300) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 128.835 to Km. 156.560) of NH-22 for 40.3 ha. in the State of Himachal Pradesh.*

File No. : FP/HP/ROAD/151117/2022

Date of Proposal: 13th January, 2022

CHECK-LIST SERIAL NO. - 14

UNDERTAKING FOR FRA CERTIFICATE

I, the undersigned, on behalf of National Highways Authority of India, undertake that the FRA Certificate for the project "Additional Forest land requirement of 11.7936 ha. for four laning of proposed Shimla Bypass from Kaithlighat to Shakral Section (Package-I) of NH-22 (Chainage from Km. 128.835 to Km. 146.300) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 128.835 to Km. 156.560) of NH-22 for 40.3 ha. in the State of Himachal Pradesh" will be obtained and submitted as per provisions of Recognitions of Forest Rights Act, 2006.

Date : 19.04.2022

Place : Shimla


Project Director
National Highways Authority of India
Project Implementation Unit (PIU)
Shimla, Himachal Pradesh

S.K. Sharma
GM (T)-cum-Project Director
NHAI, PIU-Shimla

Full Title of the proposal:- Additional Forest land requirement of 11.7936 ha. for four laning of proposed Shimla Bypass from Kaithlighat to Shakral Section (Package-I) of NH-22 (Chainage from Km. 128.835 to Km. 146.300) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 128.835 to Km. 156.560) of NH-22 for 40.3 ha. in the State of Himachal Pradesh.

File No. : FP/HP/ROAD/151117/2022

Date of Proposal: 13th January, 2022

CHECK LIST SERIAL NO. - 22

IN CASE OF PROPOSAL WHICH REQUIRES ENTRY/EXIT THROUGH PROTECTED FOREST STRIPS ALONG ROADS/RAILWAY LINES/CANALS

(Not Applicable)

Date : 19.04.2022
Place : Shimla


Project Director
National Highways Authority of India
Project Implementation Unit (PIU)
Shimla, Himachal Pradesh

S.K. Sharma
GM (T)-cum-Project Director
NHAI, PIU-Shimla

Full Title of the proposal:- *Additional Forest land requirement of 11.7936 ha. for four laning of proposed Shimla Bypass from Kaithlighat to Shakral Section (Package-I) of NH-22 (Chainage from Km. 128.835 to Km. 146.300) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 128.835 to Km. 156.560) of NH-22 for 40.3 ha, in the State of Himachal Pradesh.*

File No. : FP/HP/ROAD/151117/2022

Date of Proposal: 13th January, 2022

CHECK LIST SERIAL NO. - 23

FOR THE PROJECTS INVOLVING FOREST LAND FOR CONSTRUCTION OF
BUILDINGS/RIGHT OF WAY FOR BUILDINGS, THE BUILT-UP AREA - DETAILS OF DG
SETS TO BE INSTALLED, AND RAW MATERIALS TO BE USED

(Not Applicable)

Date : 19.04.2022
Place : Shimla


Project Director
National Highways Authority of India
Project Implementation Unit (PIU)
Shimla, Himachal Pradesh

S.K. Sharma
GM (T)-cum-Project Director
NHAI, PIU-Shimla

Full Title of the proposal:- Additional Forest land requirement of 11.7936 ha. for four laning of proposed Shimla Bypass from Kaithlighat to Shakral Section (Package-I) of NH-22 (Chainage from Km. 128.835 to Km. 146.300) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 128.835 to Km. 156.560) of NH-22 for 40.3 ha. in the State of Himachal Pradesh.

File No. : FP/HP/ROAD/151117/2022

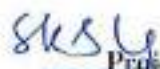
Date of Proposal: 13th January, 2022

CHECK LIST SERIAL NO. - 24

STATUS OF ENVIRONMENTAL CLEARANCE

As per EIA Notification 2006 read with its subsequent amendment dated 22nd August, 2013 (copy enclosed), this project does not require Environmental Clearance.

Date : 19.04.2022
Place : Shimla


Project Director
National Highways Authority of India
Project Implementation Unit (PIU)
Shimla, Himachal Pradesh

S.K. Sharma
GM (T)-cum-Project Director
NHAI, PIU-Shimla

भारत का राजपत्र The Gazette of India

EXTRAORDINARY

भाग II—खण्ड 3—उप-खण्ड (ग)

PART II—Section 3—Sub-section (g)

प्रधिकार से प्रकाशित

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पर्यावरण और वन संरक्षण

अधिसूचना

नई दिल्ली, 22 अगस्त 2013

क.आ.2550(अ)-केन्द्रीय सरकार ने, भारत सरकार की पर्यावरण और वन संरक्षण में पर्यावरण (संरक्षण) विभाग, 1986 के विभाग 3 के उप-विभाग (3) के खंड (ग) के तहत गठित पर्यावरण (संरक्षण) अधिनियम, 1986 की धारा 3 की उपधारा (2) के खंड (5) और उप-धारा (1) के अधीन जारी अधिसूचना संख्या क.अ. 1533 (अ) तारीख 14 सितंबर, 2006 द्वारा विदित किया है कि इस अधिसूचना के अन्तर्गत की तारीख से ही नई परियोजनाओं या उसके अधिसूचना की अनुसूची में सूचीकृत विद्यमान परियोजनाओं या कार्यकार्यों के विस्तार या अप्रतिष्ठितकरण के लिए अप्रतिष्ठित अनुमतिपत्रों के लिए प्रक्रिया या औद्योगिकी में परिवर्तन और या उत्पाद विभाग, भारत के किसी भी राज्य में पर्यावरण केन्द्रीय सरकार या उसके अधिनियम की धारा 3 की उप-धारा (3) के अधीन केन्द्रीय सरकार द्वारा तयकृत रूप से गठित राज्य स्तरीय पर्यावरण संघात निर्धारण प्रधिकरण की उत्तम निर्दिष्ट प्रक्रिया के अनुसरण में पूर्व पर्यावरण निमात्री के पश्चात् ही कार्य में लिया जाएगा;

और भारत सरकार ने पर्यावरण और वन संरक्षण में राजस्वों, भूतलों और विशेष अधिष्ठित क्षेत्र परियोजनाओं के लिए पर्यावरणीय निमात्री पदान्तर करने के संबंधित पर्यावरण संघात निर्धारण अधिसूचना, 2006 के उपबंधों का पुनर्निर्माण करने के लिए कार्यभार सार्वजनिक सं. 21-270/2008-आई.ए.आ. तारीख 11 सितंबर, 2012 और पर्यावरण और वन संरक्षण के संलग्नकारी अधिनियम के संबंध में कार्यभार सार्वजनिक तारीख 7 फरवरी, 2013 द्वारा सदस्य, (पर्यावरण और वन तथा विभाग और औद्योगिकी), योजना आयोग की अध्यक्षता में एक उच्च स्तरीय समिति बन गइल किया था ;

और समिति के सदस्यों के निर्देशों (टीओआर) में एक निबंधन पर्यावरण संघत निर्धारण अधिसूचना के अर्धीन 60 मीटर के मर्यादित और 200 किमीमीटर लंबी राजमार्ग विस्तार परियोजनाओं के लिए पर्यावरण निगरानी की आवश्यकता का पुनर्विनिर्देशन करने का ;

और समिति में संसद के अर्धीन रिपोर्ट प्रस्तुत कर दी है और इस टीओआर पर समिति ने राजमार्ग विस्तार परियोजनाओं को विस्तार की अपेक्षा और पर्यावरण संघत निर्धारण से हट कर की सिफारिश की है या राजमार्ग विस्तार परियोजनाओं के लिए पर्यावरण संघत परियोजना मान्य टीओआर, जिसे संसद की बैठक 44 चोस्ट किंग आयोग के अनुसार तैयार किया जा सकता है और पर्यावरण निगरानी की अपेक्षा के संबंध में समिति ने सिफारिश की है कि 100 किमीमीटर तक राष्ट्रीय राजमार्ग परियोजनाओं का विस्तार जिसमें अतिरिक्त मर्यादित या विद्युत्सम संरक्षण पर 40 मीटर तक अर्धीन और पुनःसंरक्षण पर 60 मीटर या उप-मार्ग की अधिसूचना की बरिधि से सहज रखने की सिफारिश की है ;

और समिति की रिपोर्ट की पर्यावरण और मन संसाधन में जोड़ की गई है । पहले ही अधिसूचना सं. आ. आ. 3087(अ) तारीख 1 दिसंबर, 2006 द्वारा सभी राज्य राजमार्ग विस्तार परियोजनाओं को जिसमें उन परियोजनाओं के जो पहाड़ी क्षेत्रों (1000 मीटर परतलपर्वत) और परिसरितिकीय रूप से संवेदनशील क्षेत्रों में है, को पर्यावरण संघत निर्धारण अधिसूचना 2006 से हट घटाने का की गई है ।

और अन्य बातों के साथ पूर्वोक्त को ध्यान में रखते हुए पर्यावरण और मन संसाधन से काबिलता तद्वत सं. 21-270/2008-आईएम, तारीख 11 दिसंबर, 2012 द्वारा गठित उच्च स्तरीय समिति की पूर्णतः सिफारिशों को स्वीकार करने का विनिर्देश किया है ;

अतः, अब, केन्द्रीय सरकार, पर्यावरण (संरक्षण) विधाय, 1986 के विधाय 6 के उपविधाय (4) के साथ पठित पर्यावरण (संरक्षण) अधिविधाय, 1986 की धारा 3 की उपधारा (2) के खंड (5) और उपधारा (1) द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए, संसद सरकार के पर्यावरण और मन संसाधन की अधिसूचना सं. आ.आ. 3533(अ) तारीख 14 दिसंबर, 2006 में उक्त विधाय 6 के उपविधाय (3) के खंड (क) के अन्तर्गत सूचना की अपेक्षा से अधिसूचित होने के लिए निम्नलिखित और संशोधन करती है, अर्थात् :-

2. उक्त अधिसूचना में,-

(क) धारा 7 के उपधारा 11 के साथ (1) के स्थान पर निम्नलिखित मद्र रखी जाएगी, अर्थात्:-

"(1) 'विस्तारण' उक्त अधिविधाय की शिष्टीक करता है, जिसके अन्तर्गत पर्यावरण परियोजनाओं के अन्तर्गत में विशेषतः आंकलन समिति और प्रथम 'अ 1' परियोजनाओं या विस्तारणों के अन्तर्गत में, उक्त स्तर विशेषतः आंकलन समिति, जिसके अन्तर्गत विद्युत्सम परियोजनाओं या विस्तारणों के विस्तार या आधुनिकीकरण या उत्पाद विधाय में परिवर्तन उक्त परियोजना या विस्तारण, जिसके लिए पूर्व पर्यावरणीय अनुमति है किता की गई है, के संबंध में पर्यावरण संरक्षण निर्धारण रिपोर्ट (ईआईए) तैयार करने के लिए सभी सुसंगत पर्यावरणीय रिपोर्टों को संशोधित करने हुए विस्तृत और सज्ज निर्देश के निर्देशों का आचरण और विशेषतः आंकलन समिति या संबंधित राज्य स्तर आंकलन समिति विहित आदेशन वत्त अधिनियम में दी गई अधिसूचना के आधार पर जिसके अन्तर्गत आवेदन द्वारा प्रस्तुत निर्देश के निर्देश हैं, किसी विशेषतः आंकलन समिति या संबंधित राज्य स्तर आंकलन समिति के किसी उप समूह द्वारा अन्य आंकलन यदि संबंधित विशेषतः आंकलन समिति या संबंधित राज्य स्तर विशेषतः आंकलन समिति द्वारा आचरण वत्त आदेशन द्वारा सुझाए गए निर्देश के निर्देश, यदि प्रस्तुत किए जाएं और उक्त सूचना को विशेषतः आंकलन समिति या राज्य स्तर विशेषतः आंकलन समिति के साथ उपस्थित हों, सम्मिलित है;

परंतु निम्नलिखित को विस्तारण की आचरणता नहीं होगी-

(ii) अनुसूची के मद 8 में प्रवर्ग ख के रूप में सूचीबद्ध सभी परियोजनाएं और कार्यकलाप (नगरों या वाणिज्यिक परिसरों या आवासन का संश्लेषण) ;

(iii) अनुसूची के मद 7 की उपमद (च) के अधीन स्तंभ (3) और स्तंभ (4) की प्रविष्टि (ii) के अधीन आने वाली राजमार्ग विस्तार परियोजनाएं ;

परंतु यह और कि -

अ. खंड (i) में निर्दिष्ट परियोजनाएं और कार्यकलापों का अंकन प्रारूप 1 या प्रारूप 1क और अवधारणा योजना के आधार पर किया जाएगा ;

आ. खंड (ii) में निर्दिष्ट परियोजनाएं पर्यावरण और वन संचालन द्वारा विनिर्दिष्ट माडल टीओआर के आधार पर ईआईए और ईएमपी रिपोर्ट तैयार करेगी ;

(ख) अनुसूची में मद 7 की उप मद (च) के सामने स्तंभ (3) में प्रविष्टि (ii) के स्थान पर निम्नलिखित प्रविष्टि रखी जाएगी, अर्थात्:-

"(ii) राष्ट्रीय राजमार्गों का 100 किलोमीटर से अधिक विस्तार जिनमें अतिरिक्त 40 मीटर से अधिक विद्यमान संरेखणों पर और पुनः संरेखणों या उपमार्गों पर 60 मीटर क्षेत्रधिकार या भूमि अर्जन अंतर्बर्तित है ।"

[फा.सं.21-270/2008-आईए.111]

अजय त्वागी, संयुक्त सचिव

टिप्पण : मूल नियम भारत के राजपत्र असाधारण, भाग II, खंड 3, उपखंड (ii) में अधिसूचना सं. का.आ. 1533(अ), तारीख 14 सितंबर, 2006 द्वारा प्रकाशित किए गए थे और तत्पश्चात् निम्नानुसार संशोधित किए गए :

1. का.आ. 1733(अ), तारीख 11 अक्तूबर, 2007;
2. का.आ. 3067(अ), तारीख 1 दिसंबर, 2009;
3. का.आ. 895(अ), तारीख 4 अप्रैल, 2011;
4. का.आ. 2898 (अ), तारीख 13 दिसंबर, 2012; और
5. का.आ. 674(अ), तारीख 13 मार्च, 2013

MINISTRY OF ENVIRONMENT AND FORESTS NOTIFICATION

New Delhi, the 22nd August, 2013

S.O. 2559(E):- Whereas by notification of the Government of India in the Ministry of Environment and Forests vide number S.O.1533(E), dated the 14th September, 2006 issued under sub-section (1) and clause (v) of sub-section (2) of section (3) of the Environment (Protection) Act, 1986 read with clause (d) of sub-rule (3) of rule 5 of the Environment (Protection) Rules, 1986, the Central Government directed that on and from the date of its publication, the required construction of new projects or activities or the expansion or modernization of existing projects or activities listed in the Schedule to the said notification entailing the capacity addition with change in process or technology and or product mix shall be undertaken in any part of India only after prior environmental clearance from the Central Government or as the case may be, by the State level Environment Impact Assessment Authority, duly constituted by the Central Government under sub-section (3) of section 3 of the said Act, in accordance with the procedure specified therein;

And whereas the Government of India in the Ministry of Environment and Forests had constituted a High Level Committee under the Chairmanship of Member (Environment and Forests and Science and Technology), Planning Commission, vide OM No.21-270/2008-IA.III dated the 11th December, 2012 to review the provisions of Environmental Impact Assessment Notification, 2006 relating to granting Environmental Clearances for Roads, Buildings and Special Economic Zone projects and provisions under the OM dated the 7th February, 2012 issued by the Ministry of Environment and Forests regarding guidelines for High Rise Buildings;

And whereas one of the terms of reference (ToR) of the Committee was to review the requirement of Environmental Clearance for highway expansion projects up to the right of way of 60 meters and length of 200 kms under Environmental Impact Assessment notification;

(i) अनुसूची के मद 3 में प्रथम ख के रूप में सूचीकृत इन्टी एरिथेडजमाय और कार्यकलाप (नगरी या कमिनिस्टिक बरिसनों या आवासन का संशोधन) ;

(ii) अनुसूची के मद 7 की उपमद (घ) के अधीन स्तंभ (3) और स्तंभ (4) की बहिष्कृत (B) के अधीन आने वाली राजमार्ग विस्तार परियोजनाएँ ;

परंतु यह और कि -

अ. संड (i) में निर्दिष्ट परियोजनायें और कार्यकलापों का प्रत्येक प्रकल्प 3 का प्रकल्प 1क और उपप्रकल्प 1क के आधार पर किताब कायम ;

आ. संड (ii) में निर्दिष्ट परियोजनायें पर्यावरण और वन संरक्षण द्वारा निर्दिष्ट मजदूर टीओडर के आधार पर ईमाईण और ईरमके रिपोर्ट तैयार करेंगी ;

(ख) अनुसूची में मद 7 की उप मद (घ) के सामने स्तंभ (3) में बहिष्कृत (B) के प्रकार पर निम्नलिखित बहिष्कृत रखी जाएगी, अर्थात्:-

"(अ) राष्ट्रीय राजमार्गों का 100 किमीमीटर से अधिक विस्तार जिसमें अधिकतम 40 मीटर से अधिक विद्यमान सड़कों पर और पुनः सड़कों का इमजनी पर 60 मीटर क्षेत्रधिकार का मूनि अर्जन अंतर्भूत है ।"

[फा.सं.21-270/2009-आई.ए.111]

अन्य त्पान्ने, संयुक्त सचिव

टिप्पण : मूल नियम समेत के राजपत्र अध्यापन, भाग II, संड 3, उपसंड (अ) में अधिसूचना सं. का.अ. 1533(अ), तारीख 14 सितंबर, 2006 द्वारा एकत्रित किए गए थे और अत्यवस्था निम्नानुसार संशोधित किए गए :

1. का.अ. 1733(अ), तारीख 11 अक्तूबर, 2007;
2. का.अ. 3087(अ), तारीख 1 दिसंबर, 2009;
3. का.अ. 695(अ), तारीख 4 अप्रैल, 2011;
4. का.अ. 2898 (अ), तारीख 13 दिसंबर, 2012; और
5. का.अ. 874(अ), तारीख 13 मार्च, 2013

MINISTRY OF ENVIRONMENT AND FORESTS NOTIFICATION

New Delhi, the 22nd August, 2013

S.O. 2559(E).- Whereas by notification of the Government of India in the Ministry of Environment and Forests vide number S.O.1533(E), dated the 14th September, 2006 issued under sub-section (1) and clause (v) of sub-section (2) of section (3) of the Environment (Protection) Act, 1986 read with clause (d) of sub-rule (3) of rule 5 of the Environment (Protection) Rules, 1986, the Central Government directed that on and from the date of its publication, the required construction of new projects or activities or the expansion or modernization of existing projects or activities listed in the Schedule to the said notification entailing the capacity addition with change in process or technology and/or product mix shall be undertaken in any part of India only after prior environmental clearance from the Central Government or as the case may be, by the State level Environment Impact Assessment Authority, duly constituted by the Central Government under sub-section (2) of section 3 of the said Act, in accordance with the procedure specified therein;

And whereas the Government of India in the Ministry of Environment and Forests had constituted a High Level Committee under the Chairmanship of Member (Environment and Forests and Science and Technology), Planning Commission, vide OM No.21-270/2009-LA.III dated the 11th December, 2012 to review the provisions of Environmental Impact Assessment Notification, 2006 relating to granting Environmental Clearances for Roads, Buildings and Special Economic Zone projects and provisions under the OM dated the 7th February, 2012 issued by the Ministry of Environment and Forests regarding guidelines for High Rise Buildings;

And whereas one of the terms of reference (ToR) of the Committee was to review the requirement of Environmental Clearance for Highway expansion projects up to the right of way of 60 meters and length of 200 kms under Environmental Impact Assessment notification,

And whereas the Committee has submitted its report to the Ministry and on this ToR, the Committee has recommended exempting highway expansion projects from the requirement of scoping and that Environmental Impact Assessment or Environment Management Plan for highway expansion projects may be prepared on the basis of model ToRs to be posted on Ministry's website and in respect of requirement of environmental clearance, the Committee has recommended that expansion of National Highway projects up to 100 kms involving additional right of way or land acquisition up to 40 mts on existing alignments and 60 mts on re-alignments or by-passes may be exempted from the purview of the notification;

And whereas the report of the Committee has been examined in the Ministry of Environment and Forests, further, vide notification S.O. 3067(E), dated the 1st December 2009 all State Highway expansion projects, except those in hilly terrain (above 1000 m AMSL) and ecologically sensitive areas, have already been exempted from the purview of the Environmental Impact Assessment notification, 2006.

And whereas, keeping inter-alia in view the foregoing, the Ministry of Environment and Forests has decided to accept the aforesaid recommendations of the High Level Committee constituted vide OM No 21-270/2008-IA.III, dated the 11th December 2012;

Now, therefore in exercise of the powers conferred by sub-section (1) and clause (v) of sub-section (2) of section 3 of the Environment (Protection) Act, 1986 (29 of 1986) read with sub-rule (4) of rule (3) of the Environment (Protection) Rules, 1986, the Central Government hereby makes the following further amendment to the notification of the Government of India, in the Ministry of Environment and Forests number S.O. 1533(E), dated the 14th September, 2006 after having dispersed with the requirement of notice under clause (a) of sub-rule (3) of the said rule 3 in public interest, namely:—

2. In the said notification, —

(a) in paragraph 7, in sub-paragraph II, for item (i), the following item shall be substituted, namely:—

"(i) "Scoping" refers to the process by which the Expert Appraisal Committee in the case of Category 'A' projects/activities, and State level Expert Appraisal Committee in the case of Category 'B' projects/activities, including applications for expansion or modernisation or change in product mix of existing projects or activities, determine detailed and comprehensive Terms of Reference (TOR) addressing all relevant environmental concerns for the preparation of an Environment Impact Assessment (EIA) Report in respect of the project or activity for which prior environmental clearance is sought and the Expert Appraisal Committee or State level Expert Appraisal Committee concerned shall determine the terms of reference on the basis of the information furnished in the prescribed application Form I or Form IA including terms of reference proposed by the applicant, a site visit by a sub-group of Expert Appraisal Committee or State level Expert Appraisal Committee concerned only if considered necessary by the Expert Appraisal Committee or State Level Expert Appraisal Committee concerned, terms of Reference suggested by the applicant if furnished and other information that may be available with the Expert Appraisal Committee or State Level Expert Appraisal Committee concerned;

Provided that the following shall not require Scoping:—

- (i) all projects and activities listed as Category 'B' in item 8 of the Schedule (Construction or Township or Commercial Complexes or Housing);
- (ii) all Highway expansion projects covered under entry (ii) of column (3) and column (4) under sub-item (f) of item 7 of the Schedule.

Provided further that—

- A. the projects and activities referred to in clause (i) shall be appraised on the basis of Form I or Form IA and the conceptual plan;
- B. The projects referred to in clause (ii) shall prepare EIA and EMP report on the basis of model TOR specified by Ministry of Environment and Forests;

(b) in the Schedule, against sub-item (f) of item 7, in column (3), for the entry (ii), the following entry shall be substituted, namely:—

- "(ii) Expansion of National Highways greater than 100 km involving additional right of way or land acquisition greater than 40m on existing alignments and 60m on re-alignments or by-passes."

[F No. 21-270/2008-IA.III]

ANAY TYAGI, Jt. Secy.

Note: The principal rules were published in the Gazette of India, Extraordinary, Part II, Section 3 Sub-section (ii) vide notification number S.O. 1533(E), dated the 14th September, 2006 and subsequently amended as follows:—

1. S.O. 1737 (E), dated the 11th October, 2007;
2. S.O. 3067 (E), dated the 1st December, 2009;
3. S.O. 495 (E), dated the 4th April, 2011;
4. S.O. 2808 (E), dated the 13th December, 2012; and
5. S.O. 474(E), dated the 13th March, 2013

Full Title of the proposal: Additional Forest land requirement of 11.7936 ha. for four laning of proposed Shimla Bypass from Kaithlighat to Shakral Section (Package-I) of NH-22 (Chainage from Km. 128.835 to Km. 146.300) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 128.835 to Km. 156.560) of NH-22 for 40.3 ha. in the State of Himachal Pradesh.

File No. : FP/HP/ROAD/151117/2022


Date of Proposal: 13th January, 2022

CHECK LIST SERIAL NO. - 25

**NOC OF THE STATE POLLUTION CONTROL BOARD FOR
ESTABLISHMENT OF THE PROJECT**

(Not Applicable)

Date : 11-04-2022
Place : Shimla


Project Director
National Highways Authority of India
Project Implementation Unit (PIU)
Shimla, Himachal Pradesh

S.K. Sharma
GM (T)-cum-Project Director
NHAI, PIU-Shimla

Full Title of the proposal:- Additional Forest land requirement of 11.7936 ha. for four laning of proposed Shimla Bypass from Kaithlighat to Shakral Section (Package-I) of NH-22 (Chainage from Km. 128.835 to Km. 146.300) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 128.835 to Km. 156.560) of NH-22 for 40.3 ha. in the State of Himachal Pradesh.

File No. : FP/HP/ROAD/151117/2022

Date of Proposal: 13th January, 2022

CHECK LIST SERIAL NO. - 27

DETAILED CATCHMENT AREA PLAN

(Not Applicable)

Date : 19-01-2022
Place : Shimla


Project Director
National Highways Authority of India
Project Implementation Unit (PIU)
Shimla, Himachal Pradesh

S.K. Sharma
GM (T)-cum-Project Director
NHAI, PIU-Shimla

Full Title of the proposal:- Additional Forest land requirement of 11.7936 ha. for four laning of proposed Shimla Bypass from Kaithlighat to Shakral Section (Package-I) of NH-22 (Chainage from Km. 128.835 to Km. 146.300) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 128.835 to Km. 156.560) of NH-22 for 40.3 ha. in the State of Himachal Pradesh.

File No. : FP/HP/ROAD/151117/2022

Date of Proposal: 13th January, 2022

CHECK LIST SERIAL NO. - 28

DETAILED RECLAMATION PLAN

(Not Applicable)

Date : 19.04.2022
Place : Shimla


Project Director
National Highways Authority of India
Project Implementation Unit (PIU)
Shimla, Himachal Pradesh

S.K. Sharma
GM (T)-cum-Project Director
NHAI, PIU-Shimla

Full Title of the proposal:- Additional Forest land requirement of 11.7936 ha. for four laning of proposed Shimla Bypass from Kalthilghat to Shakrol Section (Package-I) of NH-22 (Chainage from Km. 128.835 to Km. 146.300) is already approved FCA case of the entire section from Kalthilghat to Dholli (Chainage from Km. 128.835 to Km. 156.560) of NH-22 for 40.3 Ha in the State of Himachal Pradesh

File No. : FP/HIP/Road/151117/2022

Date of Proposal: 13 Jan, 2022

CHECK LIST SERIAL NO. - 29

COST BENEFIT ANALYSIS

(Attached)

Date : 12/08/2022

Place : Shimla


 महाप्रबन्धक (तकनीकी) / GM(T.)
 एवं परियोजना निदेशक / & Project Director
 भारतीय राष्ट्रीय राजमार्ग प्राधिकरण / N.H.A.I. Office Seal
 पं.का.ई. - शिमला (H.P.)
 National Highways Authority of India
 Project Implementation Unit (PIU)
 Shimla, Himachal Pradesh

COST-BENEFIT ANALYSIS

Full Title of the proposal:- *Additional Forest land requirement of 11.7936 ha. for four lining of proposed Shimla Bypass from Kaithlight to Shukral Section (Package-I) of NH-22 (Chainage from Km. 128.835 to Km. 146.360) is already approved F.C.I. case of the entire section from Kaithlight to Dhalla (Chainage from Km. 128.835 to Km. 156.360) of NH-22 for 40.3 Ha in the State of Himachal Pradesh.*

File No. : FH/HP/ROAD/151117/2022

Date of Proposal: 13 Jan 2022

SHIMLA FOREST DIVISION

Table-A: Cases under which Cost-Benefit Analysis for Forest Diversion are required

SL.no	Nature of Proposal	Applicable / Not Applicable	Remarks
1	All categories of proposals involving forest land upto 20 hectares in plains and upto 5 hectares in hills	Not Applicable	These proposals may be considered in a case to case basis and value judgement
2	Proposal for defence installation purposes and oil prospecting (prospecting only)	Not Applicable	In view of national priority accorded to these sectors, the proposals would be critically assessed to help ascertain that the utmost minimum forest land is diverted for non-forest use
3	Habitation, establishment of industrial units, tourist lodges complex and other building construction	Not Applicable	These activities being detrimental to protection and conservation of forest, as a matter of policy, such proposals would be rarely entertained.
4	All other proposals involving forest land more than 20 hectares in plains and more than 5 hectares in hills including roads, transmission lines, minor, medium and major irrigation projects, hydroprojects, mining activity, railway lines, location specific installations like microwave stations, auto repeater centres, TV towers etc.	Applicable	These are cases where a cost-benefit analysis is necessary to determine when diverting the forest land to non-forest use is in the overall public interest

Table B: Estimation of Cost of Forest Diversion

SL.no	Parameters	Remarks	Description	Amount in lakh Rs
1	Ecosystem services losses due to proposed forest diversion	Economic value of loss of ecosystem services due to diversion of forest shall be the net present value (NPV) of the forest land being diverted as prescribed by the Central Government (MoEF&CC). Note: In case of National Parks the NPV shall be ten (10) times the normal NPV and in case of Wildlife Sanctuary the NPV shall be five (5) times the normal NPV or otherwise prescribed by the Ministry or any other competent authority.	11.7936 ha of forest land to be diverted. NPV Cost of the forest area (11.7936 X 10.69470 lakh/ha) for 50 years. NPV obtained from HP Forest Department website as per revised rates by MoEF&CC vide letter dated 6.01.2022 for Class VI open forest.	126.13
2	Loss of animal husbandry productivity, including loss of fodder	To be quantified and expressed in monetary terms or 10% of NPV applicable whichever is maximum	10% of NPV = 10% x 126.13 lakhs	12.61
3	Cost of human resettlement	To be quantified in monetary terms as per approved R&R plan	No Resettlement in the forest land proposed for diversion of the project	0.00
4	Loss of public facilities and administrative infrastructure (roads, building, schools, dispensary, electric lines, railways etc) on forest land, which would require forest land if these facilities were diverted due to the project	To be quantified and expressed in monetary terms on actual cost basis at the time of diversion	Nil	0.00
5	Preservation value of forest land diverted	30% of environmental costs (NPV) due to loss of forest or circle rate of adjoining area in the district should be added as a cost component as possession value of forest land whichever is maximum	30% of NPV = 30% x 205.31 lakhs	37.84
6	Cost of suffering to onstees	The social cost of rehabilitation of onstees (in addition to the cost likely to be incurred in providing residence, occupation and social services as per R&R plan) be worked out as 1.5 times of what onstees should have earned in two years had he not been shifted	Nil	0.00

महाप्रबंधक (संरक्षण) / GM(T)

एवं परियोजना निदेशक / & Project Director

भारत प्रा. / N.H.A.I.

प.का.ई. - शिमला (हि०प्र०) / PIU-Shimla (H.P.)

Sl.no	Parameters	Remarks	Description	Amount in lakh Rs
7	Habitat fragmentation cost	While the relationship between fragmentation and forest goods and services is complex, for the sake of simplicity the cost due to fragmentation has been pegged at 50% of NPV applicable as thumb rule.	50% of NPV = 50% x 126.13 lakhs	63.06
8	Compensatory Afforestation and soil and moisture conservation cost	The actual cost of compensatory afforestation and soil and moisture conservation and its maintenance in future at present discounted value	CA cost provided by the Forest Department as per CA Scheme	69.70328
Total Estimated Cost				309.35

Table C- Existing guidelines for estimating benefits of forest diversion in CBA

Sl.no	Parameters	Remarks	Description	
1	Increase in productivity attributed to the specific project	To be quantified and expressed in monetary terms avoiding double counting	Benefits of the project to the Economy are in terms of increase in Economic Activity around the Project Area, increase in Per capita income around the Project influence Area, etc.	
2	Benefits to economy due to the specific project	The incremental economic benefit in monetary terms due to the activities attributed to the specific project		5978.376
3	No. of Population benefited due to the specific project	As per Detailed project report	Direct Benefits (Shimla District) Indirect Benefit (H.P. state)	8.14 Lakhs 68.64 Lakhs
4	Economic benefits due to direct and indirect employment due to the project	As per Detailed project report	Around 100 persons will be employed during the construction period, which is 3 years.	
5	Economic benefits due to the compensatory afforestation	Benefits from such Compensatory Afforestation accruing over next 50 years monetised and discounted to the present value should be included in benefits of compensatory afforestation. *For benefits of CA the guideline of the Ministry for NPV estimation may be consulted		
Total Estimated Benefits				5978.38
Ratio of Cost and Benefit				1:19.32

As such after considering the above figures of Cost of the diversion of forest land and the benefits to the economy, the benefits are much more than the cost incurred which makes the Project viable


 महाप्रबंधक (तकनीकी) / GM(T.)
 एवं परियोजना निदेशक / & Project Director
 भारतराष्ट्र / N.H.A.I.
 प्ला.ई. - शिमला (हि.प्र.) / PIU-Shimla (H.P.)

Full Title of the proposal:- *Additional Forest land requirement of 11.7936 ha. for four laning of proposed Shimla Bypass from Kaithlighat to Shakral Section (Package-I) of NH-22 (Chainage from Km. 128.835 to Km. 146.300) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 128.835 to Km. 156.560) of NH-22 for 40.3 ha. in the State of Himachal Pradesh.*

File No. : FP/HP/ROAD/151117/2022

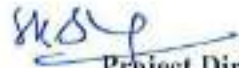
Date of Proposal: 13th January, 2022

CHECK LIST SERIAL NO. - 30

ANY OTHER INFORMATION

(Muck Management Plan)

Date : 19.04.2022
Place : Shimla


Project Director
National Highways Authority of India
Project Implementation Unit (PIU)
Shimla, Himachal Pradesh
S.K. Sharma
GM (T)-cum-Project Director
NHAI, PIU-Shimla

Full Title of the proposal:- Additional Forest land requirement of 11.7936 ha. for four laning of proposed Shimla Bypass from Kaithlighat to Shakral Section (Package-I) of NH-22 (Chainage from Km. 128.835 to Km. 146.300) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 128.835 to Km. 156.560) of NH-22 for 40.3 ha. in the State of Himachal Pradesh.

File No. : FP/HP/ROAD/151117/2022

Date of Proposal: 13th January 2022

CHECK LIST SERIAL NO. – 31

DOCUMENTS / INFORMATION REQUIRED FOR PROPOSALS FOR ROADS, RAILWAY LINES, CANALS AND TRANSMISSION LINES

The following information/documents must be given:-

a) Length and width of Road/Railway line/ Canal/ Transmission line passing through forest and non-forest area.	Shimla Forest Division: Length and width of road passing through forest and non-forest area is annexed as ' <i>Annexure to Checklist Sl. No. 31</i> '.
b) In case of expansion of already existing road/ railway line/canal, linear plan clearly showing in distinct colours the already existing road (<i>from beginning to end</i>), the width of the proposed road/railway line/canal to be expanded, and the remaining width of the Protect Forest strip, if any, which would be left after expansion.	Not Applicable
c) In case of transmission line, the following details may also be given :- i) Number of towers to be erected both in forest and non-forest area. ii) Width of the right of way for transmission line.	Not Applicable

Date : 19-04-2022

Place : Shimla


Project Director
National Highways Authority of India
Project Implementation Unit (PIU)
Shimla, Himachal Pradesh

S.K. Sharma
GM (T)-cum-Project Director
NHAI, PIU-Shimla

Full Title of the proposal:- Additional Forest land requirement of 11.7936 ha. for four laning of proposed Shimla Bypass from Kaithlighat to Shakral Section (Package-I) of NH-22 (Chainage from Km. 128.835 to Km. 146.300) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 128.835 to Km. 156.560) of NH-22 for 40.3 ha. in the State of Himachal Pradesh.

File No. : FP/HP/ROAD/151117/2022

Date of Proposal: 13 Jan 2022

INFORMATION IN RESPECT OF ITEM LENGTH & WIDTH

- | | | | |
|----|---|---|--------------------------------|
| 1. | Total length of road already acquired | – | 17.465 km |
| 2. | Total length of additional widening along the road | – | 7.508 km |
| 3. | Length of additional widening passing through forest | – | 3.049 km |
| 4. | Length of additional widening passing through non forest | – | 4.459 km |
| 5. | Width of additional widening along the road | – | Varies from
1.89m to 45.85m |
| 6. | Length of the road already existing/constructed out of the total length involved in the project | – | NIL |

Date: 19.04.2022

Place: Shimla

S.K. Sharma Project Director
National Highways Authority of India
Project Implementation Unit (PIU)
Shimla, Himachal Pradesh

S.K. Sharma
GM (T)-cum-Project Director
PIU-Shimla

Full Title of the proposal:- Additional Forest land requirement of 11.7936 ha. for four laning of proposed Shimla Bypass from Kaithlighat to Shakral Section (Package-I) of NH-22 (Chainage from Km. 128.835 to Km. 146.300) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 128.835 to Km. 156.560) of NH-22 for 40.3 ha. in the State of Himachal Pradesh.

MUCK MANAGEMENT PLAN

1. INTRODUCTION

The project envisages four laning of proposed Shimla Bypass from Kaithlighat to Shakral Section (Package-I) of NH-22 (Chainage from Km. 128.835 to Km. 146.300) including construction of two twin-tube tunnels of 1895 m. Large quantity of material would be excavated during construction. As the project road is located in a hilly terrain, the muck generated from the excavation 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 muck generation, muck disposal sites, site selection criteria, stabilization measures and adequate disposal and management guidelines along with cost estimate for management of muck generated from the project have been discussed in the following sections.

2. MUCK GENERATION

In the proposed project, muck generation is expected to be generated as a result of tunneling operations and construction of road. The component wise muck generation from the project activity is given in Table-1.

Table-1: Abstract of Muck generated and its disposal

Project component	Quantity of Muck generated (Cum)		Quantity of Muck due to swell factor (Cum)		Estimated Quantity of Muck Proposed to be utilized (Cum)		Balance quantity of Muck (Cum)		Effective Muck to be disposed (Cum) after rolling	Capacity of the Muck Disposal sites (Cum)
	Rock (41%)	Soil (59%)	Rock (5%)	Soil (3%)	Rock (39%)	Soil (100%)	Rock (61%)	Soil (0%)		
Road work	946049	1361387	993351	1402229	385454	1402229	607897	-	516712	994740
	Rock (4%)	Soil (96%)	Rock (5%)	Soil (3%)	Rock (0%)	Soil (69%)	Rock (100%)	Soil (31%)		
Tunnel	21650	519601	22732	535189	-	367565	22732	167624	161803	
Total Qty (M ³)=	967699	1880988	1016083	1937418	385454	1769794	630629	167624	678515	994740

Source-DPR Study

During construction of the various components of the project road, muck is generated both from soil and from rock excavation. Total quantity of muck / debris, generated from the project, shall be 28,48,687 cum which shall amount to 29,53,501 cum with swell factor. Out of the total muck

generated, 21,55,248 cum shall be utilized on project work leaving 6,78,515 cum of muck to be dumped after rolling at designated sites. The muck 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 balance quantity of muck as shown in Table-1 shall have to be disposed off in designated sites and the muck shall be properly roller. The muck disposal sites shall also be properly protected and stabilized with Gabions Walls of suitable designed sections.

3. MUCK DISPOSAL SITES

9 muck disposal sites of total area 10.7471 ha. have been designated for muck disposal from the proposed project. Out of the 9 sites, D-1 at Suroh and part of D-9 at Mehli is already acquired. 4.3894 Ha of the muck disposal sites to be acquired is forest area and 4.5902 Ha. is non-forest area. The details of muck disposal sites along with their capacity are given in Table-2.

Table-2: Details of Muck Disposal Sites

Muck Disposal Site No.	Chainage	Village	Already Acquired Area (Ha.)	To be Acquired		Total Area (Ha.)	Capacity of Muck Sites in Cum	Volume of Muck to be disposed (in Cum)
				Forest Area (Ha.)	Non-Forest Area (Ha.)			
D-1	128+835	Suroh	1.3970			1.3970	183228	678515
D-2	130+800	Shogi		1.9082	0.5473	2.4555	280552	
		Goru Kanawan		0.6620	0.0000	0.6620		
D-3	132+150	Goru Kanawan		0.0000	0.0241	0.0241	41261	
		Mauri		0.5785	0.2412	0.8197		
D-4	132+280	Goru Kanawan		0.0000	0.4840	0.4840	45631	
D-5	136+700	Yaan		0.1061	0.4978	0.6039	77522	
D-6	140+100	Up Mahal Majhar		1.0912	0.2777	1.3689	101612	
D-7	142+950	Jalf		0.0000	1.1126	1.1126	39580	
D-8	142+600	Up Mahal Gusan		0.0434	0.8101	0.8535	149774	
D-9	145+300	Mehli	0.3705	0.0000	0.5954	0.9659	75579	
		Total	1.7675	4.3894	4.5902	10.7471	994740	678515

Land verified by CALA

It may be seen from the Table above that the capacity of the muck disposal sites is 9.94 lakh cum and the volume of muck to be disposed off after utilization is 6.79 lakh cum. This states that the capacity of the muck disposal sites exceeds 32% the generated muck volume. All the disposal locations shall be well supported by retaining structures and suitable slope protection measures. The location of the muck disposal sites marked on SOI Toposheet is enclosed as **Annexure I**.

Site selection Criteria

Based on the geological nature of the rocks and engineering properties of the soil, a part of the

muck can be used as construction material. However, the balance requires being suitably disposed. The following points have been considered and followed as guidelines for finalization of the areas to be used as dumping sites:

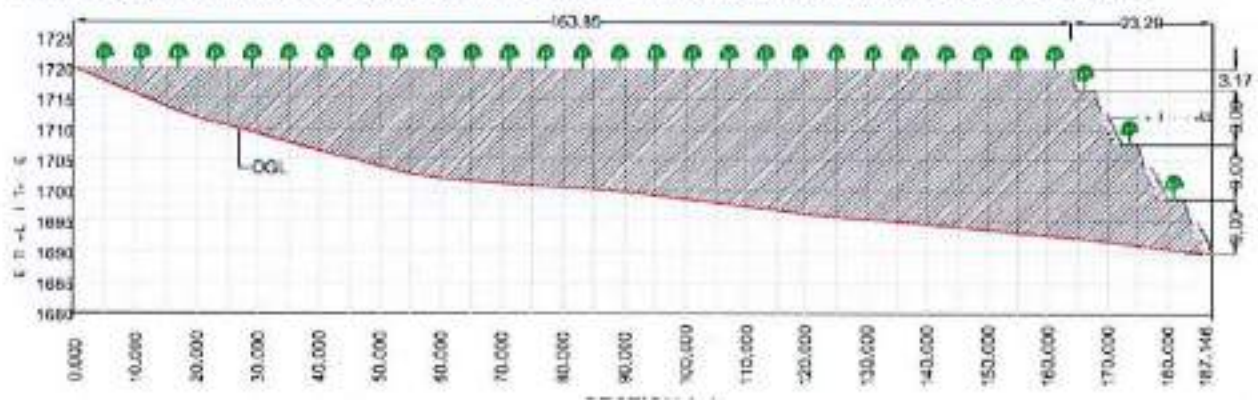
1. The dumping sites shall be selected as close as possible to the project area to avoid long distance transport of muck.
2. The sites shall be free from active landslides or creep and care has to be taken that the sites do not have a possibility of toe erosion and slope instability.
3. Existing slope of the site shall not be preferably more than 30°.
4. The dumping sites shall be either at higher level than the flood level or shall be away from the river course so that the possibility of muck falling into the river is avoided.
5. There shall be no active channel or stream flowing through the dumping sites.
6. Disposal areas shall be planned downwind of villages and townships in consultation with the forest department.
7. Wind direction shall be taken into consideration so as to avoid the erosion i.e. on wind shadow region.
8. These sites shall not be pristine habitats containing endangered /threatened species.
9. Dumping site shall be located preferably 500 m from the river/stream/nullah
10. Dumping site shall not be located in Protected Areas.

Stabilization of Muck disposal site

The loosely held muck 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 muck disposal involves both engineering and biological measures that depend on the eco-climatic conditions.

I) Engineering Measures:

The muck shall be disposed off 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 the figure below.



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

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 muck 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 vahili*, *Jasminum humile*, *Rubus ellipticus*, *Prinsepia utilis*, *Justicia adhatoda*, *Ipomea carnea*, *Hypericum oblongifolium*, *Mimosa himalayana*, *Salix denticulate*, *Woodfordia fruticosa*, *Alnus nepalensis* etc.



Slope Protection using Bio engineering techniques

Guidelines on Muck disposal Management

1. The muck shall be dumped preferably in the form of terraces and slope of dumped muck shall not exceed 35° and preferably shall be kept under 30° or 1:2.
2. Fencing shall be done to prevent human / animal interference
3. Dumping shall not obstruct the natural drainage pattern
4. Trees shall be retained along the contours wherever feasible so as not to disturb the natural slope.
5. Protection walls shall be constructed along the contours prior to dumping
6. Before dumping the muck chemical analysis shall be done to identify hazardous material if any. The same shall be managed as per Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016. In case hazardous materials like radioactive elements, high arsenic or fluoride laden rocks are found they shall not be dumped into the dumping site and handled as per prescribed rules.
7. Settling channels may be constructed, if required, along the protection walls that will be connected to a storage / filtration chamber
8. Muck shall be carried in dumper trucks covered with heavy duty tarpaulin properly tied to the vehicles
9. Dumping may be avoided during the rainy season, to avoid slipping of muck while dumping
10. 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.
11. 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 dumpsites are filled, these sites shall be rehabilitated by covering it with 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.

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
Trees	
<i>Populus ciliata</i>	Poplar
<i>Pinus roxburghii</i>	Chir
<i>Cedrus deodara</i>	Deodar
<i>Salix acutifolia</i>	Bhains
<i>Cassia fistula</i>	Amaltas
<i>Pinus wallichiana</i>	Kail, Blue pine
Shrubs	
<i>Artemisia nilgarica</i>	Kunja
<i>Berberis aristata</i>	Kingor
<i>Berberis lyceum</i>	Kingor
<i>Tecoma stans</i>	Tecoma
<i>Hibiscus rosa-sinensis</i>	Gurhal

5. BUDGET

A budget of 9 crores has been earmarked towards management muck as per components listed below.

Item No.	Descriptions
A	Removal of muck from various locations including loading, unloading and disposal at site up to average lead of 10 km.
B	Gabion wall with terracing as applicable for protection. (i) Providing & making Gabion structure with Mechanically Woven Double Twisted Hexagonal Shaped Wire mesh Gabion Boxes as per IS 16014:2012, MORTH Clause 2500, of required size, Mesh Type 10x12 (D=100 mm with tolerance of $\pm 2\%$) Zinc coated, Mesh wire diameter 3.0 mm, mechanically edged/selvedged with partitions at every 1m interval and shall have minimum 10 numbers of openings per meter of mesh perpendicular to twist, tying with lacing wire of diameter 2.2mm, supplied @ 3% by weight of Gabion boxes, filled with boulders with least dimension of 200 mm, as per drawing, all complete as per direction of Engineer-in-charge.
	(ii) Terracing
C	Levelling, Rolling and Landscaping of top surface in slope as required of disposed soil at dumping site, all complete as per direction of Engineer.
D	Furnishing and laying of the live sods of perennial turf forming grass on embankment slope, verges or other locations shown on the drawing or as directed by the engineer including preparation of ground, fetching of sods and watering.
E	Providing, laying and spreading of 15 cm top soil layer for vegetation.
F	Stabilization of slope and Eco-restoration of disposed muck with Bio-Engineering techniques for development of vegetation.

• • •

No. H43F4
Scale 1:50,000



भारतीय सर्वेक्षण विभाग
SURVEY OF INDIA

CONVENTIONAL SYMBOLS

[illegible]

NOTES :-
(Please complete each item)

The Transatlantic Express and its companion in class about have just been subjected to the harshest of the test – the "leak test" – which will, very soon be able to be completed with them.

Transatlantic Express, in this class, is a very reliable vessel, and is able to deliver.

Transatlantic Express, in this class, is a very reliable vessel, and is able to deliver.

A double engine, 400, represents the best of the class in terms of between the top and bottom of a

long trip.

Transatlantic Express is a very reliable vessel, and is able to deliver.

COMPLAINTS INDEX



Projection - UTM Datum - WGS 84

Magnetic Variation from True North about 1° East in 2000.
(Increasing to about 1° annually).

1:50,000

CONFIRMATION OF RECEIPT

For further details about the work please contact
Director

Ministry of Environment and Forests
Survey of India, Sector 22 A

Conclusion: The results of this study suggest that the use of a single, standardized, and validated questionnaire is a feasible and reliable method for assessing the prevalence of mental health problems in a community sample.

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the written permission of Survey of India, the

Mapping Agency:

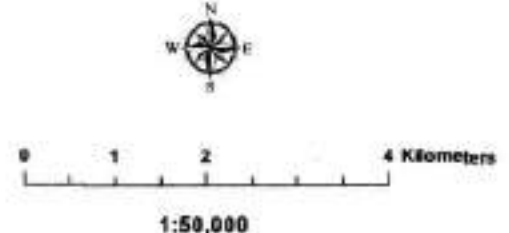
Journal of Health Politics, Policy and Law

Legend

- Chainage
- Alingment
- Muck Site

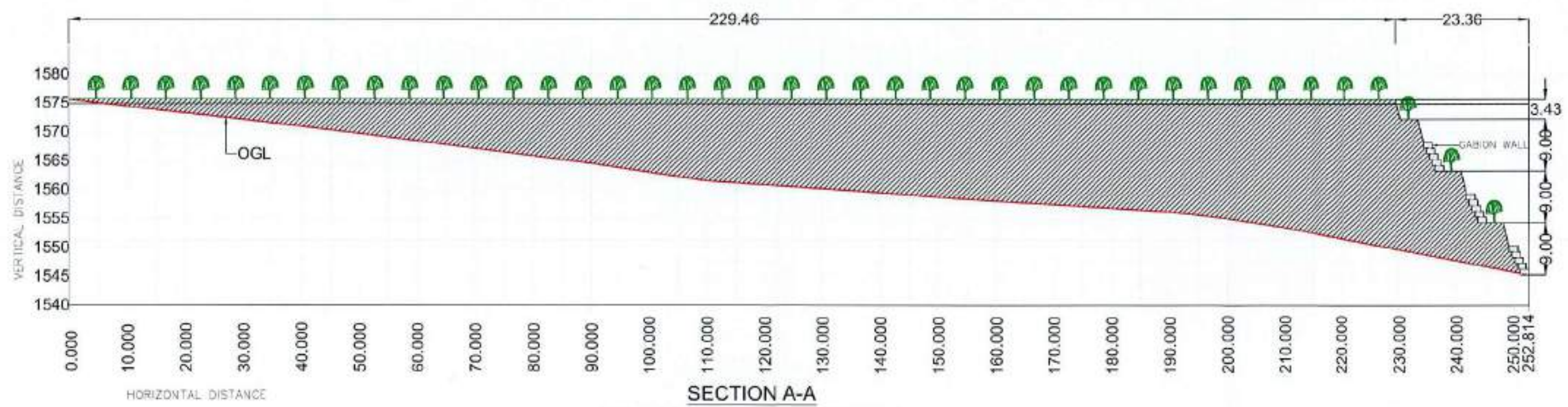
c/s 
Divisional Forest Officer
Shimla Forest Division
SHIMLA

S.K. Sharma
S.K. Sharma
GM (IT)-cum-Project Director
NMAI, PIU-Shimla



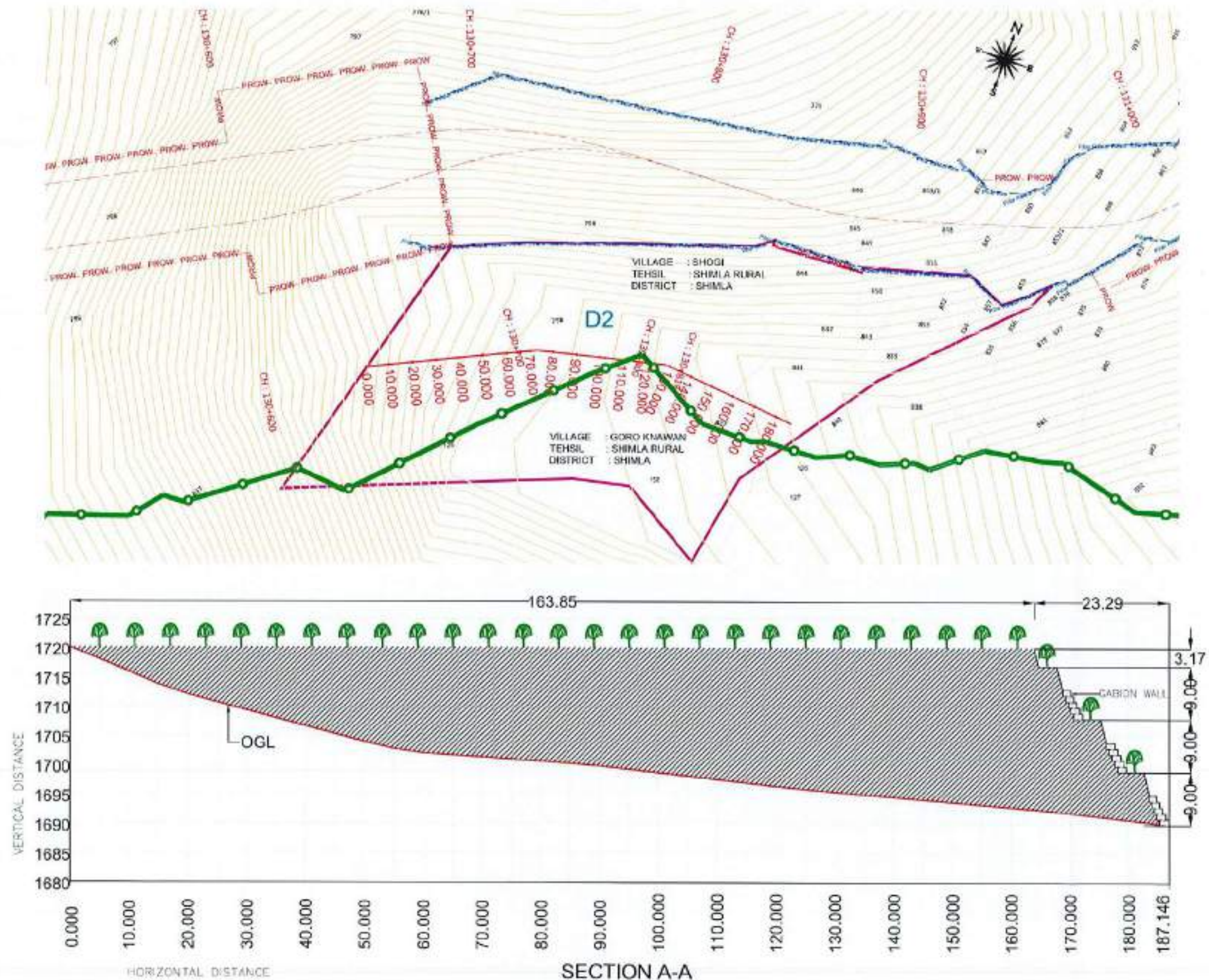
Package-1

Additional Forest land requirement of 11.7944 ha. for four laning of proposed Shimla Bypass from Kaithlighat to Shakral Section (Package-I) of NH-22 (Chainage from Km. 128.835 to Km. 146.300) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 128.835 to Km. 156.560) of NH-22 for 40.3 Ha in the State of Himachal Pradesh.

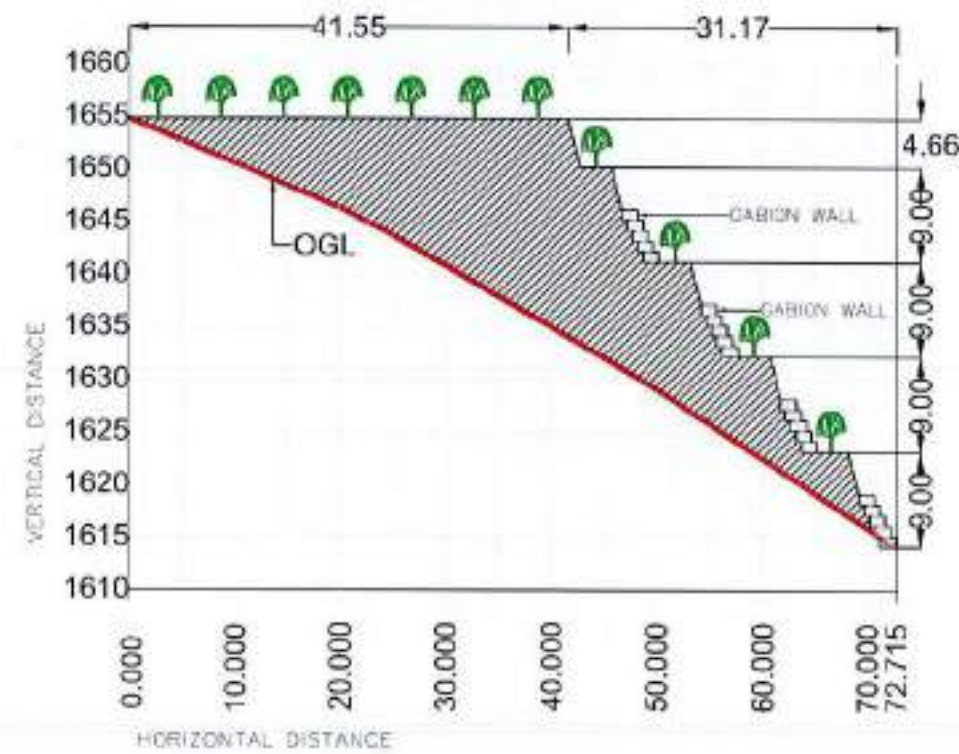
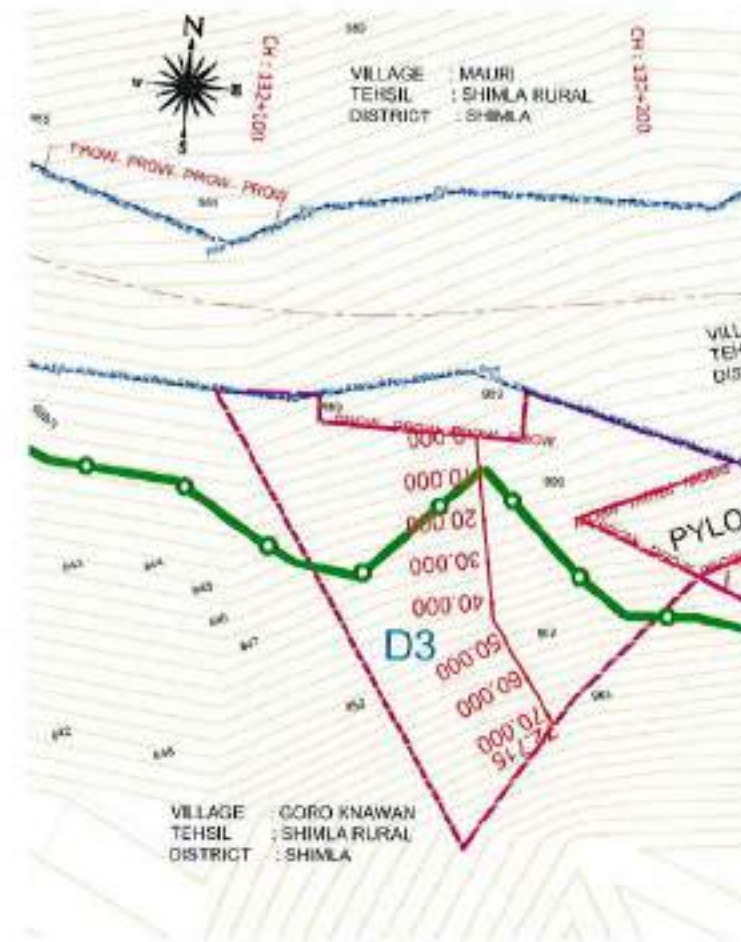


SECTION A-A
LONGITUDINAL PROFILE OF D1
QUANTITY = 183228.3 CUM

S.K. Sharma
GM (T)-cum-Project Director
NHAI, PIU-Shimla

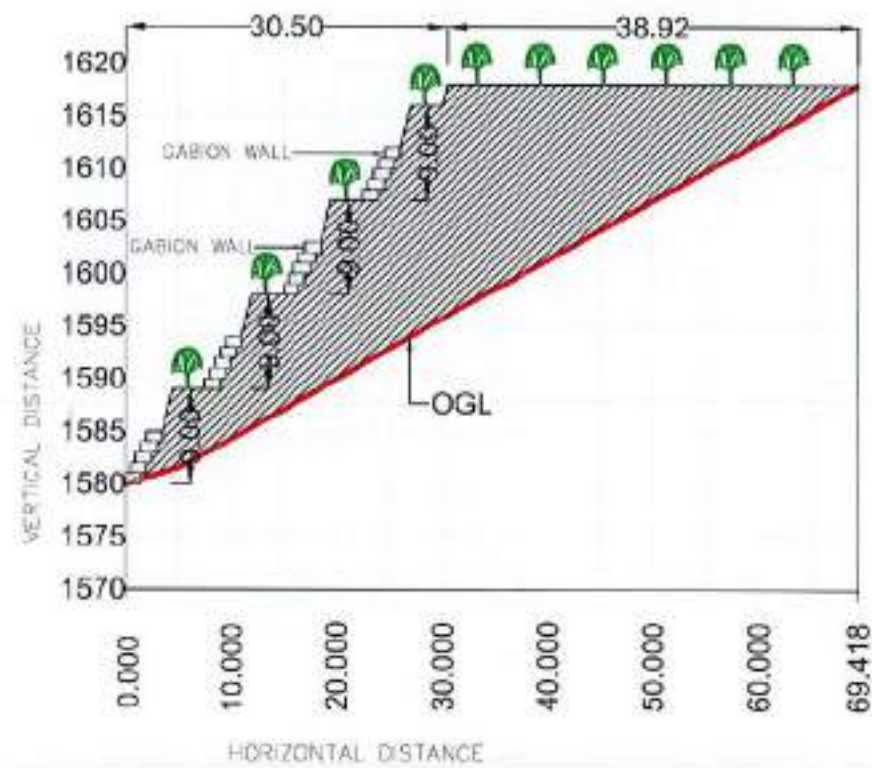
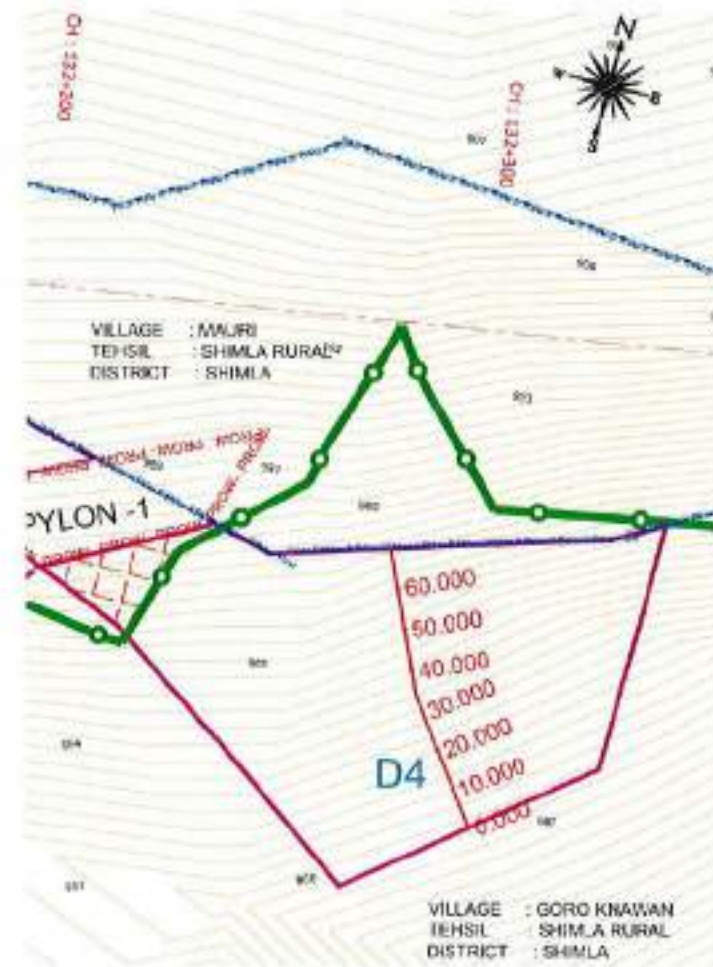


S.K. Sharma
S.K. Sharma
GM (T)-cum-Project Director
NHAI, PIU-Shimla



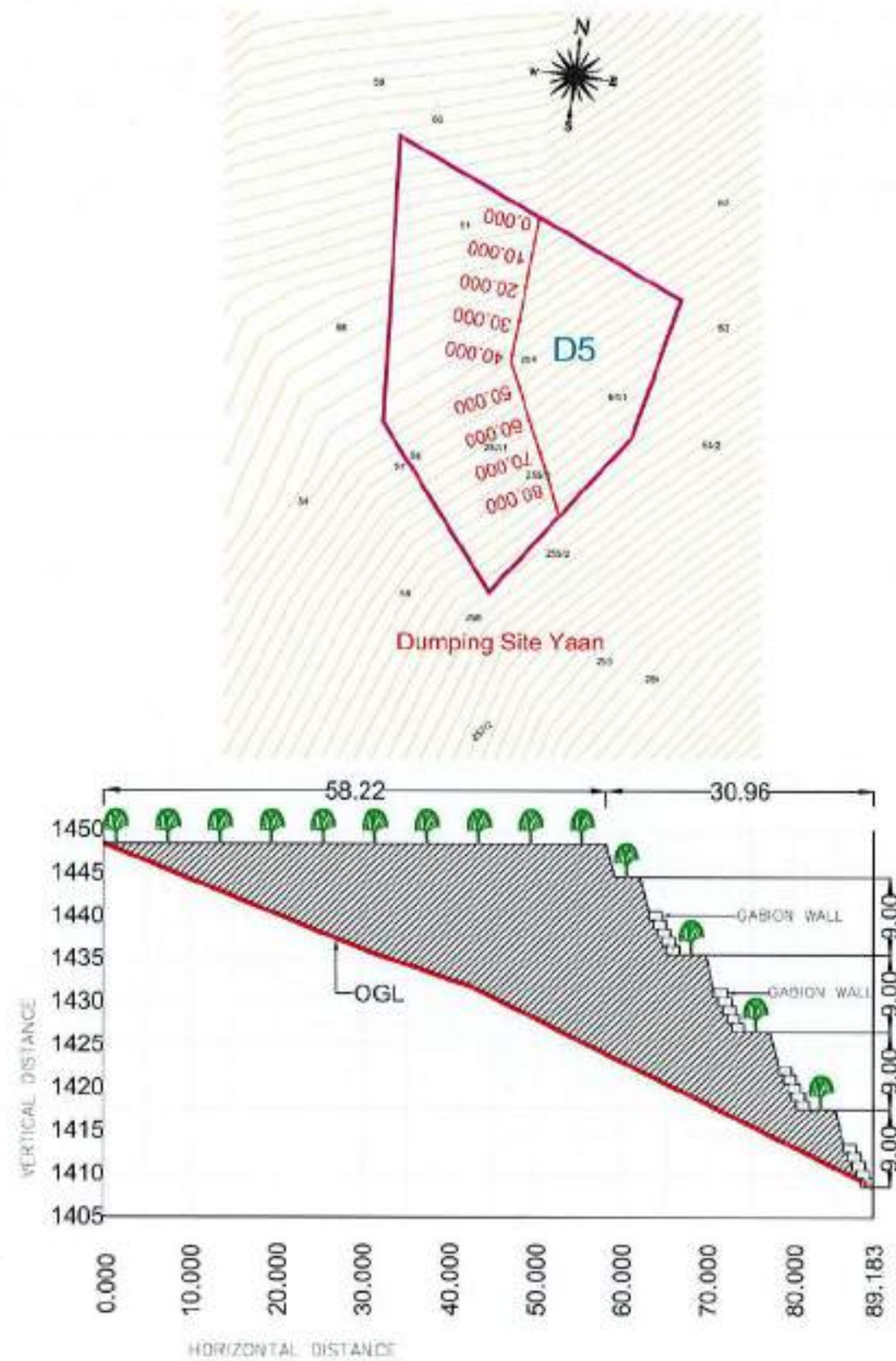
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LONGITUDINAL PROFILE OF D3
QUANTITY = 41261.4 CUM

S.K. Sharma
GM (T)-cum-Project Director
NHAI, PIU-Shimla



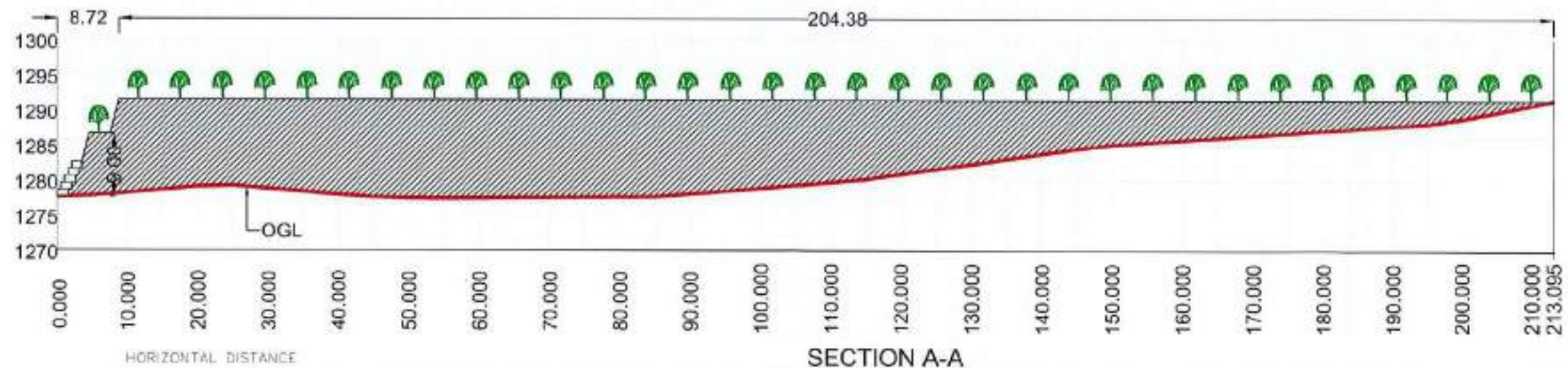
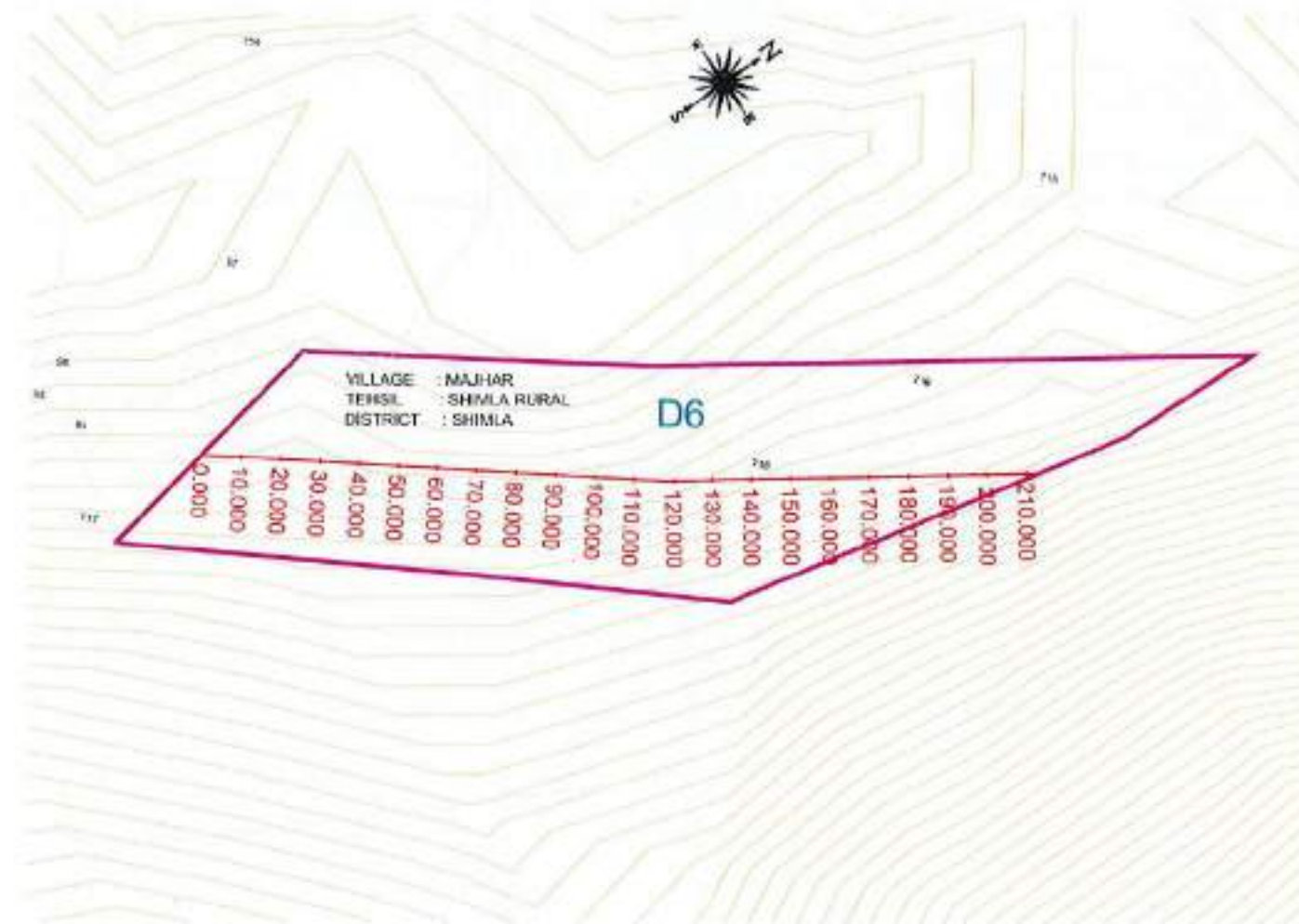
SECTION A-A
LONGITUDINAL PROFILE OF D4
QUANTITY = 45631.4 CUM

S.K. Sharma
S.K. Sharma
GM (T)-cum-Project Director
NHAI, PIU-Shimla



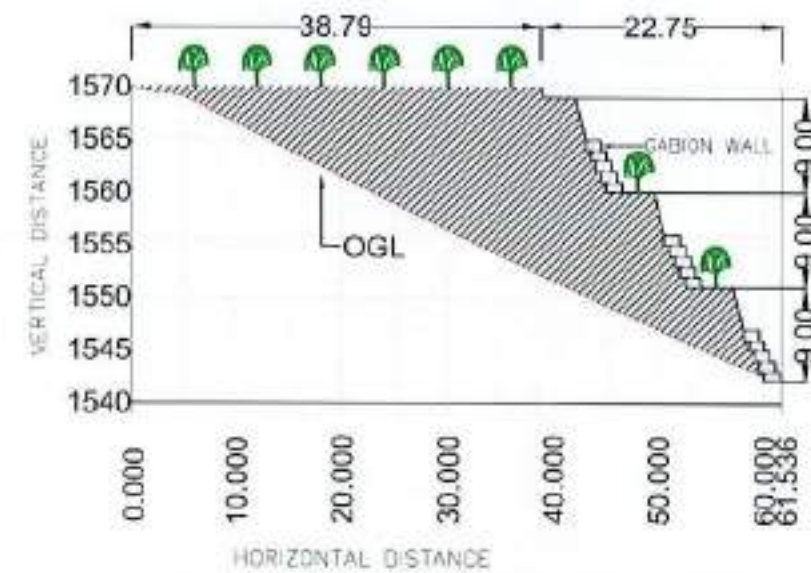
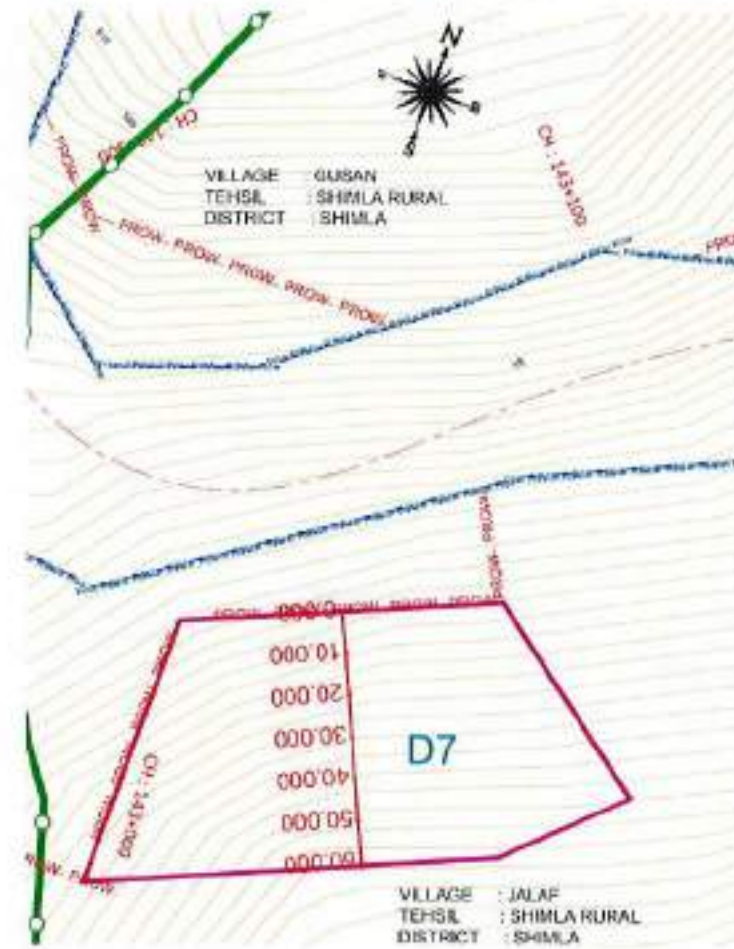
SECTION A-A
 LONGITUDINAL PROFILE OF D5
 QUANTITY = 77522.0 CUM

S.K. Sharma
 GM (T)-cum-Project Director
 NHAI, PIU-Shimla



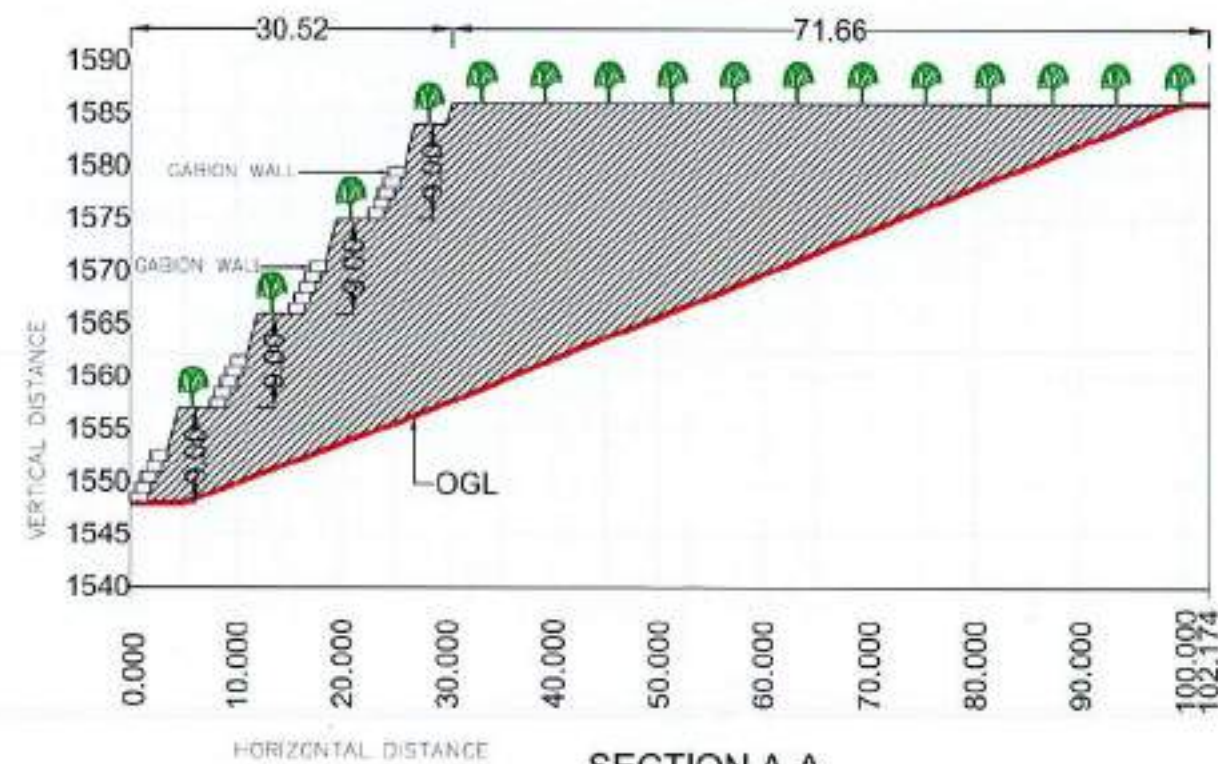
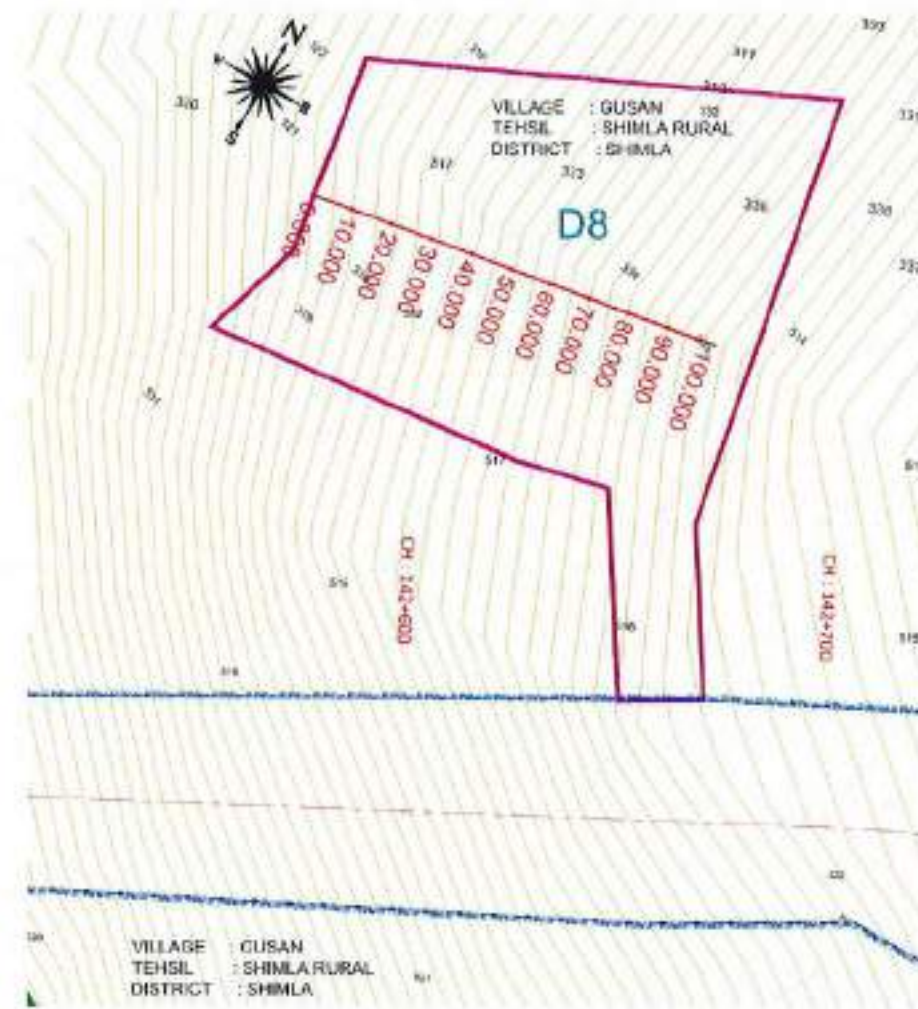
SECTION A-A
LONGITUDINAL PROFILE OF D6
QUANTITY = 101611.6 CUM

S.K. Sharma
GM (T)-cum-Project Director
NHA, PIU-Shimla



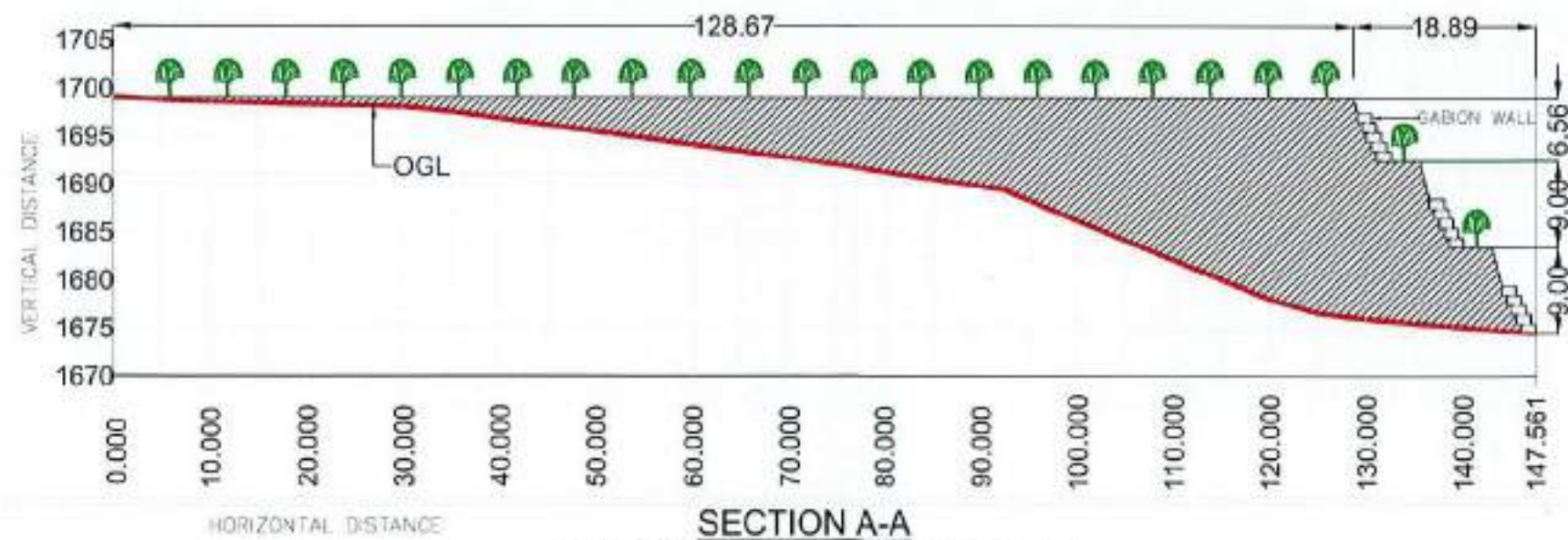
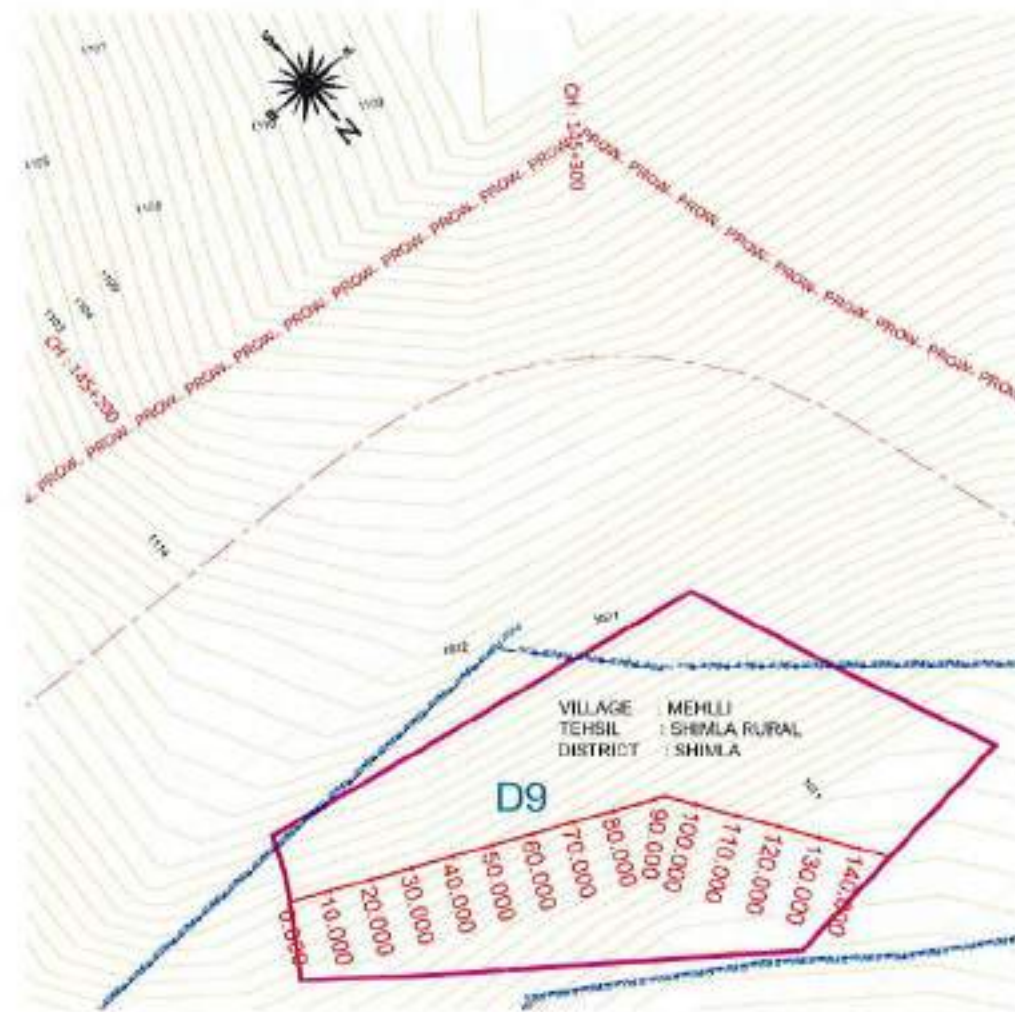
SECTION A-A
LONGITUDINAL PROFILE OF D7
QUANTITY = 39579.9 CUM

S.K. Sharma
GM (T)-cum-Project Director
NHAI, PIU-Shimla



SECTION A-A
LONGITUDINAL PROFILE OF D8
QUANTITY = 149774.4 CUM

S.K. Sharma
GM (T)-cum-Project Director
NHAI, PIU-Shimla



SECTION A-A
LONGITUDINAL PROFILE OF D9
QUANTITY = 75578.8 CUM

S.K. Sharma
GM (T)-cum-Project Director
NHAI, PIU-Shimla

No. WLM-102/ 5671
H.P. Forest Department,

Dated Shimla, the 2-02-2022

From: **Divisional Forest Officer,
Wildlife Division, Shimla.**

To: **GM (T) - cum- Project Director,
NHAI PIU-Shimla.**

Subject: Additional Forest Land requirement of 11.7943 hac for four laning of proposed Shimla Bypass from Kaithlighat to Shakral Section (Package-1) of NH-22 (Chainage from Km. 128.835 to km. 146.300) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 128.835 to Km. 156.560) of NH-22 for 40.3 hac hac in the State of Himachal Pradesh - Reg. compliance of the observations raised by Nodal Officer, Shimla.

Sir,

Kindly reference to your letter No. 11013/312012/K-D/Forest/PIU-SML/2661 dated 29-01-22 on the subject cited above.

2. As per report sent by Range Forest Officer, SWC, Dhalli the aerial distance of the proposed above site is approx. **3.69 Km.** from Shimla Water Catchment Wildlife Sanctuary and the aerial distance from Eco Sensitive Zone Shimla Water Catchment is approx. **2.79 Km.** and there is no adverse impact on Wildlife from this proposed site.

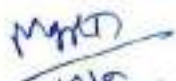
This is for favour of your kind information and further necessary action please.

Note:

This is only distance certificate and cannot be treated as NOC.

Yours sincerely,


**Divisional Forest Officer,
Wildlife Division, Shimla.**


M.K.D.
2.2.22

Full Title of the proposal:- Additional Forest land requirement of 11.7936 ha. for four laning of proposed Shimla Bypass from kaithlighat to Shakral section (Package-I) of NH-22 (Chainage from Km.128.835 to Km. 146.300) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km.128.835 to Km. 156.560) of NH-22 for 40.3 Ha in the State of Himachal Pradesh.

File No. : FP/HP/ROAD/151117/2022

Date of Proposal: 13 Jan 2022

Certificate of Population to be benefitted

List of Villages, Tehsil-Shimla (Rural), District-Shimla

Sr. No.	Name of village	Village Code	Population
1.	Shoghi	95	1256
2.	Goro- Kanwan	126	357
3.	Mauri	96	566
4.	Bhog	125	346
5.	Bharob	124	96
6.	Ranghav	132	126
7.	Bhad	122	243
8.	Chadau	121	111
9.	Pujarli	116	380
10.	Up Mohal Majhar	118	144
11.	Up Mohal Kwalag	118	322
12.	Up Mohal Jadech	117	69
13.	Up Mohal Gusaan	117	165
14.	Jalaf	383	28
15.	Mehlli	113	1523
16.	Shakral	381	742
17.	Yaan	134	151
18.	Kot	133	288
19.	Banadi	123	132

Source: Directorate of Census Operations, Himachal Pradesh

Place: SHIMLA

Date: 17/01/2022

(Signature)

Sub-Divisional Officer (C)
Sub - Division Shimla
Dist. Shimla, H.P.

Office Seal.....