



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)

National Highways Authority of India

(Ministry of Road Transport and Highways, Govt. of India)

परियोजना कार्यान्वयन इकाई पालमपुर

Project Implementation Unit - Palampur



NHAI/PIU-PALM/HP/11016/12/Forest/2022-23/1236

17 Nov, 2022

To,

1. The Divisional Forest Officer (DFO)
Nurpur Distt Kangra, Himachal Pradesh.
2. The Divisional Forest Officer (DFO)
Dharamshala Distt Kangra, Himachal Pradesh.
3. The Divisional Forest Officer (DFO)
Dalhousie Distt Chamba, Himachal Pradesh.

Sub: Diversion of 7.1203 hectare of forest land for rehabilitation and up-gradation to Four Lane configuration & Strengthening of Sihuni to Rajol from Kms. 51/00 to 72/00 (Package-IIA) (Design Length 18.450 Kms) of NH-20 (New NH-154) of Pathankot-Mandi Section in the State of Himachal Pradesh within the jurisdiction of Nurpur, Dharamshala & Dalhousie Forest Divisions in District Kangra & Chamba (Online Proposal No. FP/HP/Road/152261/2021).

(i) **Proposal No. :** FP/HP/Road/152261/2021.

(ii) **Name of Project for which Forest Land is required:-** Diversion of 7.1203 hectare of forest land for rehabilitation and up-gradation to Four Lane configuration & Strengthening of Sihuni to Rajol from Kms. 51/00 to 72/00 (Package-IIA) (Design Length 18.450 Kms) of NH-20 (New NH-154) of Pathankot-Mandi Section in the State of Himachal Pradesh

(iii) **Short narrative of the proposal and Project/scheme for which the forest land is required :-** Diversion of 7.1203 Ha Forest land for Rehabilitation and Up-gradation to Four Lane configuration & Strengthening of Sihuni to Rajol from Kms. 51/00 to 72/00 (Package-IIA) (Design Length 18.450 Kms) of Pathankot-Mandi Section in the state of Himachal Pradesh.

- | | |
|--|--------------------|
| (iv) State | : Himachal Pradesh |
| (v) Category of the Proposal | : Road |
| (vi) Shape of forest land proposed to be diverted | : Linear |
| (vii) Area of forest land proposed for diversion (in ha) | : 7.1203 |

Memo:

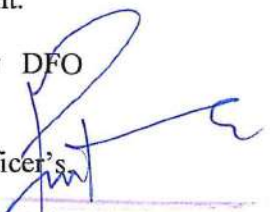
Kindly refer to GoI letter No. FC/HPC/06/155/2022 dated 18.10.2022 addressed to Addl. Chief Secretary (Forests) to Govt. of Himachal Pradesh Shimla copy of which endorsed to Nodal Officer-Cum-Addl. PCCF (FCA) O/o Pr.CCF (HoFF) H.P. Shimla & DFO Nurpur, Dharamshala, Dalhousie, on the above sited subject.

In this connection, it is submitted that the point-wise reply to the observations raised by GoI is furnished as under:-

Project Director
NHAI, PIU - Palampur

1. The forest land is not involved for diversion in village Paid, Kholi, Falgehar, Dadroli, Hara, Bagru, Parrel, Manjhgran, Kutlehar, Upahu, Mahakali, Har, Kakroh, Thara, Behkari & Uparla Bhanjar. Hence, the FRA certificate along with FRC consultations and proceedings of its meetings are not required. All the authenticated FRC consultations of the villages in which the forest land is affected in the part of PROW are submitted as annexure-A
2. The necessary cost benefit ratio analysis has been prepared on the prescribed format and uploaded on the MoEF & CC Web Portal. The copy of the same is also enclosed herewith. Annexure-B
3. The private land/non forest land has not been included in the proposal. Only 7.1203 ha of forest land involved in the proposal. The private land has been acquired as per National Highways Act 1956 and Compensation for the same has been paid as per Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation Resettlement act. (RFCTLARR) Act, 2013.
4. Yes the existing road was constructed before 1980 as NH 20. The Survey of India Topo-Sheet No 52 D/4, which are based on surveys conducted during the year 1961 and 1981-82, in which the National Highway has been marked is enclosed herewith and have been authenticated by the undersigned and the DFO Dharamshala. Annexure-C
5. The slope inclination of cutting is determined based on the geological composition of the rock strata and slope. The optimum angle at which minimum excavation by cutting at steeper angle (Angle of repose) without causing any impact on slope stability is chosen. Three-dimensional reinforced erosion control mats (IRC 56:5.9), Ring net, Gabion Wall has already been catered necessary mitigation measures in addition to RCC/PCC retaining structures. The elaborate slope stabilization measures if felt necessary during work in progress like Hydro seeding, reinforcing slope material etc. will be carried out by engaging the field experts. It is intimated that the funds as applicable as per para 1(a) & (b) of the letter No. FC-11/43/2021-FC dated 07.06.2022 will be deposited into the account of CAMAPA as and when the demand is raised for the same, prior to actual working on the Forest area and the same may be intimated to the MoEF&CC. It is further intimated that the stretch of the proposed highway does not fall within approx. 34.67 Km from the nearest wildlife sanctuary (Kalatop Khajjiar). Hence, there is no need to deposit 2% of project cost for wildlife mitigations. Whereas 0.5% of the project cost will be deposited towards the cost of implementation of Soil and Moisture conservation Plan. The funds will be deposited in the CAMPA account prior to actual working on forest area as directed in para 1(b) of the above letter. (The undertaking for the same is attached herewith)
- b) However a case has been taken up with NHAI HQ for further directions on the matter.
6. The needful has been done in the KML file
7. The needful has been done in the KML file, the KML included both Forest area and Non Forest area.
8. The instant diversion proposal involves 11 No's of bridges, 113 No's of culverts. There are no flyovers, Tunnels or railway crossing in the stretch. Also all the components is included in the component wise breakup (Part-1). Area wise detailed calculations is attached as annexure-D

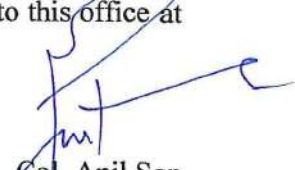
9. The copy of the sanction letter of the instant proposal issued by the competent authority is enclosed herewith. The same has also been uploaded PARIVESH Portal Annexure-E
10. The necessary action may be done by the concerned Divisional Forest Officer's.
11. There is an "S" curve from KM 51.700 to KM 52.560 on existing highway. To improve the geometry of the road as per IRC SP-84 standard the "S" curve has been improved. Due to which stretch of existing highway from KM 51.850 to KM 52.170. and KM 52.215 to KM 52.400 has been excluded from the PROW. The sketch is attach as annexure-F
12. The kilometer wise proposed RoW (PRoW) and existing RoW (ERoW) along with chinage wise area calculation falling in the forest land as well as non-forest land has been prepared and enclosed herewith. Annexure-G
13. Since the proposed road traverses in mixed terrain i.e. plain & rolling to mountainous & steep. Thus, ROW has been proposed from 35.5 to 45.0m considering the site conditions and to construct road in this bare minimum Proposed ROW only. For the extant proposal IRC SP; 84 is applicable as per guidelines of Ministry of Transport & Highways. Accordingly, the average affected width in forest land is around 10.160 Km. Similarly, affected width in non-forest land is 24.429 Km. However, as per clause 2.3 of IRC SP: 84-2019, ROW for development of 4-lane road is 60.0m. Annexure-H
14. Yes, the existing road was constructed before 1980 as NH-20. The Survey of India Topo-Sheet No 52 D/4, which are based on surveys conducted during the year 1961 and 1981-82, in which the National Highway has been marked is enclosed herewith. (Copy enclose as annexure C, (refer para 4 above).
15. Muck Dumping sites, Muck dumped balance capacity and amount of muck to be dumped in tabulated form has been prepared and duly authenticated by DFO concerned. Also, the undertaking has been enclosed herewith. Annexure -I
16. The necessary village wise population certificate to be benefited along with village code duly authenticated by the competent authority has been obtained by the user agency which is enclosed herewith. The same has also been uploaded on the online Web Portal. Annexure -J
17. The necessary line plan has been prepared on the prescribed format and uploaded on the MoEF & CC Web Portal. The copy of the same is also enclosed herewith. Annexure -K
18. Need full has been done and submitted. The Forest Department has no such Waste lands which comes under the category of Protected Forests also have neither been demarcated on the ground or transferred & mutated in the name of forest department in the revenue records which could be considered for CA and double the area of such category which is covered under Indian Forest Act, 1927 & declared as RF/PF after mutation in the name of State Forest Department.
19. The division-wise enumeration list of trees duly authenticated by DFO concerned has been prepared and uploaded on the Parivesh portal.
20. The necessary action may be done by the concerned Divisional Forest Officer's


Project Director
NHAI, PIU - Palampur

21. The necessary action may be done by the concerned Divisional Forest Officer's.
22. There is no other alternative alignment feasible for this project as per IRC guidelines except the approved one. Thus, resulting into involvement of 7.1203 ha. Forest land 2538 of trees are falling within the PROW. However all the endeavors will be made to save the trees during finalizing of the road design/construction of the proposed highway.
23. The proposal involves the rehabilitation in respect of the road and not about the rehabilitation of displaced population. The displaced population/affected families are being compensated as per policy/Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013.
24. Endeavors will be made not to disturb any water source whether natural or man-made. However, where ever it is inevitable to avoid disturbance the contractor on his cost has to shift the affected source in such a manner that the yield & utility of the resources is maintained (As per schedule B of the contract agreement).
25. The revised detailed note mentioning all the details of the extant proposal has been prepared and uploaded on the online Web Portal.
26. The necessary action may be done by the concerned Divisional Forest Officer's
27. It is stated that at the locations where Bahl Khad & Chambi Khad flows, existing bridges have already been constructed and fully operational. Also, length of new bridges have been proposed either equal or higher to existing bridges based on the hydrological studies at the same locations only without disturbing the catchment area as well as without violating any Hydrological layer rule.
28. The necessary action may be done by the concerned Divisional Forest Officer's
29. The necessary action may be done by the concerned Divisional Forest Officer's

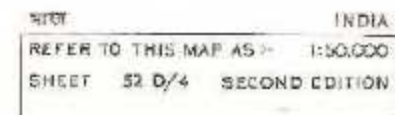
It is therefore requested that the necessary approval for the diversion of 7.1203 hectare of forest land in favour of National Highways Authority of India PIU Palampur for the Rehabilitation and up-gradation to Four Lane configuration & Strengthening of Sihuni to Rajol (Km.51.000 to 72.000) of NH-154 may kindly be obtained from the Govt. of India under Forest (Conservation) Act, 1980 and conveyed to this office at the earliest please.

Encl: As above.


Col. Anil Sen
GM/Project Director

Copy to:-

- i) The Nodal Officer Shimla (FCA), Distt Shimla HP.
- ii) The Chief Conservator of Forest, Dharamshala, Distt Kangra HP
- iii) The Chief Conservator of Forest, Chamba, Distt Chamba HP



RESTRICTED

हिमाचल प्रदेश
HIMĀCHAL PRADESH

SECOND EDITION

CHAMBA & KANGRA DISTRICTS.

Surveyed 1981-82.
1010 128 704 1000

Magnetic Variation from True North about 1° East in 1995.
Extensively about 2 mm/sec.

No. 52 $\frac{D}{4}$ 

$43 \frac{7}{15}$	$51 \frac{10}{2}$	$52 \frac{10}{7}$
$43 \frac{7}{10}$	$52 \frac{10}{2}$	$52 \frac{10}{6}$
$44 \frac{11}{12}$	$53 \frac{8}{1}$	$53 \frac{8}{3}$

भारत के गणतन्त्रिक स. प्रजासिद्ध नाम, के निर्देशन में प्रकाशित,
Published under the direction of Dr. Pritivish Nag, Surveyor General of India.
Survey of India Hall/Barbika Estate, Post Box No. 37, Dehra Dun-248001 (Uttaranchal), Department of Science & Technology, Government of India.

1:50,000

HEIGHTS & CONTOURS IN METRES

Water features are shown in blue where they generally contain water.
Cultivated areas are colored yellow.
The various boundaries of areas of forested or protected forests are shown by green shading.

The unapportioned heigh and estimate in this fund have not been adjusted to the extent of the non-levied municipalities and may not be strictly in accordance with law.

Unfunded needs in this fund are generally acceptable in my opinion. Attention is called above to the extent of the required fund for the Forest Reservoirs.

This sheet has been compiled from 1-25,000 survey.

Administrative Index

W

RANGUA

100

I CHANSA.

[illegible]

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This map is NOT to be published, copied or reproduced in part or as whole either by photography or by any other means without the approval of the cartographer and publisher.

REFER TO THIS MAP AS: 1:50,000
SHEET 52 D/4 SECOND EDITION

INDIA

Wiley

Vas. leap	Veterinary	Hospital	OT	Overhead tank
map	Dispensary		WT	Wire fence

Divisional Forest Officer,
Dharamshala Forest Division,
Dharamshala

Proposed Bridge details of Pkg-IIA section of NH-154

Span Length of Bridges have been proposed based on the Detailed Hydrological studies to cater the Surface Run off considering HFL of last 100 years & the catchment of Rivers as well as Channels/Streams/Khad/Nallahs and. Also, bridge spans have been finalized considering the techno-economic feasibility & aesthetic view of site location.

Existing bridges those are under capacity based on cross sectional width of 4-lane+PS and loading capacity are undergoes for re-construction and those existing bridges which are fulfilling the requirement are retained. The details of Major Bridges & Minor Bridges are given below.

Major Bridge

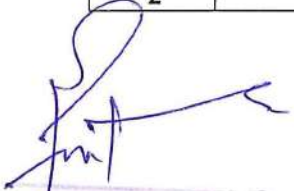
S.No	Design Chainage (Km)	Proposed Span arrangement (m)	Total Length (m)	Overall Width in (m)	Remarks
1	59+778	4x42	168	25	PSC I-Girder
2	62+925	2x30+1x42	102	25	PSC I-Girder

Minor Bridge

S.No	Design Chainage (Km)	Proposed Span arrangement(m)	Total Length (m)	Remarks
1	48+855	1x20	20	RCC T-Beam
2	51+370	1x15	15	RCC T-Beam
3	51+430	1x15	15	RCC T-Beam
4	53+025	1x25	25	RCC T-Beam
5	56+152	1x14	14	RCC Solid Slab
6	56+840	1x20	20	RCC T-Beam
7	57+320	1x10	10	RCC Solid Slab
8	59+258	1x10	10	RCC Solid Slab
9	66+244	1x14	14	RCC Solid Slab

Culverts

S.No	Proposed Span arrangement(m)	No of Culverts	Remarks
1	4X4	14	RCC Box Culvert
2	2X2	99	RCC Box


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Rehabilitation and Upgradation to 4 Lane configuration & Strengthening of Sihuni to Rajol from Km 51.000 to Km 72.000 of NH-20 (New NH-154) (Design Length 18.450 KM) of Pathankot-Mandi Section under NH(O) in HP on HAM basis (package-IIA).

Appendix-BIX

a) Reconstruction of Culverts

S. No	Existing Chainage(KM)/ Culvert No.	Design Chainage (KM)	Spans/Opening with span length (m)	Remarks
1.	52/1	48+260	4x4	RCC Box Culvert
2.	52/2	48+382	4x4	RCC Box Culvert
3.	52/3	48+506	4x4	RCC Box Culvert
4.	53/3	49+070	4x4	RCC Box Culvert
5.	54/1	49+507	4x4	RCC Box Culvert
6.	54 /2	49+550	4x4	RCC Box Culvert
7.	54/3	49+605	2x2	RCC Box Culvert
8.	54/4	49+775	2x2	RCC Box Culvert
9.	54/5	49+795	2X2	RCC Box Culvert
10.	54/6	50+033	2x2	RCC Box Culvert
11.	54/7	50+153	2x2	RCC Box Culvert
12.	54/8	50+334	2x2	RCC Box Culvert
13.	54/9	50+408	2x2	RCC Box Culvert
14.	54/10	50+494	2x2	RCC Box Culvert
15.	55/6	50+982	2X2	RCC Box Culvert
16.	55/7	51+109	4x4	RCC Box Culvert
17.	56/5	51+650	2x2	RCC Box Culvert
18.	56/7	51+743	2x2	RCC Box Culvert
19.	56/8	51+823	2x2	RCC Box Culvert
20.	56/10	51+983	4x4	RCC Box Culvert
21.	56/11	52+093	4x4	RCC Box Culvert
22.	57/1	52+403	2x2	RCC Box Culvert
23.	57/2	52+453	2x2	RCC Box Culvert
24.	57/3	52+653	2x2	RCC Box Culvert
25.	57/4	52+803	2x2	RCC Box Culvert
26.	57/5	52+907	4x4	RCC Box Culvert
27.	58/2	53+623	2x2	RCC Box Culvert

Rehabilitation and Upgradation to 4 Lane configuration & Strengthening of Sihuni to Rajol from Km 51.000 to Km 72.000 of NH-20 (New NH-154) (Design Length 18.450 KM) of Pathankot-Mandi Section under NH(O) in HP on HAM basis (package-IIA).

S. No	Existing Chainage(KM)/ Culvert No.	Design Chainage (KM)	Spans/Opening with span length (m)	Remarks
28.	58/3	53+740	2x2	RCC Box Culvert
29.	58/4	53+800	4x4	RCC Box Culvert
30.	58/5	53+850	4x4	RCC Box Culvert
31.	59/2	54+345	2x2	RCC Box Culvert
32.	59/3	54+480	2x2	RCC Box Culvert
33.	59/4	54+702	4x4	RCC Box Culvert
34.	60/1	55+155	2x2	RCC Box Culvert
35.	60/2	55+370	2x2	RCC Box Culvert
36.	60/4	55+640	2x2	RCC Box Culvert
37.	60/5	55+790	2x2	RCC Box Culvert
38.	61/1	55+895	2X2	RCC Box Culvert
39.	61/5	56+250	2x2	RCC Box Culvert
40.	61/6	56+558	2x2	RCC Box Culvert
41.	61/7	56+960	4x4	RCC Box Culvert
42.	62/2	57+400	2x2	RCC Box Culvert
43.	63/1	57+505	2x2	RCC Box Culvert
44.	63/2	57+605	2x2	RCC Box Culvert
45.	63/3	57+845	2x2	RCC Box Culvert
46.	63/4	58+515	2x2	RCC Box Culvert
47.	63/5	58+700	2x2	RCC Box Culvert
48.	64/1	58+860	2x2	RCC Box Culvert
49.	64/2	58+945	2x2	RCC Box Culvert
50.	64/3	59+010	2x2	RCC Box Culvert
51.	64/4	59+055	2x2	RCC Box Culvert
52.	64/5	59+180	2X2	RCC Box Culvert
53.	64/7	59+445	2x2	RCC Box Culvert
54.	64/8	59+615	2x2	RCC Box Culvert
55.	65/11	60+000	2x2	RCC Box Culvert
56.	65/12	60+090	2x2	RCC Box Culvert
57.	65/13	60+155	2x2	RCC Box Culvert

Rehabilitation and Upgradation to 4 Lane configuration & Strengthening of Sihuni to Rajol from Km 51.000 to Km 72.000 of NH-20 (New NH-154) (Design Length 18.450 KM) of Pathankot-Mandi Section under NH(O) in HP on HAM basis (package-IIA).

S. No	Existing Chainage(KM)/ Culvert No.	Design Chainage (KM)	Spans/Opening with span length (m)	Remarks
58.	65/17	60+315	2x2	RCC Box Culvert
59.	66/1	60+400	2x2	RCC Box Culvert
60.	66/2	60+540	2x2	RCC Box Culvert
61.	66/4	60+630	2x2	RCC Box Culvert
62.	66/5	60+745	2x2	RCC Box Culvert
63.	66/6	61+945	2x2	RCC Box Culvert
64.	66/7	61+015	2x2	RCC Box Culvert
65.	66/8	61+030	2x2	RCC Box Culvert
66.	66/9	61+200	2x2	RCC Box Culvert
67.	66/11	61+230	2x2	RCC Box Culvert
68.	66/12	61+320	2x2	RCC Box Culvert
69.	66/13	61+375	2x2	RCC Box Culvert
70.	67/1	61+430	2x2	RCC Box Culvert
71.	67/2	61+545	2x2	RCC Box Culvert
72.	67/3	61+645	2x2	RCC Box Culvert
73.	67/4	61+710	2x2	RCC Box Culvert
74.	67/5	61+860	2x2	RCC Box Culvert
75.	67/6	61+945	2x2	RCC Box Culvert
76.	70/10	64+180	2x2	RCC Box Culvert
77.	70/11	64+250	2x2	RCC Box Culvert
78.	70/15	64+380	2X2	RCC Box Culvert
79.	70/16	64+435	2X2	RCC Box Culvert
80.	70/17	64+505	2x2	RCC Box Culvert
81.	70/18	64+540	2x2	RCC Box Culvert
82.	71/1	64+580	2X2	RCC Box Culvert
83.	71/2	64+730	2X2	RCC Box Culvert
84.	71/3	64+775	2X2	RCC Box Culvert
85.	71/4	64+830	2X2	RCC Box Culvert
86.	71/5	64+930	2X2	RCC Box Culvert
87.	71/6	65+010	2x2	RCC Box Culvert

Rehabilitation and Upgradation to 4 Lane configuration & Strengthening of Sihuni to Rajol from Km 51.000 to Km 72.000 of NH-20 (New NH-154) (Design Length 18.450 KM) of Pathankot-Mandi Section under NH(O) in HP on HAM basis (package-IIA).

S. No	Existing Chainage(KM)/ Culvert No.	Design Chainage (KM)	Spans/Opening with span length (m)	Remarks
88.	71/7	65+088	2x2	RCC Box Culvert
89.	71/8	65+160	2x2	RCC Box Culvert
90.	71/9	65+225	2x2	RCC Box Culvert
91.	71/10	65+325	2x2	RCC Box Culvert
92.	71/11	65+405	2x2	RCC Box Culvert
93.	72/1	65+610	2x2	RCC Box Culvert
94.	72/2	65+640	2x2	RCC Box Culvert
95.	72/4	65+790	2x2	RCC Box Culvert
96.	72/5	65+890	2x2	RCC Box Culvert
97.	72/6	65+925	2x2	RCC Box Culvert
98.	72/7	65+990	2x2	RCC Box Culvert
99.	72/8	66+100	2x2	RCC Box Culvert
100.	72/9	66+130	2x2	RCC Box Culvert
101.	72/10	66+190	2x2	RCC Box Culvert
102.	72/13	66+300	2x2	RCC Box Culvert
103.	72/14	66+340	2x2	RCC Box Culvert
104.	72/15	66+410	2x2	RCC Box Culvert

b) Widening of Culverts

S. No.	Existing Chainage (KM)	Design Chainage (KM)	Type, span, height and width of existing culvert (m)	Repairs to be carried out [specify]
NIL				

c) Retaining of Culverts

S. No.	Existing Chainage (KM)	Design Chainage (KM)	Existing			Development Proposal			
			Existing Structure	Span (m)	Width (m)	Retained	Proposed Structure Type	Span Arrangement	Total Width (m)
NIL									

d) Additional New culverts


Project Director
NHAI, PUI - Palampur

Rehabilitation and Upgradation to 4 Lane configuration & Strengthening of Sihuni to Rajol from Km 51.000 to Km 72.000 of NH-20 (New NH-154) (Design Length 18.450 KM) of Pathankot-Mandi Section under NH(O) in HP on HAM basis (package-IIA).

S. No.	Design Chainage (KM)	Type	Span (m)
1.	50+755	RCC Box Culvert	2x2
2.	50+883	RCC Box Culvert	2x2
3.	62+185	RCC Box Culvert	4x4
4.	62+300	RCC Box Culvert	2x2
5.	62+600	RCC Box Culvert	2x2
6.	63+340	RCC Box Culvert	2x2
7.	63+600	RCC Box Culvert	2x2
8.	63+850	RCC Box Culvert	2x2
9.	64+010	RCC Box Culvert	2x2



Project Director
NHAI, PIU - Palampur



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
(सड़क परिवहन और राजमार्ग मंत्रालय)
National Highways Authority of India
(Ministry of Road Transport and Highways)
जी-5 एव 6, सेक्टर-10, द्वारका, नई दिल्ली 110075
G-5 & 6, Sector-10, Dwarka, New Delhi-110075

संख्या: NHAI/Pathankot-Mandi/HP/2020
दिनांक: 09.10.2020

NHAI/Pathankot-Mandi/HP/2020

Date: 09.10.2020

To,

Shri Sudip Chaudhary
Chief Engineer (Planning)
Ministry of Road Transport & Highways
Transport Bhawan, Parliament Street, 1,
New Delhi 110001

Sub: HP/Punjab Border to Mandi section on NH-20 (Now NH-154) from km 11.000 to km 208.000 and in the State of Himachal Pradesh.

Ref: NHAI letter dt. 11.09.2020

Secretary, MoRTH DO letter dated 15.09.2020

Sir,

In continuation to NHAI even no. letter dt. 11.09.2020 and in reference to Secretary, MoRTH DO letter dated 15.09.2020, it is submitted that the subject stretch was entrusted to NHAI for maintenance and development under NH(O). The preparation of DPR for the same is under advanced stage. Considering strategic point of view, it has been principally decided to take up development of Pathankot-Mandi highway in five packages. Based on availability of resources and inter-se priority, following 05 packages will be taken up in financial year 2020-21 with following tentative details.

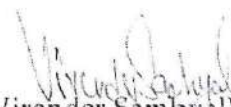
Package No	Length (in km)	Length of proposed tunnel	Civil Cost/ Bid Project Cost (Rs. In Cr.)	LA & Pre Construction Cost (Rs. In Cr.)	Total Capital Cost (Rs. In Cr.)	Traffic (2020) as per the DPR Consultant traffic done in July 2017
Package No I(HAM) HP/Punjab Border to Sihuni section from km 11.000 to km 51.000 4 Laning	37.03	700 m & 450 m	1150/ 1524.60	190.71	1715.31	13,526
Package No II (HAM) Sihuni to Paror section from km 51.000 to km 100.840 4 Laning	47.52	500m	1136.18/ 1497.50	463.10	1960.60	12,822

Project Director
NHAI, PIU - Palampur

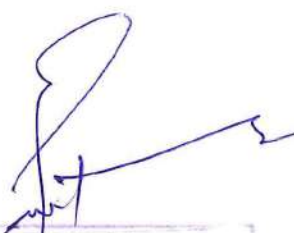
Package No III(HAM) Paror to Chauntra section from km 100.840 to km 140.625 2L+PS	32.18	1750 m	680.08/ 904.70	204.93	1109.63	8,739
Package No IV(HAM) Chauntra to Padhar section from km 140.625 to km 180.000 2L+PS	32.17 8	Nil	578.58/ 769.15	180.70	949.85	5,315
Package No V (HAM) Padhar to Mandi section from km 180.000 to km 208. 2L+PS	23.41 7	3800 m	1001.04/ 1331.80	193.68	1525.48	5,992

2. The above details are for your kind perusal & information and further directions, if any in the matter please.

Yours faithfully,


(Virender Sambyal)
General Manager (T) J&K/HP

Copy: RO HP & PD PIU Palampur


Project Director
NHAI, PIU - Palampur



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय)

National Highways Authority of India

(Ministry of Road Transport and Highways)

जो-5 एवं 6, सेक्टर-10, द्वारका, नई दिल्ली-110075

NHAI/Pathankot-Mandi/HP/2020

दूरभाष / Phone : 91-11-25074100/25074200

फैक्स / Fax : 91-11-25093507 / 25093514

Date : 09.10.2020

To,

Regional Officer, Himachal Pradesh
National Highways Authority of India
House No- 1, Rishikesh Sadan,
Shanti Kutia, Chakkar,
Shimla - 171005 (HP)

Sub: HP/Punjab Border to Mandi section on NH-20 (Now NH-154) from km 11.000 to km 208.000 and in the State of Himachal Pradesh.

Ref: NHAI letterdt. 11.09.2020

Secretary, MoRTH DO letter dated 15.09.2020

Sir,

The subject stretch was entrusted to NHAI for maintenance and development under NH(O). The preparation of DPR for the same is under advanced stage. Considering strategic point of view, it has been principally decided to take up development of Pathankot-Mandi highway in five packages. Based on availability of resources and inter-se priority, following 05 packages will be taken up in financial year 2020-21 with following tentative details.

Package No	Tentative Length (in km)
Package No I(HAM), HP/Punjab Border to Sihuni section from km 11.000 to km 51.000, 4 Laning	37.03
Package No II (HAM), Sihuni to Paror section from km 51.000 to km 100.840, 4 Laning	47.52
Package No III(HAM), Paror to Chauntra section from km 100.840 to km 140.625, 2L+PS	32.18
Package No IV(HAM), Chauntra to Padhar section from km 140.625 to km 180.000, 2L+PS	32.178
Package No V (HAM), Padhar to Mandi section from km 180.000 to km 208, 2L+PS	23.417

2. It is therefore requested to finalize the DPR duly verified for its suitability as per site condition, for the above 05 packages at the earliest, get it peer reviewed by Retired Government Officers as per NHAI Policy no. 10.2.24 dt. 22.07.2020 (in consultation with NHAI HQ) and submit the detailed proposals for placing before LAC Committee for consideration and necessary approvals.

3. This issues with the approval of the Competent Authority.

Yours faithfully,

Project Director
NHAI, PIU - Palampur

(Virender Sambyal)

General Manager (T) J&K/HP

Copy to: PD PIU Palampur

Annexure - F

13

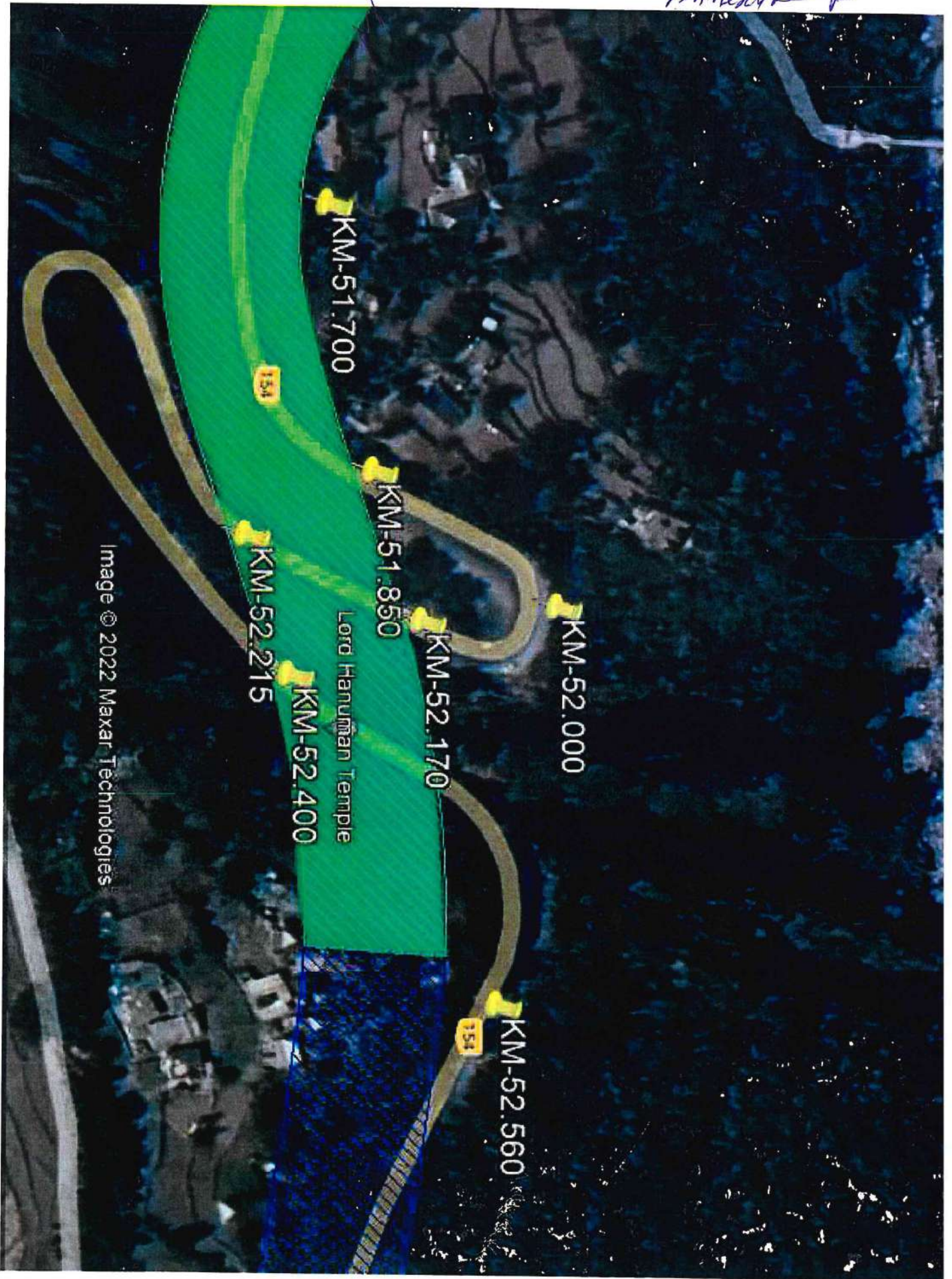


Image © 2022 Maxar Technologies

Table 2.1 Design Speed

Nature of Terrain	Cross Slope of the Ground	Design Speed (km/h)	
		Ruling	Minimum
Plain and Rolling	Up to 25 percent	100	80
Mountainous and Steep	More than 25 percent	60	40

Short stretches (say less than 1 km) of varying terrain met with on the road stretch shall not be taken into consideration while deciding the terrain classification for a given section of Project Highway.

2.2.2 In general, the ruling design speed shall be adopted for the various geometric design features of the road. Minimum design speed shall be adopted only where site conditions are restrictive and adequate land width is not available. Such stretches where design speed other than ruling speed is to be adopted shall be as indicated as deviation in **Schedule 'D'** of the Concession Agreement.

2.3 Right-of-Way

A minimum Right of Way (ROW) of 60 m should be available for development of a 4-lane highway. The Authority would acquire the additional land required, if any. The land to be acquired shall be indicated in **Schedule 'B'** of the Concession Agreement. The consideration for planning, design and construction described in Para 1.13 shall apply.

2.4 Lane Width of Carriageway

The standard lane width of project highway shall be 3.5 m.

2.5 Median

2.5.1 The median shall be either raised or depressed. The width of median is the distance between inside edges of carriageway. The type of median shall depend upon the availability of Right of Way. The minimum width of median, subject to availability of Right of Way, for various locations shall be as in **Table 2.2**.

Table 2.2 Width of Median

Type of Section	Minimum Width of Median (m)		
	Plain and Rolling Terrain		Mountainous and Steep Terrain
	Raised*	Depressed Median	Raised*
Open country with isolated built-up area	5.0	7.0	2.5
Built up area	2.5	Not Applicable	2.5
Approach to grade separated structures	5.0	Not Applicable	2.5

* Including Kerb shyness of 0.50 m on either side. In the existing 4-lane reaches also, the minimum kerb shyness of 0.5 m shall be maintained. This additional width for kerb shyness shall be catered by augmenting the carriageways toward the shoulder side. The type and widths of median in various stretches of Project Highway shall be as indicated in **Schedule 'B'**.

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MUCK DISPOSAL PLAN

1. Generated Muck Volume

Since proposed road traverses through undulated section in Plain & Rolling Terrain as well as in Mountainous & Steep Terrain in Open Country due to which road side cutting involves which requires removal of excavation of material i.e. soil, boulders etc.

The estimated volumes of muck to be generated from the road side cutting are given in table 1 below.

About 100% of the generated muck is to be reused in road construction for filling, construction of retaining/RS walls and in approaches of VUP as necessary. The total quantity of generated muck, reusable quantity, and quantity to be disposed are provided in Table 2 below.

Table: 1 Volume of Muck to be generated

S.No.	Description	Quantity	Unit
1	Material received from hill side cutting	795545.05	Cum
2	Total (1)	795545.05	Cum
3	Disposal and use of cutting material in road work		
1	Embankment filling from roadway cutting (80%)	298372.58	Cum
4	Total	298372.58	Cum
5	Material required to be disposed by cartage(2-4)	497172.47	Cum
6	Swell Factor 40%	198868.99	Cum
7	Total Material Required to be Disposed(5+6)	696041.46	Cum

Table 2 Summary of debris disposal

S.No.	Reused material for road construction	Total debris including 40% swell factor	Total disposal in dumping zone
1	298372.58	696041.46	696041.46

Note: - Muck Disposal 696041.46 cum is catered to Muck dumping location design km 84+927 to km 86+277 of Nagrota Bagwan bypass section for NH-154 Dumping Site Capacity length 1350 m size (1350*45*11.5) 698625 Cum.

Project Director
NHAI, PIU - Palampur

4-Lane of Pathankot to Mandi section NH-20 (New NH-154) PKG-IIA (Km 51.00 to Km 72.00)

2. Proposed Muck Disposal Site

The muck disposal site measuring a total area of 6.0750 ha have been selected as designated site for muck disposal as detailed in Table 3 below.

Table 3: Muck Disposal Sites-Present Status

Villages	Dumping Sides	Survey No	Existing Land		To be acquired Land		Total Land (Ha.)
			Forest Land (Ha.)	Non Forest Land (Ha.)	Forest Land (Ha.)	Non Forest Land (Ha.)	
Lalesar	MDS1	164				0.0218	0.0218
		165				0.0413	0.0413
		165/1				0.0130	0.0130
		166				0.0576	0.0576
		606				0.0062	0.0062
		607				0.0183	0.0183
		613				0.0158	0.0158
		614				0.1299	0.1299
		615				0.0821	0.0821
		616				0.0131	0.0131
		617				0.0806	0.0806
		618				0.0925	0.0925
		619				0.0243	0.0243
		620				0.0068	0.0068
		621				0.0928	0.0928
		622				0.0603	0.0603
		623				0.0196	0.0196
		624				0.0060	0.0060
		625				0.0099	0.0099
		626				0.0175	0.0175
		627				0.0056	0.0056
		628				0.0105	0.0105
		629				0.0791	0.0791
		630				0.0042	0.0042
		631				0.0124	0.0124

Project Director
NHAI PIU - Palampur

Muck Disposal Plan

		632				0.0014	0.0014
		633				0.0018	0.0018
		634				0.0038	0.0038
		635				0.0050	0.0050
		636				0.0062	0.0062
		637				0.0097	0.0097
		638				0.0118	0.0118
		639				0.0095	0.0095
		641				0.0120	0.0120
		645				0.0483	0.0483
		652				0.0240	0.0240
		733				0.0886	0.0886
		734				0.0158	0.0158
		735				0.0092	0.0092
		736				0.0494	0.0494
		740				0.0182	0.0182
		741				0.0151	0.0151
		742				0.0039	0.0039
		743				0.0021	0.0021
		744				0.0071	0.0071
		745				0.0064	0.0064
		746				0.0052	0.0052
		753				0.0183	0.0183
		1601/754				0.0779	0.0779
		1602/754				0.0835	0.0835
		1603/754				0.0662	0.0662
		1606/754				0.0533	0.0533
		1607/754				0.2150	0.2150
		387				0.0030	0.0030
		388				0.0182	0.0182
		389				0.0013	0.0013
		390				0.0053	0.0053
		396				0.0146	0.0146

Ranoohn

Project Director,
NHAI, PU - Palambur

4-Lane of Pathankot to Mandi section NH-20 (New NH-154) PKG-IIA (Km 51.00 to Km 72.00)

Muck Disposal Plan

		397				0.0216	0.0216
		398				0.1503	0.1503
		399				0.0036	0.0036
		400				0.0036	0.0036
		402				0.0018	0.0018
		403				0.0338	0.0338
		404				0.0425	0.0425
		405				0.0082	0.0082
		406				0.1943	0.1943
		407				0.0025	0.0025
		408				0.0813	0.0813
		409				0.0140	0.0140
		410				0.0080	0.0080
		411				0.0078	0.0078
		412				0.0118	0.0118
		413				0.0131	0.0131
		414				0.0034	0.0034
		415				0.0392	0.0392
		416				0.0208	0.0208
		417				0.0020	0.0020
		418				0.0066	0.0066
		419				0.0122	0.0122
		420				0.0515	0.0515
		421				0.0054	0.0054
		422				0.0212	0.0212
		423				0.0657	0.0657
		424				0.0276	0.0276
		425				0.0309	0.0309
		426				0.0028	0.0028
		427				0.0759	0.0759
		428				0.0024	0.0024
		431				0.0034	0.0034
		432				0.0016	0.0016

Project Director
NHAI, PIU - Palampur

4-Lane of Pathankot to Mandi section NH-20 (New NH-154) PKG-IIA (Km 51.00 to Km 72.00)

Muck Disposal Plan

		433				0.0046	0.0046
		434				0.0020	0.0020
		435				0.0040	0.0040
		436				0.0114	0.0114
		437				0.0487	0.0487
		438				0.0021	0.0021
		439				0.0024	0.0024
		440				0.0222	0.0222
		441				0.0200	0.0200
		442				0.0094	0.0094
		443				0.0044	0.0044
		447				0.0014	0.0014
		448				0.0102	0.0102
		449				0.0094	0.0094
		450				0.0016	0.0016
		452				0.0010	0.0010
		453				0.0010	0.0010
		454				0.0088	0.0088
		455				0.0094	0.0094
		456				0.0030	0.0030
		457				0.0010	0.0010
		458				0.0070	0.0070
		464				0.0012	0.0012
		465				0.0014	0.0014
		466				0.0120	0.0120
		467				0.0151	0.0151
		468				0.0054	0.0054
		469				0.0022	0.0022
		892				0.0076	0.0076
		900			0.0144		0.0144
		901				0.0381	0.0381
		902				0.0102	0.0102
		903				0.0067	0.0067

Project Director
NHA PIU - Palamou

4-Lane of Pathankot to Mandi section NH-20 (New NH-154) PKG-IIA (Km 51.00 to Km 72.00)

Muck Disposal Plan

		1013				0.0015	0.0015
		1016				0.0020	0.0020
		1017				0.0052	0.0052
		1018				0.0068	0.0068
		1019				0.0060	0.0060
		1020				0.0091	0.0091
		1023				0.0021	0.0021
		1024				0.0205	0.0205
		1025			0.0060		0.0060
		1026				0.1266	0.1266
		1027			0.0016		0.0016
		1028				0.0498	0.0498
		1029			0.0126		0.0126
		1030				0.0033	0.0033
		1031				0.0044	0.0044
		1032				0.0537	0.0537
		1033			0.0118		0.0118
		1034				0.0474	0.0474
		1035				0.0502	0.0502
		1036				0.0032	0.0032
		1037				0.0024	0.0024
		1038				0.0033	0.0033
		1039			0.2072		0.2072
		1040			0.2828		0.2828
		1041				0.0177	0.0177
		1042			0.1082		0.1082
		1043				0.1409	0.1409
		1044			0.1128		0.1128
		1045				0.0108	0.0108
		1046				0.0415	0.0415
		1954/1047				0.0074	0.0074
		1955/1047				0.0384	0.0384
		1956/1047				0.0200	0.0200

4-Lane of Pathankot to Mandi section NH-20 (New NH-154) PKG-IIA (Km 51.00 to Km 72.00)

Muck Disposal Plan

		1048				0.0701	0.0701
		1050				0.0271	0.0271
		1051			0.0100		0.0100
		1052				0.0477	0.0477
		1053			0.0173		0.0173
		1054				0.0060	0.0060
		1055			0.1078		0.1078
		1056				0.0358	0.0358
		1057				0.1160	0.1160
		1058			0.0576		0.0576
		1059			0.3434		0.3434
		1154				0.0091	0.0091
		1155			0.4343		0.4343
		1753				0.0180	0.0180
		1756				0.0190	0.0190
		1757				0.0238	0.0238
		1758				0.2125	0.2125
	Total				1.7278	4.3472	6.0750

The muck disposal lands proposed are generally in non-forest area but due to under-capacity some forest land has also been acquired within the PROW to fulfil the muck dumping as no other alternative non-forest land is available along the project area. Out of the total 6.0750 ha, 4.3472 ha. Forest land has already been diverted in 2021 through Proposal FP/HP/ROAD/152261/2022 dated 15/07/2022 for muck disposal.

Moreover, Digital elevation models, as presented in **Figure 1** of the one (01) selected muck disposal sites, were prepared for all muck dumping sites to ascertain the topography and determining the location and length of the gabion wall for slope protection so as to prevent the muck from reaching into natural streams.


Project Director
NHA, PU - Pajampur

Muck Dumping Site-I

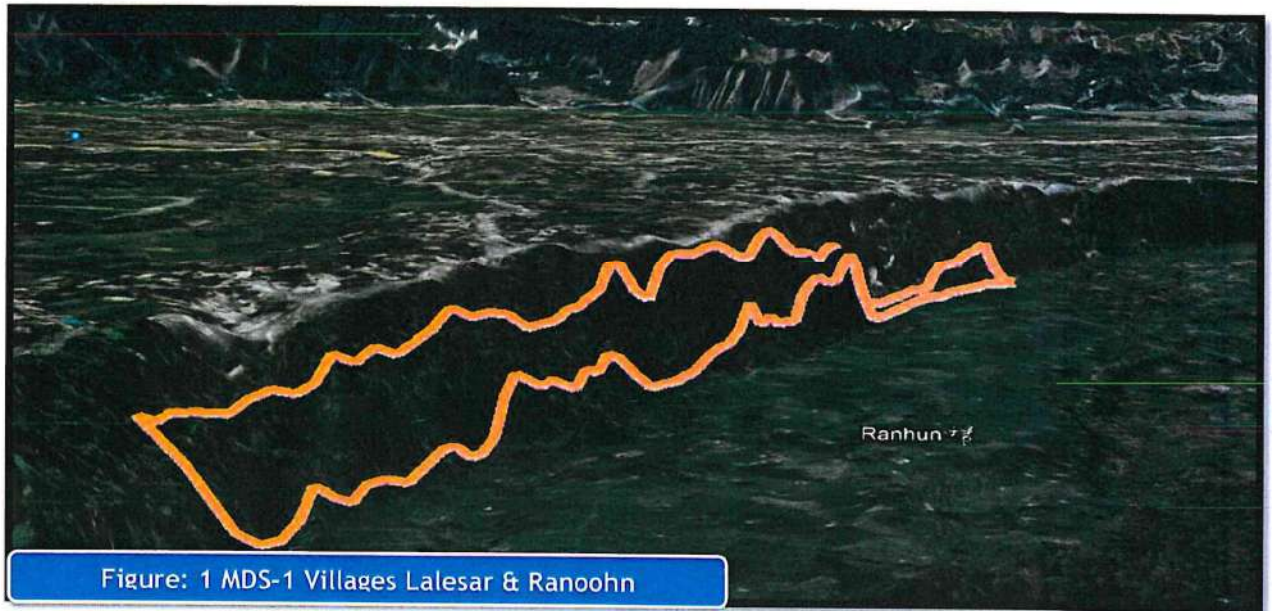
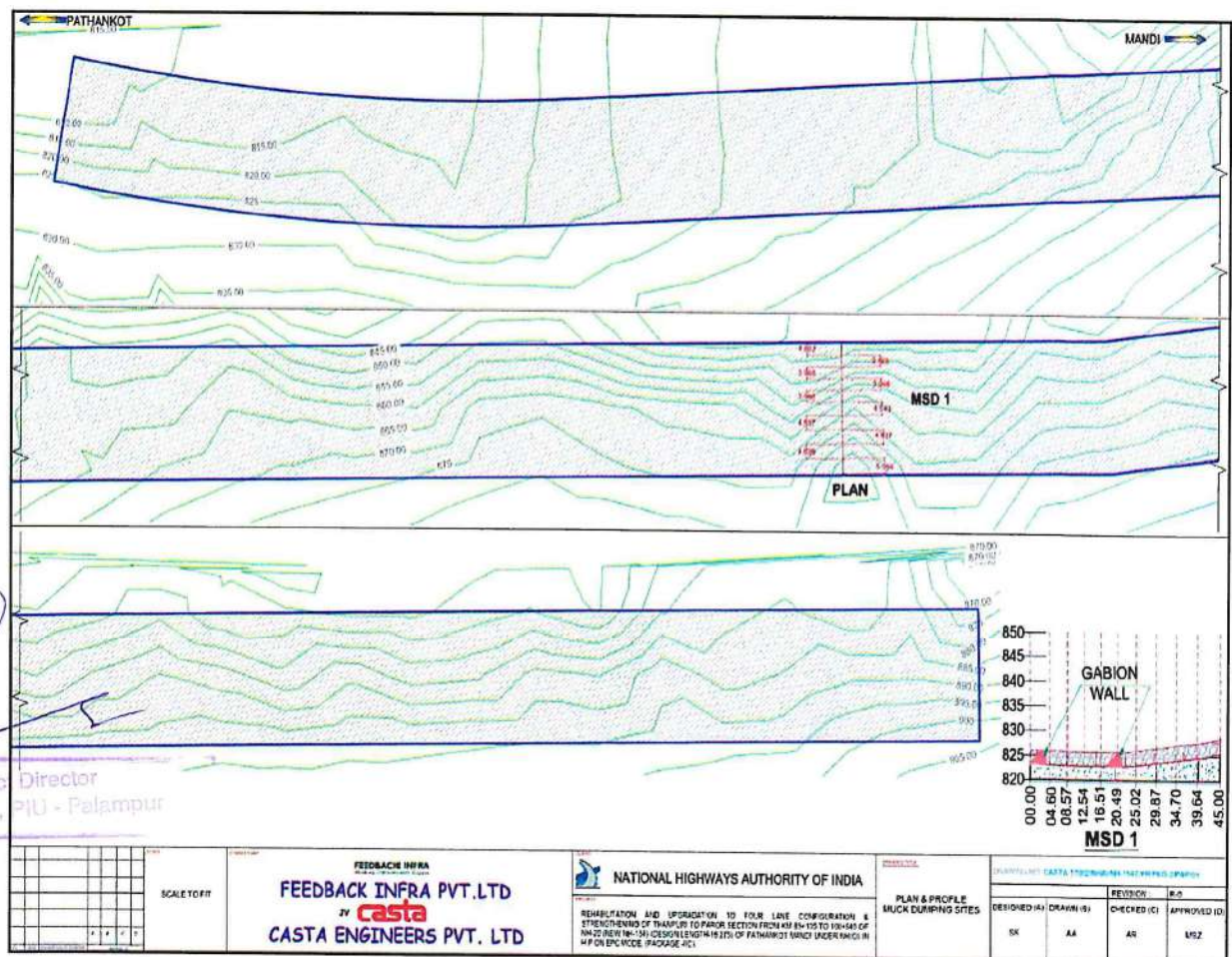


Figure: 1 MDS-1 Villages Lalesar & Ranoohn



4-Lane of Pathankot to Mandi section NH-20 (New NH-154) PKG-IIA (Km 51.00 to Km 72.00)

The muck holding capacity of the all muck disposal sites (including the already diverted/acquired plot) are detailed in Table 4 below and comparison of muck volume to be generated vis-à-vis capacity of the disposal sites are presented in info graphics in Figure 3 below.

Table: 4 Muck Holding Capacity of Disposal sites

S.No	Villages	Design Chainage (km)		Length (m)	Width (m)	Height (m)	Area (Sqm)	Capacity (Cu.m)
		From	To					
1	Lalesar & Ranoohn	84.927	86.277	1350	45	11.5	60750	698625
Total							60750	698625

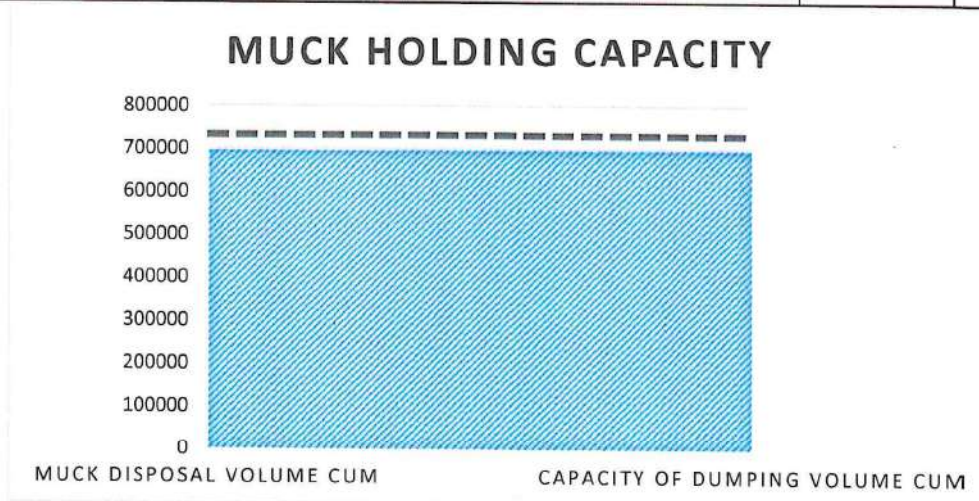


Figure: 3 Generate Muck Volume Vis -a-Vis's capacity of Disposal sites

It can be inferred from the Figure 3 above that capacity of the disposal sites fulfils the requirement of generated muck volume. Therefore, the proposed muck disposal sites with the suggested gabion wall height will suffice the requirement of dumping of excavated muck.

3. Environmental Impacts of Improper Muck disposal

The dumping of rock spoil can potentially be a cause for environmental problems and land degradation. It may cause landslides if not disposed properly and be an aesthetical damage to the natural landscape. Improper muck dumping without slope protection measures results in wash away into the channels/Khad/Streams causing siltation and blockage of natural channels. The trees and undergrowth vegetation of the dumping sites are also affected due to change in land use. Further, when stacked without adequate stabilisation measures, muck moves along with runoff and creates landslides.

4. Environmental Safeguard Measures for Muck Disposal Sites

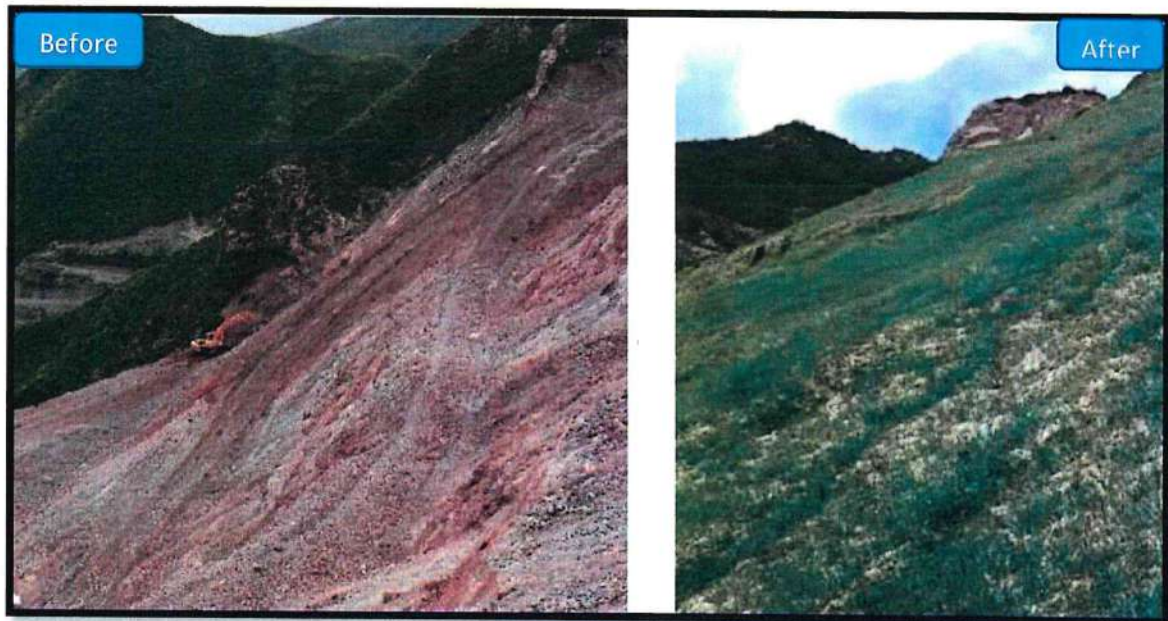
[Signature]
Project Director
NH-20

- Multiple gabion walls at different elevation levels are proposed to retain muck within the boundary of muck disposal sites. Gabion wall of height of 5 m including 0.75 m of buffer along with standard wire gauge galvanised wire (SWG GI) having 10 cm x 10 cm mesh and dimension 1.15 m x 1.15 m x 1.15 m in multi tiers with 0.5 m wide offset to be laid concurrently with the dumping of muck for side protection. Muck dumping plan of all two (02) proposed disposal sites along with elevation profile and desired Placement of gabion wall is provided in drawings at the end of this report.



Use of Geo- mats for Slope Stabilization

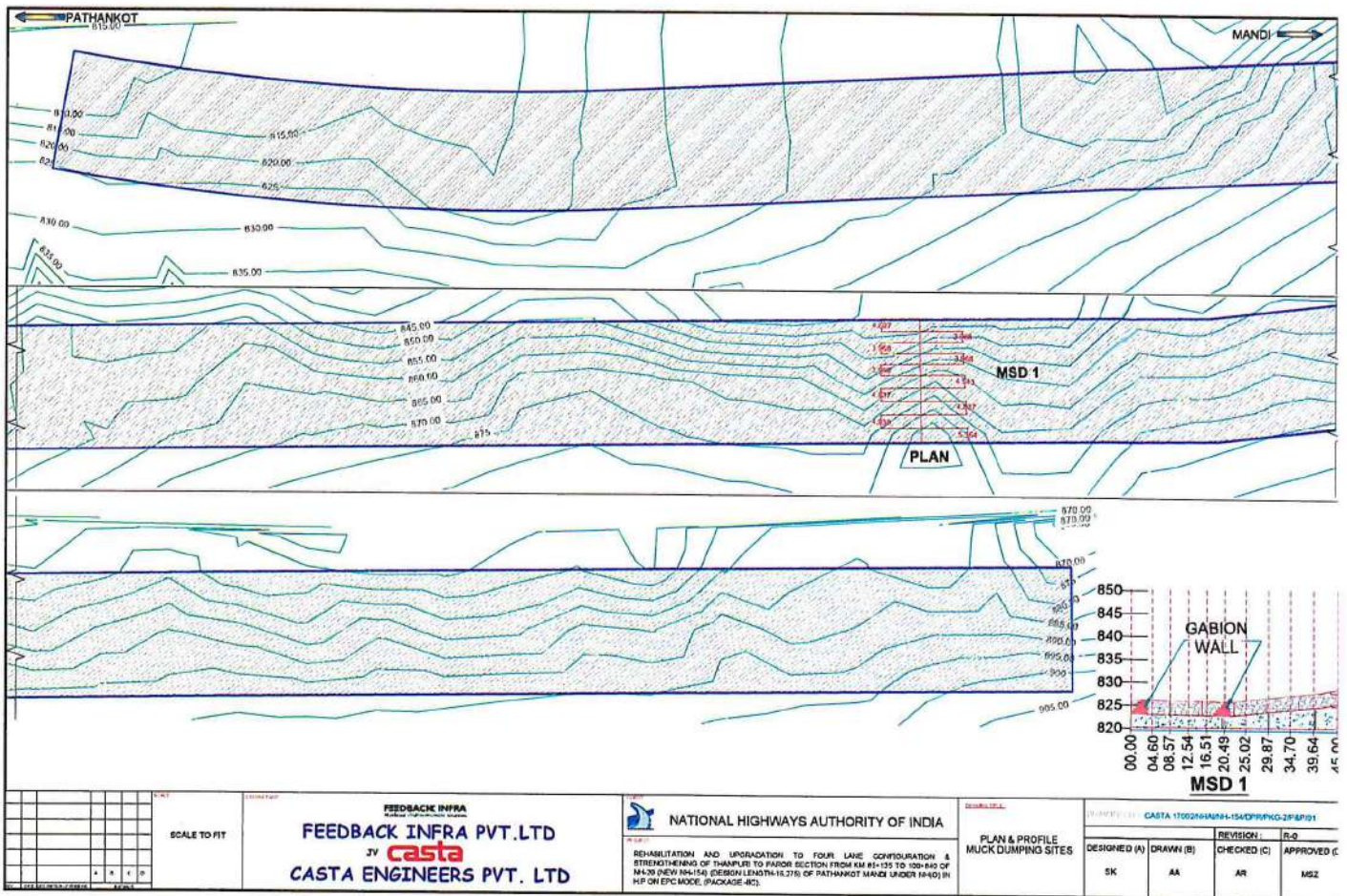
- After preparing the gabion wall at muck disposal site, the muck brought in dumpers shall be dumped and manually spread behind the wall in such a manner that rock mass is properly stacked behind the wall with minimum of voids.



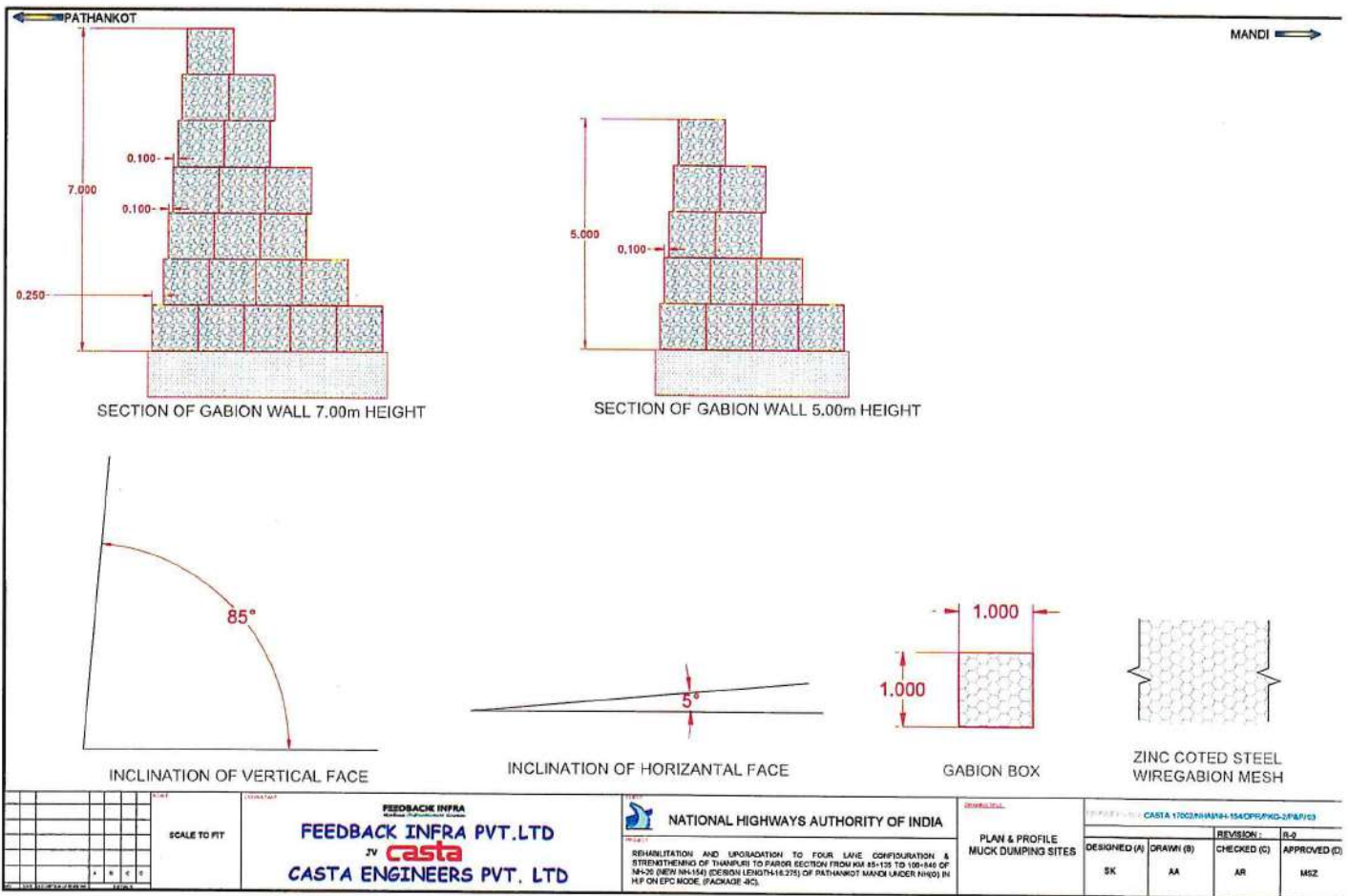
Rehabilitation of slopes using bio-engineering techniques

- Regular inspection by environmental expert of concessionaire and Independent engineer (IE) shall be made to ensure complete avoidance of spilling of muck outside the boundary, especially into channels/Khad/Streams.
- Bioengineering is the technique of utilizing vegetation in addressing geotechnical problems. Slope of muck disposal sites after completion of dumping to a particular site should be stabilized by stone pitching and turfing with geo mats (Cair Geotextile) & indigenous species of soil stabilizing legumes like Vetiver grasses. Natural geotextiles degrade quicker than man-made counterpart, but facilitate growth of vegetation quicker and better to due to this inherent characteristics. Hydro-seeder sprays are to be used for restoring soil fertility of the slope walls for quicker result, as necessary.


Project Director
NHAI, PIU - Palam



Project Director
NHAI, PIU - Palampur



[Signature]

Project Director
 NHAI, PIU - Patampur

Full Title of the Project: Diversion of 7.1203 Ha. Forest land for Rehabilitation and Upgradation to Four Lane configuration & Strengthening of Sihuni to Rajol (Package IIA) from Km 51.00 to Km 72.00 (Design Length 18.450 km) of NH-20 (New NH-154) of Pathankot-Mandi Section in the state of Himachal Pradesh.

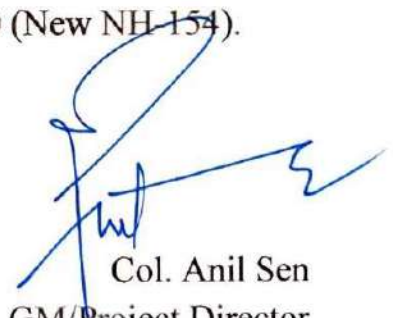
File No : FP/HP/ROAD/152261/2021

Date of Proposal : 15.07.2022

UNDERTAKING REGARDING MUCK DUMPING SITE


I, Col. Anil Sen GM/Project Director NHAI, PIU-Palampur (H.P) hereby undertake that no additional forest land will be requested for the muck dumping during Rehabilitation and Up-gradation to Four Lane Configuration & Strengthening of Sihuni to Rajol (Km.51/00 to 72/00) of NH-20 (New NH-154).





Col. Anil Sen
GM/Project Director
NHAI, PIU-Palampur (H.P)

Amneshu - 7


Four Laning of Sihuni to Takhniar section from km 51.00 to km 55.00 of NH-20 (New NH-154) in the state of Himachal Pradesh. Regarding			
List of 04 villages with Hadbast no & code No. CALA-cum SDM Jawali			
Sr. no	Village name	Hadbast No.	Code No.
1	Vorka	234	019801
2	Chichar	237	019001
3	Takhniar	236	019401
4	Bhaniari	238	018901


Competent Authority for
Land Acquisition (CALA)
cum SDO (C) Jawali,
Distt. Kangra (H.P.)


Project Director
NHAI, FIU - Palampur

List of 27 Villages with Hadvast no. & Code no. Sub Division Shahpur			
KM 55.00 TO 60.60 and KM 61.00 TO 74.00(Pathankot to Mandi Section)			
Sr. NO.	Village Name	Hadvast No.	Code No.
1	Paid	92	009001
2	Chatrunh	94	017401
3	Kholi	93	017201
4	Mohru	91	008901
5	Falgehar	95	009101
6	Sehwan	90	017301
7	Dadrol	87	008301
8	Uperla Bhanjar	89	008501
9	Dramman	83	008401
10	Shahpur	82	007401
11	Hara	81	007301
12	Chandroon	78	007601
13	Majhiar	75	012001
14	Pohara	127	011101
15	Prasel	126	014301
16	Bagru	128	016601
17	Rait	132	012501
18	Noshera	131	011201
19	Manjhgran	297	008001
20	Kutehar	298	015301
21	Har	296	016001
22	Upahu	295	015801
23	Kakroh	294	009201
24	Mahakali	293	009701
25	Behkari	291	010201
26	Thara	292	010301
27	Rajol	281	010501

Project Director
NHAI, PIU - Palampur

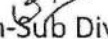

CALA CUM SDWI
Shahpur, Kangra (H.P.)

Statement Showing the Village Code and Hadbast No. of Sub- Division Bhattiyat
Distt. Chamba H.P.

Km 60.600 To Km 61.000 (Pathankot Mandi Saction)

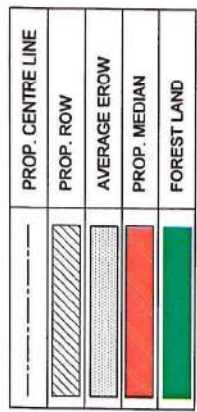
Sr No.	Name Of Villegè	Hadbast No	Code No.
1.	Hatli	345	009701

No 4840 dt 01-11-2022

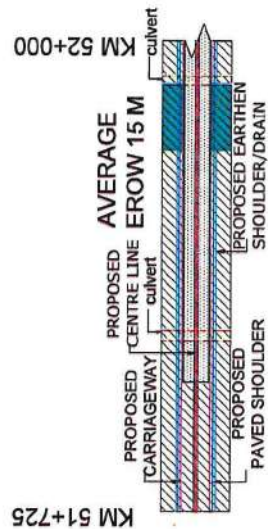

CALA-cum-Sub Divisional Officer
Bhattiyat at Chowari
Distt. Chamba H.P.
CALA-cum-Sub Divisional Magistrate
Bhattiyat at Chowari, Distt. Chamba.

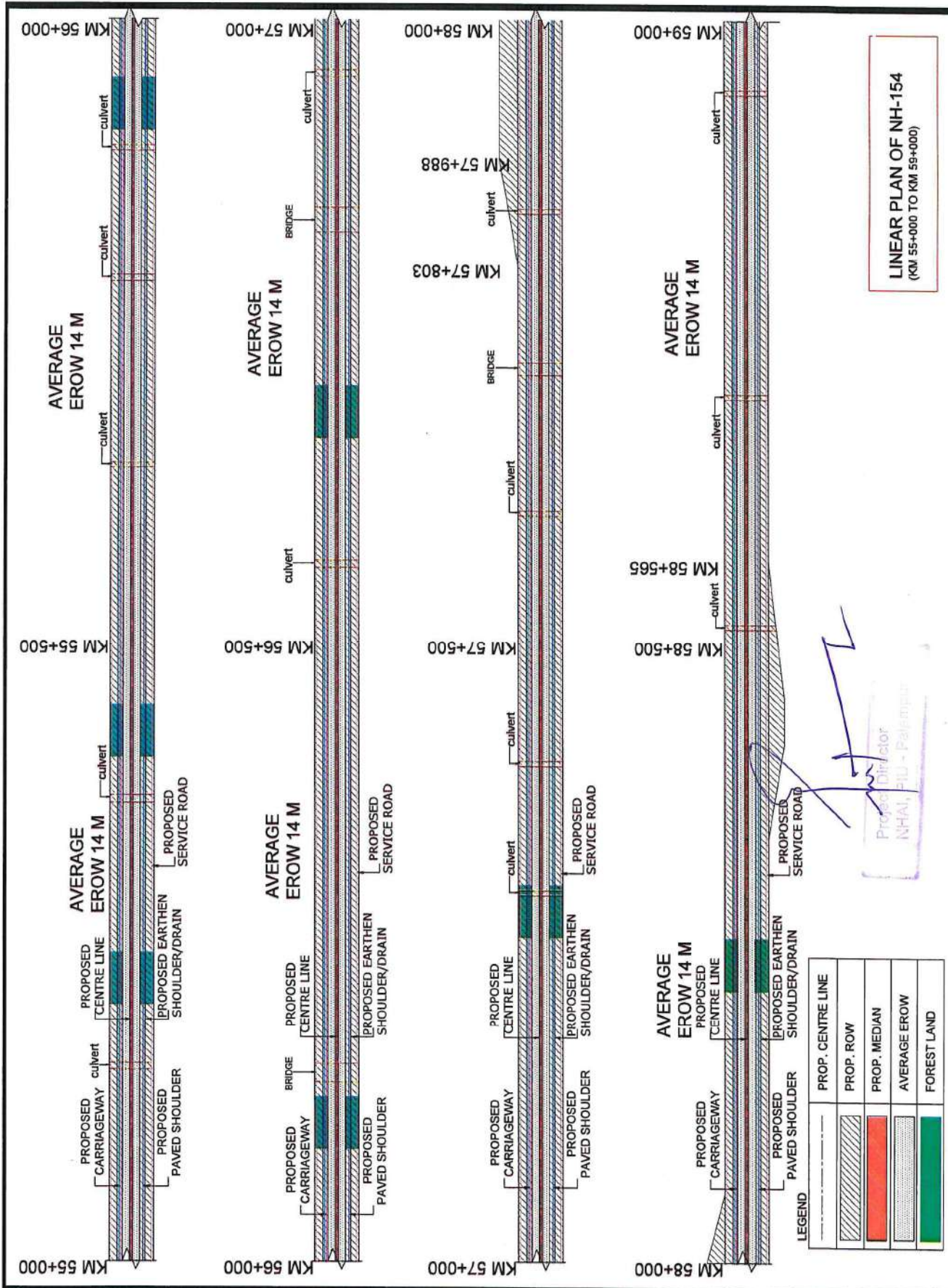

Project Director
NHAI, P.S. Pathankot

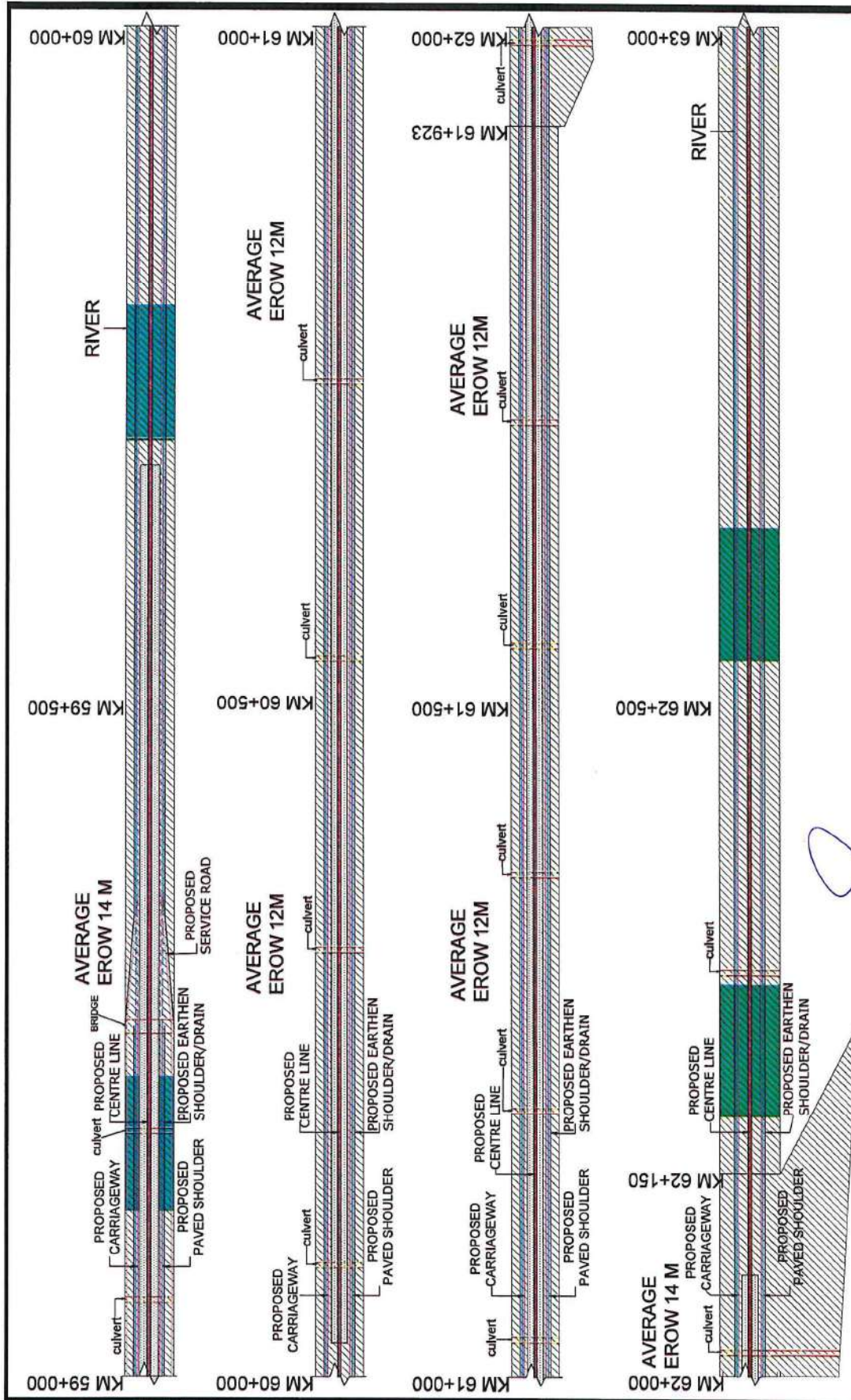
Prov. Director
NH4, P.O. - Palampore



Project Manager
NHAI, P. U. - Calicut





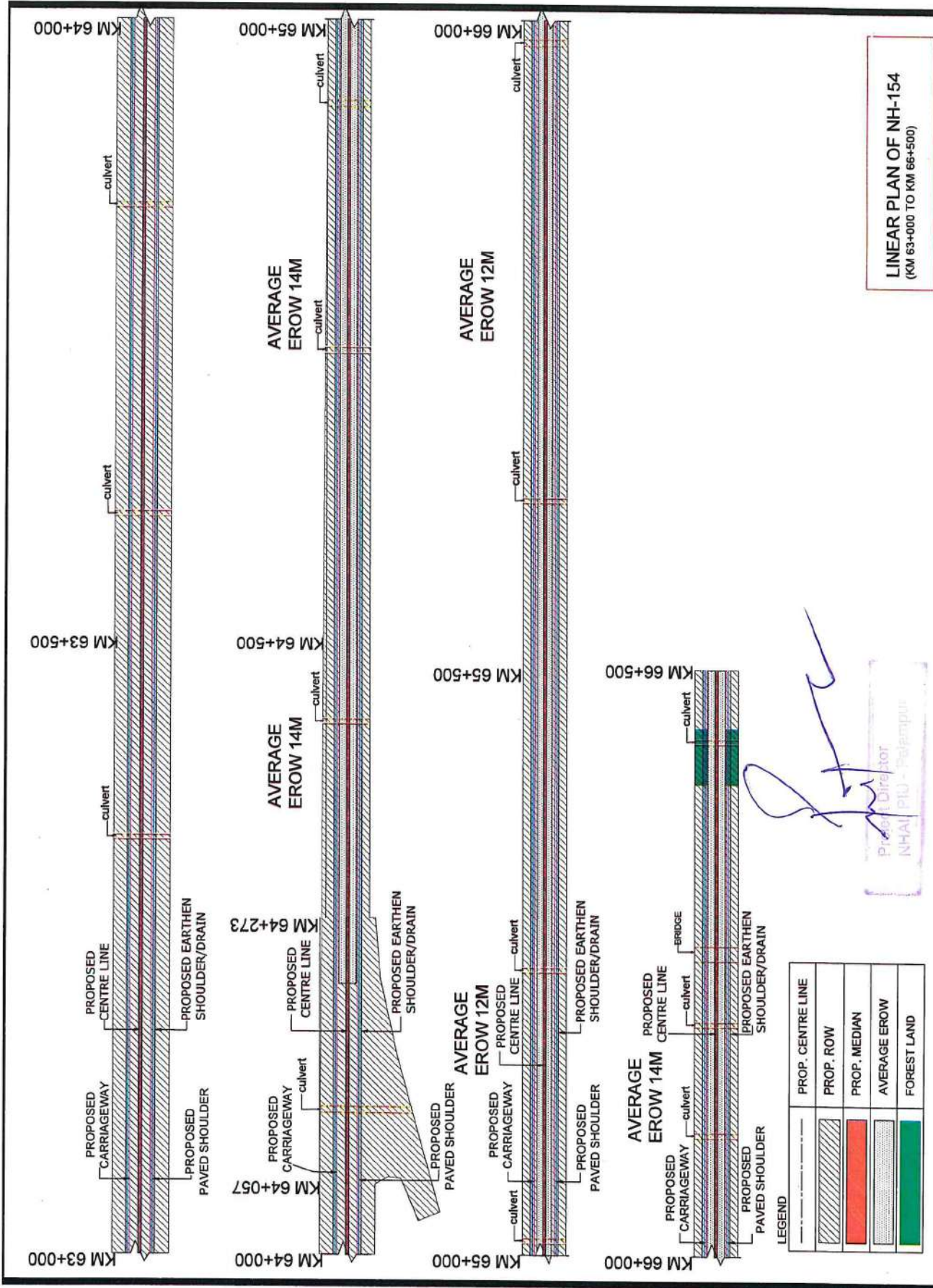


LEGEND

---	PROP. CENTRE LINE
	PROP. ROW
	PROP. MEDIAN
	AVERAGE EROW
	FOREST LAND

[Signature]
 Project Director
 NHAI, P.O. Palampur

LINEAR PLAN OF NH-154
 (KM 59+000 TO KM 63+000)



Title of the project: - Diversion of 7.1203 Ha. Forest land for Rehabilitation and Upgradation to Four Lane configuration & Strengthening of Sihuni to Rajol (Package IIA) from Km 51.00 to Km 72.00 (Design Length 18.450 km) of NH-20 (New NH-154) of Pathankot-Mandi Section in the state of Himachal Pradesh.

File No. FP/HP/ROAD/152261/2022

Date of proposal: 15.07.2022

DETAILS NOTE ON THE PROJECT

The project road earlier known as NH-20 which is starting from Pathankot to Nauni (279 km) is now re-named and known as NH-154, one of the oldest national highways in the state, This Project considered as the lifeline of 30 lakh residents of the northern region of Himachal. Our project section starts at Sihuni to Rajol (Package IIA) from Km 51.00 to Km 72.00 (Design Length 18.450 km) of NH-20 (New NH-154) of Pathankot-Mandi Section in the state of Himachal Pradesh.

LOCATION OF THE PROJECT:

The alignment pass through tehsil and district which are given below.

S. No.	Districts	Tehsils	Design Length (Km)
1	Kangra & Chamba	Nurpur, Shahpur & Shihunta	18.425

JUSTIFICATION FOR LOCATION THE PROJECT IN FOREST AREA.

The project starts Sihuni to Rajol (Package IIA) from Km 51.00 to Km 72.00 (Design Length 18.450 km) of NH-20 (New NH-154) of Pathankot-Mandi Section in the state of Himachal Pradesh. Forest Land of 7.1203 ha. has been proposed to be acquired considering the widening proposal of Project road from existing 2-lane to 4 lane with paved shoulder with geometrical improvements, realignment as per relevant design standards. In Rait town, dense habitation exist due to which bypass have been proposed from design chainage Km 61.900 to Km 64.300 (Total Length 2.400 Km). Since, Existing Right of Way (EROW) is restricted, thus additional right of way (ROW) has been acquired for 4-laning with Paved Shoulder on existing alignment. There is no other alternative alignment feasible for this project. Thus, resulting into involvement of forest land.



Col. Anil Sen
GM/Project Director
NHAI, PIU-Palampur (H.P)

Full Title of the Project: Diversion of 7.1203 Ha. Forest land for Rehabilitation and Upgradation to Four Lane configuration & Strengthening of Sihuni to Rajol (Package IIA) from Km 51.00 to Km 72.00 (Design Length 18.450 km) of NH-20 (New NH-154) of Pathankot-Mandi Section in the state of Himachal Pradesh.


File No. FP/HP/ROAD/152261/2021

Date of proposal: 15.07.2022

**UNDERTAKING REGARDING DEPOSITION OF COST OF SOIL
AND MOISTURE CONSERVATION PLAN**

I, Col. Anil Sen GM/Project Director NHAI, PIU-Palampur (H.P) hereby undertake that the cost of soil and moisture Conservation plan i.e. 0.5% of the project cost will be deposited towards the cost of implementation of Soil and Moisture conservation Plan in the CAMPA account prior to actual working on forest area as directed in para 1(b) of GoI letter No FC-11/432021-FC dated 07.06.2022.




Col. Anil Sen
GM/Project Director
NHAI, PIU-Palampur (H.P)

CERTIFICATE

As per verification submitted by Patwari हटली it is certified that Land comprising Khasra No 1252/541, 521, 513/1, 468/1, 509, 510, 515 of Mohal हटली ह.व. 345 Mouza हटली is the land in question does not fall under the category of "earlier forest land" and revenue entries have not been changed from earlier forest land to present category and that forest land entries have not been deleted/alterd. Land in question vested in favor of H.P. Govt. under Village common land vesting and utilization Act.1974. The said land in possession of HP PWD Department and also managed by HP PWD Department. The said land is not managed by Forest Department as per working plan. It is revealed that the land has been vested in the state under the provisions of H.P. Village Common Land (Vesting and Utilization) Act 1974. It was not recorded as Forest land in the Revenue record before settlement and has not been demarcated by Forest Department in consultation with revenue department in terms of clause 8 of the HP utilization of surplus are scheme 1974, also above mentioned land is not recorded as Forests in the record of revenue department, Forest settlement record, notification under Indian Forest act. There is no entry in the name of HP Forest department before and after the settlement of above mentioned land in State Government. Therefore, in the light of letter No. Rev B.A(4)8/2004-Loose dated 21.04.2006 issued by Financial Commissioner Cum Secretary (Revenue) HP and letter No Ft.-48-66/83 (FCA) dated 15.09.2010 issued by Pr. Chief Conservator of Forest, Himachal Pradesh, the land in question does not attract the provisions of applicability of FCA and the above said land is Non forest land and said land is in possession of HP PWD Department and transferred to HP PWD department by competent authority.

Station : पटवार हटली
Dated : 17/11/2022

Station : हटली
Dated : 17-11-2022

Station : CHOWARI
Dated : 17-11-2022

Patwari हटली
ग्रा. रा. क्षेत्र हटली
तहसील सिहुन्ता
जिला चम्बा (H.P.)
Tehsildar हटली
Tehsildar हटली
Sikunta, Distt. Chamba (H.P.)
Sub Divisional Officer (CC)
Bhattyar at Chowari.
District Chamba (H.P.)