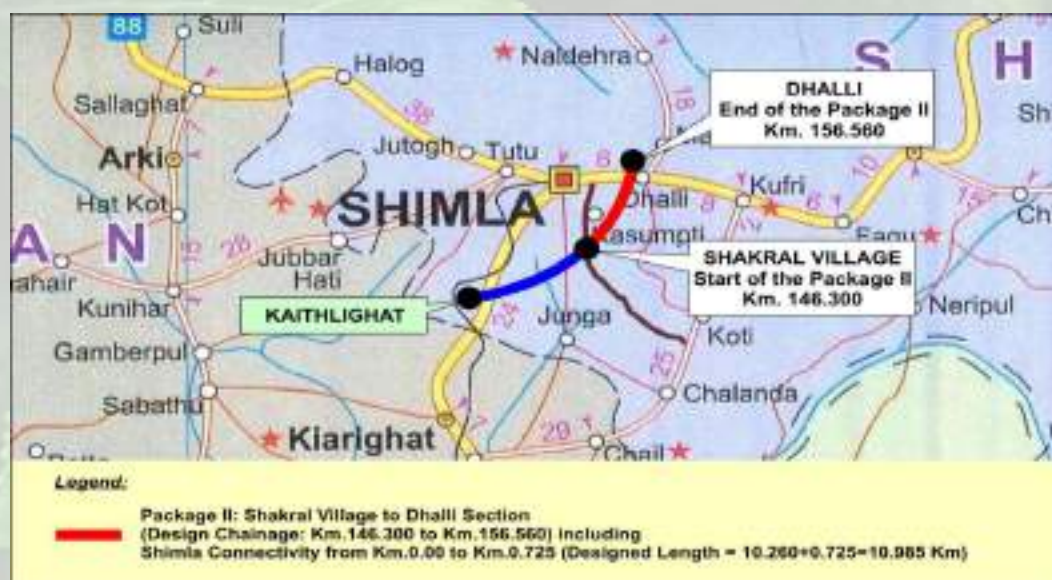


**National Highways Authority of India
(Ministry of Road Transport & Highways)**

Additional Forest Land requirement for four laning of NH-05 from Shakral Village to Dhalli section (Shimla Bypass Package II from Km 146+300 to Km 156+560 and Shimla Connectivity from Km 0+000 to Km 0+725 for Design length – 10.985 Km) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 129.050 to Km. 156.507) of NH-22 (New NH-05) for 40.3 Ha in the State of Himachal Pradesh.

**Form for Seeking Prior Approval under Section- 2 for Forest
Diversion under Forest Conservation Act, 1980
For**

Shimla (Urban) Forest Division, Himachal Pradesh



Forest Proposal Number: FP/HP/ROAD/154923/2022

Date of Online Application: April 27, 2022

Submitted To

Divisional Forest Officer,
Shimla Urban
Shimla
Himachal Pradesh

Submitted by

Project Director, NHAI
Project Implementation Unit, Shimla
H.No.1, Rishikesh Sadan, Chakkar,
Shimla, HP - 171005

July, 2022

CHECKLIST Sl. No. 1

CHECK LIST
OF
DOCUMENTS/INFORMATION REQUIRED FOR PROPOSAL FOR DIVERSION
OF FOREST LAND FOR NON FORESTRY USE UNDER FOREST
(CONSERVATION) ACT, 1980.

Full Title of the proposal:- Additional Forest Land requirement for four laning of NH-05 from Shakral Village to Dhalli section (Shimla Bypass Package II from Km 146+300 to Km 156+560 and Shimla Connectivity from Km 0+000 to Km 0+725 for Design length – 10.985 Km) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 129.050 to Km. 156.507) of NH-22 (New NH-05) for 40.3 Ha in the State of Himachal Pradesh.

File No. : FP/HP/ROAD/154923/2022

Date of Proposal: 27th April, 2022

CHECK-LIST SERIAL NO.-01

SHIMLA (URBAN) FOREST DIVISION


I Documents/Information Required for All Proposals				
S. No.	Name of document(s)	Provided or not	If not provided why?	Page Number
1.	Check list of project proposal.	Yes		
2.	Demand letter of the project authority/applicant, if submitted.	Yes		
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		
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		
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		
6.	Layout plan of project site approved by competent authority. In case of linear diversion of forest land, linear map or a	Yes		

महप्रबंधक (संवर्धन) / CM (F)
एवं परियोजना निदेशक / Project Director
भारत राष्ट्रीय / N.H.A.
पंजाब - शिमला (हि०प्र०) / P.U.-Shimla (H.P.)

I Documents/Information Required for All Proposals				
S. No.	Name of document(s)	Provided or not	If not provided why?	Page Number
	diagrammatic map of the project site should be enclosed.			
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 (<i>in the prescribed format</i>).	Yes		
8.	Statement showing the details of non-forest area involved in the proposal (<i>in the prescribed format</i>).	Yes		
9.	Certificate from the Collector/Deputy Commissioner that no alternative suitable non-forest land is available for the project in question.	Yes		
10.	Justification for locating the project in forest area to be submitted by User Agency and countersigned by DFO.	Yes		
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 (<i>in the prescribed format</i>).	Yes		
12.	Undertaking by the User Agency to bear the cost of compensatory afforestation duly counter signed by the DFO (<i>in the prescribed format</i>).	Yes		
13.	Undertaking by the User Agency to pay the Net Present Value (NPV) of the forest land involved duly countersigned by DFO (<i>in the prescribed format</i>).	Yes		
	Undertaking by the User Agency to pay the Additional Net Present Value (NPV), if any, of the forest land involved duly countersigned by DFO (<i>in the prescribed format</i>) as decided at a later date as per the decision of the Supreme Court.	Yes		
14.	A certificate from the competent authority in the State in the prescribed (<i>vide MoEF letter No. 11-9/98-FC (pt.) dated 5th July 2013</i>) 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		Under Process	

I Documents/Information Required for All Proposals				
S. No.	Name of document(s)	Provided or not	If not provided why?	Page Number
	before the final approval, is enclosed with the proposal (vide F. No. 11-179/2012-FC Dated: December 20, 2013).			
15.	Species-wise and girth class-wise enumeration list and abstract of trees (<i>abstract to be given at the end of the list</i>) standing on the forest area in question neatly typed or computerized and duly signed by DFO.		Tree enumeration to be conducted by Forest Department	
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 (<i>in the prescribed format</i>).		Pertains to DFO	
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 (<i>in the prescribed format</i>).		Pertains to DFO	
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 (<i>in the prescribed format</i>).		Pertains to DFO	
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.		Pertains to DFO	
20.	Suitability certificate from the Divisional Forest Officer that the land identified for compensatory afforestation is suitable for raising plantation (<i>in the prescribed format</i>).		Pertains to DFO	
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.		Pertains to DFO	
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 Bharatarastra/N.H.A Canal/ Irrigation	No	Not Applicable	

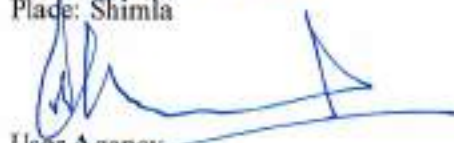
I Documents/Information Required for All Proposals				
S. No.	Name of document(s)	Provided or not	If not provided why?	Page Number
	Department b) Change of Land Use certificate from Town and Country Planning/ any other competent authority.			
23.	For the projects involving forest land for construction of buildings/right of way for buildings, the built-up area, details of DG sets to be installed, and raw materials to be used (<i>in case of industries</i>) should be clearly mentioned.	No	Not Applicable	
24.	Status of clearance under Environment (Protection) Act, 1986, wherever required.	No	The project does not require Environmental Clearance as per EIA Notification no. S.O.2559 (E) dated 22 nd August, 2013.	
25.	NOC of the State Pollution Control Board for establishment of the project, wherever required.	No	As per CPCB directions dated 7 th March, 2016, the project does not require NOC from SPCB.	
26.	Detailed scheme for rehabilitation of project affected persons, wherever required.	No	There will be no displacement of people due to the proposed project in forest area.	
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.	No	Not Applicable	
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.	No	Not Applicable	
29.	Cost benefit analysis as per the guidelines issued under forest (Conservation) Act, 1980 in prescribed format, wherever required.	Yes		
30.	Any other information/documents necessary for giving clarifications on the project may be specified and attached.	Yes a. Muck management Plan b. WL Distance Certificate		


 महाप्रबंधक (संवर्धन) / GM (F)
 एवं परियोजना निदेशक / & Project Director
 भारावाड़ा / N.H.A.I.
 प.वा.ई. - विंगला (जि.प्र.) / RIU-Solinda (H)

II	Documents/Information Required for Proposals for Roads, Railway Lines, Canals and Transmission Lines			
31.	<p>The following information/documents must be given :-</p> <p>a) Length and width of Road/Railway line/ Canal/ Transmission line passing through forest and non-forest area.</p> <p>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.</p> <p>c) In case of transmission line, the following details may also be given :-</p> <p>i) Number of towers to be erected both in forest and non-forest area.</p> <p>ii) Width of the right of way for transmission line.</p>	Yes		

Date: 30.07.2022

Place: Shimla


User Agency
Signature and Seal

महाप्रबंधक (परिचालन) / GM(T)
एवं परियोजना निदेशक / & Project Director
भारत सरकार - H.P.
प.क.ई. - शिमला (डिप्टो) / PIU-Shimla (H.P.)

Divisional Forest Officer
Shimla (Urban) Forest Division
Signature and Seal

Countersigned by:-
Conservator of Forests

CHECKLIST Sl. No. 2

Full Title of the proposal: - Additional Forest Land requirement for four laning of NH-05 from Shakral Village to Dhalli section (Shimla Bypass Package II from Km 146+300 to Km 156+560 and Shimla Connectivity from Km 0+000 to Km 0+725 for Design length - 10.985 Km) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 129.050 to Km. 156.507) of NH-22 (New NH-05) for 40.3 Ha in the State of Himachal Pradesh.

File No. : FP/HP/ROAD/154923/2022

Date of Proposal: 27th April, 2022

CHECK-LIST SERIAL NO. - 02

DEMAND LETTER

The Package II of Shimla Bypass starts from Shakral Village at Km.146+300 and ends at Km.156+560 at Dhalli. This Package also includes Shimla Link Connectivity of about 725 metres. 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 19.1788 Ha is required to be diverted for four laning of proposed Shimla Bypass from Shakral to Dhalli Section for the following purposes:

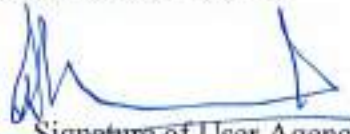
- (i) Dumping sites for muck disposal.
- (ii) Diversion of land over Tunnels
- (iii) Four laning of structures against 2-lane in previous project.
- (iv) Slope protection measures at fragile hill strata locations.
- (v) Minor modifications in the alignment for improving geometry of Highway.
- (vi) Previous acquired area under Private Classified Forest
- (vii) Proposed Access Roads

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 : 30.07.2022

Place : Shimla


Signature of User Agency

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

Countersigned -

Divisional Forests Officer
Shimla Forest Division (Urban)
Office Seal

महाप्रबंधक (तकनीकी) / GM(T.)
एवं परियोजना निदेशक / & Project Director
भारत सरकार / N.H.A.I.
पकाई - शिमला (हि०प्र०) / PIU-Shimla (H.P.)

CHECKLIST Sl. No. 3

Full Title of the proposal:- *Additional Forest Land requirement for four laning of NH-05 from Shakral Village to Dhalli section (Shimla Bypass Package II from Km 146+300 to Km 156+560 and Shimla Connectivity from Km 0+000 to Km 0+725 for Design length – 10.985 Km) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 129.050 to Km. 156.507) of NH-22 (New NH-05) for 40.3 Ha in the State of Himachal Pradesh.*

File No. : FP/HP/ROAD/154923/2022

Date of Proposal: 27th April, 2022

CHECK-LIST SERIAL NO. - 03

Application Form

As per Rule 6 of the Forest (Conservation) Rules, 2003, every user agency, who wants to use any forest land for non-forest purposes shall make his proposal in the appropriate Form appended to these rules, i.e. Form 'A' for proposals seeking first time approval under the Act and Form 'B' for proposals seeking renewal of leases where approval of the Central Government under the Act had already been obtained earlier, to the concerned nodal officer authorized in this behalf by the State Government, along with requisite information and documents, complete in all respects, well in advance of taking up any non-forest activity on the forest land.

FORM – “A”

Form for seeking **PRIOR APPROVAL**

Under section – 2 of Forest (Conservation) Act, 1980

For

Diversion of Forest Land

For

“Additional Forest Land requirement for four laning of NH-05 from Shakral Village to Dhalli section (Shimla Bypass Package II from Km 146+300 to Km 156+560 and Shimla Connectivity from Km 0+000 to Km 0+725 for Design length – 10.985 Km) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 129.050 to Km. 156.507) of NH-22 (New NH-05) for 40.3 Ha in the State of Himachal Pradesh.”

In

SHIMLA (URBAN) FOREST DIVISION




महाप्रबंधक (तकनीकी) / GM(T.)
एवं परियोजना निदेशक / & Project Director
भारत रा.प्र. / N.H.A.I.
प.कार्ड - जिमला (हि.प्र.) / PIU-Shimla (H.P.)

FORM – “A”**PART – I**

1.	Project Details	<p>i) Short narrative of the proposal and project/scheme for which the forest land is required.</p> <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-05 (old 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-II starts from Shakral at km 146+300 and terminates at Dhalli at km 156+560. The design length of proposed project road is 10.985 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 II from Shakral Village to Dhalli is a part of this Kaithlighat to Dhalli section.</p> <p>The salient features of the proposed project road are given below:</p> <table border="1" data-bbox="646 1153 1460 1680"> <thead> <tr> <th>Item</th> <th>Improvement Proposal</th> </tr> </thead> <tbody> <tr> <td>Design Length</td> <td>10.985 Km (including Shimla Connectivity of 725 m)</td> </tr> <tr> <td>Major Bridge (4 lane)</td> <td>01 no.</td> </tr> <tr> <td>Minor Bridge (4 lane)</td> <td>01 no.</td> </tr> <tr> <td>Viaduct (4 lane)</td> <td>05 nos.</td> </tr> <tr> <td>Major Junctions</td> <td>3 no.</td> </tr> <tr> <td>Minor Junction</td> <td>1 no.</td> </tr> <tr> <td>Culverts</td> <td>Box Culverts: 29 nos. Pipe Culverts at the junction locations: 8 nos.</td> </tr> <tr> <td>Tunnel</td> <td>3 nos. New 2 lane Twin Tube Tunnels</td> </tr> </tbody> </table> <p>Project road length in Shimla (Urban) Forest division is 0.835 km.</p>	Item	Improvement Proposal	Design Length	10.985 Km (including Shimla Connectivity of 725 m)	Major Bridge (4 lane)	01 no.	Minor Bridge (4 lane)	01 no.	Viaduct (4 lane)	05 nos.	Major Junctions	3 no.	Minor Junction	1 no.	Culverts	Box Culverts: 29 nos. Pipe Culverts at the junction locations: 8 nos.	Tunnel	3 nos. New 2 lane Twin Tube Tunnels
Item	Improvement Proposal																			
Design Length	10.985 Km (including Shimla Connectivity of 725 m)																			
Major Bridge (4 lane)	01 no.																			
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Culverts	Box Culverts: 29 nos. Pipe Culverts at the junction locations: 8 nos.																			
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 महाप्रबंधक (तकनीकी) / GM(T.)
 एन.एच.आय. निदेशक / & Project Director
 NHAI
 - जिला (हिमाचल) / Jila (H.P.)

	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. 5a . DGPS Maps are enclosed as Checklist Sl. No. 5b .														
	iii) Cost of the Project	The total capital cost of the project is Rs. 1,974.50 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	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.														
2.	Purpose wise break up of Land to be diverted	The land purpose for diversion is for construction of Shimla Bypass Package II in Shimla Forest Division : <table><tr><th>Division</th><th>Forest Area (Ha.)</th><th>Non-Forest Area (Ha.)</th><th>Total Area (Ha.)</th></tr><tr><td>Shimla</td><td>0.0076</td><td>5.3450</td><td>5.3526</td></tr><tr><td>Total</td><td>0.0076</td><td>5.3450</td><td>5.3526</td></tr></table>			Division	Forest Area (Ha.)	Non-Forest Area (Ha.)	Total Area (Ha.)	Shimla	0.0076	5.3450	5.3526	Total	0.0076	5.3450	5.3526
Division	Forest Area (Ha.)	Non-Forest Area (Ha.)	Total Area (Ha.)													
Shimla	0.0076	5.3450	5.3526													
Total	0.0076	5.3450	5.3526													
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.														
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	Undertaking for payment of compensatory afforestation cost is enclosed as Checklist Sl. No.12 .														


 महाप्रबंधक (तकनीकी) / GM(T)
 एवं परियोजना निदेशक / & Project Director
 भारतागंगा / N.H.A.I.
 पञ्जाब - जिला (हिमाचल) / P.U. Shimla (H.P.)

	Government (undertaking to be enclosed).	
6.	Details of Certificates/documents enclosed as required under the instructions.	Enclosed as per the Checklists provided.



महाप्रबोधक (तकनीकी) / GM(T)
 एवं परियोजना निदेशक / & Project Director
 भारायाप्रा / N.H.A.I.
 प.का.ई. - जिला (हि.प्र.) / PIU-Shimla (H.P.) PIU, Shimla

Signature

(Ram Asra Khural)

Project Director

Date:- 30.07.2022

Place:- Shimla

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

Full Title of the proposal:- Additional Forest land requirement for four lining of NH-03 from Shaktal Village to Dhalli section (Shimla Bypass Package II from Km 146+300 to Km 156+360 and Shimla Connectivity from Km 0+600 to Km 0+725 for Design length – 10.985 Km) in already approved FCA case of the entire section from Kaithligat to Dhalli (Chainage from Km 129.050 to Km 156.507) of NH-22 (New NH-95) for 40.3 Ha in the State of Himachal Pradesh

File No. : FFO/PP/ROAD/154923/2022

Date of Proposal: 27th April, 2022

PART-II

(To be filled by the concerned Deputy Conservator of Forests)

State serial No. of proposal _____

7. Location of the project/Scheme:
 - i. State/Union Territory
 - ii. District
 - iii. Forest Division
 - iv. Area of forest land proposed for diversion (in ha.)
 - v. Legal status of forest
 - vi. Density of vegetation
 - vii. Species-wise (scientific names) and diameter class-wise enumeration of trees (to be enclosed. In case of irrigation / hydel projects enumeration at FRL, FRL-2 meter & FRL-4 meter also to be enclosed.)
 - viii. Brief note on vulnerability of the forest area to erosion.
 - ix. Approximate distance of proposed site for diversion from boundary of forest.
 - x. Whether forms part of National Park, wildlife sanctuary, biosphere reserve, tiger reserve, elephant corridor, etc. (If so, the details of the area and comments of the Chief Wildlife Warden to be annexed).
 - xi. Whether any rare/endangered/unique species of flora and fauna found in the area- if so details thereof.
 - xii. Whether any protected archaeological/heritage site/defence establishment or any other important monument is located in the area. If so, the details thereof with NOC from competent authority, if required
8. Whether the requirement of forest land as proposed by the user agency in col. 2 of Part-I is unavoidable and barest minimum for the project. If yes, recommended area item-wise with details of alternatives examined.
9. Whether any work in violation of the Act has been carried out (Yes/No). If yes, details of the same including period of work done, action taken on erring officials.
Whether work in violation is still in progress
10. Details of compensatory afforestation scheme.
 - i. Details of non forest area/degraded forest area identified for compensatory afforestation, its distance from adjoining forest, number of patches, size of each patch.
 - ii. Map showing non-forest/degraded forest area identified for compensatory afforestation and adjoining forest boundaries.
 - iii. Detailed compensatory afforestation scheme including species to be planted, implementing agency, time schedule, cost structure, etc.
 - iv. Total financial outlay for compensatory afforestation scheme.
 - v. Certificates from competent authority regarding suitability of area identified for compensatory afforestation and from management point of view. (To be signed by the concerned Deputy Conservator of Forests).

11. Site inspection report of the DCF (to be enclosed) especially highlighting facts asked in col. 7 (xi, xii), 8 and 9 above.
12. Division/District profile:
 - i. Geographical area of the district.
 - ii. Forest area of the district.
 - iii. Total forest area diverted since 1980 with number of cases.
 - iv. Total compensatory afforestation stipulated in the district/division since 1980 on
 - (a) forest land including penal compensatory afforestation,
 - (b) non-forest land.
 - v. Progress of compensatory afforestation as on (date) _____ on
 - (a) forest land
 - (b) non-forest land.
13. Specific recommendations of the DCF for acceptance or otherwise of the proposal with reasons.

Signature

Name

Official Seal

Date:- _____

Place:- _____

Full Title of the proposal:- *Additional Forest Land requirement for four lanes of NH-05 from Sankral Village to Dhalti section (Shimla Bypass Package II from Km 146+300 to Km 156+560 and Shimla Connectivity from Km 0+000 to Km 0+725 for Design length - 10.985 Km) in already approved FCA zone of the entire section from Kaithlighat to Dhalti (Chainage from Km. 129.650 to Km. 156.507) of NH-22 (New NH-05) for 40.3 Ha in the State of Himachal Pradesh.*

File No. : FV/HZ/ROAD/154923/2022

Date of Proposal: 27th April, 2022

PART-III

(To be filled by the concerned Conservator of Forests)

14. Whether site, where the forest land involved is located has been inspected by concerned Conservator of Forests (Yes/No). If yes, the date of inspection & observations made in form of inspection note to be enclosed.
15. Whether the concerned Conservator of Forests agree with the information given in Part-B and the recommendations of Deputy Conservator of Forests.
16. Specific recommendation of concerned Conservator of Forests for acceptance or otherwise of the proposal with detailed reasons.

Signature

Name

Official Seal

Date.- _____

Place.- _____

Full Title of the proposal: *Additional forest land requirement for four lanes of NH-05 from Sitakral Village to Dhalli section (Shimla Bypass Package II from Km 140+300 to Km 156+560 and Shimla Connectivity from Km 0+000 to Km 0+725 for Design length – 16.985 Km) in already approved P.L.A case of the entire section from Kaushlaghat to Dhalli (Chainage from Km. 129.650 to Km. 156.507) of NH-22 (New NH-65) for 40.3 Ha in the State of Himachal Pradesh.*

File No. : FP/HP/ROAD/154923/2022

Date of Proposal: 27th April, 2022

PART-IV

(To be filled in by the Nodal Officer or Principal Chief Conservator of Forests or Head of Forest department)

17. Detailed opinion and specific recommendation of the State Forest Department for acceptance or otherwise of the proposal with remarks.

(While giving opinion, the adverse comments made by concerned Conservator of Forests or Deputy Conservator of Forests should be categorically reviewed and critically commented upon).

Signature

Name & Designation
(Official Seal)

Date:- _____

Place:- _____

Full Title of the proposal:- *Additional Forest Land requirement for four laning of NH-05 from Shakraf Village to Dhuli section (Shimla Bypass Package II from Km 146+300 to Km 156+560 and Shimla Connectivity from Km 0+000 to Km 0+725 for Design length - 10.985 Km) in already approved PL A case of the entire section from Kuthlyghat to Dhuli (Change from Km. 129+059 to Km 156+507) of NH-22 (New NH-05) for 40.5 Ha in the State of Himachal Pradesh*

File No. : GP/HIP/ROAD/154923/2022

Date of Proposal: 27th April, 2022

PART- V

(To be filled in by the Secretary in charge of Forest Department or by any other authorised officer of the State Government not below the rank of an Under Secretary)

18. Recommendation of the State Government:

(Adverse comments made by any officer or authority in Part-B or Part-C or Part-D above should be specifically commented upon)

Signature

Name & Designation
(Official Seal)

Date: - _____

Place: - _____

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/CMPDL plan with subsidence analysis reports, etc.
2. Map has to be in original duly authenticated jointly by project authorities and concerned DCT - 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.

FORM - A

Form for seeking prior approval of Central Government under section 2 of the Forest(Conservation) Act,1980 for Diversion of fresh forest area

PART - I

(To be filled up by User Agency)

A. General Details

A-1. Project Details

(i). Proposal No. : FP/HP/ROAD/154923/2022

(ii). Name of Project for which Forest Land is required : Proposal for diversion of additional Forest Land requirement for four laning of NH-05 from Shakral Village to Dhalli section (Shimla Bypass Package II from Km 146+300 to Km 156+560 and Shimla Connectivity from Km 0+000 to Km 0+725 for Design length - 10.985 Km) in already approved FCA case of the entire section from Kaithlighat to Dhalli

(iii). Short narrative of the proposal and Project/scheme for which the forest land is required : Package II of Shimla Bypass starts from Shakral in Shimla district at design Km.146+300 and terminates at design Km.156+560 at Dhalli in Shimla district of existing NH-05 including Shimla connectivity of 725 m. The length of the project road including Shimla connectivity is 10.985 Km.

(iv). State : Himachal Pradesh

(v). Category of the Proposal : Road

(vi). Shape of forest land proposed to be diverted : Linear

(vii). Estimated cost of the Project(Rupees in lacs) : 193322

(viii). Area of forest land proposed for diversion(in ha.): 19.1788

(ix). Non-forest land required for this project(in ha.): 32.5117

(x). Total period for which the forest land is proposed to be diverted(in years): 99

A-2. Details of User Agency

(i). Name : NATIONAL HIGHWAY AUTHORITY OF INDIA PIU SHIMLA

(ii). Address1 : Kamna View Bhawan Phase III New Shimla

(iii). Address2 : NIL

(iv). State : Himachal Pradesh

(v). District : Shimla

(vi). Pin : 171009


महाप्रबंधक (सड़क विभाग) / G.M.(R)
एवं परियोजना निदेशक / & Project Director
भारत राष्ट्रीय / N.H.A.I.
एकार्ड - शिमला (हि०प्र०) / PIU-Shimla (H.P.)

(vii). Landmark : Near BCS School

(viii). Email address : pdpiushimla@nhai.org

(ix). Landline Telephone No. : 177-2673819

(x). Fax No. : 177-2673819

(xi). Mobile No. : 9418030067

(xii). Website (if any) : www.nhai.org

(xiii). Legal status of User Agency : Central PSU

A-3. Details of Person Making Application

(i). First Name: Suresh

(ii). Middle Name: Kumar

(iii). Last Name: Sharma

(iv). Gender: Male

(v). Designation: Project Director

(vi). Address 1: House No- 1, Rishikesh Sadan, Shanti Kutia, Chakkar

(vii). Address 2: NIL

(viii). State: Himachal Pradesh

(ix). District: Shimla

(x). Tehsil: NIL

(xi). Pin: 171005

(xii). Landmark: Near Upper Chakkar Busstop

(xiii). Email Address: pdpiushimla@gmail.com


(xiv). Landline Telephone No.: 177-2633318

(xv). Fax No.: NIL

(xvi). Mobile No.: 9414142341



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भारतवाणिज्य / N.H.A.I.
पञ्चाई - शिमला (हिमाचल) / PIU-Shimla (H.P.)

(xvii). Copy of documents in support of the competence/authority of the person making this application to make application on behalf of the User Agency: 

B. Details of land required for the Project

B-1. Details of proposal seeking prior approval of Central Government under the Act for diversion of forest land for the Project already submitted in the past

Proposal Submitted in Past							
S.no	Proposal Status.	Proposal No.	Moef File No.	Area Proposed for Diversion(Ha.)	Area Diverted(Ha.)	Date of In-Principle Approval	Date of Final Approval
1	Inprinciple	FP/HP/ROAD/35837/2018	88/HP/06/63/2018/FC	15.1526	15.1526	13 Nov 2018	
2	Approved	FP/HP/ROAD/2531/2013	8-25/2013-FC (Vol-I)	15.5799	15.5799	23 Aug 2013	16 Dec 2013
3	Approved	FP/HP/ROAD/2531/2013	8-25/2013-FC(Vol-I)	15.5799	15.5799	23 Aug 2013	16 Dec 2013
Total				46.3124	46.3124		

B-2. Details of forest land proposed to be diverted

B-2.1 Details of Divisions involved

Details of Divisions involved			
S.no	Division Name	Forest Land(ha.)	Non-Forest Land(ha.)
1.	Shimla(shimla)	19.1712	27.1667
2.	Shimla MC	0.0076	5.345
Total		19.1788	32.5117

B-2.2 Details of Districts involved

District wise breakup			
S.no	District Name	Forest Land(ha.)	Non-Forest Land(ha.)
1.	Shimla	19.1788	32.5117
Total		19.1788	32.5117

B-2.3 Village wise breakup

Villages wise breakup			
S.no	Village	Forest Land(ha.)	Non-Forest Land(ha.)
1	Banredu	0	1.1007
2	Chamyana	0.8861	0.4743
3	Dhalli	0	0.4822
4	Jungal Mehruja Mehduda Ganoti	0.7869	0
5	Jungal Mehruja Mehduda Mashobra	1.5136	1.8188
6	Kamali	0.0151	0.0151
7	LambiDhar	0.4558	2.8361
8	Malyana-I	0.236	0.236
9	Mevag	0.8383	0.9139


01/11/2018
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N.H.A.I.
शिमला (हिमाचल प्रदेश) / PIU-Shimla (H.P.)


10	Shehnai	5.1988	0.6288
11	Shakral	0.0126	0.0117
12	UP MahalTilla	0.5452	3.5655
13	Up MahalChalaunti	0.0076	2.1091
14	D1 Malyana	1.2633	0.8443
15	D2 Shehnai	0.2781	0
16	D3 Chamyana	0.808	0
17	D4 Shurala	3.071	0
18	D5 Mevag	1.0866	0.3758
19	D6 Mevag	1.0972	0
20	D7 Up MahalChalaunti	0	0.4026
21	D8 UP MahalTilla	0.8559	0.9499
22	D9 Lambidhar	0.0612	0.1103
23	D10 Up MahalChalaunti	0	0.366
24	T3 Mevag	0.078	1.1564
25	T3 Chhakdya	0.0535	0.8379
26	T3 Chamyana	0.01	0.635
27	T3 Kamla Nagar	0	3.0184
28	T3 Shanti Vihar	0	1.8706
29	T3 Saganti	0	0.4273
30	T3 Sanjauli Bazar	0	1.3841
31	T3 Upmahal Chalounti	0	1.7912
32	T3 Upmahal Tila	0	1.9936
33	T4 Upmahal Chalounti	0	0.6761
34	T4 Banredu	0	0.3086
35	T5 Upmahal Tila	0	0.2763
36	T5 Lambidhar	0	0.8104
Total		19.1788	32.5117


B-2.4 Component wise breakup


Component wise breakup			
S.no	Component	Forest Land(ha.)	Non-Forest Land(ha.)
1	Road	10.496	14.2769
2	Muck Disposal Sites	8.5413	3.0489
3	Tunnels	0.1415	15.18585
Total		19.1788	32.51165

C. Maps of forest land proposed to be diverted

Division 1. : Shimla MC		
(i). Area of forest land proposed to be diverted(in ha.) : 0.0076		
(ii). Nature of the Project: Linear		
(b). No. of Segments : One		
<div style="text-align: right;">  महाप्रबंधक (तकनीकी) / G.M(T.) एवं परियोजना निदेशक / & Project Director भारतीय राजपथ / N.H.A.I. पत्र १ - शिमला (हि०प्र०) / P.U-Shimla (H.P.) </div>		
Segment wise details		
Segments	Segment Area(in	Kml File of Segments (To view KML file on google the same may

	ha.)	be downloaded and then open if in google earth install in your computer).
1.	0.0076	 View File

(iii). Copy of Survey of India Toposheet indicating boundary of forest land proposed to be diverted: 


(iv). Scanned copy of the Geo-referenced map of the forest land proposed to be diverted prepared by using GPS or Total Station: 


Division 2. : Shimla(shimla)


(i). Area of forest land proposed to be diverted(in ha.) : 19.1712

(ii). Nature of the Project: Linear


(b). No. of Segments : One

Segment wise details		
Segments	Segment Area(in ha.)	Kml File of Segments (To view KML file on google the same may be downloaded and then open if in google earth install in your computer).
1.	19.1712	 View File

(iii). Copy of Survey of India Toposheet indicating boundary of forest land proposed to be diverted: 

(iv). Scanned copy of the Geo-referenced map of the forest land proposed to be diverted prepared by using GPS or Total Station: 

D. Justification for locating the Project in forest land and details of alternatives examined:

(i). Copy of note containing justification for locating the Project in forest land: 

(ii). Whether a copy of map indicating location of alternative examine is required to be provided: No

(a). Reason for not providing such map: Additional diversion along already approved road

E. Employment likely to be generated

(i). Whether the Project is likely to generate employment?: Yes

(ii). Permanent/Regular Employment(Number of persons): 30

(iii). Temporary Employment(Number of person-days): 216000

E. Displacement of People due to the Project, if any

(i). Whether Project involves displacement?: No


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पताई - शिमला (हिमाचल) / PIU-Shimla (H.P.)

G. Details of Cost-Benefit analysis for the Project

(i). Whether the Project requires Cost-Benefit analysis?: Yes

(a). Copy of Cost-Benefit analysis: 

H. Status of Environmental Clearance

(i). Whether the Project requires Clearance under the Environment (Protection) Act 1986 ? : No

I. Status of Wildlife Clearance

(i). Whether the Project or a part thereof is located in any Protected Area or their Eco sensitive zone? : Yes

(a). Whether Project or a part thereof is located within a Protected Area ? : No

(ii). Status of approval of the Standing Committee of National Board for the Wildlife(NBWL) to the Project :
Application under process

(a). Date of submission of proposals : 02 Jun 2022

(b). Current status : Nil.

J. Applicability of special provisions governing Scheduled Areas

(i). Whether the Project or a part thereof is located in a Scheduled Area? : No

K. Status of settlement of rights under the Forest Rights Act, 2006 on the forest land proposed to be diverted

(i). Whether the process for settlement of Rights under the Forest Rights Acts 2006 on the forest land proposed to be diverted has been completed? : No


L. Details of land identified for Compensatory Afforestation


(i). Whether non-forest or Revenue forest land is required to be provided by User Agency?: Not Applicable















(ii). Whether the area of non-forest land or Revenue forest land required to be provided by User Agency for raising Compensatory Afforestation is less than area of forest land proposed to be diverted ? : Not Applicable

(iii) . Reason for not providing Non-Forest Land: Not Applicable

Additional information Details


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एवं परियोजना निदेशक / & Project Director
भारतगंगा / N.H.A. I
प्रस्ताव - जिमला (हि०प्र०) / RIU-Shimla (H.P.)

Documents		
S.No	Documents	Remarks
1		Undertaking for obtaining FRA as per provisions

2		Undertaking for Compensatory Afforestation
3		Undertaking for NPV
4		Undertaking for Addl. NPV
5		Length and width of the proposed project
6		Muck Management Plan
7		Undertaking for obtaining Certificate of Non Availability of Non Forest land and submission of letter to DC for obtaining the same
8		NHAI Reply to the EDS raised by Nodal on 06.05.2022
9		Compliance to Point no. 2 of the EDS raised by Nodal on 06.05.2022
10		Compliance to Point no. 3 of the EDS raised by Nodal on 06.05.2022
11		Compliance to Point no. 4 of the EDS raised by Nodal on 06.05.2022
12		Revised Undertaking for obtaining FRA as per provisions
13		Revised Undertaking for Compensatory Afforestation
14		Revised Undertaking for NPV as per revised forest area
15		Revised Undertaking for Addl NPV as per revised forest area

Print page


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 एकाई - शिमला (हि०प्र०) / PIU-Shimla (H.P.)

CHECKLIST Sl. No. 4

Full Title of the proposal:- Additional Forest Land requirement for four laning of NH-05 from Shakral Village to Dhalli section (Shimla Bypass Package II from Km 146+300 to Km 156+560 and Shimla Connectivity from Km 0+000 to Km 0+725 for Design length – 10.985 Km) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 129.050 to Km. 156.507) of NH-22 (New NH-05) for 40.3 Ha in the State of Himachal Pradesh.

File No. : FP/HP/ROAD/154923/2022

Date of Proposal: 27th April, 2022

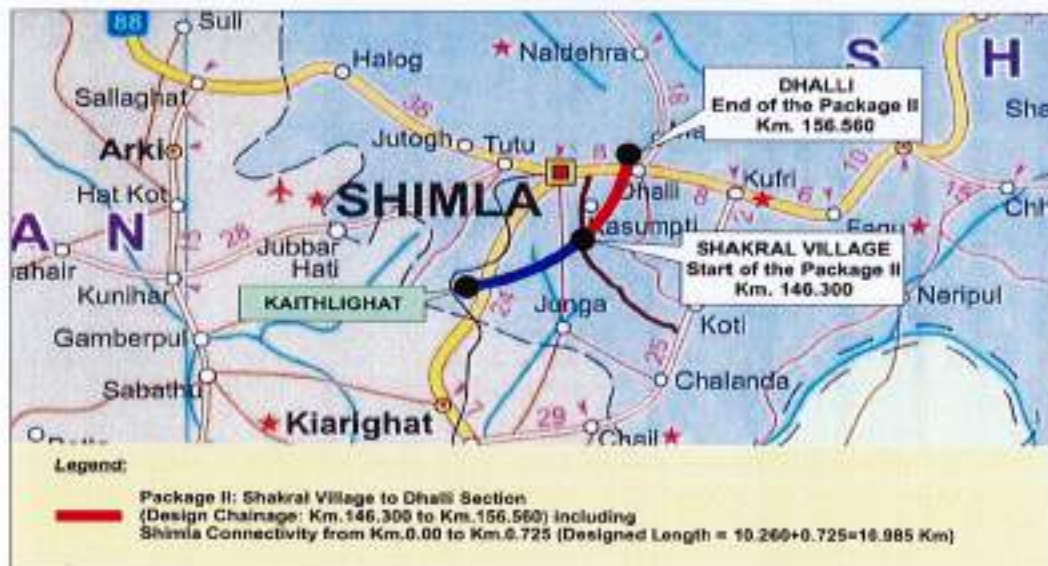
CHECK-LIST SERIAL NO. - 04

DETAILED NOTE ON PROJECT

1. INTRODUCTION

The National Highways Authority of India (NHAI) under the Ministry of Road Transport & Highways (MoRT&H), Government of India has been entrusted to undertake the construction of four laning of NH-05 (old 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-II starts from Shakral at km 146+300 and terminates at Dhalli at km 156+560. The design length of proposed project road is 10.985 Km. The location of the proposed bypass road is shown in the Index Map (Fig-1) below:

Fig. 1: Project Road location



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शिमला - हिमाचल प्रदेश / P.O. Shimla (H.P.)

2. NEED OF THE BYPASS

The section of existing NH5 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 NH05 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 II from Shakral Village to Dhalli Section is a part of this Kaithlighat to Dhalli section.

3. PROJECT ALIGNMENT

The Package II of Shimla Bypass starts from Shakral Village at Km.146+300 and ends at Km.156+560 at Dhalli. This Package also includes the Shimla City link Connectivity. The alignment of the bypass which was finalized in the earlier study has been revisited by the Consultants. Since the land for the bypass had already been acquired, the consultants have made every effort to utilize the acquired land to the maximum extent wherever feasible while making modifications to the alignment. The alignment of the Package II of the Shimla bypass takes off from design Km.146+300 at the end of the Proposed Four laning (Kaithlighat to Shakral) at Shakral and traverses through the hills on the east side of the existing highway before terminating at the Design Km.156+560 at Dhalli. Between Km.146+300 to Km.152+000, the Consultants have followed the old alignment with minor modifications required to keep the alignment within the acquired land and to reduce the number of structures and to balance the cut and fill. However for the stretch from Km.152+000 to Km.156+560 of Package II, due to built-up area and the fact that the old alignment in this stretch is passing through Shimla Water Catchment Wildlife Sanctuary, another alternative alignment had to be explored and the Consultant in the Feasibility Study explored two options (the old alignment and the New Alignment) and finally the New Alignment was recommended by the Consultant, discussed with all Stakeholders including NHAI and was finally adopted.

Salient features of the project road are given in Table below.

Table 1: Salient Features of the Project Road

Item	Improvement Proposal
Design Length	10.985 Km (including Shimla Connectivity of 725 m)
Major Bridge (4 lane)	01 no.
Minor Bridge (4 lane)	01 no.
Viaduct (4 lane)	05 nos.
Major Junctions	3 no.
Minor Junction	1 no.
Culverts	Box Culverts: 29 nos. Pipe Culverts at the junction locations: 8 nos.

Tunnel	3 nos. New 2 lane Twin Tube Tunnels
--------	-------------------------------------

4. TRAFFIC STUDY ON THE PROJECT ROAD

The projected Annual Average Daily Traffic in Package II (km 146+300 to km 156+560) 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	9923	10077
2	Construction Year	2021-2022	10503	10666
		2022-2023	11117	11291
		2023-2024	11767	11952
		2024-2025	12456	12651
3	Year of Opening	2025-2026	13259	13469

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 (2024) 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 cum Viaduct	01 no.
Number of 4 lane Minor Bridge cum Viaduct	01 no.
Number of 4 Lane Viaduct	05 nos.

Total 07 Nos.


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B) Tunnels

Proposed Tunnels on the Project Road Section:

S. No.	Location	Start Design Chainage (Ch.)	End Design Chainage (Ch.)	Length of Tunnel (m)	Carriageway width including Footpath & Walkway (m)	Remarks
1	Tunnel 3 (LHS & RHS Twin Tubes)	L.H.S. Ch. Km 152+293 R.H.S. Ch. Km 152+285	L.H.S. Ch. Km 155+005 R.H.S. Ch. Km 154+895	2712 (LHS) 2610 (RHS)	11.95	-
2	Tunnel 4 (LHS & RHS Twin Tubes)	L.H.S. Ch. Km 155+500 R.H.S. Ch. Km 155+140	L.H.S. Ch. Km 155+650 R.H.S. Ch. Km 155+550	150 (LHS) 410 (RHS)	11.95	-
3	Tunnel 5 (LHS & RHS Twin Tubes)	L.H.S. Ch. Km 0+025 R.H.S. Ch. Km 0+015	L.H.S. Ch. Km 0+300 R.H.S. Ch. Km 0+225	275 (LHS) 210 (RHS)	10.50	-

C) Cross drainage Structures (Culverts)

- Box Culverts – 29 nos.
- Pipe Culverts at the Junction locations – 8 nos.

D) Truck Laybys

There is no truck lay bye in this Package.

E) Bus Shelters

There is no bus shelter in this Package.

F) Other Project Amenities**(a) Toll Plaza**

There is no Toll Plaza in this Package.

(b) Passenger Wayside Amenity


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 पंकज - शिमला (हिमाचल) / PIU Shimla (H.P.)

There is no Passenger Wayside Amenity in this Package.

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

This report pertains to Package II of Shimla Bypass from Km.146+300 to Km.156+560. This Package also includes Shimla Link Connectivity of about 725 metres.

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 proposed bypass of NH-05 from Shakral to Dhalli is a four lane road including the Shimla City link Connectivity. It also involves diversion of forest land. **Forest Clearance** for diversion of 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 proposed road is at an aerial distance of 29.28 m from the Shimla Water Catchment Wildlife Sanctuary but passes through its eco-sensitive zone for a stretch of 460 m (km 156+100 to 156+560) hence Wildlife clearance as per Wildlife (Protection) Act, 1972 and Amendments is not required as the project does not require EC. However, Wildlife Distance Certificate is received from DFO (Wildlife) Shimla.

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.
- Green belt development plan has been prepared for the project road in which avenue and median plantations have been proposed.
- The end part of the project is on viaduct to minimize the impact on Wildlife due to its proximity to WLS

8. COST ESTIMATE OF THE PROJECT

The details of cost estimate are given in Table 3.

Table 3: Total Civil and Project Cost

S. No.	Component of Costs	Package II Cost (INR) in Crores
1.	Civil Cost (In Crores)	1617.05
	Civil Cost/ Km (In Crores)	147.21
2.	Capital Cost (In Crores)	1974.50
	Capital Cost /Km (In Crores)	179.75

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 II 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 portion, rigid pavement has been 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 II on HAM.

...



महाप्रबंधक (तकनीकी) / GM(T.)
एवं परियोजना निदेशक / & Project Director
भारतसड़क / N.H.A.I.
एकाई - शिमला (हि०प्र०) / PIU-Shimla (H.P.)

CHECKLIST Sl. No. 5

Full Title of the proposal:- *Additional Forest Land requirement for four laning of NH-05 from Shakral Village to Dhalli section (Shimla Bypass Package II from Km 146+300 to Km 156+560 and Shimla Connectivity from Km 0+000 to Km 0+725 for Design length – 10.985 Km) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 129,050 to Km. 156,507) of NH-22 (New NH-05) for 40.3 Ha in the State of Himachal Pradesh.*

File No. : FP/HP/ROAD/154923/2022

Date of Proposal: 27th April, 2022

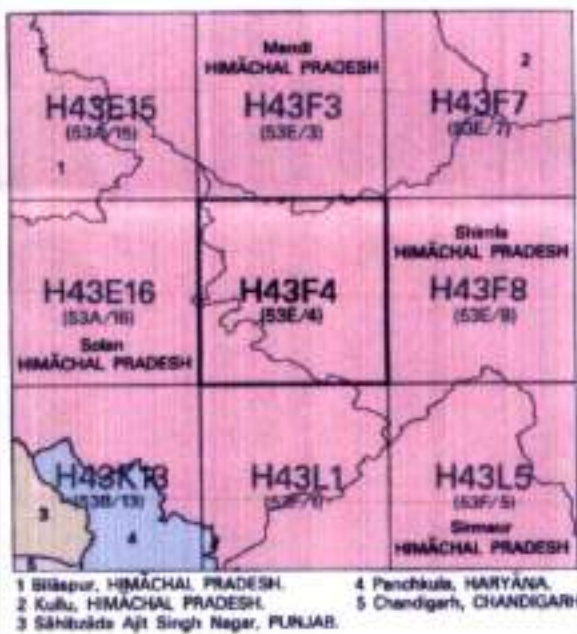
CHECK-LIST SERIAL NO. – 05 a

ALIGNMENT ON TOPO SHEET- FOREST AREA MARKED

महाप्रबंधक (तकनीकी) / GM(T.)
एवं परियोजना निदेशक / & Project Director
शा.स. वि. / N.H.A.I.
जिला - शिमला (डि०प्र०) / PIU Shimla (H.P.)



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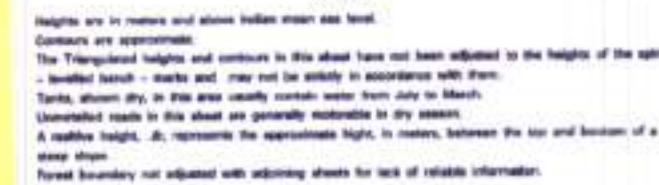
CONVENTIONAL SYMBOLS



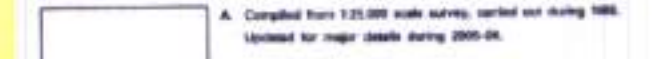
REFERENCES



NOTES



COMPILED INDEX



Projection - UTM Datum - WGS 84

Magnetic Variation from True North about 1° East in 2005.

Scale 1:50,000

CONTOUR INTERVAL 40 METRES

For further details about this map, please contact

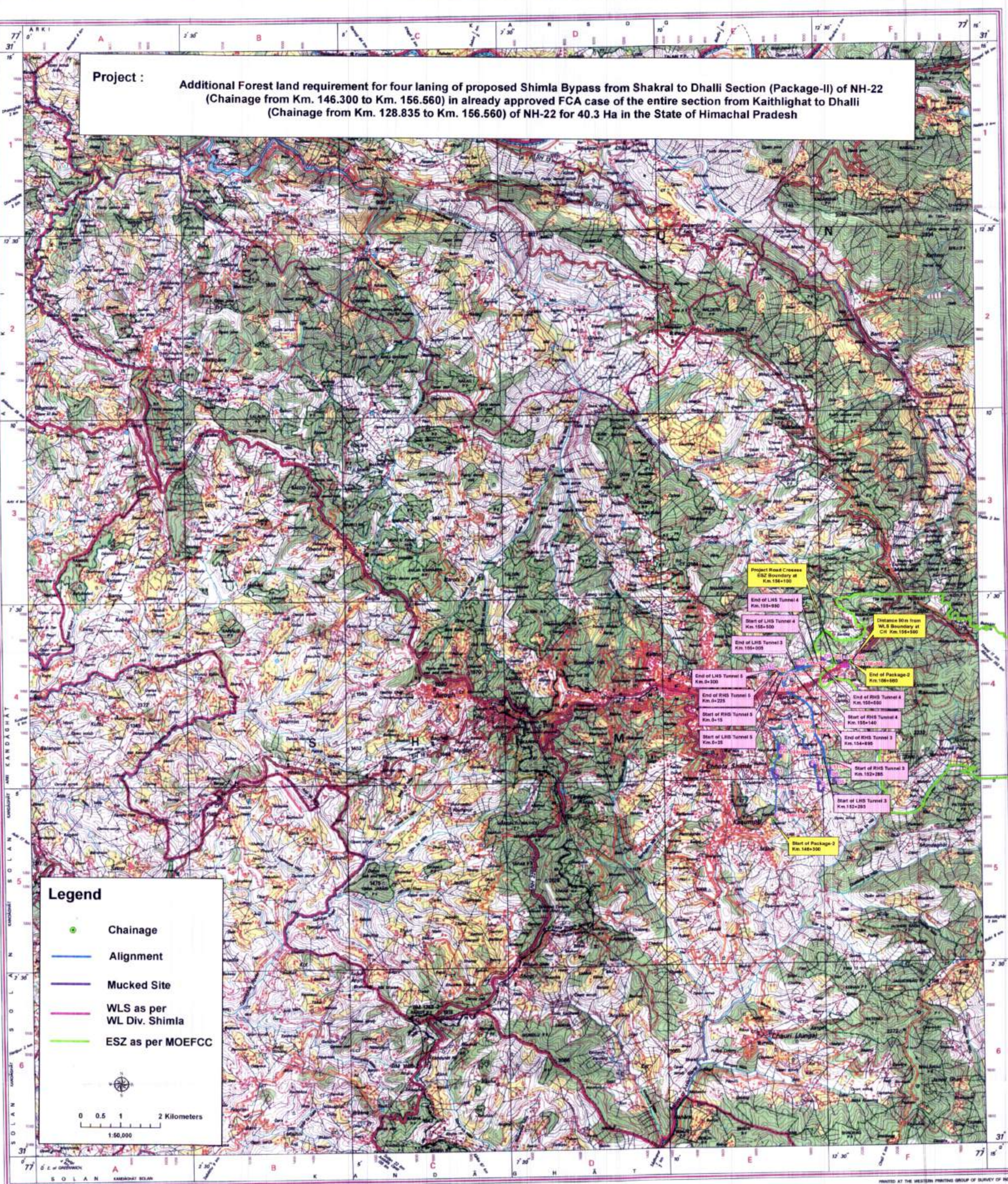
Director
Himachal Pradesh Geo-Spatial Data Centre
Survey of India, Sector 32 A
Chandigarh.

WEBSITE - www.surveyofindia.gov.in

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Project : Additional Forest land requirement for four laning of proposed Shimla Bypass from Shakral to Dhalli Section (Package-II) of NH-22 (Chainage from Km. 146.300 to Km. 156.560) 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



Legend

- Chainage
- Alignment
- Mucked Site
- WLS as per WL Div. Shimla
- ESZ as per MOEFCC



सर्वेक्षण विभाग, भारत सरकार, नई दिल्ली
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Department of Science & Technology, Government of India.

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Divisional Forest Officer
Shimla Forest Division (Urban)
Shimla-2

महानिदेशक (नकलीकी) /GM(T)
एवं परियोजना निदेशक / & Project Director
भारतवासी / N.H.A.I
पंजाब - त्रिनाथ (विशेष) /SHU-Shimla (M.P.)

Full Title of the proposal:- *Additional Forest Land requirement for four laning of NH-05 from Shakral Village to Dhalli section (Shimla Bypass Package II from Km 146+300 to Km 156+560 and Shimla Connectivity from Km 0+000 to Km 0+725 for Design length – 10.985 Km) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 129.050 to Km. 156.507) of NH-22 (New NH-05) for 40.3 Ha in the State of Himachal Pradesh.*

File No. : FP/HP/ROAD/154923/2022

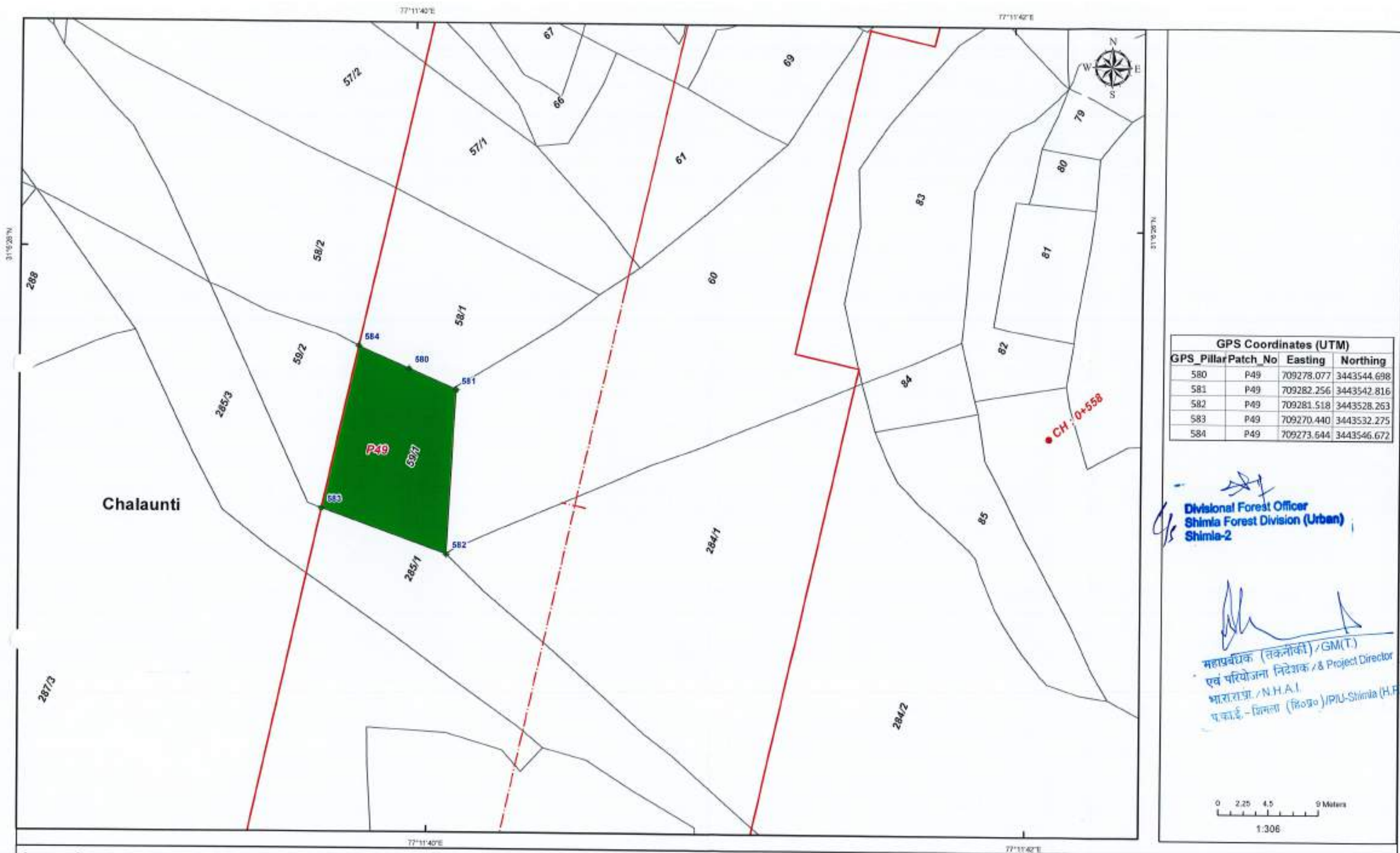
Date of Proposal: 27th April, 2022

CHECK-LIST SERIAL NO. – 05 b

DGPS MAPS



महसूबखाना (तकनीकी) / GM(T.)
एवं परियोजना निदेशक / & Project Director
भा.स.रा.प्र. / N.H.A.I.
प.वा.ई. - शिमला (हि.प्र.) / PIU-Shimla (H.P.)



Legend

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

CHECKLIST Sl. No. 6

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

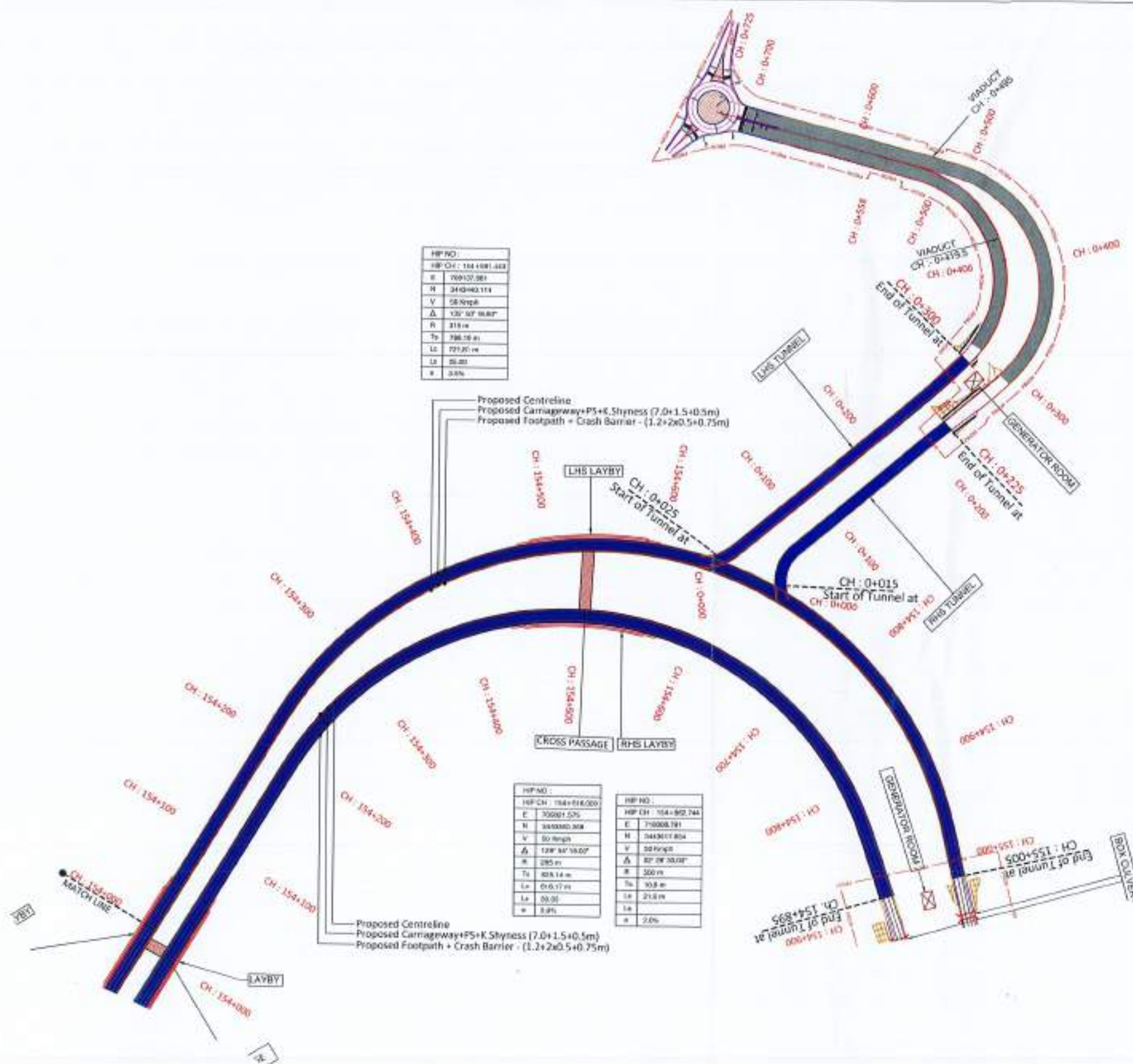
CHECK-LIST SERIAL NO. - 06

LAY-OUT PLAN OF PROJECT SITE

महाप्रबंधक (तकनीकी) / GM(T)
एवं परियोजना निदेशक / & Project Director
भारत राष्ट्रीय राजमार्ग / N.H.A.I.
पश्चाई - शिमला (हिमाचल) / RIU-Shimla (H.P.)

TO SHAKRAL

TO DHALLI



Divisional Forest Officer
Shimla Forest Division (Urban)
Shimla-2

महाप्रबंधक (तकनीकी) / GM(T.)
एवं परियोजना निदेशक / & Project Director
भारत सरकार / N.H.A.I.
पंचकुला - जिला (हिमाचल) / P.U.-Shimla (H.P.)

Note: All dimensions are in meter except otherwise specified.



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Scale :

SCALE : 1 : 2500

Project Title

Construction of Four Lining of NH-5 from Shakral Village to Dhalli section
(Shimla Bypass Package- II from Km 146+300 to Km 156+560 and Shimla
Connectivity from Km 0+000 to Km 0+725 for design length - 10.985 Km)
in the state of Himachal Pradesh on HAM.

Drawing Name
Final Detailed Project Report
LAYOUT PLAN
Ch. Km 154+000 To 155+000
Tunnel (LHS&RHS)

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

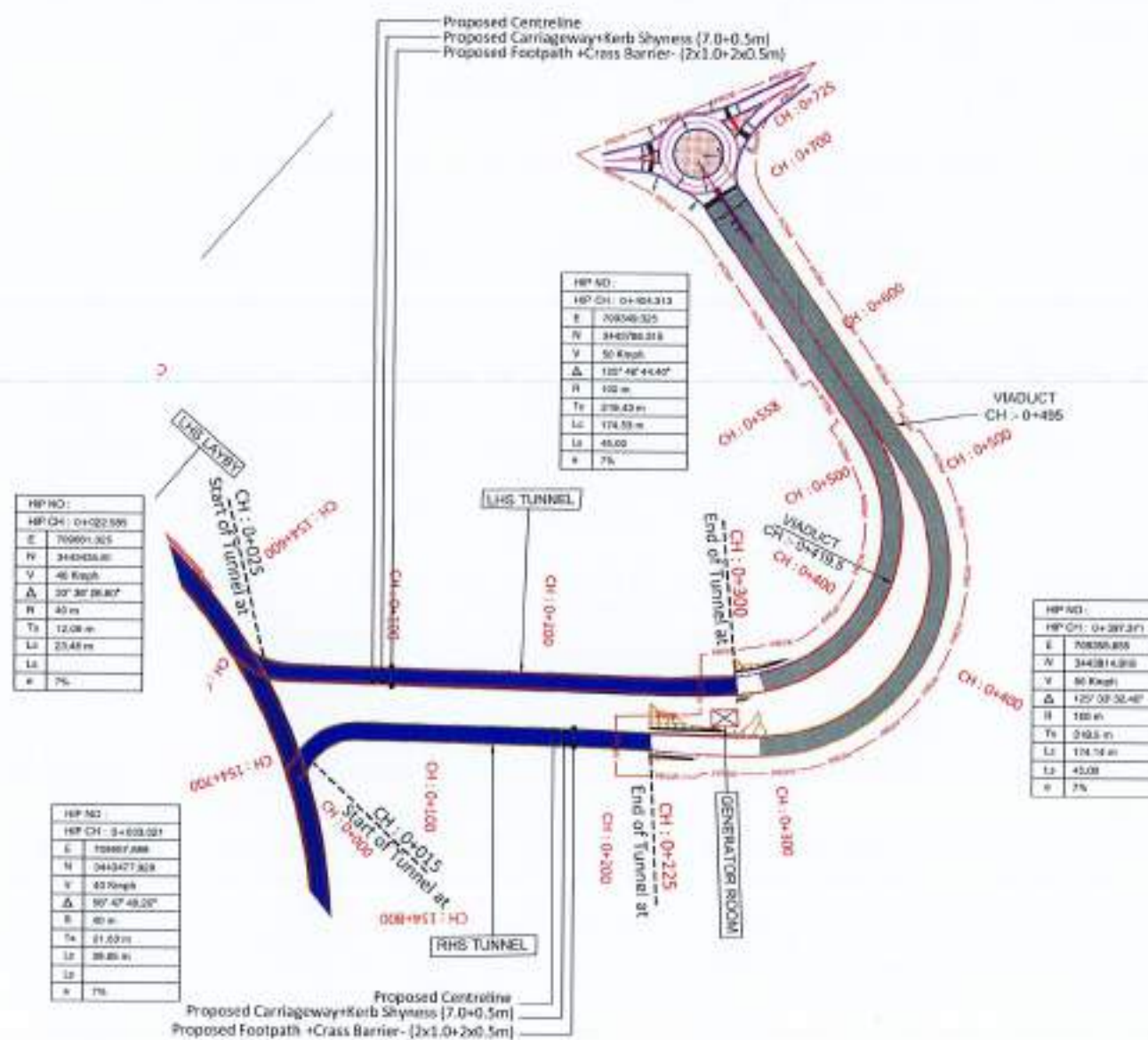


Prepared by	Designed by	Checked by	Approved by
Lata Saini	C.K. Verma	Neeraj Choudhary	Sandeep Bhattacharya

Rev	Revision	Date	Description	Checked by
01	February, 2021		Final DPR	

DRAWING No - NHAI/SHIMLA - BYPASS P&R - IV

TO DHALL



Divisional Forest Officer
Shimla Forest Division (Urban)
Shimla-2



महाप्रबंधक (तकनीकी) /GM(T)
एवं परियोजना निदेशक / & Project Director
भाराराण / N H A.I.
पच्चाई - शिमला (हिप्पा) /PIU-Shimla (H.P.)

Note: All dimension are in meter except otherwise specified



**NATIONAL HIGHWAYS
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Scale :

SCALE 1 - 2500

Project Title





Construction of Four Lining of NH- 5 from Shakral Village to Dhalli section (Shimla Bypass Package- II from Km 146+300 to Km 156+560 and Shimla Connectivity from Km 0+000 to Km 0+725 for design length - 10.985 Km) in the state of Himachal Pradesh on HAM

Plan

Drawing Name
Final Detailed Project Report
LAYOUT PLAN
Tunnel (LHS & RHS)
Connecting to Shinda City



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

			
Prepared by	Reviewed by	Checked by	Approved by

Ref	February, 2022	Final DPR	Checked by
KEYWORD	Date	Description	
Revision			
DRAWING No.: NHAI/NH-5/SHMLA - BYPASS/WP/ 27			Rev

CHECKLIST Sl. No. 7

Full Title of the proposal:- Additional Forest Land requirement for four laning of NH-05 from Shakral Village to Dhalli section (Shimla Bypass Package II from Km 146+300 to Km 156+560 and Shimla Connectivity from Km 0+000 to Km 0+725 for Design length – 10.985 Km) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 129.050 to Km. 156.507) of NH-22 (New NH-05) for 40.3 Ha in the State of Himachal Pradesh.

File No. : FP/HP/ROAD/154923/2022

Date of Proposal: 27th April, 2022

CHECK-LIST SERIAL NO. - 07

STATEMENT SHOWING THE DETAILS OF THE FOREST AREA PROPOSED FOR DIVERSION

Forest Area (Ha.) involved in Shimla (Urban) Forest Division of Shimla Bypass (Pkg.-II)							
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 Taluka	Details Attached	0.0076	Details Attached	

Date : 30.07.2022

Place : Shimla



Signature of User Agency
Office Seal

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

महाप्रबंधक (तकनीकी)/GM(T.)
एवं परियोजना निदेशक / & Project Director
भारत राज. / N.H.A.I.
प.कार्ड. - शिमला (हि०प्र०) / PIU-Shimla (H.P.)

~~Co-intersigned~~

Divisional Forest Officer
Shimla (Urban) Forest Division
Shimla Forest Division (Urban)
Shimla-2

Full Title of the proposal: - Additional Forest land requirement for four laning of NH-05 from Shakral Village to Dhalli section (Shimla Bypass Package II from Km 146+300 to Km 156+560 and Shimla Connectivity from Km 0+000 to Km 0+725 for Design length = 10.985 Km) in already approved FCA case of the entire section from Kaithighat to Dhalli (Chainage from Km. 129.050 to Km. 156.507) of NH-22 (New NH-05) for 40.3 Ha in the State of Himachal Pradesh

File No. : FP/HP/ROAD/154923/2022

Date of Proposal : 27 April 2022

Total Forest Area Break up - Shimla (Urban) Forest Division

Sr.No.	Type	Name of the District	Name of the Taluka	Name of the Village	Survey/Plot Number	Type of Land	Nature of Land	Area (in Hectares)
1	Road	Shimla	Shimla (urban)	Up MahaChalsanti	59/1	Government	Charagah Bili Drakhtian	0.0076
							Grand Total	0.0076


Divisional Forest Officer
Shimla Forest Division (Urban)
Shimla-2


महाप्रबंधक (नकलीकी) / GM(T.)
एवं परियोजना निदेशक / & Project Director
भारतखण्ड / N.H.A.
प.कार्ड - शिमला (हि०प्र०) / PIU-Shimla (H.P.)

CHECKLIST Sl. No. 8

Full Title of the proposal:- Additional Forest Land requirement for four laning of NH-05 from Shakral Village to Dhalli section (Shimla Bypass Package II from Km 146+300 to Km 156+560 and Shimla Connectivity from Km 0+000 to Km 0+725 for Design length – 10.985 Km) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 129.050 to Km. 156.507) of NH-22 (New NH-05) for 40.3 Ha in the State of Himachal Pradesh.

File No. : FP/HP/ROAD/154923/2022

Date of Proposal: 27th April, 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 (Urban) Forest Division of NH-05 (Shimla Bypass Pkg.-II)							
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
1.	Shimla	Shimla	Shimla Rural Taluka	Details Attached	5.3450	Details Attached	

Date : 30.07.2022

Place : Shimla



Signature of User Agency
Office Seal

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

Countersigned -

Divisional Forests Officer
Shimla (Urban) Forest Division
Office Seal

महाप्रबंधक (तकनीकी) / GM(T.)
एवं परियोजना निदेशक / & Project Director
भारत सरकार / N.H.A.I.
प.का.ई. - गिमला (हि.प्र.) / PIU-Shimla (H.P.)

Full Title of the proposal:- Additional Forest land requirement for four laning of proposed Shimla Bypass from Shakral to Dhalli Section (Package-II) of NH-22 (Chainage from Km. 146.300 to Km. 156.560) 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/154923/2022

Date of Proposal : 27 April 2022

Total Area Abstract - Shimla (Urban) Forest Division

S.No.	Type	District	Tehsil	Village	Forest Area (Ha.)	Total Non-Forest Area (Ha.)	Total Area (Ha.)
Road							
1	Road	Shimla	Shimla (urban)	Up MahalChalaunti	0.0076	2.1091	2.1167
2				Total	0.0076	2.1091	2.1167
Muck Disposal Sites							
3	D7	Shimla	Shimla (urban)	Up MahalChalaunti	0.0000	0.4026	0.4026
4	D10	Shimla	Shimla (urban)	Up MahalChalaunti	0.0000	0.3660	0.3660
				Total	0.0000	0.7686	0.7686
Tunnels							
5	T-3	Shimla	Shimla Urban	Upmhal Chalounti	0.0000	1.7912	1.7912
6	T-4	Shimla	Shimla Urban	Upmhal Chalounti	0.0000	0.6761	0.6761
				Total	0.0000	2.4673	2.4673
				Grand Total	0.0076	5.3450	5.3526


 महाप्रबंधक (तकनीकी) / GM(T.)
 एवं परियोजना निदेशक / & Project Director
 भारतराष्ट्र / N.H.A.I.
 एचआई - शिमला (हि०प्र०) / RIU-Shimla (H.P.)

Full Title of the proposal:- Additional Forest land requirement for four laning of NH-05 from Shakral Village to Dhali section (Shimla Bypass Package II from Km 146+300 to Km 156+560 and Shimla Connectivity from Km 0+000 to Km 0+725 for Design length – 10.985 Km) in already approved FCA case of the entire section from Kaithlight to Dhali (Chainage from Km. 129.050 to Km. 156.507) of NH-22 (New NH-05) for 40.3 Ha in the State of Himachal Pradesh

File No. : FP/HP/ROAD/154923/2022

Date of Proposal : 27 April 2022

Total Non Forest Area Break up - Shimla Urban Tehsil

Sr. No.	Type	Name of the District	Name of the Taluka	Name of the Village	Survey/Plot Number	Type of Land	Nature of Land	Area (in Hectares)
1	Road	Shimla	Shimla (urban)	Up MahalChalaunti	285/1	Government	Gair Mumkin Nala	0.0330
2	Road	Shimla	Shimla (urban)	Up MahalChalaunti	286/1	Government	Bakhal Awal	0.0655
3	Road	Shimla	Shimla (urban)	Up MahalChalaunti	287/1	Government	Ghasni	0.0664
4	Road	Shimla	Shimla (urban)	Up MahalChalaunti	287/2	Government	Ghasni	0.0261
5	Road	Shimla	Shimla (urban)	Up MahalChalaunti	305/1	Government	Gair Mumkin Rasta	0.0007
6	Road	Shimla	Shimla (urban)	Up MahalChalaunti	306/2	Government	Ghasni	0.0498
7	Road	Shimla	Shimla (urban)	Up MahalChalaunti	307/1	Government	Ghasni	0.2229
8	Road	Shimla	Shimla (urban)	Up MahalChalaunti	307/2	Government	Ghasni	0.0134
9	Road	Shimla	Shimla (urban)	Up MahalChalaunti	307/3	Government	Ghasni	0.0643
10	Road	Shimla	Shimla (urban)	Up MahalChalaunti	308/1	Government	Gair Mumkin Ahatata	0.0583
11	Road	Shimla	Shimla (urban)	Up MahalChalaunti	309/1	Government	Gair Mumkin Rasta	0.0089
12	Road	Shimla	Shimla (urban)	Up MahalChalaunti	309/2	Government	Gair Mumkin Rasta	0.0016
13	Road	Shimla	Shimla (urban)	Up MahalChalaunti	310/1	Government	Ghasni	0.0358
14	Road	Shimla	Shimla (urban)	Up MahalChalaunti	313/1	Government	Bakhal Awal	0.0022
15	Road	Shimla	Shimla (urban)	Up MahalChalaunti	319/1	Government	Bakhal Abal	0.0051
16	Road	Shimla	Shimla (urban)	Up MahalChalaunti	596/304/1	Government	Gair Mumkin Sadak	0.0855
17	Road	Shimla	Shimla (urban)	Up MahalChalaunti	597/304/1	Government	Gair Mumkin Dhhank	0.0601
18	Road	Shimla	Shimla (urban)	Up MahalChalaunti	597/304/2	Government	Gair Mumkin Dhhank	0.0318
19	Road	Shimla	Shimla (urban)	Up MahalChalaunti	598/311	Government	Gair Mumkin Sadak	0.0454
20	Road	Shimla	Shimla (urban)	Up MahalChalaunti	599/311/1	Government	Ghasni	0.0278
21	Road	Shimla	Shimla (urban)	Up MahalChalaunti	599/311/2	Government	Ghasni	0.0827
22	Road	Shimla	Shimla (urban)	Up MahalChalaunti	599/311/3	Government	Ghasni	0.0036
23	Road	Shimla	Shimla (urban)	Up MahalChalaunti	600/312/1	Government	Gair Mumkin Sadak	0.0109
24	Road	Shimla	Shimla (urban)	Up MahalChalaunti	601/312/1	Government	Ghasni	0.0020
25	Road	Shimla	Shimla (urban)	Up MahalChalaunti	601/312/2	Government	Ghasni	0.0384
26	Road	Shimla	Shimla (urban)	Up MahalChalaunti	603/314/1	Government	Ghasni	0.0018
27	Road	Shimla	Shimla (urban)	Up MahalChalaunti	604/316	Government	Gair Mumkin Sadak	0.0145
28	Road	Shimla	Shimla (urban)	Up MahalChalaunti	605/316/1	Government	Ghasni	0.0038
29	Road	Shimla	Shimla (urban)	Up MahalChalaunti	606/317	Government	Gair Mumkin Sadak	0.0047
30	Road	Shimla	Shimla (urban)	Up MahalChalaunti	607/317/1	Government	Bakhal Awal	0.0041
31	Road	Shimla	Shimla (urban)	Up MahalChalaunti	608/318	Government	Gair Mumkin Sadak	0.0019
32	Road	Shimla	Shimla (urban)	Up MahalChalaunti	609/318/1	Government	Ghasni	0.0056
33	Road	Shimla	Shimla (urban)	Up MahalChalaunti	610/320	Government	Gair Mumkin Sadak	0.0054
34	Road	Shimla	Shimla (urban)	Up MahalChalaunti	611/320/1	Government	Ghasni	0.0100
35	Road	Shimla	Shimla (urban)	Up MahalChalaunti	613/343/1	Government	Ghasni	0.0053
36	Road	Shimla	Shimla (urban)	Up MahalChalaunti	615/344/1	Government	Ghasni	0.0353
37	Road	Shimla	Shimla (urban)	Up MahalChalaunti	100/1/1	Private	Ghasni	0.0074
38	Road	Shimla	Shimla (urban)	Up MahalChalaunti	100/11/1	Private	Gair Mumkin Rasta	0.0016
39	Road	Shimla	Shimla (urban)	Up MahalChalaunti	100/12	Private	Gair Mumkin Rasta	0.0032
40	Road	Shimla	Shimla (urban)	Up MahalChalaunti	100/3/1	Private	Ghasni	0.0233
41	Road	Shimla	Shimla (urban)	Up MahalChalaunti	100/4/1	Private	Ghasni	0.0010
42	Road	Shimla	Shimla (urban)	Up MahalChalaunti	100/5/1	Private	Ghasni	0.0079
43	Road	Shimla	Shimla (urban)	Up MahalChalaunti	100/6	Private	Ghasni	0.0301
44	Road	Shimla	Shimla (urban)	Up MahalChalaunti	100/7	Private	Ghasni	0.0239
45	Road	Shimla	Shimla (urban)	Up MahalChalaunti	100/8	Private	Ghasni	0.0418
46	Road	Shimla	Shimla (urban)	Up MahalChalaunti	100/9/1	Private	Ghasni	0.0067
47	Road	Shimla	Shimla (urban)	Up MahalChalaunti	25/1	Private	Ghasni	0.0087

महाप्रबंधक (सकल) / GM(T)
एवं परियोजना निदेशक / & Project Director
भारतवाणिज्य / N.H.A.I.
पकाई - शिमला (10000) / P.W. Section (H.P.)

48	Road	Shimla	Shimla (urban)	Up MahalChalaunti	27/1	Private	Gair Mumkin Hotel Pakka Three Storey	0.0978
49	Road	Shimla	Shimla (urban)	Up MahalChalaunti	28/1	Private	Gair Mumkin Rasta	0.0151
50	Road	Shimla	Shimla (urban)	Up MahalChalaunti	28/1	Private	Ghasni	0.0839
51	Road	Shimla	Shimla (urban)	Up MahalChalaunti	29/10	Private	Ghasni	0.0210
52	Road	Shimla	Shimla (urban)	Up MahalChalaunti	29/11/1	Private	Gair Mumkin Rasta	0.0025
53	Road	Shimla	Shimla (urban)	Up MahalChalaunti	29/11/2	Private	Gair Mumkin Rasta	0.0210
54	Road	Shimla	Shimla (urban)	Up MahalChalaunti	29/1/1	Private	Ger Mumkin Rasta	0.0071
55	Road	Shimla	Shimla (urban)	Up MahalChalaunti	29/2/1	Private	Ghasni	0.0073
56	Road	Shimla	Shimla (urban)	Up MahalChalaunti	29/3	Private	Ghasni	0.0203
57	Road	Shimla	Shimla (urban)	Up MahalChalaunti	29/4	Private	Ghasni	0.0202
58	Road	Shimla	Shimla (urban)	Up MahalChalaunti	29/5	Private	Ghasni	0.0203
59	Road	Shimla	Shimla (urban)	Up MahalChalaunti	29/6/1	Private	Ghasni	0.0116
60	Road	Shimla	Shimla (urban)	Up MahalChalaunti	29/8/1	Private	Ghasni	0.0060
61	Road	Shimla	Shimla (urban)	Up MahalChalaunti	29/9	Private	Ghasni	0.0210
62	Road	Shimla	Shimla (urban)	Up MahalChalaunti	30/1	Private	Ghasni	0.0160
63	Road	Shimla	Shimla (urban)	Up MahalChalaunti	306/1	Private	Ghasni	0.0013
64	Road	Shimla	Shimla (urban)	Up MahalChalaunti	37/9/2	Private	Ghasni	0.0190
65	Road	Shimla	Shimla (urban)	Up MahalChalaunti	37/10	Private	Ghasni	0.0220
66	Road	Shimla	Shimla (urban)	Up MahalChalaunti	37/11	Private	Ghasni	0.0204
67	Road	Shimla	Shimla (urban)	Up MahalChalaunti	37/12	Private	Ghasni	0.0194
68	Road	Shimla	Shimla (urban)	Up MahalChalaunti	37/13	Private	Ghasni	0.0180
69	Road	Shimla	Shimla (urban)	Up MahalChalaunti	37/23/1	Private	Ghasni	0.0014
70	Road	Shimla	Shimla (urban)	Up MahalChalaunti	37/24/2	Private	Ghasni	0.0142
71	Road	Shimla	Shimla (urban)	Up MahalChalaunti	37/25	Private	Ghasni	0.0149
72	Road	Shimla	Shimla (urban)	Up MahalChalaunti	37/26	Private	Ghasni	0.0136
73	Road	Shimla	Shimla (urban)	Up MahalChalaunti	37/27	Private	Ghasni	0.0124
74	Road	Shimla	Shimla (urban)	Up MahalChalaunti	37/28/1	Private	Ghasni	0.0083
75	Road	Shimla	Shimla (urban)	Up MahalChalaunti	37/30/1	Private	Ger Mumkin Rasta	0.0128
76	Road	Shimla	Shimla (urban)	Up MahalChalaunti	37/8/1	Private	Ghasni	0.0006
77	Road	Shimla	Shimla (urban)	Up MahalChalaunti	37/9/1	Private	Ghasni	0.0019
78	Road	Shimla	Shimla (urban)	Up MahalChalaunti	38/10/1	Private	Bakhal Awal	0.0055
79	Road	Shimla	Shimla (urban)	Up MahalChalaunti	38/11	Private	Ghasni	0.0095
80	Road	Shimla	Shimla (urban)	Up MahalChalaunti	38/12	Private	Ghasni	0.0105
81	Road	Shimla	Shimla (urban)	Up MahalChalaunti	38/13	Private	Ghasni	0.0095
82	Road	Shimla	Shimla (urban)	Up MahalChalaunti	38/14	Private	Ghasni	0.0078
83	Road	Shimla	Shimla (urban)	Up MahalChalaunti	40/1	Private	Ghasni	0.0214
84	Road	Shimla	Shimla (urban)	Up MahalChalaunti	57/1	Private	Ghasni	0.0135
85	Road	Shimla	Shimla (urban)	Up MahalChalaunti	570/555/38	Private	Ghasni	0.0154
86	Road	Shimla	Shimla (urban)	Up MahalChalaunti	571/555/39	Private	Ghasni	0.0114
87	Road	Shimla	Shimla (urban)	Up MahalChalaunti	572/555/39/1	Private	Ghasni	0.0112
88	Road	Shimla	Shimla (urban)	Up MahalChalaunti	58/1	Private	Ghasni	0.0131
89	Road	Shimla	Shimla (urban)	Up MahalChalaunti	60	Private	Ghasni	0.0467
90	Road	Shimla	Shimla (urban)	Up MahalChalaunti	61	Private	Ghasni	0.0200
91	Road	Shimla	Shimla (urban)	Up MahalChalaunti	62/1	Private	Ghasni	0.0018
92	Road	Shimla	Shimla (urban)	Up MahalChalaunti	652/573/555/39/1	Private	Ghasni	0.0275
93	Road	Shimla	Shimla (urban)	Up MahalChalaunti	66/1	Private	Ger Mumkin Rasta	0.0051
94	Road	Shimla	Shimla (urban)	Up MahalChalaunti	67	Private	Ghasni	0.0049
95	Road	Shimla	Shimla (urban)	Up MahalChalaunti	68	Private	Ger Mumkin Rasta	0.0091
96	Road	Shimla	Shimla (urban)	Up MahalChalaunti	69	Private	Ghasni	0.0112
97	Road	Shimla	Shimla (urban)	Up MahalChalaunti	70	Private	Ghasni	0.0021
98	Road	Shimla	Shimla (urban)	Up MahalChalaunti	71	Private	Ger Mumkin Rasta	0.0067
99	Road	Shimla	Shimla (urban)	Up MahalChalaunti	72/1	Private	Ger Mumkin Rasta	0.0026
							Total	2.1091
101	D7	Shimla	Shimla (urban)	Up MahalChalaunti	25/2	Private	Ghasni	0.0058
102	D7	Shimla	Shimla (urban)	Up MahalChalaunti	29/1/2	Private	Ger Mumkin Rasta	0.0012
103	D7	Shimla	Shimla (urban)	Up MahalChalaunti	29/2/2	Private	Ghasni	0.0244
104	D7	Shimla	Shimla (urban)	Up MahalChalaunti	30/2	Private	Ghasni	0.0285
105	D7	Shimla	Shimla (urban)	Up MahalChalaunti	31/1	Private	Ghasni	0.0543
106	D7	Shimla	Shimla (urban)	Up MahalChalaunti	32/1	Private	Ghasni	0.0013
107	D7	Shimla	Shimla (urban)	Up MahalChalaunti	32/2	Private	Ghasni	0.0006
108	D7	Shimla	Shimla (urban)	Up MahalChalaunti	33/4/1	Private	Ghasni	0.0127
109	D7	Shimla	Shimla (urban)	Up MahalChalaunti	34/1	Private	Ghasni	0.0010
110	D7	Shimla	Shimla (urban)	Up MahalChalaunti	34/2	Private	Ghasni	0.0029
111	D7	Shimla	Shimla (urban)	Up MahalChalaunti	35/2/1	Private	Ghasni	0.0025

महाप्रबंधक (तकनीकी) / GM(T)

एवं परियोजना निदेशक / & Project Director

भारत रा. प्र. / N.H.A.I.

पञ्जाई - शिमला (हि.प्र.) / PIU-Shimla (H.P.)

112	D7	Shimla	Shimla (urban)	Up MahalChalaunti	35/3	Private	Ghasni	0.0261
113	D7	Shimla	Shimla (urban)	Up MahalChalaunti	35/4	Private	Ghasni	0.0081
114	D7	Shimla	Shimla (urban)	Up MahalChalaunti	36/2	Private	Ghasni	0.0002
115	D7	Shimla	Shimla (urban)	Up MahalChalaunti	37/18/1	Private	Ghasni	0.0011
116	D7	Shimla	Shimla (urban)	Up MahalChalaunti	37/19/1	Private	Ghasni	0.0128
117	D7	Shimla	Shimla (urban)	Up MahalChalaunti	37/20	Private	Ghasni	0.0259
118	D7	Shimla	Shimla (urban)	Up MahalChalaunti	37/21	Private	Ghasni	0.0166
119	D7	Shimla	Shimla (urban)	Up MahalChalaunti	37/22	Private	Ghasni	0.0162
120	D7	Shimla	Shimla (urban)	Up MahalChalaunti	37/23/2	Private	Ghasni	0.0148
121	D8	Shimla	Shimla (urban)	Up MahalChalaunti	37/24/1	Private	Ghasni	0.0007
122	D7	Shimla	Shimla (urban)	Up MahalChalaunti	37/3/1	Private	Ghasni	0.0064
123	D7	Shimla	Shimla (urban)	Up MahalChalaunti	37/30/2	Private	Ger Mumkin Rasta	0.0260
124	D7	Shimla	Shimla (urban)	Up MahalChalaunti	37/36/1	Private	Ghasni	0.0016
125	D7	Shimla	Shimla (urban)	Up MahalChalaunti	37/4	Private	Ghasni	0.0048
126	D7	Shimla	Shimla (urban)	Up MahalChalaunti	37/5	Private	Ghasni	0.0072
127	D7	Shimla	Shimla (urban)	Up MahalChalaunti	37/6	Private	Ghasni	0.0126
128	D7	Shimla	Shimla (urban)	Up MahalChalaunti	37/7	Private	Ghasni	0.0243
129	D7	Shimla	Shimla (urban)	Up MahalChalaunti	37/8/2	Private	Ghasni	0.0222
130	D7	Shimla	Shimla (urban)	Up MahalChalaunti	38/16	Private	Ger Mumkin Rasta	0.0011
131	D7	Shimla	Shimla (urban)	Up MahalChalaunti	38/6/1	Private	Ghasni	0.0056
132	D7	Shimla	Shimla (urban)	Up MahalChalaunti	38/7	Private	Ghasni	0.0100
133	D7	Shimla	Shimla (urban)	Up MahalChalaunti	38/8	Private	Ghasni	0.0100
134	D7	Shimla	Shimla (urban)	Up MahalChalaunti	38/9	Private	Ghasni	0.0100
135	D7	Shimla	Shimla (urban)	Up MahalChalaunti	38/10/2	Private	Bakhal Awal	0.0040
136	D10	Shimla	Shimla (urban)	Up MahalChalaunti	40/2	Private	Ghasni	0.1072
137	D10	Shimla	Shimla (urban)	Up MahalChalaunti	41	Private	Ger Mumkin Nala	0.0333
138	D10	Shimla	Shimla (urban)	Up MahalChalaunti	42	Private	Ghasni	0.0188
139	D10	Shimla	Shimla (urban)	Up MahalChalaunti	43	Private	Ghasni	0.1145
140	D10	Shimla	Shimla (urban)	Up MahalChalaunti	50	Private	Gair Mumkin Nala	0.0400
141	D10	Shimla	Shimla (urban)	Up MahalChalaunti	51/1	Private	Ghasni	0.0522
							Total	0.7686
143	T-3	Shimla	Shimla (urban)	Up MahalChalaunti	534	Private	Ghasni	0.0613
144	T-3	Shimla	Shimla (urban)	Up MahalChalaunti	546	Private	Ghasni	0.0189
145	T-3	Shimla	Shimla (urban)	Up MahalChalaunti	545	Private	Ghasni	0.0199
146	T-3	Shimla	Shimla (urban)	Up MahalChalaunti	544	Private	Ghasni	0.0156
147	T-3	Shimla	Shimla (urban)	Up MahalChalaunti	543	Private	Ghasni	0.0017
148	T-3	Shimla	Shimla (urban)	Up MahalChalaunti	535	Private	Charagah Bila Darakhtan	0.1675
149	T-3	Shimla	Shimla (urban)	Up MahalChalaunti	530	Private	Ghasni	0.0036
150	T-3	Shimla	Shimla (urban)	Up MahalChalaunti	536	Private	G.M. Rasta	0.0073
151	T-3	Shimla	Shimla (urban)	Up MahalChalaunti	538	Private	G.M. Kabristan	0.2589
152	T-3	Shimla	Shimla (urban)	Up MahalChalaunti	540	Private	G.M. Rasta	0.0361
153	T-3	Shimla	Shimla (urban)	Up MahalChalaunti	542	Private	Ghasni	0.6446
154	T-3	Shimla	Shimla (urban)	Up MahalChalaunti	170	Private	Ghasni	0.3645
155	T-3	Shimla	Shimla (urban)	Up MahalChalaunti	539	Private	G.M. Rasta	0.0019
156	T-3	Shimla	Shimla (urban)	Up MahalChalaunti	175	Private	Ghasni	0.0005
157	T-3	Shimla	Shimla (urban)	Up MahalChalaunti	176	Private	G.M. Makan Pakka 2 Manjila	0.0099
158	T-3	Shimla	Shimla (urban)	Up MahalChalaunti	177	Private	G.M. Saihan	0.0016
159	T-3	Shimla	Shimla (urban)	Up MahalChalaunti	178	Private	G.M. Makan Pakka 2 Manjila	0.0121
160	T-3	Shimla	Shimla (urban)	Up MahalChalaunti	174	Private	G.M. Saihan	0.0122
161	T-3	Shimla	Shimla (urban)	Up MahalChalaunti	172	Private	G.M. Rasoi Ghar	0.0019
162	T-3	Shimla	Shimla (urban)	Up MahalChalaunti	173	Private	G.M. Makan Pakka 2 Manjila	0.0182
163	T-3	Shimla	Shimla (urban)	Up MahalChalaunti	171	Private	G.M. Gali	0.0049
164	T-3	Shimla	Shimla (urban)	Up MahalChalaunti	169	Private	G.M. Rasta	0.0122
165	T-3	Shimla	Shimla (urban)	Up MahalChalaunti	168	Private	Ghasni	0.0927
166	T-3	Shimla	Shimla (urban)	Up MahalChalaunti	165	Private	G.M. Makan Pakka 2 Manjila	0.0008
167	T-3	Shimla	Shimla (urban)	Up MahalChalaunti	166	Private	G.M. Gali	0.0002
168	T-3	Shimla	Shimla (urban)	Up MahalChalaunti	167	Private	G.M. Makan Pakka 1 Manjila	0.0045
169	T-3	Shimla	Shimla (urban)	Up MahalChalaunti	553	Govt.	G.M. Aahata	0.0073
170	T-3	Shimla	Shimla (urban)	Up MahalChalaunti	547	Govt.	G.M. Aahata	0.0045
171	T-3	Shimla	Shimla (urban)	Up MahalChalaunti	537	Govt.	G.M. Khandar	0.0025
172	T-3	Shimla	Shimla (urban)	Up MahalChalaunti	541	Govt.	G.M. Aahata	0.0054
173	T-4	Shimla	Shimla (urban)	Up MahalChalaunti	164	Private	G.M. Saihan	0.0003
174	T-4	Shimla	Shimla (urban)	Up MahalChalaunti	179	Private	G.M. Saihan	0.0037

महाप्रबंधक (तकनीकी)/G.M.I.I.
एवं परियोजना निदेशक / & Project Director
भारतवाय / N.H.A.I.
पंचाई - शिमला (हि०प्र०) / P.W.-Shimla (H.P.)

175	T-4	Shimla	Shimla (urban)	Up MahalChalaunti	180	Private	Ghasni	0.1709
176	T-4	Shimla	Shimla (urban)	Up MahalChalaunti	180	Private	Charagah Darakhtan	0.0989
177	T-4	Shimla	Shimla (urban)	Up MahalChalaunti	158	Private	Ghasni	0.1117
178	T-4	Shimla	Shimla (urban)	Up MahalChalaunti	157	Private	G.M. Rasta	0.0201
179	T-4	Shimla	Shimla (urban)	Up MahalChalaunti	184	Private	Bakhal Awwal	0.0017
180	T-4	Shimla	Shimla (urban)	Up MahalChalaunti	188	Private	Ghasni	0.0209
181	T-4	Shimla	Shimla (urban)	Up MahalChalaunti	189	Private	Ghasni	0.0342
182	T-4	Shimla	Shimla (urban)	Up MahalChalaunti	156	Private	G.M. Rasta	0.0187
183	T-4	Shimla	Shimla (urban)	Up MahalChalaunti	155	Private	Bakhal Awwal	0.0355
184	T-4	Shimla	Shimla (urban)	Up MahalChalaunti	154	Private	Ghasni	0.0719
185	T-4	Shimla	Shimla (urban)	Up MahalChalaunti	153	Private	G.M. Rasta	0.0022
186	T-4	Shimla	Shimla (urban)	Up MahalChalaunti	151	Private	Bakhal Awwal	0.0018
187	T-4	Shimla	Shimla (urban)	Up MahalChalaunti	152	Private	Ghasni	0.0005
188	T-4	Shimla	Shimla (urban)	Up MahalChalaunti	187	Private	Banjar Kadeem	0.0038
189	T-4	Shimla	Shimla (urban)	Up MahalChalaunti	190	Private	Bakhal Awwal	0.0559
190	T-4	Shimla	Shimla (urban)	Up MahalChalaunti	197	Private	Ghasni	0.0002
191	T-4	Shimla	Shimla (urban)	Up MahalChalaunti	192	Private	G.M. Saihan	0.0158
192	T-4	Shimla	Shimla (urban)	Up MahalChalaunti	548	Private	G.M. Rasol Ghar	0.0017
193	T-4	Shimla	Shimla (urban)	Up MahalChalaunti	191	Private	G.M. Makan Pakka 1 Manjila	0.0042
194	T-4	Shimla	Shimla (urban)	Up MahalChalaunti	194	Private	Ghasni	0.0010
195	T-4	Shimla	Shimla (urban)	Up MahalChalaunti	195	Private	Banjar Kadeem	0.0005
196	T-4	Shimla	Shimla (urban)	Up MahalChalaunti	196	Private	G.M. Makan Pakka 1 Manjila	0.0000
							Total	2.4673
							Grand Total	5.3450


 सहायक (तकनीकी) / GM(T.)
 एवं परियोजना निदेशक / & Project Director
 आगरा रो. / N.H.A.I.
 पंचसई - शिमला (हि०प्र०) / PIU-Shimla (H.P.)

CHECKLIST SI. No. 9

Full Title of the proposal:- *Additional Forest Land requirement for four laning of NH-05 from Shakral Village to Dhalli section (Shimla Bypass Package II from Km 146+300 to Km 156+560 and Shimla Connectivity from Km 0+000 to Km 0+725 for Design length – 10.985 Km) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 129.050 to Km. 156.507) of NH-22 (New NH-05) for 40.3 Ha in the State of Himachal Pradesh.*

File No. : FP/HP/ROAD/154923/2022

Date of Proposal: 27th April, 2022

CHECK-LIST SERIAL NO. - 09

**CERTIFICATE FOR NON-AVAILABILITY OF NON-FOREST LAND FOR THE
PROJECT**

(OBTAINED)

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

No.SML-SR-57/2022- 1272
Office of the Deputy Commissioner,
Shimla, District Shimla, H.P.

Dated, Shimla-1 the

04th July, 2022.

NON AVAILABILITY OF NON FOREST LAND CERTIFICATE

Certified that no alternative suitable Non Forest land is available for construction of Bypass from Shakral to Dhalli Section on NH-22, The diversion of forest land area measuring **19.1788 Hect.** situated in Mohal/Mauja Chamyana, Jungal Mehfuja Mehduda Ganoti, Jungal Mehfuja Mehduda Mashobra, Lambi Dhar, Malyana-I, Mevag, Shehnan, Shakral, UP Mahal Tilla, Shurala (371), Chakkdayal, Chalaunti, Sub Division Shimla (Rural) and (Urban) 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.	Possession of Land	Area in Hectares	Classification of Land
1	Shimla (Rural)	Chamyana	1008/3/2/1	Government	0.0725	Charagah Drakhtan
		Chamyana	1008/3/2/2	Government	0.7290	Charagah Drakhtan
		Chamyana	1012/1	Government	0.0355	Gair Mumkin Raasta
		Chamyana	1014/1	Government	0.0475	Charagah Drakhtan
		Chamyana	1015/1	Government	0.0016	Gair Mumkin Raasta
					0.8861	Total
		Jungal Mehfuja Mehduda Ganoti	17/1	Government	0.2012	Jungal Mehfuja Mehduda
		Jungal Mehfuja Mehduda Ganoti	17/2	Government	0.4077	Jungal Mehfuja Mehduda

महाप्रबंधक (सड़नीकी) / GM(T)
एवं परियोजना निदेशक / & Project Director
भारत राज / N.H.A.I.
प.का.ई. - जिला (हि.प्र.) / PIU-Shimla (H.P.)

			0.8383	Total
Shehnai	109/3/1	Private	0.0365	Van
Shehnai	129/1	Private	0.0538	Van
Shehnai	130/1	Private	0.1743	Van
Shehnai	132/1	Private	0.1693	Van
Shehnai	134/1	Private	0.4054	Van
Shehnai	135/1	Private	0.8935	Van
Shehnai	142/1/1	Government	0.0739	Charagah Drakhtan
Shehnai	306/1/1	Government	0.0660	Charagah Bila Drakhtan
Shehnai	376/1	Government	0.0032	Gair Mumkin Nala
Shehnai	132/2	Private	0.3721	Van
Shehnai	133/2	Private	0.6354	Van
Shehnai	130/2	Private	0.4890	Van
Shehnai	111/2	Private	0.4157	Van
Shehnai	108/2	Private	0.2112	Van
Shehnai	110/2	Private	0.0400	Van
Shehnai	109/2	Private	0.4648	Van
Shehnai	134/2	Private	0.4000	Van
Shehnai	131/2	Private	0.1539	Van
Shehnai	121/2	Private	0.0708	Van
			5.1988	Total
Shakral	78/1	Government	0.0126	Charagah Drakhtan
			0.0126	Total
UP MahatTilla	106/1	Government	0.0538	Gair Mumkin Nala
UP MahatTilla	109/1	Government	0.0489	Gair Mumkin Nala
UP MahatTilla	111/1	Government	0.4425	Charagah Drakhtan
			0.5452	Total
Chamyana	1008/1/2/1	Government	0.8080	Charagah Drakhtan
			0.8080	Total
LambiDhar	100/2	Government	0.0056	Ger Mumkin Rasta

गृहप्रबंधक (तकनीकी) / GM(T)
 एवं परियोजना निदेशक / & Project Director
 भारत रा. प्रा. / N.H.A.I.
 प.का.ई. - शिमला (हि.प्र.) / P.U. Shimla (H.P.)

					0.0076	Total
					19.1788 Hect.	Grand Total

Deputy Commissioner,
Shimla.



महाप्रबंधक (तकनीकी) / GM(T.)
एवं परियोजना निदेशक / & Project Director
भारत रा. प्रा. / N.H.A.I.
पं.काई - शिमला (हि.प्र.) / PIU-Shimla (H.P.)

JOINT INSPECTION

JOINT INSPECTION REPORT FOR DIVERSION OF FOREST LAND MEASURING 19.1712 Hect. FOR CONSTRUCTION OF FOUR LANING OF PROPOSED SHIMLA BYPASS FROM SHAKRAL TO DHALLI SECTION (PACKAGE II) (KM 146.300 TO KM TO KM 156.560) OF NH-22 (NEW NH-05) IN SHIMLA FOREST DIVISION.

DATE OF INSPECTION: 09.05.2022 & 11.05.2022

A Joint Inspection of Additional Forest Land was carried out on 09.05.2022 & 11.05.2022 in revenue villages Shakral, Kamali, Jungle Mehfuja Mehduda Ganoti, Malayana, Shehnan, Chamayana, Shurala, Mevag, Chhakdayal, Up Mohal Tilla, Lambidhar, Jungle Mehfuja Mehduda Mashobra, and Dhalli for the proposed diversion of additional forest land measuring 19.1712 hectare required for four laning of Shakral to Dhalli Section of NH-22 (New NH-05). Khasra No wise detail of the FCA proposal which are coming in the additional forest land is enclosed as **Annexure I**.


It is to be mentioned that Stage II Approval of FCA Case of 40.3 Hect. is already accorded by MOEF&CC vide their letter dated 15.09.2017 for both packages of Shimla Bypass from Kaithalighat to Dhalli of NH-22 (New NH-05).

The additional forest land proposed for FCA is required for four laning of structures against two lane in previous proposal, dumping sites for muck disposal, access roads, slope protection methods for hill stability and minor modifications for improving the geometry of the highway. The proposed alignment also contains private land Classified Van/Vani Jungle Jhari which is also included in the additional forest area in the current FCA proposal.


Therefore, it is certified that the forest land proposed to be diverted is inescapable and all other alternatives for the purpose have been explored. The forest land proposed to be diverted for the proposed project is bare minimum. Therefore, the above mentioned forest land is recommended for the construction of four laning of Shakral to Dhalli Section (Shimla Bypass Package II) of NH-22 (New NH-05).


Manager (Tech.)
NHAI PIU SHIMLA


Project Director
NHAI PIU SHIMLA



Naib Tehsildar (Retd.)
CALA- Shimla, H.P.


Sub-Divisional Officer
Shimla (Rural), Distt. Shimla H.P.


Range Forest Officer
Mashobra
Distt. Shimla, H.P.


Divisional Forest Officer,
Shimla Forest Division

The road was constructed in violation to TFA 1927 upto 140m in length and 30m wide by Sh. Shal Kumar S/o Ramesh N. w/o Lambidhar Dhalli at Kh. No. 169/3, DR. was issued vide DR. No. 040/322 dated 20/05/2022 and was challenged in the court of CJM Shimla.


Range Forest Officer
Mashobra Forest Range
Mashobra, Shimla


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

Full Title of the proposal:- Additional Forest land requirement for four laning of proposed Shimla Bypass from Shakral to Dhali Section (Package-II) of NH-22 (Chainage from Km. 146.300 to Km. 156.560) in already approved FCA case of the entire section from Kalihighat to Dhali (Chainage from Km. 128.635 to Km. 156.560) of NH-22 for 40.3 Ha in the State of Himachal Pradesh

Total Forest Area Break up - Shimla Forest Division

Sr. No.	Type	Name of the District	Name of the Taluka	Name of the Village	Survey/Plot Number	Type of Land	Nature of Land	Area (in Hectares)
1	Road	Shimla	Shimla Rural	Chamyana	1008/3/2/1	Government	Charagah Drakhtan	0.0725
2	Road	Shimla	Shimla Rural	Chamyana	1008/3/2/2	Government	Charagah Drakhtan	0.7290
3	Road	Shimla	Shimla Rural	Chamyana	1012/1	Government	Gair Mumkin Raasta	0.0355
4	Road	Shimla	Shimla Rural	Chamyana	1014/1	Government	Charagah Drakhtan	0.0475
5	Road	Shimla	Shimla Rural	Chamyana	1015/1	Government	Gair Mumkin Rasta	0.0016
6							Total	0.8861
7	Road	Shimla	Shimla Rural	Jungal Mehruja Mehuda Ganoti	17/1	Government	Jungal Mehruja Mehuda	0.2012
8	Road	Shimla	Shimla Rural	Jungal Mehruja Mehuda Ganoti	17/2	Government	Jungal Mehruja Mehuda	0.4077
9	Road	Shimla	Shimla Rural	Jungal Mehruja Mehuda Ganoti	17/3	Government	Jungal Mehruja Mehuda	0.1780
10							Total	0.7869
11	Road	Shimla	Shimla Rural	Jungal Mehruja Mehuda Mashobra	150/2/1	Government	Jungal Mehruja Mehuda	1.0484
12	Road	Shimla	Shimla Rural	Jungal Mehruja Mehuda Mashobra	150/2/2	Government	Jungal Mehruja Mehuda	0.4652
13							Total	1.5136
14	Road	Shimla	Shimla Rural	Kamali	12/1	Private	Van	0.0151
15							Total	0.0151
16	Road	Shimla	Shimla Rural	LambiDhar	100/1	Government	Gair Mumkin Rasta	0.0180
17	Road	Shimla	Shimla Rural	LambiDhar	140/1	Government	Gair Mumkin Rasta	0.0120
18	Road	Shimla	Shimla Rural	LambiDhar	168/1	Government	Charagah Drakhtan	0.0412
19	Road	Shimla	Shimla Rural	LambiDhar	169/1	Government	Charagah Drakhtan	0.1420
20	Road	Shimla	Shimla Rural	LambiDhar	169/3	Government	Charagah Drakhtan	0.1205
21	Road	Shimla	Shimla Rural	LambiDhar	169/4	Government	Charagah Drakhtan	0.0149
22	Road	Shimla	Shimla Rural	LambiDhar	169/5	Government	Charagah Drakhtan	0.0527
23	Road	Shimla	Shimla Rural	LambiDhar	19/1	Government	Gair Mumkin Rasta	0.0014
24	Road	Shimla	Shimla Rural	LambiDhar	20/1	Government	Charagah Drakhtan	0.0160
25	Road	Shimla	Shimla Rural	LambiDhar	44/1	Government	Charagah Drakhtan	0.0032
26	Road	Shimla	Shimla Rural	LambiDhar	45/2	Government	Charagah Bila Drakhtan	0.0019
27	Road	Shimla	Shimla Rural	LambiDhar	46	Government	Charagah Bila Drakhtan	0.0058
28	Road	Shimla	Shimla Rural	LambiDhar	48/1	Government	Charagah Drakhtan	0.0101
29	Road	Shimla	Shimla Rural	LambiDhar	78	Government	Gair Mumkin Rasta	0.0161
30							Total	0.4550
31	Road	Shimla	Shimla Rural	Malyana-I	611/2	Government	Charagah Bila Drakhtan	0.2360
32							Total	0.2360
33	Road	Shimla	Shimla Rural	Mevag	291/3/1	Government	Charagah Drakhtan	0.5417
34	Road	Shimla	Shimla Rural	Mevag	291/3/2	Government	Charagah Drakhtan	0.2422
35	Road	Shimla	Shimla Rural	Mevag	620/3/1	Government	Charagah Drakhtan	0.0544
36							Total	0.8383
37	Road	Shimla	Shimla Rural	Shehnan	109/3/1	Private	Van	0.0965
38	Road	Shimla	Shimla Rural	Shehnan	129/1	Private	Van	0.0638
39	Road	Shimla	Shimla Rural	Shehnan	130/1	Private	Van	0.1743
40	Road	Shimla	Shimla Rural	Shehnan	132/1	Private	Van	0.1893
41	Road	Shimla	Shimla Rural	Shehnan	134/1	Private	Van	0.4054
42	Road	Shimla	Shimla Rural	Shehnan	135/1	Private	Van	0.8935
43	Road	Shimla	Shimla Rural	Shehnan	142/1/1	Government	Charagah Drakhtan	0.0739
44	Road	Shimla	Shimla Rural	Shehnan	306/1/1	Government	Charagah Bila Drakhtan	0.0680
45	Road	Shimla	Shimla Rural	Shehnan	376/1	Government	Gair Mumkin Nala	0.0032
46	Road	Shimla	Shimla Rural	Shehnan	132/2	Private	Van	0.3721
47	Road	Shimla	Shimla Rural	Shehnan	133/2	Private	Van	0.6354
48	Road	Shimla	Shimla Rural	Shehnan	130/2	Private	Van	0.4890
49	Road	Shimla	Shimla Rural	Shehnan	111/2	Private	Van	0.4157
50	Road	Shimla	Shimla Rural	Shehnan	108/2	Private	Van	0.2112
51	Road	Shimla	Shimla Rural	Shehnan	110/2	Private	Van	0.0400

महाप्रबन्धक (तकनीकी) / G.M.T.

एवं परियोजना निदेशक / & Project Director

भारत राष्‍ट्र / N.H.A.I.

पञ्जाब - हिमाचल (सिस्टम) / D.O. Shimla (H.P.)

Sr. No.	Type	Name of the District	Name of the Taluka	Name of the Village	Survey/Plot Number	Type of Land	Nature of Land	Area (in Hectares)
52	Road	Shimla	Shimla Rural	Shehnai	109/2	Private	Van	0.4648
53	Road	Shimla	Shimla Rural	Shehnai	134/2	Private	Van	0.4000
54	Road	Shimla	Shimla Rural	Shehnai	131/2	Private	Van	0.1639
55	Road	Shimla	Shimla Rural	Shehnai	121/2	Private	Van	0.0708
56							Total	5.1988
57	Road	Shimla	Shimla Rural	Shakral	78/1	Government	Charagah Drakhtan	0.0126
58							Total	0.0126
59	Road	Shimla	Shimla Rural	UP Mahatilla	106/1	Government	Gair Mumkin Nala	0.0538
60	Road	Shimla	Shimla Rural	UP Mahatilla	109/1	Government	Gair Mumkin Nala	0.0489
61	Road	Shimla	Shimla Rural	UP Mahatilla	111/1	Government	Charagah Drakhtan	0.4425
62							Total	0.5452
63	D3	Shimla	Shimla Rural	Chamyana	1008/1/2/1	Government	Charagah Drakhtan	0.8080
64							Total	0.8080
65	D9	Shimla	Shimla Rural	LambiDhar	100/2	Government	Gair Mumkin Rasta	0.0056
66	D9	Shimla	Shimla Rural	LambiDhar	40/1	Government	Gair Mumkin Nala	0.0084
67	D9	Shimla	Shimla Rural	LambiDhar	44/2	Government	Charagah Drakhtan	0.0040
68	D9	Shimla	Shimla Rural	LambiDhar	45/1	Government	Charagah Bila Drakhtan	0.0016
69	D9	Shimla	Shimla Rural	LambiDhar	48/2	Government	Charagah Drakhtan	0.0616
70							Total	0.0812
71	D1	Shimla	Shimla Rural	Malyana	611/1	Government	Charagah Bila Drakhtan	0.1479
72	D1	Shimla	Shimla Rural	Malyana	647/1	Government	Gair Mumkin Nala	0.0732
73	D1	Shimla	Shimla Rural	Malyana	719/663/1/1	Government	Charagah Bila Drakhtan	1.0422
74							Total	1.2633
75	D6	Shimla	Shimla Rural	Mevag	516/1	Government	Ghasni	0.0116
76	D5	Shimla	Shimla Rural	Mevag	615/1	Government	Charagah Drakhtan	0.3872
77	D6	Shimla	Shimla Rural	Mevag	620/1/1	Government	Charagah Drakhtan	1.0972
78	D5	Shimla	Shimla Rural	Mevag	632/3/1	Government	Jangal Dehat	0.7076
79							Total	2.1838
80	D2	Shimla	Shimla Rural	Shehnai	108/1	Private	Van	0.0811
81	D2	Shimla	Shimla Rural	Shehnai	133/1	Private	Van	0.1970
82							Total	0.2781
83	D4	Shimla	Shimla Rural	Shurula (371)	805/3/1	Government	Charagah Drakhtan	3.0710
84							Total	3.0710
85	D8	Shimla	Shimla Rural	UP Mahatilla	2/1	Government	Gair Mumkin Ghasni Drakhtan	0.1462
86	D8	Shimla	Shimla Rural	UP Mahatilla	32/1	Government	Gair Mumkin Ghasni Drakhtan	0.7097
87							Total	0.8559
88	T-3	Shimla	Shimla Rural	Mevag	16	Govt.	G.M. Rasta	0.0780
89							Total	0.0780
90	T-3	Shimla	Shimla Rural	Chhakdial	1062/1	Govt.	Charagah Bila Drakhtan	0.0535
91							Total	0.0535
92	T-3	Shimla	Shimla Rural	Chamyana	195/1	Govt.	G.M. Rasta	0.0100
93							Total	0.0100
							Grand Total	19.1712


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

JOINT INSPECTION

JOINT INSPECTION REPORT FOR DIVERSION OF FOREST LAND MEASURING 0.0076 Hect. FOR CONSTRUCTION OF FOUR LANEING OF PROPOSED SHIMLA BYPASS FROM SHAKRAL TO DHALLI SECTION (PACKAGE II) (KM 146.300 TO KM TO KM 156.560) OF NH-22 (NEW NH-05) IN SHIMLA (URBAN) FOREST DIVISION.


DATE OF INSPECTION: 25.06.2022


A Joint Inspection of Additional Forest Land was carried out on 25.06.2022 in revenue villages Chalounti for the proposed diversion of additional forest land measuring 0.0076 hectare required for four laning of Shakral to Dhalli Section of NH-22 (New NH-05). The details of Khasra no.s which are coming in additional forest land FCA proposal are enclosed as Annexure X.


It is to be mentioned that Stage II Approval of FCA Case of 40.3 Ha is already accorded by MOEF&CC vide their letter dated 15.09.2017 for both packages of Shimla Bypass from Kaithalighat to Dhalli of NH-22 (New NH-05).


The additional forest land proposed for FCA is required for four laning of structures against two lane in previous proposal, dumping sites for muck disposal, access roads, slope protection methods for hill stability and minor modifications for improving the geometry of the highway. Therefore, it is outlined that the forest land proposed to be diverted is inescapable and all other alternatives for the purpose have been explored. The forest land proposed to be diverted for the proposed project is bare minimum. Therefore, the above mentioned forest land is recommended for the construction of four laning of Shakral to Dhalli Section (Shimla Bypass Package II) of NH-22 (New NH-05).


Project Director
NH&I, P.U. SHIMLA

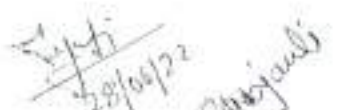

Sub-Divisional Officer (Civil)
Shimla (Urban), Distt. Shimla H.P.


Divisional Forest Officer
Shimla (Urban) Forest
Division


Naib Tehsildar (Radd.)
CALA- Shimla, H.P.


Tehsildar Shimla (Urban)
Distt. Shimla, H.P.



Range Officer, Shimla (U)
Distt. Shimla, H.P.


P. S. Choudhary
28/06/22
निदेशक, सड़क
परियोजना, भारत सरकार


महाप्रबंधक (तकनीकी)/GM(T)
एवं परियोजना निदेशक / & Project Director
भारत सरकार / N.H.A.I.
पकाई - शिमला (हिन्दी) / PIU-Shimla (H.P.)

Full Title of the proposal: Additional Forest land requirement for four lining of proposed Shimla Bypass from Shalimar to Dhali Section (Package-II) of NH-22 (Chainage from Km. 146.366 to Km. 156.560) is already approved FCA case of the entire section from Kathaghat to Dhali (Chainage from Km. 128.805 to Km. 156.560) of NH-22 for 40.3 Ha in the State of Himachal Pradesh

Total Forest Area Break up - Shimla (Urban) Forest Division								
Sr. No.	Type	Name of the District	Name of the Taluka	Name of the Village	Survey/Plot Number	Type of Land	Nature of Land	Area (in Hectares)
1.	Road	Shimla	Shimla (urban)	Lip Mata/Chalaun	59/1	Government	Changah Bala Drakhtan	0.0076
							Grand Total	0.0076


 महाप्रबन्धक (तकनीकी) / GM(T.)
 एवं परियोजना निदेशक / & Project Director
 भाराराष्ट्र / N.H.A.I.
 प.का.ई. - शिमला (हि०प्र०) / PIU-Shimla (H.P.)

CHECKLIST Sl. No. 10

Full Title of the proposal:- Additional Forest Land requirement for four laning of NH-05 from Shakral Village to Dhalli section (Shimla Bypass Package II from Km 146+300 to Km 156+560 and Shimla Connectivity from Km 0+000 to Km 0+725 for Design length – 10.985 Km) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 129.050 to Km. 156.507) of NH-22 (New NH-05) for 40.3 Ha in the State of Himachal Pradesh.

File No. : FP/HP/ROAD/154923/2022

Date of Proposal: 27th April, 2022

CHECK-LIST SERIAL NO. - 10

JUSTIFICATION FOR LOCATING THE PROJECT IN FOREST AREA

Stage II approval for 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 approximate area 19.1788 Ha is required to be diverted for four laning of proposed Shimla Bypass from Shakral to Dhalli Section (Package-II) of NH-22 (Chainage from Km. 146.300 to Km. 156.560) for the following purposes and only **0.0076 ha.** is falling within your jurisdiction.

- (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 Highway.
- (vi) Previous acquired area under Private Classified Forest
- (vii) Proposed Access Roads

As all the Govt. 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 Govt. of Himachal Pradesh accordingly to which all Govt. waste land has been declared as protected forests. Hence there is no availability of suitable non forestland within district Shimla.

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 minimum diversion of forest land. 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.

Date : 30.07.2022

Place : Shimla



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

Countersigned -


Divisional Forest Officer
Shimla Forest Division (Urban)
Shimla-2

महाप्रबंधक (तकनीकी)/GM(T.)
एवं परियोजना निदेशक / & Project Director
भारत राष्ट्रीय / N.H.A.I.
प.काई. - शिमला (हि.प्र.)/PIU-Shimla (H.P.)

CHECKLIST Sl. No. 11

Full Title of the proposal:- Additional Forest Land requirement for four laning of NH-05 from Shakral Village to Dhalli section (Shimla Bypass Package II from Km 146+300 to Km 156+560 and Shimla Connectivity from Km 0+000 to Km 0+725 for Design length – 10.985 Km) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 129.050 to Km. 156.507) of NH-22 (New NH-05) for 40.3 Ha in the State of Himachal Pradesh.

File No. : FP/HP/ROAD/154923/2022

Date of Proposal: 27th April, 2022

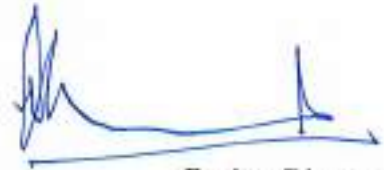
CHECK-LIST SERIAL NO. - 11

CERTIFICATE FOR MINIMUM USE OF FOREST LAND

This is to certify that the forest area involved in the proposal is unavoidable and barest minimum. **0.0076 ha** of forest area is proposed for diversion.

Date : 30.07.2022

Place : Shimla



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

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

Countersigned -


Divisional Forest Officer
Shimla Forest Division (Urban)
Shimla-2

CHECKLIST Sl. No. 12

Full Title of the proposal:- Additional Forest Land requirement for four laning of NH-05 from Shakral Village to Dhalli section (Shimla Bypass Package II from Km 146+300 to Km 156+560 and Shimla Connectivity from Km 0+000 to Km 0+725 for Design length – 10.985 Km) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 129.050 to Km. 156.507) of NH-22 (New NH-05) for 40.3 Ha in the State of Himachal Pradesh.

File No. : FP/HP/ROAD/154923/2022

Date of Proposal: 27th April, 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 **Additional Forest land requirement for four laning of proposed Shimla Bypass from Shakral Village to Dhalli Section (Package-II) of NH-05 (Chainage from Km. 146.300 to Km. 156.560)** 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 (New NH-05) for 40.3 Ha in the State of Himachal Pradesh as per prevailing rates at the time of undertaking the plantation activities.

Date : 30.07.2022

Place : Shimla

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

महाप्रबंधक (तकनीकी)/GM(T.)
एवं परियोजना निदेशक / & Project Director
भारत रा. प्रा. / N.H.A.I.
पकाई - शिमला (हि० प्रा०) / PIU-Shimla (H.P.)

Countersigned -


Divisional Forest Officer
Shimla Urban Forest Division (Urban)
Shimla-2

CHECKLIST Sl. No. 13

Full Title of the proposal:- Additional Forest Land requirement for four laning of NH-05 from Shakral Village to Dhalli section (Shimla Bypass Package II from Km 146+300 to Km 156+560 and Shimla Connectivity from Km 0+000 to Km 0+725 for Design length – 10.985 Km) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 129.050 to Km. 156.507) of NH-22 (New NH-05) for 40.3 Ha in the State of Himachal Pradesh

File No. : FP/HP/ROAD/154923/2022

Date of Proposal: 27 April 2022

CHECK-LIST SERIAL NO. - 13

UNDERTAKING FOR PAYMENT OF NET PRESENT VALUE OF FOREST AREA

This is to certify that I, the undersigned, on behalf of National Highways Authority of India have applied for diversion of additional forest area of **0.0076 ha.** in Shimla (Urban) Forest Division for four laning of proposed Shimla Bypass from Shakral village to Dhalli Section (Package-II) of NH-05 (Chainage from Km. 146.300 to Km. 156.560), hereby undertake to pay the Net Present Value (NPV) of the forest land diverted as per the current prevailing rate.

Date : 30.07.2022
Place : Shimla



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

महाप्रबंधक (तकनीकी) / GM(T.)
एवं परियोजना निदेशक / & Project Director
भारत रा. प्र. / N.H.A.I.
प.चा.ई. - शिमला (हि०प्र०) / PIU-Shimla (H.P.)

Countersigned -


**Divisional Forest Officer
Shimla (Urban) Forest Division
Shimla-2**

Full Title of the proposal:- Additional Forest Land requirement for four laning of NH-05 from Shakral Village to Dhalli section (Shimla Bypass Package II from Km 146+300 to Km 156+560 and Shimla Connectivity from Km 0+000 to Km 0+725 for Design length – 10.985 Km) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 129.050 to Km. 156.507) of NH-22 (New NH-05) for 40.3 Ha in the State of Himachal Pradesh.

File No. : FP/HP/ROAD/154923/2022

Date of Proposal: 27th April, 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 II.

Date : 30.07.2022

Place : Shimla



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

सहाप्रबंधक (तकनीकी) / GM(T.)
एवं परियोजना निदेशक / & Project Director
भारत राष्ट्रीय / N.H.A.I.
प.का.ई. - शिमला (हि.प्र.) / PIU-Shimla (H.P.)

Countersigned -


**Divisional Forest Officer
Shimla (Urban) Forest Division
Shimla-2**

CHECKLIST Sl. No. 14

Full Title of the proposal:- *Additional Forest Land requirement for four laning of NH-05 from Shakral Village to Dhalli section (Shimla Bypass Package II from Km 146+300 to Km 156+560 and Shimla Connectivity from Km 0+000 to Km 0+725 for Design length – 10.985 Km) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 129.050 to Km. 156.507) of NH-22 (New NH-05) for 40.3 Ha in the State of Himachal Pradesh.*

File No. : FP/HP/ROAD/154923/2022

Date of Proposal: 27th April, 2022

CHECK LIST SERIAL NO. - 14

CERTIFICATE OF COLLECTOR REGARDING FRA 2006

(To be obtained)


महाप्रबंधक (सूचना/सूचना) / GM(T.)
एवं परियोजना निदेशक / & Project Director
भारतवाणी / N.H.A.I.
पंजाब - शिमला (हिमाचल) / P.N.U-Shimla (H.P.)

Full Title of the proposal:- Additional Forest Land requirement for four laning of NH-05 from Shakral Village to Dhalli section (Shimla Bypass Package II from Km 146+300 to Km 156+560 and Shimla Connectivity from Km 0+000 to Km 0+725 for Design length – 10.985 Km) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 129.050 to Km. 156.507) of NH-22 (New NH-05) for 40.3 Ha in the State of Himachal Pradesh.

File No. : FP/HP/ROAD/154923/2022

Date of Proposal: 27th April, 2022

CHECK-LIST SERIAL NO. – 14a

UNDERTAKING FOR FRA CERTIFICATE

I, the undersigned, on behalf of National Highways Authority of India undertake that the FRA Certificate of **0.0076 ha.** falling under Shimla (Urban) Forest Division for the project “Additional Forest land requirement for four laning of proposed **Shimla Bypass from Shakral to Dhalli Section (Package-II) of NH-05 (Chainage from Km. 146.300 to Km. 156.560)** 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 : 30.07.2022
Place : Shimla



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

महाप्रबंधक (तकनीकी) / GM(T.)
एवं परियोजना निदेशक / & Project Director
भारतवाणिज्य / N.H.A.I.
पंजाब - जिला (हिमाचल) / PIU-Shimla (H.P.)

CHECKLIST Sl. No. 23

Full Title of the proposal:- *Additional Forest Land requirement for four laning of NH-05 from Shakral Village to Dhalli section (Shimla Bypass Package II from Km 146+300 to Km 156+560 and Shimla Connectivity from Km 0+000 to Km 0+725 for Design length – 10.985 Km) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 129.050 to Km. 156.507) of NH-22 (New NH-05) for 40.3 Ha in the State of Himachal Pradesh.*

File No. : FP/HP/ROAD/154923/2022

Date of Proposal: 27th April, 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 : 30.07.2022

Place : Shimla



Signature of User Agency
Office Seal

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

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

CHECKLIST Sl. No. 24

Full Title of the proposal:- *Additional Forest Land requirement for four laning of NH-05 from Shakral Village to Dhalli section (Shimla Bypass Package II from Km 146+300 to Km 156+560 and Shimla Connectivity from Km 0+000 to Km 0+725 for Design length – 10.985 Km) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 129.050 to Km. 156.507) of NH-22 (New NH-05) for 40.3 Ha in the State of Himachal Pradesh.*

File No. : FP/HP/ROAD/154923/2022

Date of Proposal: 27th April, 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), the project does not require Environmental Clearance.

Date : 30.07.2022

Place : Shimla



Signature of User Agency
Office Seal

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

महाप्रबंधक (तकनीकी) /GM(T.)

एवं परियोजना निदेशक / & Project Director

भारत सरकार / N.H.A.I.

पञ्जाई - शिमला (हिमाचल) /PIU-Shimla (H.P.)

भारत का राजपत्र The Gazette of India

EXTRAORDINARY

भाग II—खण्ड 3—उप-खण्ड (ii)

PART II—Section 3—Sub-section (ii)

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अधिसूचना

नई दिल्ली, 22 अगस्त 2013

का.आ.2559(अ).—केन्द्रीय सरकार ने, भारत सरकार की पर्यावरण और वन मंत्रालय में पर्यावरण (संरक्षण) नियम, 1986 के नियम 5 के उप-नियम (3) के खंड (घ) के साथ पठित पर्यावरण (संरक्षण) अधिनियम, 1986 की धारा 3 की उपधारा (2) के खंड (5) और उप-धारा (1) के अधीन जारी अधिसूचना संख्या का.आ. 1533 (अ) तारीख 14 सितंबर, 2006 द्वारा निदेश दिया है कि इस अधिसूचना के प्रकाशन की तारीख से ही नई परियोजनाओं या उक्त अधिसूचना की अनुसूची में सूचीबद्ध विद्यमान परियोजनाओं या कार्यक्षेत्रों के विस्तार या आधुनिकीकरण के लिए अपरिहार्य क्षमतावर्धन के लिए प्रक्रिया या प्रौद्योगिकी में परिवर्तन और या उत्पाद मिश्रण, भारत के किसी भी भाग में यद्यपि केन्द्रीय सरकार या उक्त अधिनियम की धारा 3 की उप-धारा (3) के अधीन केन्द्रीय सरकार द्वारा सम्बन्ध से गठित राज्य स्तरीय पर्यावरण संघात निर्धारण प्राधिकरण की उसमें विनिर्दिष्ट प्रक्रिया के अनुसरण में पूर्व पर्यावरण निकासी के पश्चात् ही हाथ में लिया जाएगा;

और भारत सरकार ने पर्यावरण और वन मंत्रालय में राजमार्गों, भवनों और विशेष आर्थिक क्षेत्र परियोजनाओं के लिए पर्यावरणीय निकासी प्रदान करने से संबंधित पर्यावरण संघात निर्धारण अधिसूचना, 2006 के उपबंधों का पुनर्विचार करने के लिए कार्यालय जापन सं. 21-270/2008-आईए.III, तारीख 11 दिसंबर, 2012 और पर्यावरण और वन मंत्रालय के गमनसुची भवनों के संबंध में कार्यालय जापन तारीख 7 फरवरी, 2011 द्वारा सदस्य, (पर्यावरण और वन तथा विज्ञान और प्रौद्योगिकी), योजना आयोग की अध्यक्षता में एक उच्च स्तरीय समिति का गठन किया था ;

3649 GI/2013

(1)

सहस्रबोधक (तकनीकी)/GM(T.)

एवं परियोजना निदेशक / & Project Director

भारताराष्ट्र./N.H.A.I.

प.का.ई. - जिला (वि०प्र०)/PIU-Shimla (H.P.)

और समिति के संदर्भ के निबंधनों (टीओआर) में एक निबंधन पर्यावरण संघात निर्धारण अधिसूचना के अधीन 60 मीटर के मार्गाधिकार और 200 किलोमीटर लंबी राजमार्ग विस्तार परियोजनाओं के लिए पर्यावरण निकासी की अपेक्षाओं का पुनर्विलोकन करना था ;

और समिति ने मंत्रालय को अपनी रिपोर्ट प्रस्तुत कर दी है और इस टीओआर पर समिति ने राजमार्ग विस्तार परियोजनाओं को विस्तारण की अपेक्षा और पर्यावरण संघात निर्धारण से छूट देने की सिफारिश की है या राजमार्ग विस्तार परियोजनाओं के लिए पर्यावरण प्रबंधन परियोजना माडल टीओआर, जिसे मंत्रालय की वेबसाइट पर पोस्ट किया जाएगा के अनुसार तैयार किया जा सकता है और पर्यावरण निकासी की अपेक्षा के संबंध में समिति ने सिफारिश की है कि 100 किलोमीटर तक राष्ट्रीय राजमार्ग परियोजनाओं का विस्तार जिसमें अतिरिक्त मार्गाधिकार या विद्यमान संरेखणों पर 40 मीटर तक अर्जन और पुनःसंरेखण पर 60 मीटर या उप-मार्गों की अधिसूचना की परिधि से बाहर रखने की सिफारिश की है ;

और समिति की रिपोर्ट की पर्यावरण और वन मंत्रालय में जांच की गई है । पहले ही अधिसूचना सं. का. आ. 3067(अ) तारीख 1 दिसंबर, 2009 द्वारा सभी राज्य राजमार्ग विस्तार परियोजनाओं को सिवाय उन परियोजनाओं के जो पहाड़ी क्षेत्रों (1000 मीटर एएमएसएल) और पारिस्थितिकीय रूप से संवेदनशील क्षेत्रों में हैं, को पर्यावरण संघात निर्धारण अधिसूचना 2006 से छूट प्रदान कर दी गई है ।

और अन्य बातों के साथ पूर्वोक्त को ध्यान में रखते हुए पर्यावरण और वन मंत्रालय ने कार्यालय जापन सं. 21-270/2008-आईए. III, तारीख 11 दिसंबर, 2012 द्वारा गठित उच्च स्तरीय समिति की पूर्वोक्त सिफारिशों को स्वीकार करने का विनिश्चय किया है ;

अतः, अब, केन्द्रीय सरकार, पर्यावरण (संरक्षण) नियम, 1986 के नियम 5 के उपनियम (4) के साथ पंक्ति पर्यावरण (संरक्षण) अधिनियम, 1986 की धारा 3 की उपधारा (2) के खंड (5) और उपधारा (1) द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए, भारत सरकार के पर्यावरण और वन मंत्रालय की अधिसूचना सं. का.आ. 1533(अ) तारीख 14 सितंबर, 2006 में उक्त नियम 5 के उपनियम (3) के खंड (क) के अधीन सूचना की अपेक्षा से अभिमुक्ति देने के लिए निम्नलिखित और संशोधन करती है, अर्थात् :-

2. उक्त अधिसूचना में,-

(क) पैरा 7 के उपपैरा II के मद (i) के स्थान पर निम्नलिखित मद रखी जाएगी, अर्थात्:-

“(i) “विस्तारण” उस प्रक्रिया को निर्दिष्ट करता है, जिसके द्वारा प्रवर्ग ‘क’ परियोजना क्रियाकलापों के मामले में विशेषज्ञ आंकलन समिति और प्रवर्ग ‘ख 1’ परियोजनाओं या क्रियाकलापों के मामले में, राज्य स्तर विशेषज्ञ आंकलन समिति, जिसके अंतर्गत विद्यमान परियोजनाओं या क्रियाकलापों के विस्तार या आधुनिकीकरण या उत्पाद मिश्रण में परिवर्तन उस परियोजना या क्रियाकलाप, जिसके लिए पूर्व पर्यावरणीय अनापत्ति ईप्सित की गई है, के संबंध में पर्यावरण समाघात निर्धारण रिपोर्ट (ईआईए) तैयार करने के लिए सभी सुसंगत पर्यावरणीय चिंताओं को संबोधित करते हुए विस्तृत और समग्र निर्देश के निबंधनों का अवधारण और विशेषज्ञ आंकलन समिति या संबंधित राज्य स्तर आंकलन समिति विहित आवेदन प्रारूप 1/प्रारूप 1क में दी गई जानकारी के आधार पर जिसके अंतर्गत आवेदक द्वारा प्रस्तावित निर्देश के निबंधन हैं, किसी विशेषज्ञ आंकलन समिति या संबंधित राज्य स्तर आंकलन समिति के किसी उप समूह द्वारा स्थल भ्रमण यदि संबंधित विशेषज्ञ आंकलन समिति या संबंधित राज्य स्तर विशेषज्ञ आंकलन समिति द्वारा आवश्यक समझा जाए, आवेदक द्वारा सुझाए गए निर्देश के निबंधन, यदि प्रस्तुत किए जाएं और अन्य सूचना जो विशेषज्ञ आंकलन समिति या राज्य स्तर विशेषज्ञ आंकलन समिति के पास उपलब्ध हों, सम्मिलित है:

परंतु निम्नलिखित को विस्तारण की आवश्यकता नहीं होगी-

महाप्रबंधक (तकनीकी) / GM(T.)
एवं परियोजना निदेशक / & Project Director
भारत सरकार / N.H.A.
पटनाई - शिमला (हिमाचल) / PIU-Shimla (H.P.)

(I) अनुसूची के मद 8 में प्रवर्ग ख के रूप में सूचीबद्ध सभी परियोजनाएं और कार्यकलाप (नगरी या वाणिज्यिक परिसरों या आवासन का संनिर्माण) ;

(II) 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 प्ररूप 1 या प्ररूप 1क और अवधारणा योजना के आधार पर किया जाएगा ;

आ. खंड (II) में निर्दिष्ट परियोजनाएं पर्यावरण और वन मंत्रालय द्वारा निर्दिष्ट माडल टीओआर के आधार पर ईआईए और ईएमपी रिपोर्ट तैयार करेंगी ;

(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 सरेखणों पर और पुनः सरेखणों या उपमार्गों पर 60 मीटर क्षेत्रधिकार या भूमि अर्जन अंतर्भूत है ।"

[फा.सं.21-270/2008-आईए.111]

अजय त्यागी, 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 अक्तुबर, 2007;
2. का.आ. 3067(अ), तारीख 1 दिसंबर, 2008;
3. का.आ. 695(अ), तारीख 4 अप्रैल, 2011;
4. का.आ. 2896 (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;



सहाय्यक (तकनीकी) / GM(T.)

एवं परियोजना निदेशक / & Project Director

भारत सरकार / N.H.A.I.

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

(I) अनुसूची के मद 8 में प्रदत्त ख के रूप में सूचीबद्ध सभी परियोजनाएं और कार्यकलाप (जंगलों या वाणिज्यिक परिसरों या आवासन का संनिर्माण) ;

(II) अनुसूची के मद 7 की उपमद (घ) 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 प्ररूप 1 या प्ररूप 1क और अवधारणा योजना के आधार पर किया जाएगा ;

आ. खंड (II) में निर्दिष्ट परियोजनाएं पर्यावरण और वन मंत्रालय द्वारा विनिर्दिष्ट मादल टीओआर के आधार पर ईआईए और ईएमपी रिपोर्ट तैयार करेंगी ;

(ख) अनुसूची में मद 7 की उप मद (घ) 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 क्षैपिकार या भूमि अर्जन अंतर्गत है ।"

[फा.सं.21-270/2008-आईए.III]

अजय त्यागी, संयुक्त सचिव

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

1. का.अ. 1733(अ), तारीख 11 अक्तुबर, 2007;
2. का.अ. 3067(अ), तारीख 1 दिसंबर, 2009;
3. का.अ. 695(अ), तारीख 4 अप्रैल, 2011;
4. का.अ. 2896 (अ), तारीख 13 दिसंबर, 2012; और
5. का.अ. 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-(A.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;

सहायक सचिव (सफाई) / GM(T.)

एवं परियोजना निदेशक / & Project Director

भारत सरकार / N.H.A.I.

पकाई - शिमला (हि०प्र०) / PIU-Shimla (H.P.)

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 preview of the notification;

And whereas the report of the Committee has been examined in the Ministry of Environment and Forests. Earlier, 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 (5) 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 dispensed with the requirement of notice under clause (a) of sub-rule (3) of the said rule 5 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 or activities, including applications for expansion or modernization 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]

AJAY 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. 695 (E), dated the 4th April, 2011;
4. S.O. 2896 (E), dated the 13th December, 2012; and
5. S.O. 674(E), dated the 13th March, 2013

महाप्रबंधक (सूचना) / GM(T)
एवं परियोजना निदेशक / & Project Director
भारतवाणि / N.H.A.I.
पुनर्वाही - शिमला (हि०प्र०) / P.W.-Shimla (H.P.)

CHECKLIST Sl. No. 25

Full Title of the proposal:- *Additional Forest Land requirement for four laning of NH-05 from Shakral Village to Dhalli section (Shimla Bypass Package II from Km 146+300 to Km 156+560 and Shimla Connectivity from Km 0+000 to Km 0+725 for Design length – 10.985 Km) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 129.050 to Km. 156.507) of NH-22 (New NH-05) for 40.3 Ha in the State of Himachal Pradesh.*

File No. : FP/HP/ROAD/154923/2022

Date of Proposal: 27th April, 2022

CHECK LIST SERIAL NO. - 25

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

(Not Applicable)

Date : 30.07.2022

Place : Shimla



Signature of User Agency
Office Seal

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

महाप्रबंधक (तकनीकी)/GM(T)

एवं परियोजना निदेशक / & Project Director

भारत/रा.प्र. / N.H.A.I.

पं.का.ई. - शिमला (हि.प्र.) / PIU-Shimla (H.P.)

CHECKLIST Sl. No. 26

Full Title of the proposal:- *Additional Forest Land requirement for four laning of NH-05 from Shakral Village to Dhalli section (Shimla Bypass Package II from Km 146+300 to Km 156+560 and Shimla Connectivity from Km 0+000 to Km 0+725 for Design length – 10.985 Km) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 129.050 to Km. 156.507) of NH-22 (New NH-05) for 40.3 Ha in the State of Himachal Pradesh.*

File No. : FP/HP/ROAD/154923/2022

Date of Proposal: 27th April, 2022

CHECK LIST SERIAL NO. - 26

DETAILED SCHEME FOR REHABILITATION OF PROJECT AFFECTED PERSONS

(Not Applicable)

Date : 30.07.2022

Place : Shimla



Signature of User Agency
Office Seal

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

महाप्रबंधक (तकनीकी)/GM(T.)
एवं परियोजना निदेशक / & Project Director
भारतराज / N.H.A.I.
पञ्जाब - शिमला (हि०प्र०)/PIU-Shimla (H.P.)

CHECKLIST SI. No. 27

Full Title of the proposal:- Additional Forest Land requirement for four laning of NH-05 from Shakral Village to Dhalli section (Shimla Bypass Package II from Km 146+300 to Km 156+560 and Shimla Connectivity from Km 0+000 to Km 0+725 for Design length – 10.985 Km) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 129.050 to Km. 156.507) of NH-22 (New NH-05) for 40.3 Ha in the State of Himachal Pradesh.

File No. : FP/HP/ROAD/154923/2022

Date of Proposal: 27th April, 2022

CHECK LIST SERIAL NO. - 27

DETAILED CATCHMENT AREA PLAN

(Not Applicable)

Date : 30.07.2022

Place : Shimla



Signature of User Agency
Office Seal

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

महस्रबधक (तकनीकी) / GM(T)

एवं परियोजना निदेशक / & Project Director

भारतराष्ट्र / N.H.A.I.

एकार्ध - शिमला (हिमाचल) / PIU-Shimla (H.P.)

CHECKLIST Sl. No. 28

Full Title of the proposal:- *Additional Forest Land requirement for four laning of NH-05 from Shakral Village to Dhalli section (Shimla Bypass Package II from Km 146+300 to Km 156+560 and Shimla Connectivity from Km 0+000 to Km 0+725 for Design length – 10.985 Km) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 129.050 to Km. 156.507) of NH-22 (New NH-05) for 40.3 Ha in the State of Himachal Pradesh.*

File No. : FP/HP/ROAD/154923/2022

Date of Proposal: 27th April, 2022

CHECK LIST SERIAL NO. - 28

DETAILED RECLAMATION PLAN

(Not Applicable)

Date : 30.07.2022

Place : Shimla



Signature of User Agency
Office Seal

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

महाप्रबंधक (तकनीकी) / GM(T)
एवं परियोजना निदेशक / & Project Director
भारत राष्ट्रीय / N.H.A.
ए.का.ई. - शिमला (हि.प्र.) / PIU-Shimla (H.P.)

CHECKLIST Sl. No. 29

Full Title of the proposal:- *Additional Forest Land requirement for four laning of NH-05 from Shakral Village to Dhalli section (Shimla Bypass Package II from Km 146+300 to Km 156+560 and Shimla Connectivity from Km 0+000 to Km 0+725 for Design length – 10.985 Km) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 129.050 to Km. 156.507) of NH-22 (New NH-05) for 40.3 Ha in the State of Himachal Pradesh.*

File No. : FP/HP/ROAD/154923/2022

Date of Proposal: 27th April, 2022

CHECK LIST SERIAL NO. - 29

COST BENEFIT ANALYSIS

(Attached)

Date : 30.07.2022

Place : Shimla


Signature of User Agency
Office Seal

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

सहायक (तकनीकी) / GM(T.)
एवं परियोजना निदेशक / & Project Director
भारत राष्ट्रीय / N.H.A.I.
पकाई - शिमला (हिमाचल) / PIU-Shimla (H.P.)

COST BENEFIT ANALYSIS

Full Title of the proposal:- Additional Forest Land requirement for four laning of NH-05 from Shakraal Village to Dhali section (Shimla Bypass Package II from Km 146+300 to Km 156+500 and Shimla Connectivity from Km 0+000 to Km 0+725 for Design length – 10.985 Km) in already approved FCA case of the entire section from Kuthbighat to Dhali (Chainage from Km. 129.030 to Km. 156.507) of NH-22 (New NH-05) for 40.3 Ha in the State of Himachal Pradesh

File No. : FPH/ROAD/154923/2022

Date of Proposal: 27 April 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 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.	19.1788 ha (19.1712 ha + 0.0076 ha) of forest land to be diverted. NPV Cost of the forest area (19.1788 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.	205.11
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 205.11 lakhs	20.51
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	Possession 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 205.11 lakhs	61.53
6	Cost of suffering to oustees	The social cost of rehabilitation of oustees (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 oustees should have earned in two years had he not been shifted	Nil	0.00

महाप्रबंधक (तकनीकी)/GM(T)

एवं परियोजना निदेशक / & Project Director

भारतखण्ड / N.H.A.I.

पञ्जाब - हिमाचल (संयुक्त) / P.H.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 205.11 lakhs	102.56
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	400
Total Estimated Cost				789.71

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		14068.335
3	No. of Population benefited due to the specific project	As per Detailed project report	Direct Benefits (Shimla District) Indirect Benefit (HP 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 200 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 as benefits of compensatory afforestation. *For benefits of CA the guideline of the Ministry for NPV estimation may be consulted		
Total Estimated Benefits				14068.34
Ratio of Cost and Benefit				1:17.8

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



सहायक (तकनीकी) / GM(T.)

एवं परियोजना निदेशक / & Project Director

भारत प्रा. / N.H.A.I.

प्लाई - शिमला (हि०प्र०) / PIU-Shimla (H.P.)

CHECKLIST Sl. No. 30a

Full Title of the proposal:- *Additional Forest Land requirement for four laning of NH-05 from Shakral Village to Dhalli section (Shimla Bypass Package II from Km 146+300 to Km 156+560 and Shimla Connectivity from Km 0+000 to Km 0+725 for Design length – 10.985 Km) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 129.050 to Km. 156.507) of NH-22 (New NH-05) for 40.3 Ha in the State of Himachal Pradesh.*

File No. : FP/HP/ROAD/154923/2022

Date of Proposal: 27th April, 2022

CHECK LIST SERIAL NO. – 30a

ANY OTHER INFORMATION

(Muck Management Plan)

Date : 30.07.2022

Place : Shimla



Signature of User Agency
Office Seal

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

महाप्रबंधक (सकनीकी) / GM(T.)
एवं परियोजना निदेशक / & Project Director
भारत राष्ट्रीय / N.H.A.I.
प.का.ई. - शिमला (हि०प्र०) / PIU-Shimla (H.P.)

Full Title of the proposal:- Additional Forest Land requirement for four laning of NH-05 from Shakral Village to Dhalli section (Shimla Bypass Package II from Km 146+300 to Km 156+560 and Shimla Connectivity from Km 0+000 to Km 0+725 for Design length – 10.985 Km) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 129.050 to Km. 156.507) of NH-22 (New NH-05) for 40.3 Ha in the State of Himachal Pradesh.

File No. : FP/HP/ROAD/154923/2022

Date of Proposal: 27th April, 2022

MUCK MANAGEMENT PLAN

1. INTRODUCTION

The project envisages four laning of proposed Shimla Bypass from Shakral to Dhalli Section (Package-II) of NH-22 (Chainage from Km. 146.300 to Km. 156.560) including construction of three twin-tube tunnels. 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 components for management of muck generated from the project have been discussed in the following sections.

2. TUNNELS

Three twin tube tunnels have been proposed on the project road section as mentioned below.

S. No.	Location	Start Design Chainage (Ch.)	End Design Chainage (Ch.)	Length of Tunnel (m)	Carriageway width including Footpath & Walkway (m)
1	Tunnel 3 (LHS & RHS Twin Tubes)	L.H.S. CH: Km 152+293 R.H.S. CH: Km 152+285	L.H.S. CH: Km 155+005 R.H.S. CH: Km 154+895	2712 (LHS) 2610 (RHS)	11.95
2	Tunnel 4 (LHS & RHS Twin Tubes)	L.H.S. CH: Km 155+500 R.H.S. CH: Km 155+140	L.H.S. CH: Km 155+650 R.H.S. CH: Km 155+550	150 (LHS) 410 (RHS)	11.95
3	Tunnel 5 (LHS & RHS Twin Tubes)	L.H.S. CH: Km 0+25 R.H.S. CH: Km 0+15	L.H.S. CH: Km 0+300 R.H.S. CH: Km 0+225	275 (LHS) 210 (RHS)	10.50

3. MUCK GENERATION

In the proposed project, muck 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 Debris/Muck generated (Cum)		Quantity of Muck due to swell factor (Cum)		Estimated Quantity of Muck/Debris Proposed to be utilized (Cum)		Balance quantity of Muck/Debris (Cum)		Effective Muck to be dumped (Cum) after rolling	Name of the dumping site
Type	Rock (22%)	Soil (78%)	Rock (5%)	Soil (3%)	Rock (32%)	Soil (31%)	Rock (68%)	Soil (69%)		
Road work	322930	1144933	339077	1179281	108823	370736	230254	808545	882,979	2125325 (D1 to D10)
	Rock (4%)	Soil (96%)	Rock (5%)	Soil (3%)	Rock (0%)	Soil (0%)	Rock (100%)	Soil (100%)		
Tunnel	37539	900930	39416	927958	-	-	39416	927958	822,268	
Total Qty (M ³)=	360469	2045863	378493	2107239	108823	370736	269670	1736503	1705247	2125325

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 24,06,332 cum which shall amount to 24,85,732 cum with swell factor. Out of the total muck generated, 4,79,559 cum shall be utilized on project work leaving 17,05,247 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 and backfill as per 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 compacted. The muck disposal sites shall also be protected and stabilized with Gabions Walls of suitable designed sections.

4. MUCK DISPOSAL SITES

10 muck disposal sites of total area 11.5902 Ha. have been designated for muck disposal from the proposed project. 8.5413 Ha of the muck disposal sites to be acquired is forest area and 3.0489 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	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	147+450	Malyana	1.2633	0.8443	2.1076	136475	1705247
D-2	148+150	Shehnan	0.2781	0.0000	0.2781	310162	
D-3	150+980	Chamyana	0.8080	0.0000	0.8080	166958	
D-4	151+400	Shurala	3.0710	0.0000	3.0710	675894	
D-5	151+650	Mevag	1.0866	0.3758	1.4624	268391	
D-6	151+850	Mevag	1.0972	0.0000	1.0972	139682	
D-7	0+450	Up MahalChalaunti	0.0000	0.4026	0.4026	35117	
D-8	155+180	UP MahalTilla	0.8559	0.9499	1.8058	358826	
D-9	155+780	LambiDhar	0.0812	0.1103	0.1915	17651	
D10	0+550	Up MahalChalaunti	0.0000	0.3660	0.3660	16169	
		Total	8.5413	3.0489	11.5902	2125325	1705247

Land verified by CALA

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 एवं परियोजना निरीक्षक / प्रोजेक्ट डिरेक्टर
 भारतराष्ट्र / N.H.A.I.
 पंजाब - शिमला (हि०प्र०) / P.U.-Shimla (H.P.)

It may be seen from the Table above that the capacity of the muck disposal sites is 21.25 lakh cum and the volume of muck to be disposed off after utilization is 17.05 lakh cum. This states that the capacity of the muck disposal sites exceeds 25% 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

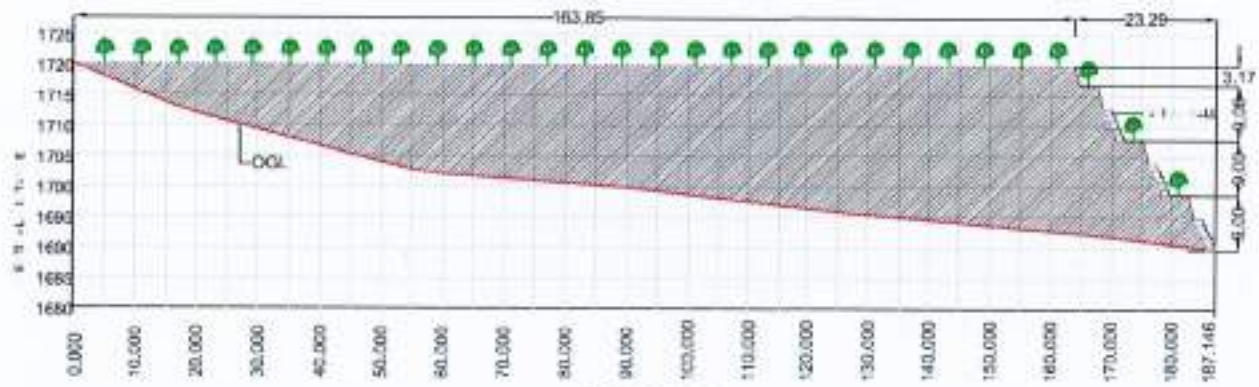
The loosely held muck can lead to the rise in SPM levels and sedimentation load. Therefore, it requires stability with appropriate methods to avoid the subsequent ecological problems. The muck disposal involves both engineering and biological measures that depend on the eco-climatic conditions.

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 in the figure below.



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पक्राई - शिमला (हिमाचल) / PIU-Shimla (H.P.)



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.

5. 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

6. BUDGET

Adequate budget shall be earmarked towards management of 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.

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 पंचाई - शिमला (हिमाचल) / PIU Shimla (H.P.)

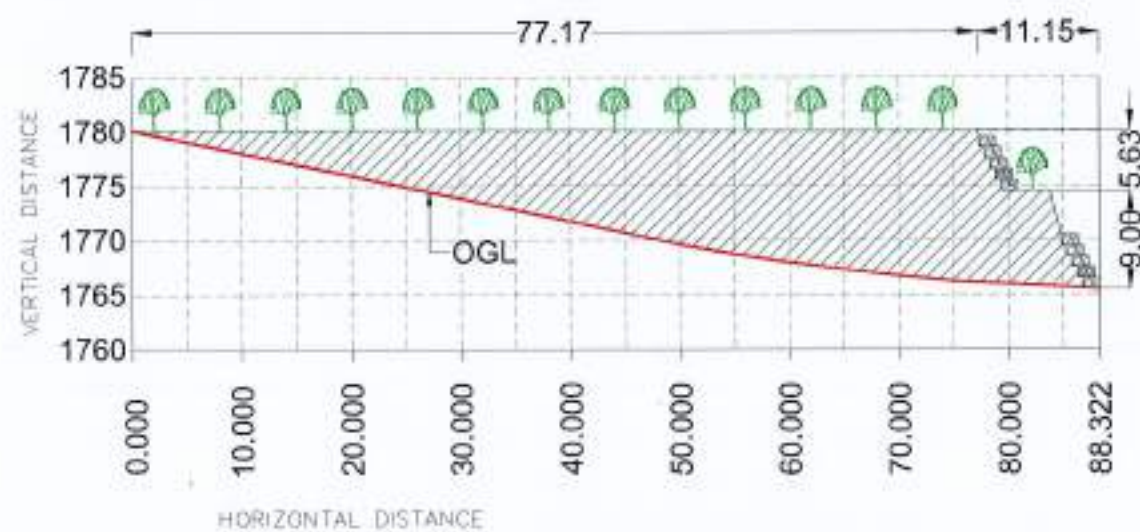
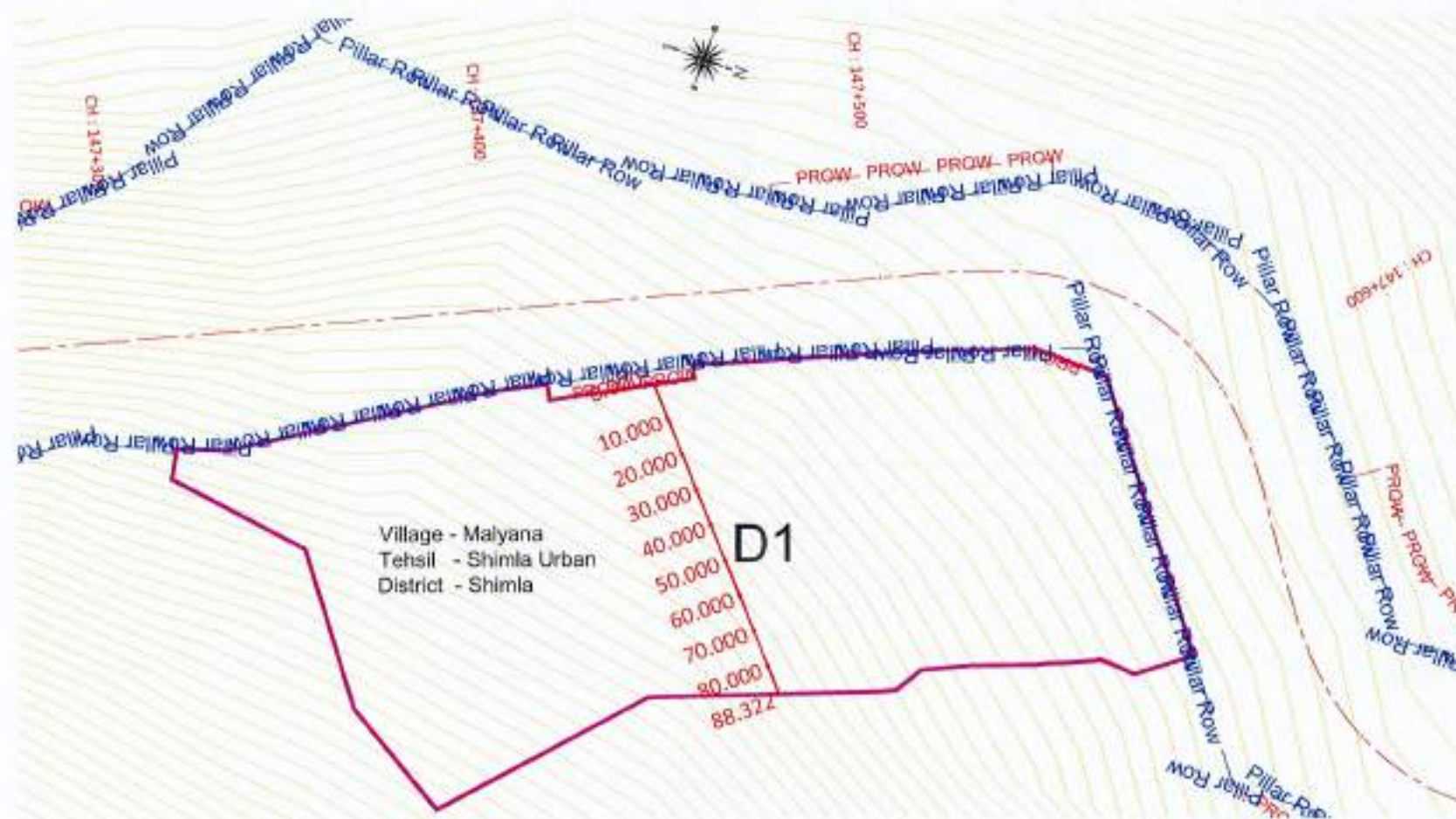
Item No.	Descriptions
	(i) Providing & making Gabion structure with Mechanically Woven Double Twisted Hexagonal Shaped Wire mesh Gabion Boxes as per IS 16014:2012, MORTH Clause 2500, of required size, Mesh Type 10x12 (D=100 mm with tolerance of $\pm 2\%$) Zinc coated, Mesh wire diameter 3.0 mm, mechanically 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.

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**Annexure 1 to
CHECKLIST Sl. No. 30a**

Annexure 2 to
CHECKLIST Sl. No. 30a



SECTION A-A
LONGITUDINAL PROFILE OF D1
QUANTITY = 136475.02 CUM

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RD	April - 2022	Initial Drawing	
Revisions	Date	Description	Checked by
Revisions			
DRAWING No: NHAS/NH-22/KAITH-DHALLI/MDS/ 01 /R0			
NUMBER OF SHEET		24-04-22	



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N.T.S.

Project Title:

Consultancy Services for Preparation of DPR of 4-Laning of
Proposed Shimla Bypass From Kaithailyghat 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:

MUCK DUMPING SITE

SITE - D1



Intercontinental Consultants & Technocrats Pvt Ltd,
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Shri Kailash Gupta	Priya Sharma	Nitesh Choudhary	Sandeep Mathur
Prepared by	Designed by	Checked by	Approved by

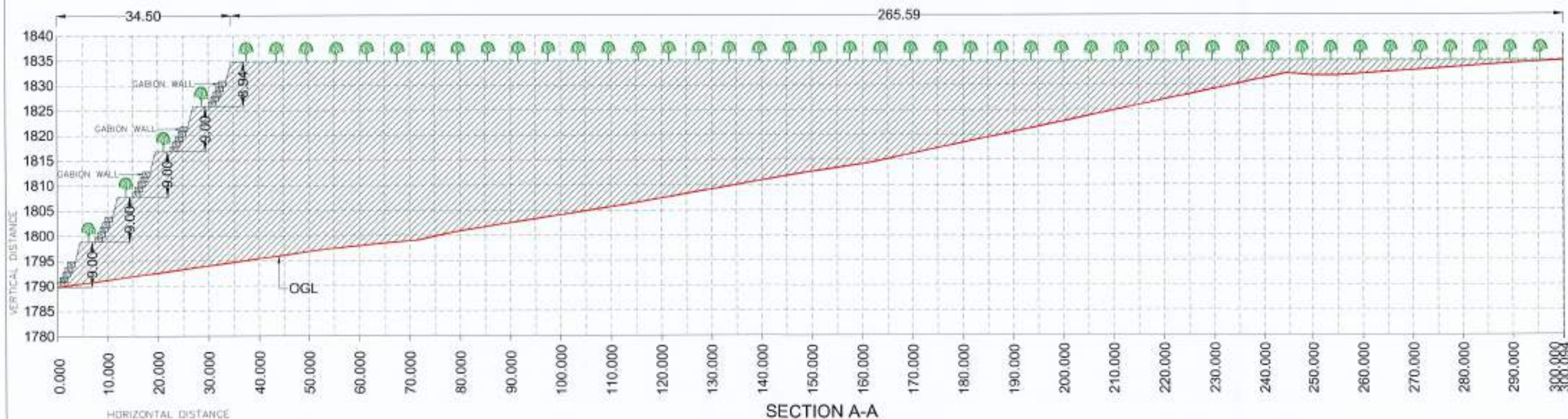
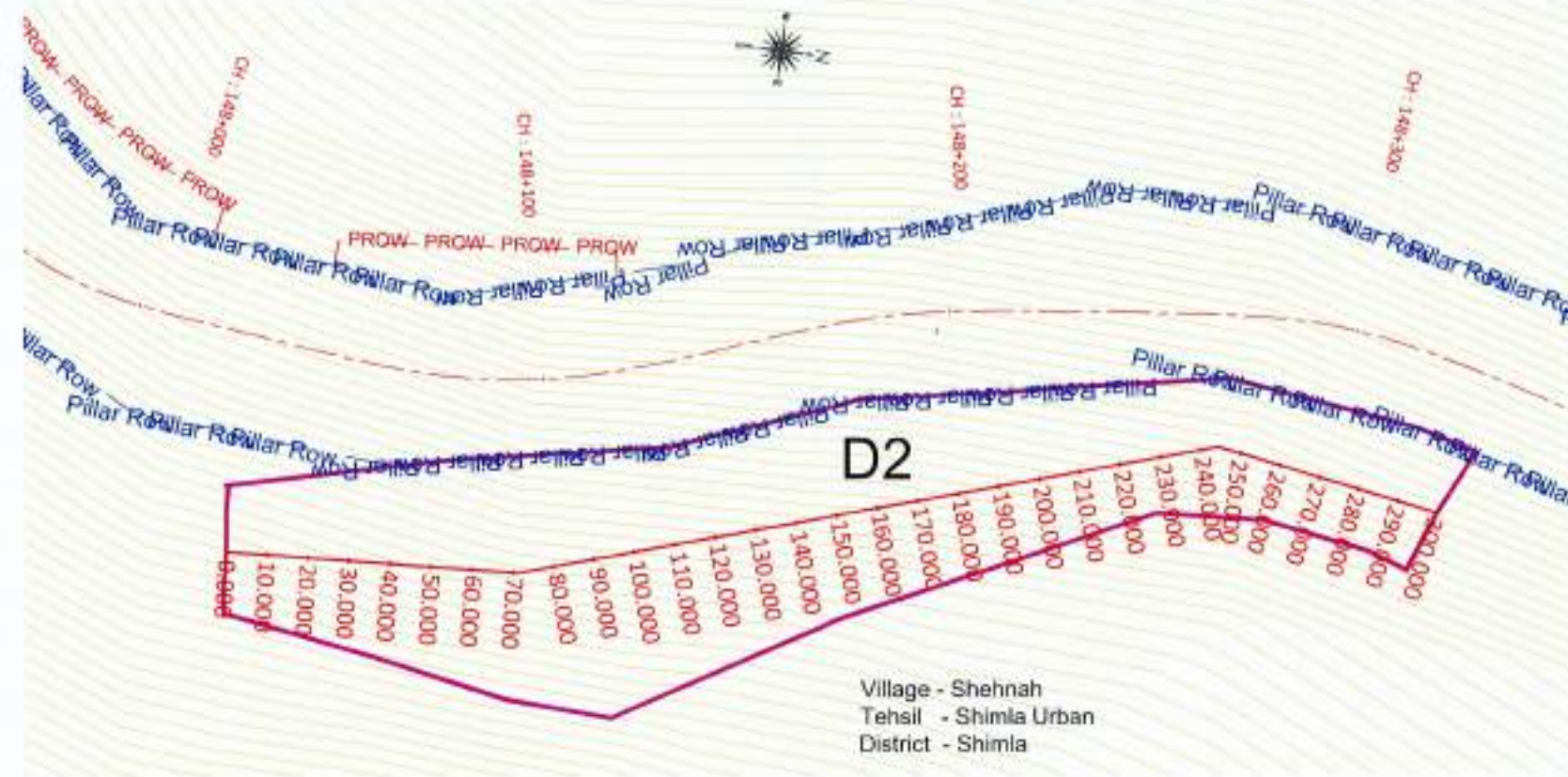
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NUMBER OF SHEET

24-04-22

← TO KAITHAILYGHAT

TO DHALLI →



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Project Title:
Consultancy Services for Preparation of DPR of 4-Laning of
Proposed Shimla Bypass From Kaitailyghat 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:
MUCK DUMPING SITE
SITE - D2



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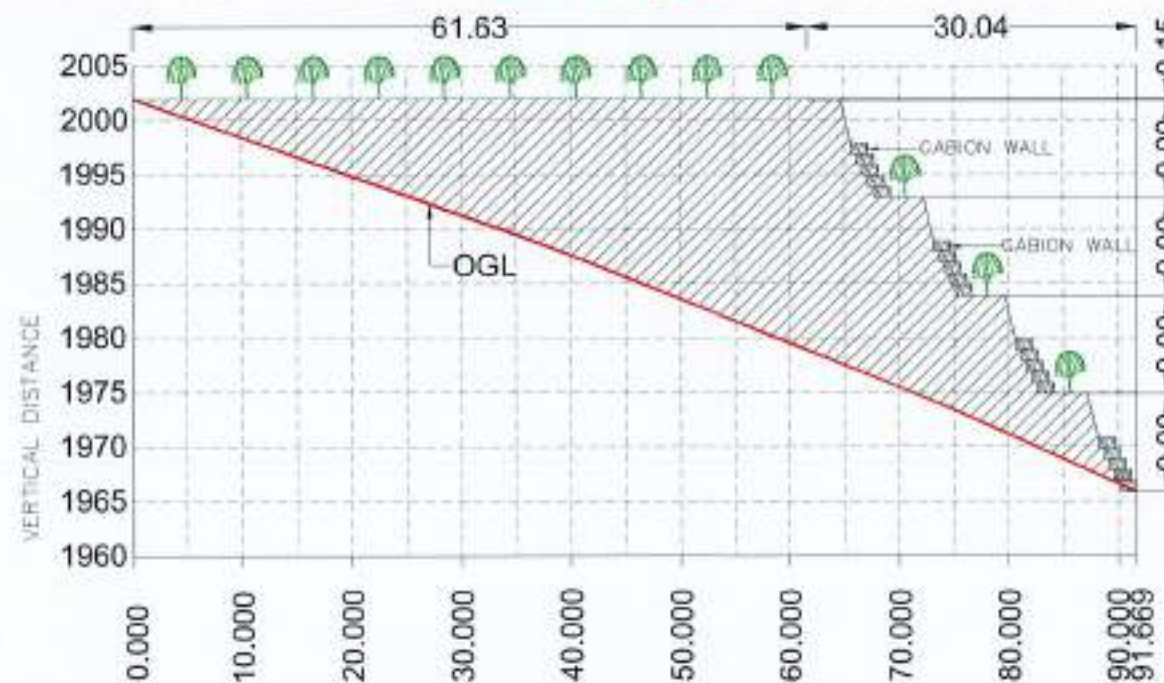
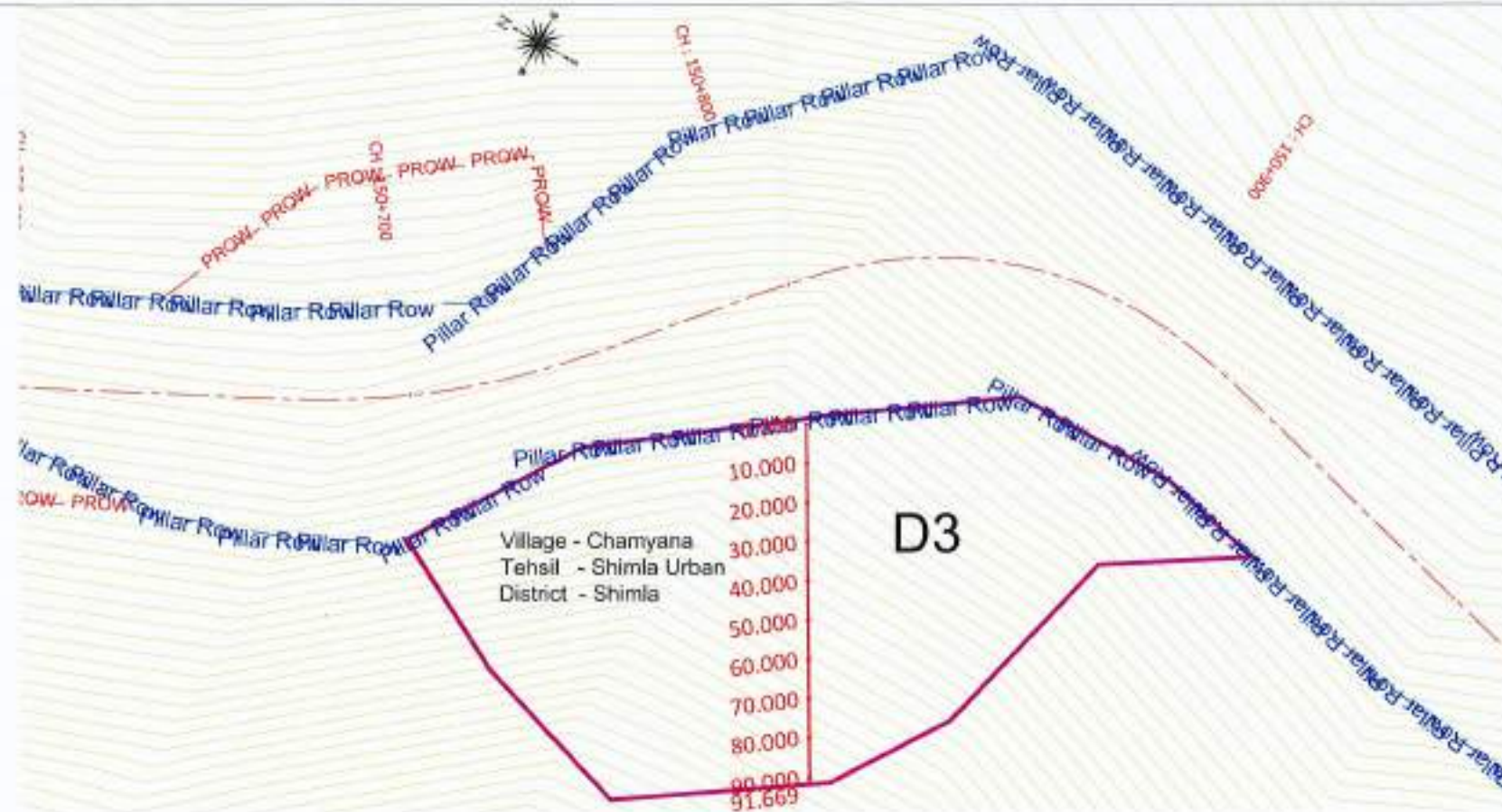
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Designed by: [Signature]
Checked by: [Signature]
Approved by: [Signature]

Revisions	Date	Initial Drawing Description	Checked by
20	April - 2023	Initial Drawing Description	
Revisions			
DRAWING No:	NHAI/NH-22/KATH-DHALLI/MDS/ 02 /R0		
NUMBER OF SHEET	24-04-23		

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एवं परियोजना निदेशक / & Project Director
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SECTION A-A
LONGITUDINAL PROFILE OF D3
QUANTITY = 166957.73 CUM

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पञ्जाई - शिमला (हि०प्र०) / P.U.-Shimla (H.P.)



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Scale:-

N.T.S.

Project Title:

Consultancy Services for Preparation of DPR of 4-Laning of
Proposed Shimla Bypass From Kaitailyghat 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:

MUCK DUMPING SITE

SITE - D3



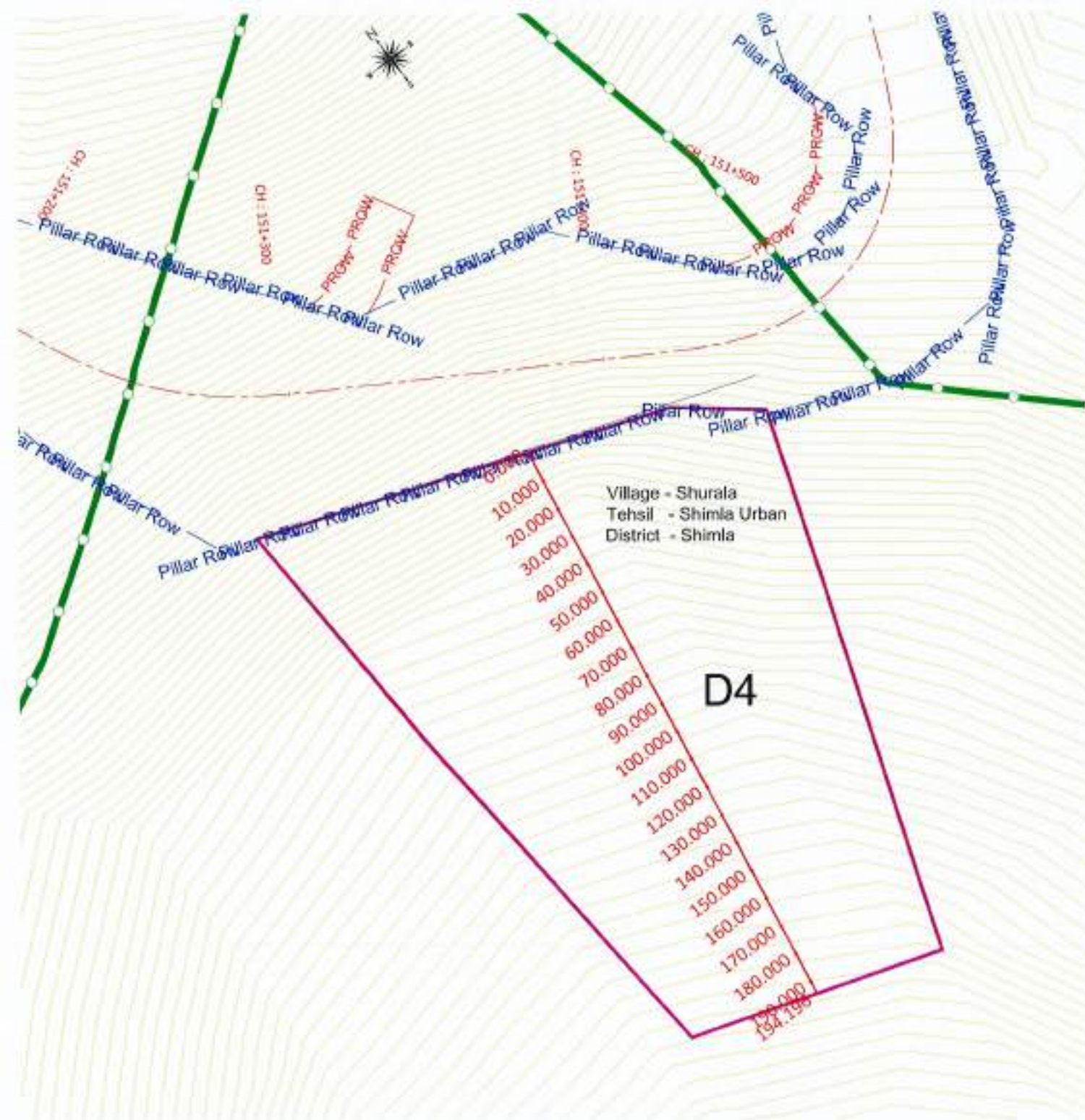
Intercontinental Consultants & Technocrats Pvt. Ltd.,
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Prepared by: _____
Designed by: _____
Checked by: _____
Approved by: _____

Revisions	Date	Initial Drawing Description	Checked by
Revisions			
DRAWING No: NHAI/NH-22/KAITH-DHALLI/MDS/ 03 /R0			
NUMBER OF SHEET			24-04-22

← TO KAITHAILYGHAT

TO DHALLI →



Village - Shurala
Tehsil - Shimla Urban
District - Shimla

D4

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एवं परियोजना निदेशक / & Project Director
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Project Title:
Consultancy Services for Preparation of DPR of 4-Laning of
Proposed Shimla Bypass From Kaithailyghat 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:
MUCK DUMPING SITE
SITE - D4



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Checked by: Hema Choudhary
Approved by: Sandip Bhattacharya

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Revisions	Date	Description	Checked by
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NUMBER OF SHEET			24-04-22

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TO DHALLI →



SECTION A-A
LONGITUDINAL PROFILE OF D4
QUANTITY = 675894.27 CUM

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N.T.S

Project Title:
Consultancy Services for Preparation of DPR of 4-Laning of
Proposed Shimla Bypass From Kaithailyghat 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:
MUCK DUMPING SITE
SITE - D4

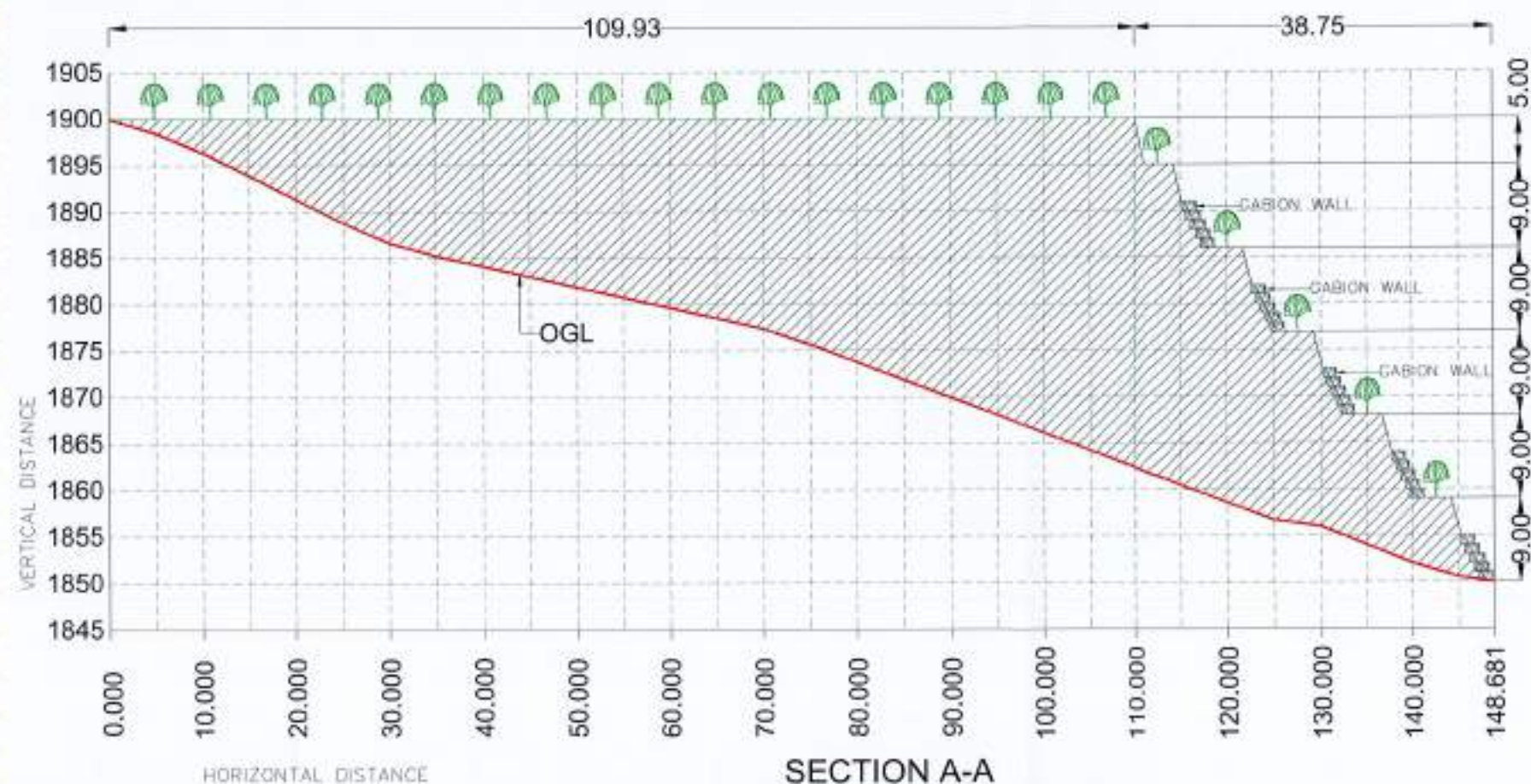
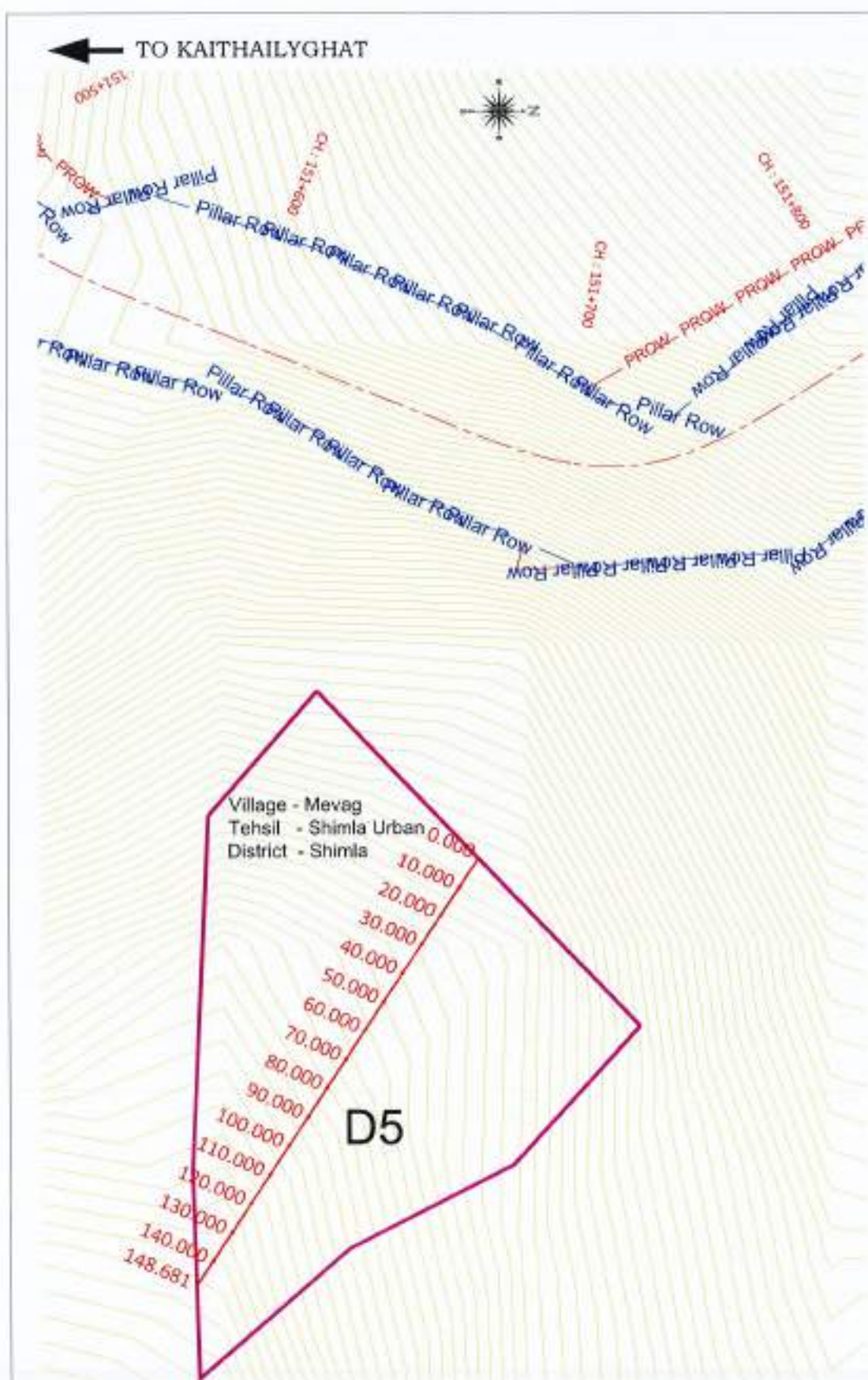


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Checked by: Sh. S. Sharma
Approved by: Sh. S. Sharma

RD	April - 2022	Initial Drawing	
Revisions	Date	Description	Checked by
Revisions			
DRAWING No: NHAI/NH-22/KAITH-DHALLI/MDS/04A/RD			
NUMBER OF SHEET			

24-04-22



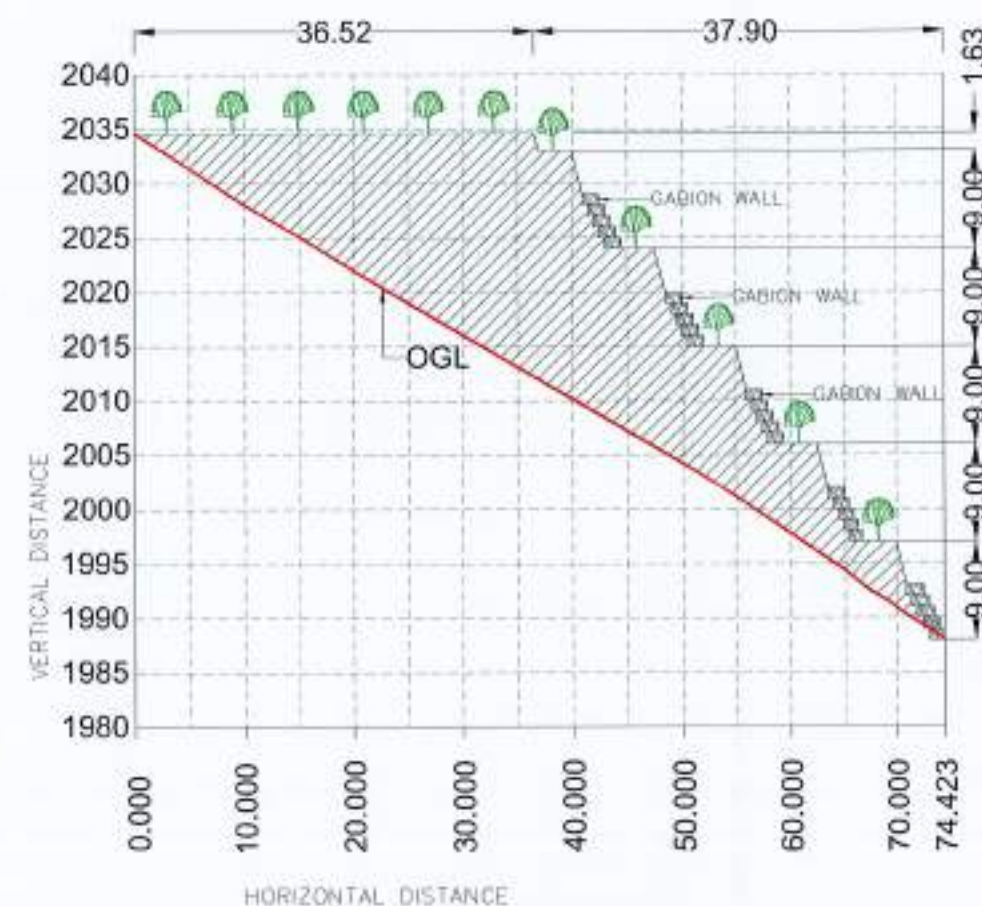
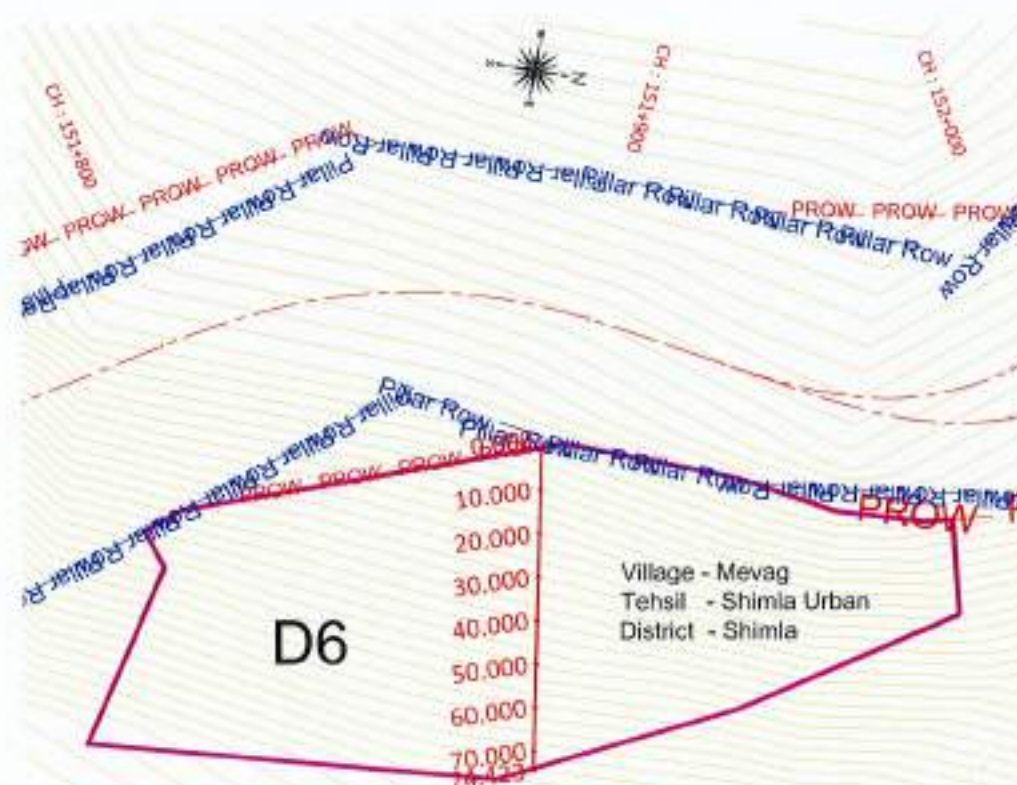
SECTION A-A
LONGITUDINAL PROFILE OF D5
QUANTITY = 268390.94 CUM

 NATIONAL HIGHWAYS AUTHORITY OF INDIA		Scale:- N.T.S.	Project Title: Consultancy Services for Preparation of DPR of 4-Laning of Proposed Shimla Bypass From Kaithailyghat 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: MUCK DUMPING SITE SITE - D5	<div><div></div><div>Intercontinental Consultants & Technocrats Pvt Ltd, A-8, Green Park, New Delhi - 110016 Ph : 4086-3000, Fax 2685-5252</div></div> <div><div>Mr. Kumar Gupta Prepared by</div><div>Mr. S. Sharma Designed by</div><div>Mr. Chandan Checked by</div><div>Mr. Shyam Lal Approved by</div></div>	<table><tr><td>80</td><td>April - 2022</td><td>Initial Drawing</td><td></td></tr><tr><td>Revisions</td><td>Date</td><td>Description</td><td>Checked by</td></tr><tr><td colspan="4">Revisions</td></tr><tr><td colspan="4">DRAWING No: NHAI/NH-22/KAITH-DHALLI/MDS/ 05 /R0</td></tr><tr><td colspan="4">NUMBER OF SHEET</td></tr></table>	80	April - 2022	Initial Drawing		Revisions	Date	Description	Checked by	Revisions				DRAWING No: NHAI/NH-22/KAITH-DHALLI/MDS/ 05 /R0				NUMBER OF SHEET			
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NUMBER OF SHEET																										

महाप्रबंधक (सकनीकी) / NHAI
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भारत सरकार / N.H.A.I.
एकाई - शिमला (हि०प्र०) / PIU-Shimla (H.P.)

← TO KAITHAILYGHAT

TO DHALLI →



SECTION A-A
LONGITUDINAL PROFILE OF D6
QUANTITY = 139681.96 CUM

भारतीय (सर्वनीकी) / GM(T.)
 एवं परियोजना निदेशक / & Project Director
 भारत रा. प्रा. / N.H.A.I.
 पंजाब - शिमला (हि.प्र.) / PIU-Shimla (H.P.)



NATIONAL HIGHWAYS
 AUTHORITY OF INDIA

Scale:-

N.T.S.

Project Title:
 Consultancy Services for Preparation of DPR of 4-Laning of
 Proposed Shimla Bypass From Kaithailyghat 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:
 MUCK DUMPING SITE
 SITE - D6



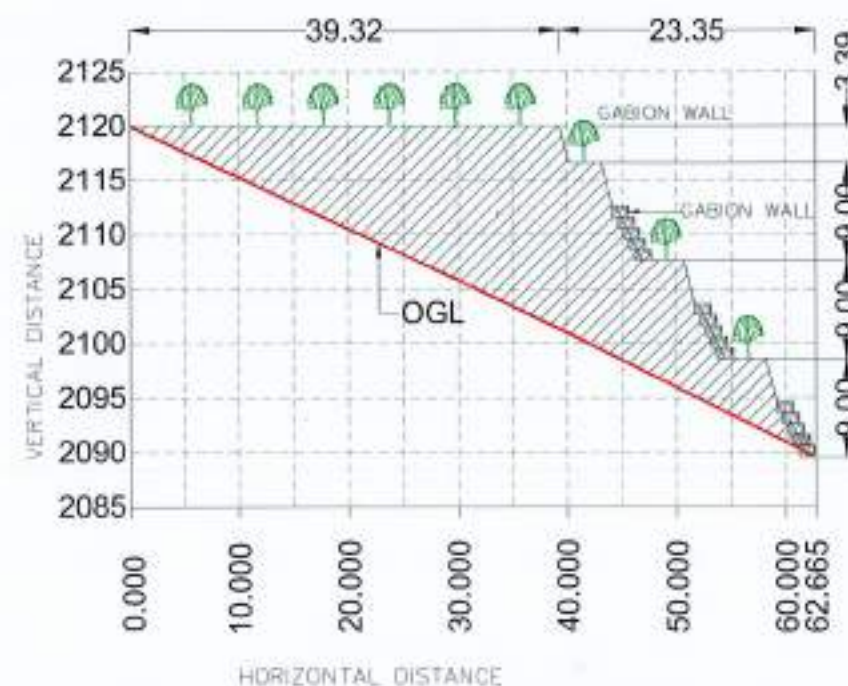
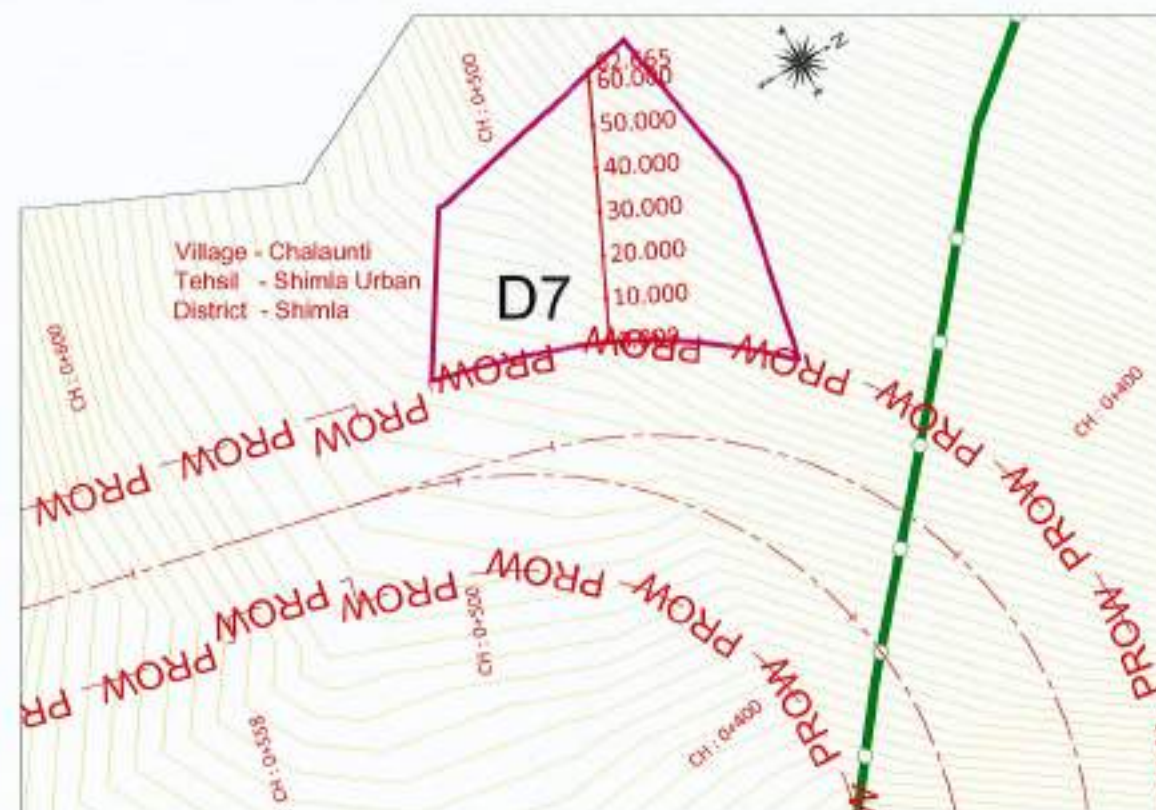
Intercontinental Consultants & Technocrats Pvt. Ltd.
 A-8, Green Park, New Delhi - 110016
 Ph : 4086-3000, Fax 2685-5252

Prepared by: Shri. Anurag Gupta, Desined by: Preeti Khatun, Checked by: Nirmal Choudhary, Approved by: Sandip Bhattacharya

RD	April - 2022	Initial Drawing	
Revisions	Date	Description	Checked by
Revisions			
DRAWING No: NHAI/NH-22/KAITH-DHALLI/MDS/ 06 /RD			
NUMBER OF SHEET			
24-04-22			



← TO KAITHAILYGHAT

TO DHALLI →



SECTION A-A
LONGITUDINAL PROFILE OF D7
QUANTITY = 35116.62 CUM

महाप्रबंधक (तकनीकी) / GM(T.)
एवं परियोजना निदेशक / & Project Director
भारत राष्ट्रीय / N.H.A.I.
ए.का.ई. - शिमला (हिमाचल) / PIU-Shimla (H.P.)

 NATIONAL HIGHWAYS AUTHORITY OF INDIA	Scale:- M.T.S.	Project Title: Consultancy Services for Preparation of DPR of 4-Laning of Proposed Shimla Bypass From Kaitailyghat 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: MUCK DUMPING SITE SITE - D7	 Interccontinental Consultants & Technocrats Pvt Ltd. A-8, Green Park, New Delhi - 110016 Ph : 4086-3000, Fax 2685-5252 Prepared by: Sh. K. Gupta Designed by: Sh. K. Gupta Checked by: Sh. K. Gupta Approved by: Sh. K. Gupta	RD Revisions 	April - 2022 Date 	Initial Drawing Description 	Checked by
					Revisions			
					DRAWING No: NHAI/NH-22/KAITH-DHALLI/MDS/ 07 /R0 NUMBER OF SHEET			

24-04-22

Village - Tila
Tehsil - Shimla Rural
District - Shimla

D8

CH : 155+000

CH : 155+100

CH : 155+200

CH : 155+300

CH : 155+400

CH : 155+500

CH : 155+600

CH : 155+700

CH : 155+800

CH : 155+900

CH : 155+1000

CH : 155+1100

CH : 155+1200

CH : 155+1300

CH : 155+1400

CH : 155+1500

CH : 155+1600

CH : 155+1700

CH : 155+1800

CH : 155+1900

CH : 155+2000

CH : 155+2100

CH : 155+2200

CH : 155+2300

CH : 155+2400

CH : 155+2500

CH : 155+2600

CH : 155+2700

CH : 155+2800

CH : 155+2900

CH : 155+3000

CH : 155+3100

CH : 155+3200

CH : 155+3300

CH : 155+3400

CH : 155+3500

CH : 155+3600

CH : 155+3700

CH : 155+3800

CH : 155+3900

CH : 155+4000

CH : 155+4100

CH : 155+4200

CH : 155+4300

CH : 155+4400

CH : 155+4500

CH : 155+4600

CH : 155+4700

CH : 155+4800

CH : 155+4900

CH : 155+5000

CH : 155+5100

CH : 155+5200

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CH : 155+5500

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CH : 155+5800

CH : 155+5900

CH : 155+6000

CH : 155+6100

CH : 155+6200

CH : 155+6300

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CH : 155+6600

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CH : 155+6800

CH : 155+6900

CH : 155+7000

CH : 155+7100

CH : 155+7200

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CH : 155+17800

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CH : 155+19800

CH : 155+19900

CH : 155+20000

CH : 155+20100

CH : 155+20200

CH : 155+20300

CH : 155+20400

CH : 155+20500

CH : 155+20600

CH : 155+20700

CH : 155+20800

CH : 155+20900

CH : 155+21000

CH : 155+21100

CH : 155+21200

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CH : 155+21700

CH : 155+21800

CH : 155+21900

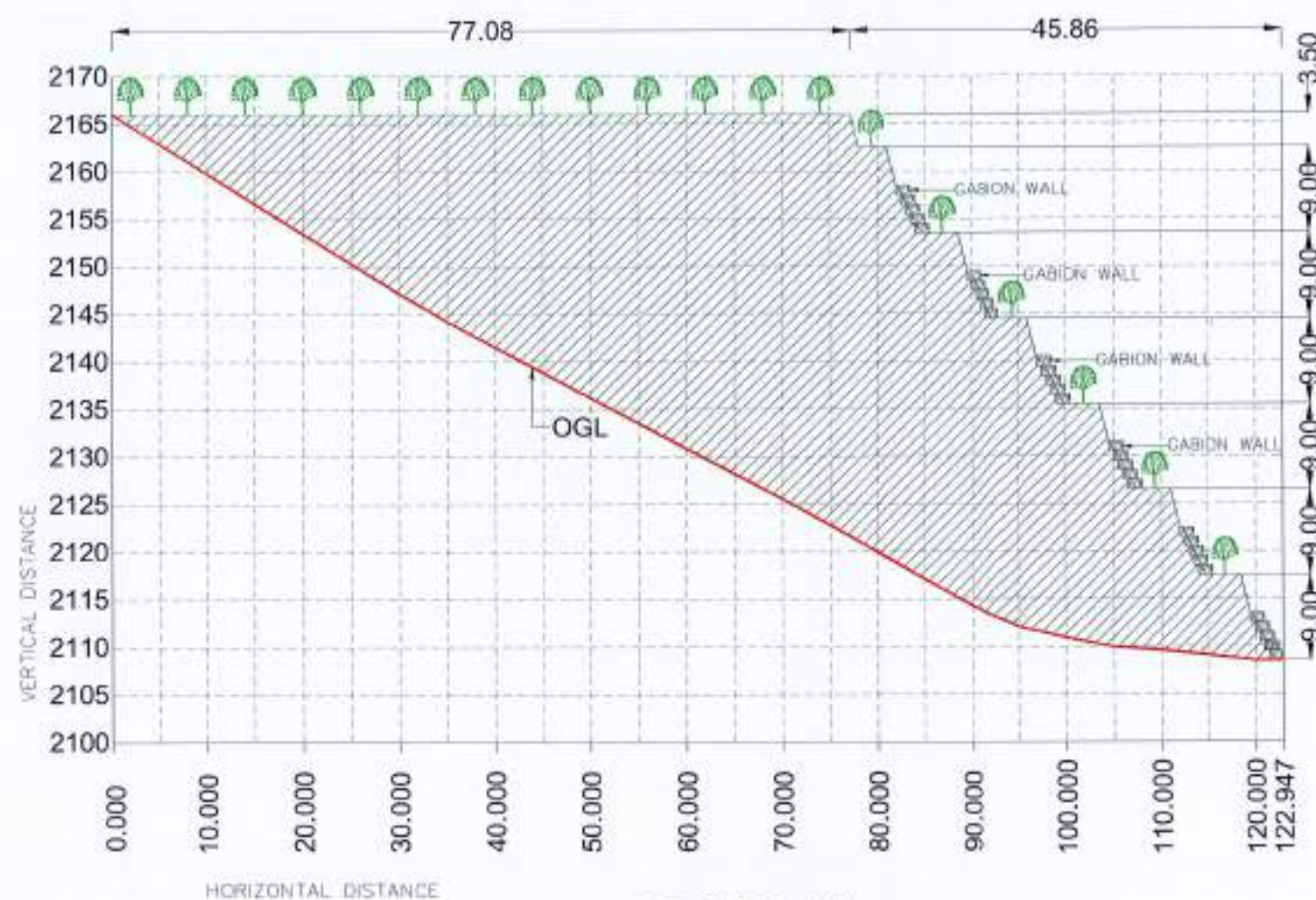
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CH : 155+22100

CH : 155+22200

CH : 155+22300

CH : 155+22400



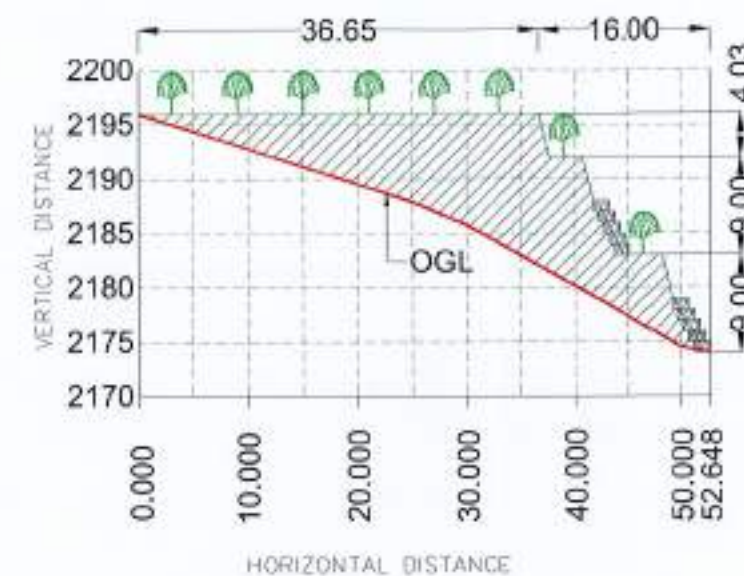
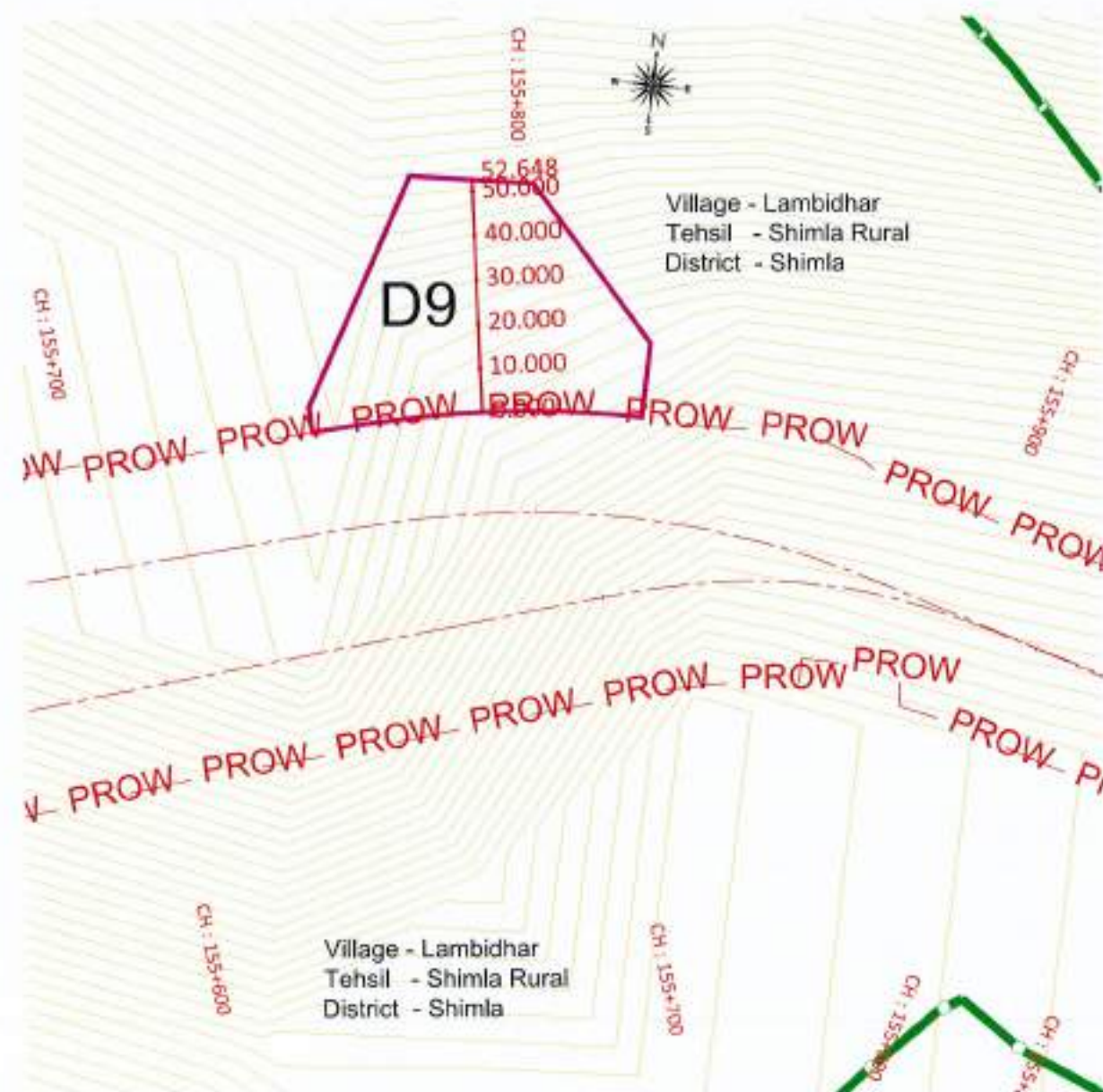
SECTION A-A
LONGITUDINAL PROFILE OF D8
QUANTITY = 358825.88 CUM

महाप्रबंधक (सक्तीकी) / G.M.(T)
एवं परियोजना निदेशक / & Project Director
भारतवाय / N.H.A.I.
पकाई - शिमला (हि०प्र०) / PIU-Shimla (H.P.)

 NATIONAL HIGHWAYS AUTHORITY OF INDIA	Scale:- N.T.S	Project Title: Consultancy Services for Preparation of DPR of 4-Laning of Proposed Shimla Bypass From Kaithailyghat 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: MUCK DUMPING SITE SITE - DS	 Intercontinental Consultants & Technocrats Pvt Ltd, A-8, Green Park, New Delhi - 110016 Ph : 4086-3000, Fax 2685-5252	RD Revisions	April - 2022 Date	Initial Drawing Description	Checked by
					Revisions.			
					DRAWING No: NHAI/NH-22/KAITH-DHALLI/MDS/ 08 /RD			
					NUMBER OF SHEET			
					24-04			

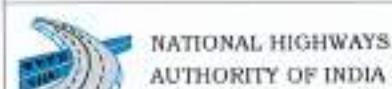
← TO KAITHAILYGHAT

TO DHALLI →



SECTION A-A
LONGITUDINAL PROFILE OF D9
QUANTITY = 17651.40 CUM

[Signature]
महाप्रबंधक (तकनीकी) / GM(T)
एवं परियोजना निदेशक / & Project Director
भारतवाणि / N.H.A.I.
पंजाब - शिमला (हि.प्र.) / PIU-Shimla (H.P.)



Scale:-

N.T.S

Project Title:
Consultancy Services for Preparation of DPR of 4-Laning of
Proposed Shimla Bypass From Kaithailyghat 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:
MUCK DUMPING SITE
SITE - D9



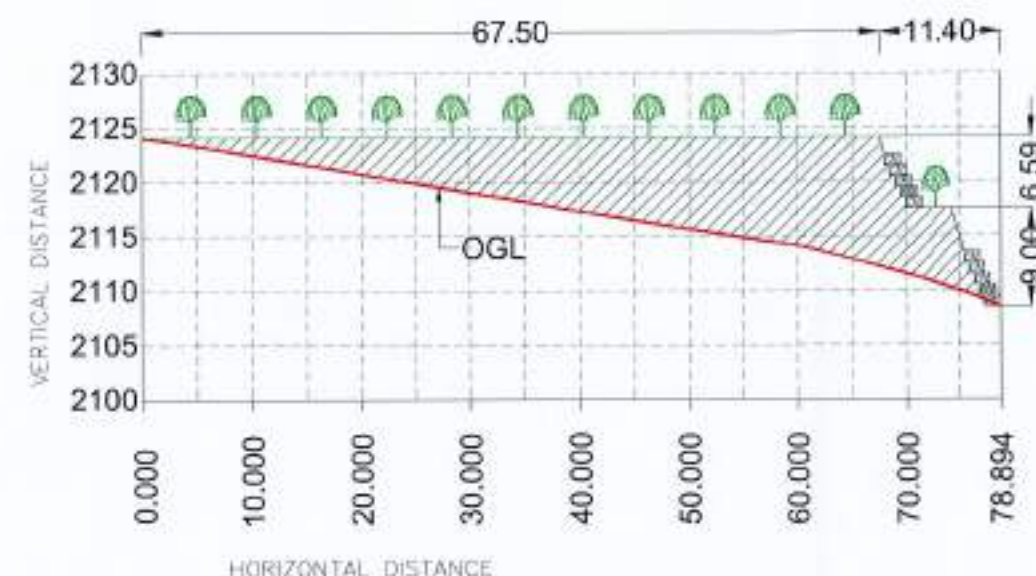
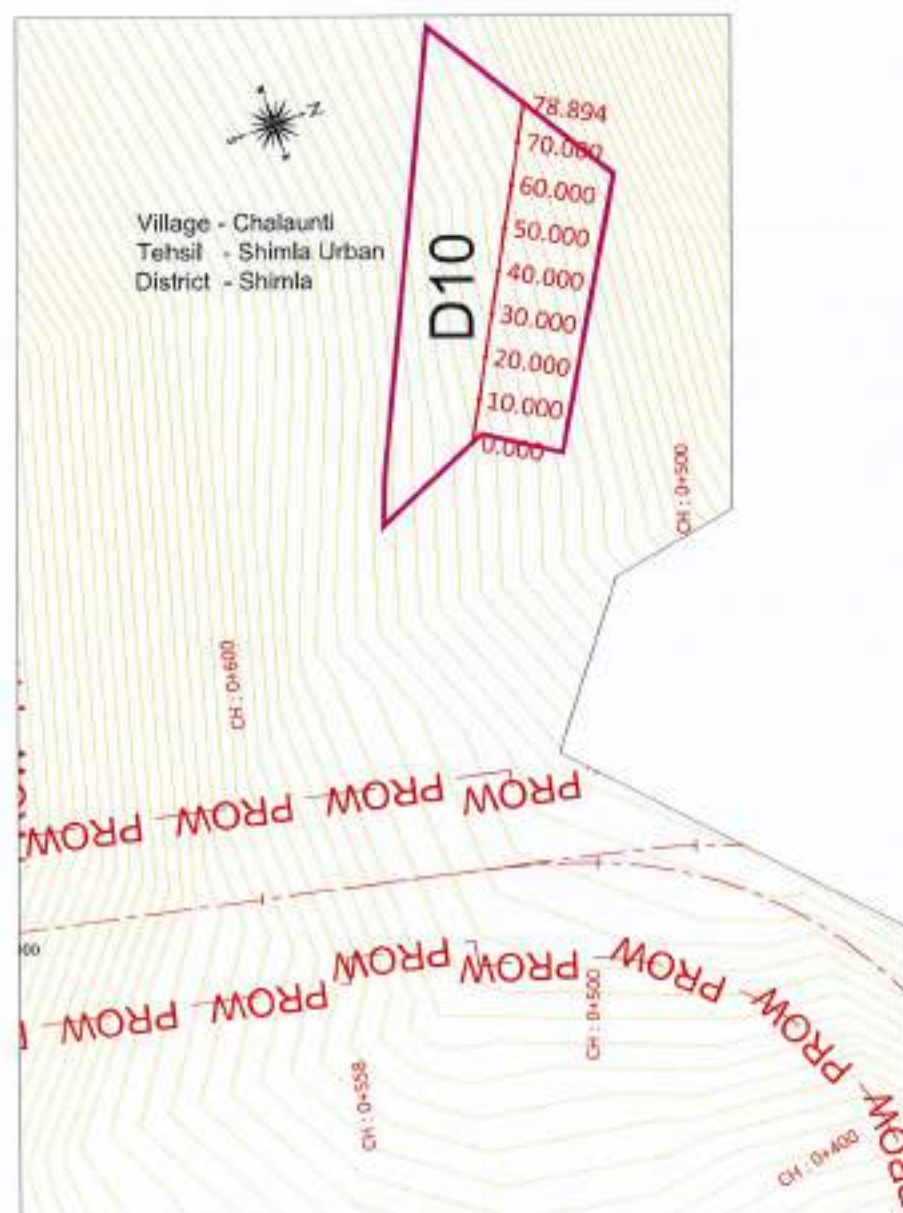
Intercontinental Consultants & Technocrats Pvt Ltd,
A-8, Green Park, New Delhi - 110016
Ph : 4086-3000, Fax 2585-5252

Prepared by: *[Signature]* Designated by: *[Signature]* Checked by: *[Signature]* Approved by: *[Signature]*

Revisions	Date	Initial Drawing	Description	Checked by
Revisions				
DRAWING No: NHAI/NH-22/KAITH-DHALLI/MDS/ 09 /R0				
NUMBER OF SHEET				24-04-22

← TO KATHAILYGHAT

TO DHALLI →



SECTION A-A
LONGITUDINAL PROFILE OF D10
QUANTITY = 16168.82 CUM

महाप्रबंधक (सकनीकी)/जीएच.आई.
एवं परियोजना निदेशक / & Project Director
भारत-राष्ट्र / N.H.A.I.
प.का.ई. - गिमला (हि.प्र.) / RIU-Shimla (H.P.)



NATIONAL HIGHWAYS
AUTHORITY OF INDIA

Scale:-

N.T.S

Project Title:

Consultancy Services for Preparation of DPR of 4-Laning of
Proposed Shimla Bypass From Kathailyghat 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:

MUCK DUMPING SITE

SITE - D10



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

NO	Date	Initial Drawing	Checked by
Revisions		Description	
Revisions			
DRAWING No: NHAI/NH-22/KATH-DHALLI/MDS/ 10 /80			
NUMBER OF SHEET			

24-04-23

CHECKLIST Sl. No. 30b

Full Title of the proposal:- *Additional Forest Land requirement for four laning of NH-05 from Shakral Village to Dhalli section (Shimla Bypass Package II from Km 146+300 to Km 156+560 and Shimla Connectivity from Km 0+000 to Km 0+725 for Design length – 10.985 Km) in already approved FCA case of the entire section from Kaithlight to Dhalli (Chainage from Km. 129.050 to Km. 156.507) of NH-22 (New NH-05) for 40.3 Ha in the State of Himachal Pradesh.*

File No. : FP/HP/ROAD/154923/2022

Date of Proposal: 27th April, 2022

CHECK LIST SERIAL NO. – 30b

ANY OTHER INFORMATION

(Wildlife Distance Certificate)

Date :

Place : Shimla



Signature of User Agency
Office Seal

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

महाप्रबंधक (तकनीकी) / GM(T.)
एवं परियोजना निदेशक / & Project Director
भारत राष्ट्रीय / N.H.A.I.
पत्राई - शिमला (हिमाचल) / PIU-Shimla (H.P.)

No. WLM-102/ 2323
H.P. Forest Department,

Dated Shimla, the 6-7-22

From:

**Dy. Conservator of Forests,
Wildlife Division, Shimla.**

To:

**The GM (T)-cum -Project Director
NHAI PIU- Shimla .**

Subject:

Additional Forest Land requirement for four laning of NH-05 from Shakral to Dhalli section (Shimla Bypass Package ii from Km 146+300 to Km 156+560 and Shimla Connectivity from Km. 0+000 to Km 0+725 for Design length -10.985 Km) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 129.050 to Km. 156.507) of NH-22 (New NH-05) for 40.3 ha in the State of Himachal Pradesh - reg Distance from WLS Certificate.

Sir,

Kindly reference to your letter No. 11013 /03/2016/K-D/Forest/ PIU-SML/525 dated 02-06-2022 on the subject cited above.

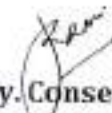
As per report sent by Range Forest Officer, SWC, Dhalli the aerial distance of the proposed above site is approx. **29.28 mtr.** from Shimla Water Catchment Wildlife Sanctuary, but inside the Eco Sensitive Zone of Shimla Water Catchment Sanctuary.


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,


**Dy. Conservator of Forests,
Wildlife Division, Shimla.**


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

CHECKLIST Sl. No. 31

Full Title of the proposal:- Additional Forest Land requirement for four lining of NH-05 from Shakral Village to Dhalli section (Shimla Bypass Package II from Km 146+300 to Km 156+560 and Shimla Connectivity from Km 0+000 to Km 0+725 for Design length – 10.985 Km) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 129.050 to Km. 156.507) of NH-22 (New NH-05) for 40.3 Ha in the State of Himachal Pradesh.

File No. : FP/HP/ROAD/154923/2022

Date of Proposal: 27th April, 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 1 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 (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.	It is a new bypass but the details of PROW and forest area shown in strip plan attached as ' <i>Annexure 2 to Checklist SL No. 31</i> '.
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 :

Place : Shimla


Signature of User Agency

Office Seal

Project Director

National Highways Authority of India

Project Implementation Unit (PIU)

Shimla, Himachal Pradesh

महाप्रबंधक (सकनीकी)/GM(T.)

एवं परियोजना निदेशक / & Project Director

भारत गणराज्य / N.H.A.I.

शिमला - हिमाचल प्रदेश (140900)/PIU-Shimla (H.P.)

Annexure 1 to
CHECKLIST Sl. No. 31

Full Title of the proposal:- Additional Forest Land requirement for four laning of NH-05 from Shakral Village to Dhalli section (Shimla Bypass Package II from Km 146+300 to Km 156+560 and Shimla Connectivity from Km 0+000 to Km 0+725 for Design length – 10.985 Km) in already approved FCA case of the entire section from Kaithlighat to Dhalli (Chainage from Km. 129.050 to Km. 156.507) of NH-22 (New NH-05) for 40.3 Ha in the State of Himachal Pradesh.

File No. : FP/HP/ROAD/154923/2022

Date of Proposal: 27th April, 2022

INFORMATION IN RESPECT OF ITEM LENGTH & WIDTH

1.	Total length of road already acquired	–	10.260 km
2.	Total length of additional widening along the road	–	10.985 km
3.	Length of additional widening passing through forest	–	7.876 km
4.	Length of additional widening passing through non forest	–	3.109 km
5.	Width of additional widening along the road	–	Varies from 29.40 m to 142.00 m
6.	Length of the road already existing/constructed out of the total length involved in the project	–	NIL

Date:

Place: Shimla



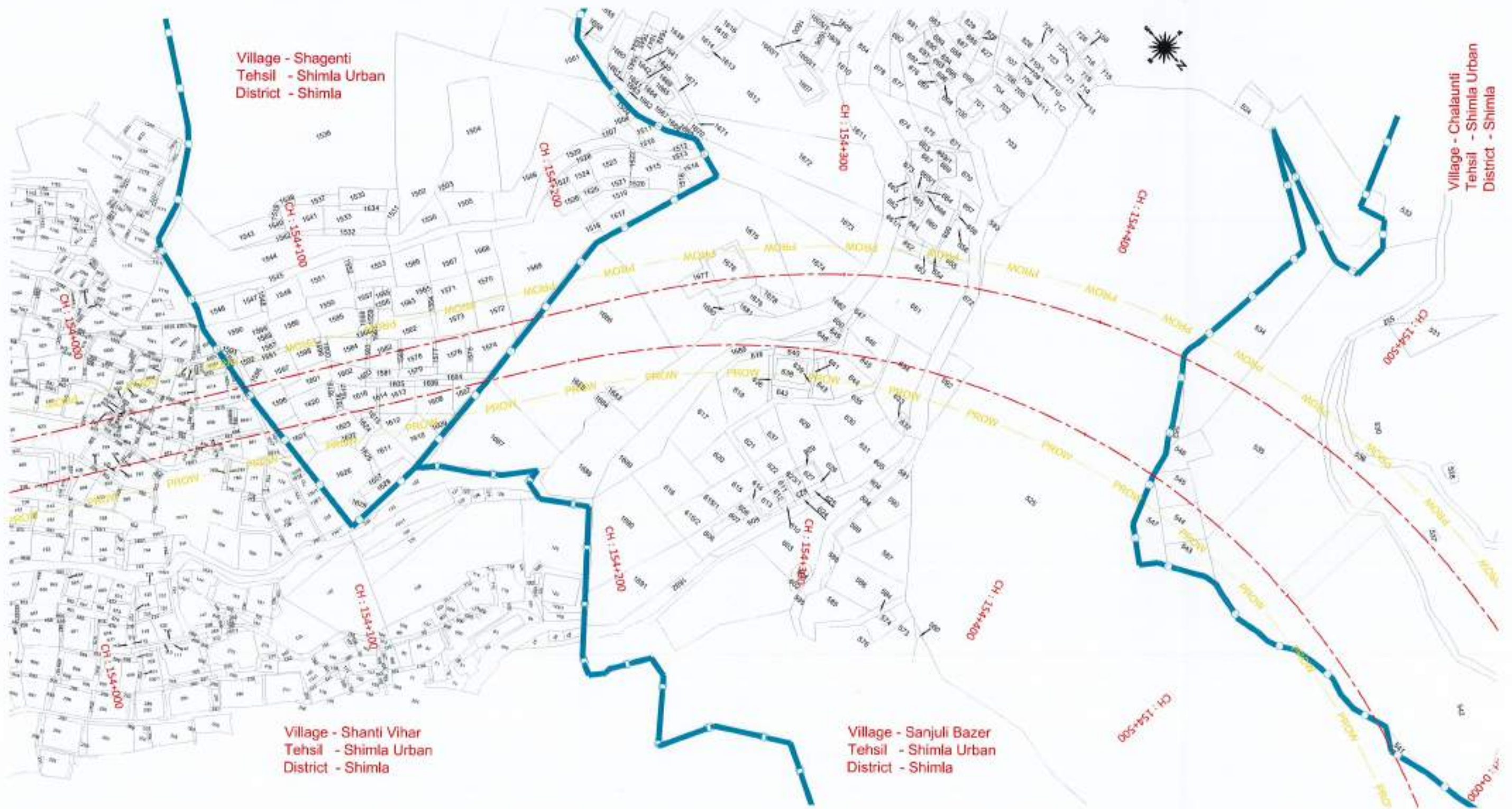
**National Highways Authority of India
Project Implementation Unit (PIU)
Shimla, Himachal Pradesh**

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

Annexure 2 to
CHECKLIST Sl. No. 31

TO SHAKRAL

TO DHALLI



Legend:-

Proposed Centerline: ———— Approved Right of Way: ———— Paved Road: ———— Additional Right of Way: ———— Kharsa Line: ———— Village Boundary: ———— Muck Site: ———— Proposed Forest Area: ————

Scale :

SCALE 1 : 1500

Project Title

Construction of Four laning of NH- 5 from Shakral Village to Dhali section (Shimla Bypass Package- II from Km 146+300 to Km 156+560 and Shimla Connectivity from Km 0+000 to Km 0+725 for design length - 10.965 Km) in the state of Himachal Pradesh on HAM.

Drawing Name

STRIP PLAN

Ch. Km 154+000 To 154+500

Intercontinental Consultants & Technocrats Pvt Ltd,
A-8, Green Park, New Delhi - 110016
Ph : 4096-3000, Fax 2685-5252

Prepared by: Lali Sood
Designed by: S.K. Verma
Checked by: Nagesh Chandra
Approved by: Sandeep Bhattacharya

Rev.	Date	Description	Checked by
01	July, 2022	Final DPR	
02			
03			
04			
05			
06			
07			
08			
09			
10			

महाप्रबंधक (उपनिर्देशक) / G.M.(F)
एवं परियोजना निदेशक / & Project Director
भारतवाणि / N.H.A.I.
महाराष्ट्र, विमान / (विमान) / P.H.I. Shimla (H.P.)

TO SHAKRAL

TO DHALLI

Village - Chalaunti
Tehsil - Shimla Urban
District - Shimla

Village - Sanjuli Bazer
Tehsil - Shimla Urban
District - Shimla

Village - Tila
Tehsil - Shimla Rural
District - Shimla

Legend:-

Proposed Centerline: ———— Approved Right of Way: ———— Filter Row: ———— Additional Right of Way: PROW ———— Khassra Line: ———— Village Boundary: ———— Muck Site: ———— Proposed Forest Area: ————



NATIONAL HIGHWAYS
AUTHORITY OF INDIA

Scale :

SCALE 1 : 1500

Project Title

Construction of Four laning of NH- 5 from Shakral Village to Dhalli section
(Shimla Bypass Package- II from Km 146+300 to Km 155+560 and
Shimla Connectivity from Km 0+000 to Km 0+725 for design length -
10.985 Km) in the state of Himachal Pradesh on HAM.

Drawing Name

STRIP PLAN

Ch. Km 154+500 To 155+000

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



Prepared by: L. K. Verma
Designed by: N. K. Verma
Checked by: N. K. Verma
Approved by: N. K. Verma

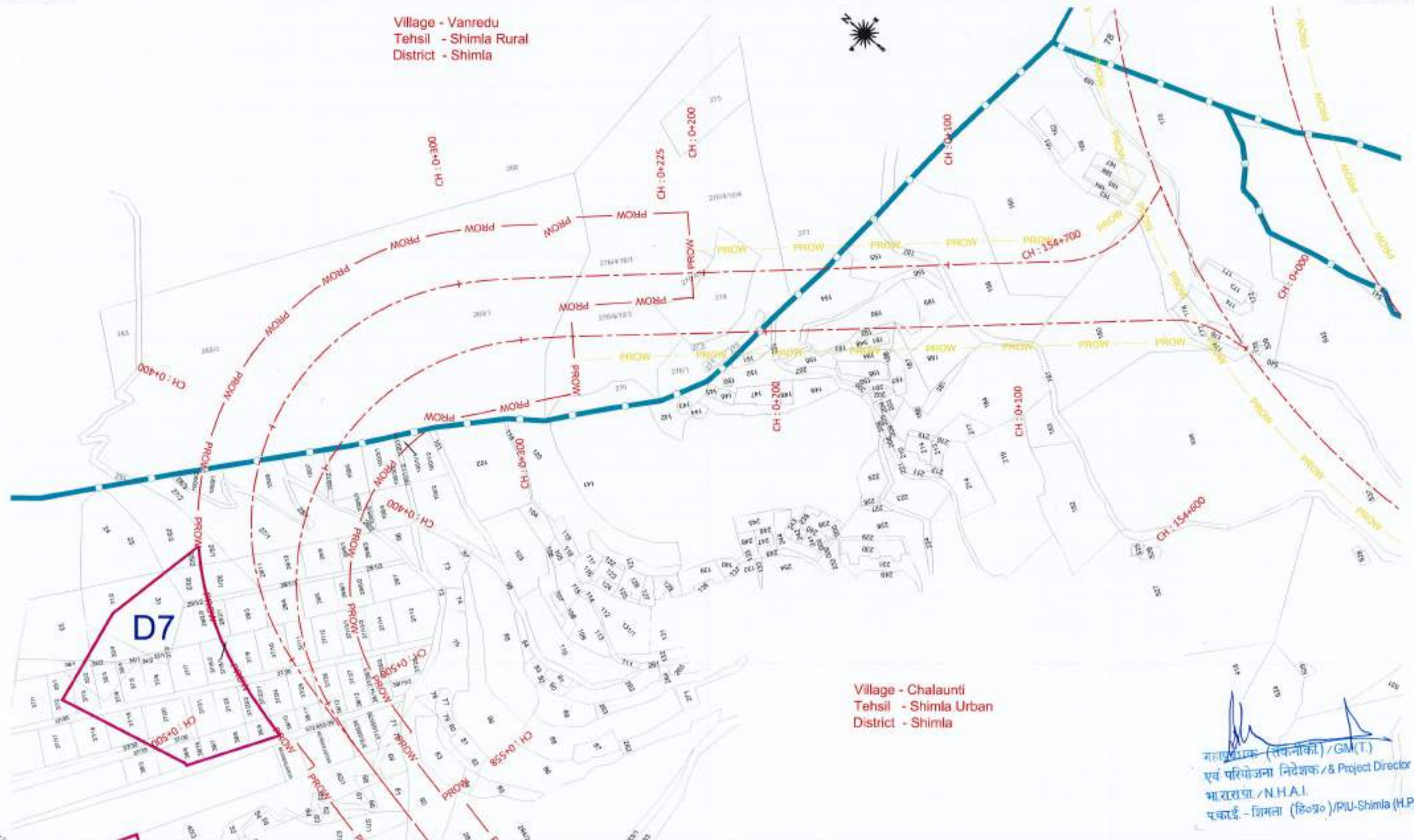
Revisions	Date	Description	Checked by
10	July, 2022	Final DWR	
DRAWING No: NH/SH-5/SIMLA - BYPASS/SP/ 13			
Rev.	RD		

महाप्रबंधक (सड़कीय) / GM(T.)
एवं परियोजना निदेशक / & Project Director
भारत प्रा. / N.H.A.I.
एकाई - शिमला (हि०प्र०) / PIU-Shimla (H.P.)

TO SHAKRAL

TO DHALLI

Village - Vanredu
Tehsil - Shimla Rural
District - Shimla



Village - Chalaunti
Tehsil - Shimla Urban
District - Shimla

गहापुष्पक (सिकनीकी) / G.M.T.
एवं परियोजना निदेशक / & Project Director
भारत सरकार / N.H.A.I.
पंजाब - शिमला (हि.प्र.) / P.U.-Shimla (H.P.)

Legend:-

Proposed Centerline: ———— Approved Right of Way: ———— File: ———— Additional Right of Way: ———— Kharsa Line: ———— Village Boundary: ———— Muck Site: ———— Proposed Forest Area: ————

Scale:

Project Title

Drawing Name



NATIONAL HIGHWAYS
AUTHORITY OF INDIA

SCALE 1 : 1500

Construction of Four laning of NH- 5 from Shakral Village to Dhalli section
(Shimla Bypass Package- II from Km 146+300 to Km 156+560 and
Shimla Connectivity from Km 0+000 to Km 0+725 for design length -
10.965 Km) in the state of Himachal Pradesh on HAM.

STRIP PLAN

Ch. Km 0+000 To 0+500



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

Prepared by: Lakt Sani
Designed by: E.K. Verma
Checked by: Naveen
Approved by: Sandeep Bhattacharya

NO	Date	Final DPR	Checked by
1	July, 2022		
Revisions	Description	Rev.	NO
1	DRAWING No. NHAI/NH-5/SHIMLA - DTP/88/57/ 20		

TO SHAKRAL

TO DHALLI

Village - Chalaunti
Tehsil - Shimla Urban
District - Shimla

D10

Village - Vanredu
Tehsil - Shimla Rural
District - Shimla

महाप्रबंधक (तकनीकी) / GM(T.)
एवं परियोजना निदेशक / & Project Director
भारतवासी / N.H.A.I.
पंचाई - शिमला (हिमाचल) / PIU-Shimla (H.P.)

Legend:-

Proposed Centerline: ———— Approved Right of Way: ———— Polar Line: ———— Additional Right of Way: ———— Khasra Line: ———— Village Boundary: ———— Muck Site: ———— Proposed Forest Area: ————



NATIONAL HIGHWAYS
AUTHORITY OF INDIA

Scale :

SCALE 1 : 1500

Project Title

Construction of Four lining of NH- 5 from Shakral Village to Dhali section
(Shimla Bypass Package- II from Km 146+300 to Km 156+560 and
Shimla Connectivity from Km 0+000 to Km 0+725 for design length -
10.985 Km) in the state of Himachal Pradesh on HAM.

Drawing Name

STRIP PLAN

Ch. Km 0+500 To 0+725



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RD	July, 2002	Final DPR	Checked by
Revisions	Date	Description	
Revisions			
DRAWING No:- NHAI/NH-5/SHIMLA - BYPASS/SP/ 21			
Rev.	RD		