



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)

NHAI PIU - Shimla, House No. 1, Rishikesh Sadan, Shanti Kutia, Chakkar Shimla-171005, H.P.
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11015/3/2022/Forest/S-D/PIU-SML/63

11th Apr., 2023

To,

**The Divisional Forest Officer,
Shimla Forest Division,
Himachal Pradesh.**

**The Divisional Forest Officer,
Shimla (Urban) Forest Division,
Himachal Pradesh.**

Sub: Diversion of 19.1788 ha of forest land in favour of NHAI for diversion of additional forest land requirement for four laning of NH-05 from Shakral Village to Dhalli Section (Shimla Bypass Package-II from Kms 146+300 to 156+560 and Shimla Connectivity from Kms 0+000 to 0+725 for Design length -10.985) in already approved FCA case of the entire Section from Kaithlighat to Dhalli, within the jurisdiction of Shimla and Shimla (MC) Forest Division, Distt. Shimla, Himachal Pradesh. (Online Proposal No. FP/HP/Road/154923/2022)

Ref: EDS raised by Integrated Regional Office vide Letter No. FC/HPC/06/181/2022 dated 03.04.2023

Sir,

Kindly refer to the observations raised by the Integrated Regional Office, Shimla vide their letter under reference for the subject forest proposal. The point-wise compliance to the observations is hereby submitted in the table below.

Sl. No	Observations of IRO	Compliance
1.	It has been observed from reply that 4.8613 ha unused area of already approved alignment (Proposal number FP/HP/Road/9295/2015) has been handed over to concerned DFO. However, such proposal of surrendering unused land due to change in Layout of already approved alignment is not received in IRO, Shimla so far. User Agency (NHAI) instead of submitting proposal for change in Layout and area revision in already approved case, has submitted a new proposal for diversion of land due to change in alignment. Therefore, State Government may provide comments in this regard. Further, revision in the area/Layout Plan etc. in already approved alignment in the proposal number FP/HP/Road/9295/2015 in which 40.3 ha forest land diversion has already been diverted is required to be carried out.	<p>DFO Shimla is requested to share the information of surrendering unused forest land of 4.8613 Ha. due to change in alignment of already approved alignment with IRO Shimla as early as possible.</p> <p>The matter of already approved 40.3 ha. of forest land of the earlier alignment and additional requirement of forest in the present case was discussed with DFO Shimla prior to initiation of new Forest Proposal. A new proposal for the both the packages were uploaded online, accordingly in year 2022.</p> <p>Further revision in the area in the already approved alignment in the proposal of 40.3 Ha. forest land already diverted is not required since it is already approved, however in case its</p>



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Sl. No	Observations of IRO	Compliance
		absolutely necessary separate proposal will be initiated and same may be delinked.
2.	Revised KML file has been uploaded; however, polygon of already approved alignment and non-forest part has been removed from KML file. Therefore, complete KML file with proposed alignment (Proposal number FP/HP/ROAD/154923/2022) and already approved alignment (Proposal number FP/HP/Road/9295/2015) whether in forest land or in non-forest land is required to be uploaded.	In the revised KML, only tunnel components were added and the forest polygons were revised to match the diversion area. However, KML file of already approved alignment as uploaded in Proposal number FP/HP/Road/9295/2015 is also uploaded with the proposed alignment as desired.
3.	In DSS analysis of revised KML file of diversion area, area calculated is 19.08 ha. However, proposed area is 19.1788 ha. Therefore, same may be reviewed and revised KML file with correct area figures may be uploaded again.	The difference in the proposed DA and calculated area is only 0.0988 ha and this mismatch usually occurs during digitization of the revenue records. Usually an error of $\pm 5\%$ occurs during digitization which is acceptable whereas here it is around -0.5%.
4.	Since NPV bill has been revised from Open category to Dense Forest category, therefore, vegetation density of proposed diversion area falling under Shimla Forest Division is also required to be revised in Part-II.	Pertains to DFO office.
5.	Chainage wise, Khasra number wise, component wise, forest and non-forest area wise information of proposed project including length, width and dimensions of all components in tabulated form was sought. However, khasra number wise detail of Road and Muck Dumping component is not provided.	Chainage wise, Khasra number wise details including length & width of forest area of road & muck dumping component is provided in Enclosure-1
6.	Clarification with supporting documents regarding variation in proposed width of RoW from 29.48 m to 142.0 meter was sought. In reply, excerpt from manual of Specifications and Standards for Four Laning of Highways is provided in which width of RoW for Highways is mentioned as 60m. It has also been mentioned that Authority would acquire the additional land required as per the Schedule B. Schedule B is not provided. Therefore, proper justification wide range of PROW with supporting documents is required to be submitted.	In continuation to earlier reply submitted, please find enclosed herewith schedule-B clause 2.4 indicating Chainage wise PROW details attached as Enclosure-2
7.	In reply to query no. 7, enumeration list of trees standing in Private land has been provided. However as desired, Khasra number wise enumeration list of proposed	Pertains to DFO office.



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Sl. No	Observations of IRO	Compliance
	diversion area falling in Shimla Forest Division is not uploaded.	
8.	In reply to query no. 12, justification of dumping sites in forest land has been provided. However, as desired muck dumping site wise enumeration list of trees in forest land is not provided.	Muck dumping site wise enumeration list of trees in forest land is provided in Enclosure-3
9.	Query no. 15 is not complied satisfactorily. SIR of Shimla Forest Division (Urban) is not uploaded.	Pertains to DFO Shimla (Urban)
10.	Comments of CWLW have been provided. However, mitigation measures are not provided.	Pertains to DFO Wildlife.
11.	The status of proposed CA site UPF Banardhar with supporting documents is not provided, whether this site is managed by forest department and ownership of this site is vested with Forest Department or not.	Pertains to DFO office.
12.	02 CA sites (Patch no. 3-DPF Narenty C19;5ha and Patch no. 5-DPF Narenty C17a;5ha) has been revised with 04 ha UPF Parech and 05 ha DPF Bargal, however Toposheet, Geo- referenced map, Land Suitability Certificate and CA scheme of revised CA lands have not provided.	Pertains to DFO office.
13.	The proposed CA area is 37.3576. However, required area for CA is 38.36 ha. Therefore, balance CA area along with all required documents is required to be uploaded.	Pertains to DFO office.

3. In view of above, it is requested to take necessary action so that stage-I approval for diversion of forest land measuring 19.1788 hectare could be obtained at the earliest & encumbrance free land could be provided to the Contractor for starting the four laning work in the public interest.

Yours sincerely,

(R.A.Khural)

GM (Tech.)-cum-Project Director
NHAI, PIU-Shimla

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

Chainage wise, Khasra number wise details including length & width of forest area of road & muck dumping component
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	Length	Width	Area (in Sqm)	Area (in Hectares)	Forest Plot at Chainage
1	Road	Shimla	Shimla Rural	Chamyana	1008/3/2/1	Government	Charagah Drakhtan	74.50	9.73	725	0.0725	152+140
2	Road	Shimla	Shimla Rural	Chamyana	1008/3/2/2	Government	Charagah Drakhtan	386.00	18.89	7290	0.7290	150+900
3	Road	Shimla	Shimla Rural	Chamyana	1012/1	Government	Ger Mumkin Raasta	73.70	4.82	355	0.0355	152+140
4	Road	Shimla	Shimla Rural	Chamyana	1014/1	Government	Charagah Drakhtan	60.00	7.92	475	0.0475	152+135
5	Road	Shimla	Shimla Rural	Chamyana	1015/1	Government	Ger Mumkin Rasta	10.00	1.60	16	0.0016	152+115
6	Road	Shimla	Shimla Rural	Chamyana			Total				0.8861	
7	Road	Shimla	Shimla Rural	Jungal Mehfuja Mehduda Ganoti	17/1	Government	Jangal Mehfuja Mehduda	196.00	10.27	2012	0.2012	0+100
8	Road	Shimla	Shimla Rural	Jungal Mehfuja Mehduda Ganoti	17/2	Government	Jangal Mehfuja Mehduda	457.20	8.92	4077	0.4077	0+500
9	Road	Shimla	Shimla Rural	Jungal Mehfuja Mehduda Ganoti	17/3	Government	Jangal Mehfuja Mehduda	175.00	10.17	1780	0.1780	0+800
10	Road	Shimla	Shimla Rural	Jungal Mehfuja Mehduda Ganoti			Total				0.7869	
11	Road	Shimla	Shimla Rural	Jungal Mehfuja Mehduda Mashobra	150/2/1	Government	Jungle Mehfuja Mehduda	132.00	79.42	10484	1.0484	156+450
12	Road	Shimla	Shimla Rural	Jungal Mehfuja Mehduda Mashobra	150/2/2	Government	Jungle Mehfuja Mehduda	137.50	33.83	4652	0.4652	156+050
13	Road	Shimla	Shimla Rural	Jungal Mehfuja Mehduda Mashobra			Total				1.5136	
14	Road	Shimla	Shimla Rural	Kamali	12/1	Private	Van	46.00	3.28	151	0.0151	0+335
15	Road	Shimla	Shimla Rural	Kamali			Total				0.0151	
16	Road	Shimla	Shimla Rural	LambiDhar	100/1	Government	Gair Mumkin Rasta	61.00	2.95	180	0.0180	155+780
17	Road	Shimla	Shimla Rural	LambiDhar	140/1	Government	Gair Mumkin Rasta	7.50	16.00	120	0.0120	155+730

महाप्रबन्धक (तकनीकी) / GM(T.)
एवं परियोजना निदेशक / & Project Director
भारत रा. प्र. / N.H.A.I.

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

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18	Road	Shimla	Shimla Rural	LambiDhar	168/1	Government	Charagah Drakhtan	29.00	14.21	412	0.0412	155+520
19	Road	Shimla	Shimla Rural	LambiDhar	169/1	Government	Charagah Drakhtan	22.00	64.55	1420	0.1420	155+505
20	Road	Shimla	Shimla Rural	LambiDhar	169/3	Government	Charagah Drakhtan	87.00	13.85	1205	0.1205	155+500
21	Road	Shimla	Shimla Rural	LambiDhar	169/4	Government	Charagah Drakhtan	5.00	29.80	149	0.0149	155+520
22	Road	Shimla	Shimla Rural	LambiDhar	169/5	Government	Charagah Drakhtan	41.00	12.85	527	0.0527	155+500
23	Road	Shimla	Shimla Rural	LambiDhar	19/1	Government	Gair Mumkin Rasta	15.00	0.93	14	0.0014	155+500
24	Road	Shimla	Shimla Rural	LambiDhar	20/1	Government	Charagah Drakhtan	22.00	7.27	160	0.0160	155+530
25	Road	Shimla	Shimla Rural	LambiDhar	44/1	Government	Charagah Drakhtan	3.30	9.70	32	0.0032	155+780
26	Road	Shimla	Shimla Rural	LambiDhar	45/2	Government	Charagah Bila Drakhtan	5.50	3.45	19	0.0019	155+780
27	Road	Shimla	Shimla Rural	LambiDhar	46	Government	Charagah Bila Drakhtan	3.50	16.57	58	0.0058	155+783
28	Road	Shimla	Shimla Rural	LambiDhar	48/1	Government	Charagah Drakhtan	4.80	21.04	101	0.0101	155+788
29	Road	Shimla	Shimla Rural	LambiDhar	78	Government	Gair Mumkin Rasta	80.00	2.01	161	0.0161	155+940
30	Road	Shimla	Shimla Rural	LambiDhar			Total				0.4558	
31	Road	Shimla	Shimla Rural	Malyana-I	611/2	Government	Charagah Bila Drakhtan	45.00	52.44	2360	0.2360	147+420
32	Road	Shimla	Shimla Rural	Malyana-I			Total				0.2360	
33	Road	Shimla	Shimla Rural	Mevag	291/3/1	Government	Charagah Drakhtan	93.00	58.25	5417	0.5417	152+180
34	Road	Shimla	Shimla Rural	Mevag	291/3/2	Government	Charagah Drakhtan	100.00	24.22	2422	0.2422	152+200
35	Road	Shimla	Shimla Rural	Mevag	620/3/1	Government	Charagah Drakhtan	54.00	10.07	544	0.0544	152+125
36	Road	Shimla	Shimla Rural	Mevag			Total				0.8383	
37	Road	Shimla	Shimla Rural	Shehnan	109/3/1	Private	Van	102.00	9.46	965	0.0965	148+355
38	Road	Shimla	Shimla Rural	Shehnan	129/1	Private	Van	38.00	16.79	638	0.0638	148+265
39	Road	Shimla	Shimla Rural	Shehnan	130/1	Private	Van	86.00	20.27	1743	0.1743	148+260
40	Road	Shimla	Shimla Rural	Shehnan	132/1	Private	Van	106.00	15.97	1693	0.1693	148+165
41	Road	Shimla	Shimla Rural	Shehnan	134/1	Private	Van	70.00	57.91	4054	0.4054	147+965
42	Road	Shimla	Shimla Rural	Shehnan	135/1	Private	Van	233.00	38.35	8935	0.8935	148+100
43	Road	Shimla	Shimla Rural	Shehnan	142/1/1	Government	Charagah Drakhtan	47.00	15.72	739	0.0739	147+883
44	Road	Shimla	Shimla Rural	Shehnan	306/1/1	Government	Charagah Bila Drakhtan	44.00	15.00	660	0.0660	149+000
45	Road	Shimla	Shimla Rural	Shehnan	376/1	Government	Gair Mumkin Nala	8.00	4.00	32	0.0032	149+215
46	Road	Shimla	Shimla Rural	Shehnan	132/2	Private	Van	106.00	35.10	3721	0.3721	148+165
47	Road	Shimla	Shimla Rural	Shehnan	133/2	Private	Van	96.00	66.19	6354	0.6354	148+060
48	Road	Shimla	Shimla Rural	Shehnan	130/2	Private	Van	75.00	65.20	4890	0.4890	148+260

महाप्रबंधक (सकनीकी) / G.M.(T.)
 एवं परियोजना निदेशक / & Project Director
 भारता.प्रा. / N.H.A.I.
 प्लॉट - जिला / डिप्टी / P.W. Shimla (H.D.)

Enclosure-1

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

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49	Road	Shimla	Shimla Rural	Shehnan	111/2	Private	Van	102.00	40.75	4157	0.4157	148+480
50	Road	Shimla	Shimla Rural	Shehnan	108/2	Private	Van	32.00	66.00	2112	0.2112	148+330
51	Road	Shimla	Shimla Rural	Shehnan	110/2	Private	Van	39.00	10.26	400	0.0400	148+430
52	Road	Shimla	Shimla Rural	Shehnan	109/2	Private	Van	117.00	39.73	4648	0.4648	148+400
53	Road	Shimla	Shimla Rural	Shehnan	134/2	Private	Van	70.00	57.14	4000	0.4000	147+980
54	Road	Shimla	Shimla Rural	Shehnan	131/2	Private	Van	98.00	15.70	1539	0.1539	148+180
55	Road	Shimla	Shimla Rural	Shehnan	121/2	Private	Van	30.00	23.60	708	0.0708	148+480
56	Road	Shimla	Shimla Rural	Shehnan			Total				5.1988	
57	Road	Shimla	Shimla Rural	Shakral	78/1	Government	Charagah Drakhtan	38.00	3.32	126	0.0126	0+680
58	Road	Shimla	Shimla Rural	Shakral			Total				0.0126	
59	Road	Shimla	Shimla Rural	UP MahalTilla	106/1	Government	Gair Mumkin Nala	8.00	67.25	538	0.0538	155+163
60	Road	Shimla	Shimla Rural	UP MahalTilla	109/1	Government	Gair Mumkin Nala	82.00	5.96	489	0.0489	155+200
61	Road	Shimla	Shimla Rural	UP MahalTilla	111/1	Government	Charagah Drakhtan	151.00	29.30	4425	0.4425	155+300
62	Road	Shimla	Shimla Rural	UP MahalTilla			Total				0.5452	
63	D3	Shimla	Shimla Rural	Chamyana	1008/1/2/1	Government	Charagah Drakhtan	233.00	34.68	8080	0.8080	150+800
64	D3	Shimla	Shimla Rural	Chamyana			Total				0.8080	
65	D9	Shimla	Shimla Rural	LambiDhar	100/2	Government	Ger Mumkin Rasta	2.50	22.40	56	0.0056	155+800
66	D9	Shimla	Shimla Rural	LambiDhar	40/1	Government	Gair Mumkin Nala	2.00	42.00	84	0.0084	155+780
67	D9	Shimla	Shimla Rural	LambiDhar	44/2	Government	Charagah Drakhtan	2.30	17.39	40	0.0040	155+782
68	D9	Shimla	Shimla Rural	LambiDhar	45/1	Government	Charagah Bila Drakhtan	2.00	8.00	16	0.0016	155+783
69	D9	Shimla	Shimla Rural	LambiDhar	48/2	Government	Charagah Drakhtan	12.00	51.33	616	0.0616	155+783
70	D9	Shimla	Shimla Rural	LambiDhar			Total				0.0812	
71	D1	Shimla	Shimla Rural	Malyana	611/1	Government	Charagah Bila Drakhtan	25.00	59.16	1479	0.1479	147+405
72	D1	Shimla	Shimla Rural	Malyana	647/1	Government	Gair Mumkin Nala	105.00	6.97	732	0.0732	147+420
73	D1	Shimla	Shimla Rural	Malyana	719/663/1/1	Government	Charagah Bila Drakhtan	266.00	39.18	10422	1.0422	147+500

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

Enclosure-1

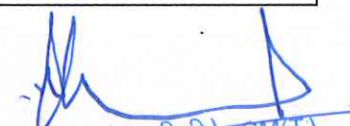
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74	D1	Shimla	Shimla Rural	Malyana			Total				1.2633	
75	D5	Shimla	Shimla Rural	Mevag	516/1	Government	Ghasni	14.00	8.29	116	0.0116	151+600
76	D5	Shimla	Shimla Rural	Mevag	615/1	Government	Charagah Drakhtan	74.00	49.62	3672	0.3672	151+600
77	D6	Shimla	Shimla Rural	Mevag	620/1/1	Government	Charagah Drakhtan	224.00	48.98	10972	1.0972	151+890
78	D5	Shimla	Shimla Rural	Mevag	632/3/1	Government	Jangal Dehat	134.00	52.82	7078	0.7078	151+700
79		Shimla	Shimla Rural	Mevag			Total				2.1838	
80	D2	Shimla	Shimla Rural	Shehnan	108/1	Private	Van	40.00	20.28	811	0.0811	148+330
81	D2	Shimla	Shimla Rural	Shehnan	133/1	Private	Van	91.00	21.65	1970	0.1970	148+080
82	D2	Shimla	Shimla Rural	Shehnan			Total				0.2781	
83	D4	Shimla	Shimla Rural	Shurala (371)	505/3/1	Government	Charagah Drakhtan	173.00	177.51	30710	3.0710	151+400
84	D4	Shimla	Shimla Rural	Shurala (371)			Total				3.0710	
85	D8	Shimla	Shimla Rural	UP MahalTilla	2/1	Government	Gair Mumkin Ghasni Darkhtan	20.00	73.10	1462	0.1462	155+240
86	D8	Shimla	Shimla Rural	UP MahalTilla	32/1	Government	Gair Mumkin Ghasni Darkhtan	134.00	52.96	7097	0.7097	155+150
87	D8	Shimla	Shimla Rural	UP MahalTilla			Total				0.8559	
88	T-3	Shimla	Shimla Rural	Mevag	16	Govt.	G.M. Rasta	65.00	12.00	780	0.0780	152+580
89		Shimla	Shimla Rural	Mevag			Total				0.0780	
90	T-3	Shimla	Shimla Rural	Chhakdial	1062/1	Govt.	Charagh Bila Drakhtan	70.00	7.64	535	0.0535	152+850
91		Shimla	Shimla Rural	Chhakdial			Total				0.0535	
92	T-3	Shimla	Shimla Rural	Chamyana	195/1	Govt.	G.M. Rasta	16.00	6.25	100	0.0100	152+835
93		Shimla	Shimla Rural	Chamyana			Total				0.0100	
							Grand Total			191712	19.1712	


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

Enclosure-1


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

**Chainage wise, Khasra number wise details including length & width of forest area of road & muck dumping component
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	Length	Width	Area (in Sqm)	Area (in Hectares)	Forest Plot at Chainage
1	Road	Shimla	Shimla (urban)	Up MahalChalaunti	59/1	Government	Charagah Bila Drakhtan	15.00	5.07	76.00	0.0076	0+600
							Grand Total				0.0076	


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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 – 10.985 Km) in the state of Himachal Pradesh on HAM

Annex – I
(Schedule-B)
Description of Four - Laning

- 1 Four laning of NH-5 from Shakral Village to Dhalli section (Shimla Bypass Package II from Km 146+300 to 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 basis.

(i) Widening of the Existing Highway

Development of the Project Highway shall include design and construction of the Project Highway as described in this Schedule-B and in Schedule-C. All drawings including alignment plans & Profile drawings, traffic signage drawings, utility plan and drainage drawings shall be deemed to be part of this Schedule B.

(ii) Width of Carriageway

- a) Four Laning with paved shoulder shall be undertaken. The paved carriageway width shall be in accordance with the typical cross sections as per schedule given in Appendix B-I. The paved carriage way shall be 18.0m wide inclusive of 7.0m carriageway, paved shoulder 1.5m and 0.5m of shyness each on both sides with median of New Jersey crash barrier. (2x7m MCW + 2x1.5m Paved Shoulder + 2x0.5m shyness =18.0 m).

For Tunnels, the width of the carriageway shall be as per typical cross section given in Appendix B-I of Schedule B.

- b) Provided that in the built-up areas the width of the carriageway shall be as specified in the following table

S. No.	Location of Section	Design Chainage		Width
		From (Ch.)	To (Ch.)	(In meters)
Nil				

- c) The entire cross-sectional elements shall be accommodated in the available/proposed ROW. If required, suitable retaining structures shall be provided to accommodate the highway cross section within the available/ proposed ROW and the same shall not constitute a Change of Scope, save and except any variations in the length arising out of a Change of Scope expressly undertaken in accordance with the provisions of **Article 16** of the HAM Concession Agreement.

2. Geometric Design and General Features

2.1 General

Geometric design and general features of the Project Highway shall be in accordance with section 2 of the Manual.

2.2 Design Speed

The design speed shall be 40kmph/50kmph for steep terrain.

2.3 Improvement of the existing road geometrics

- 2.3.1 In the following sections, where improvement of the existing road geometrics to the prescribed standards is not possible, the existing road geometrics shall be improved to the extent possible within the given right of way and proper road signs and safety measures shall be provided:

S. No	Stretch		Type of deficiency	Remarks
	From	To		
	Nil			



2.3.2 Details of Proposed Curve Improvements

S. No.	Design Chainage		Side	Length (m)
	From (Ch.)	To (Ch.)		
Nil				

2.3.3 Details of proposed Bypasses and Realignments

(a) Bypasses

Bypass	From (Km)	To (Km)	Length (km)
Shimla Bypass	146+300	156+560	10.260
Shimla Connectivity	0+000	0+725	0.725

(b) Realignments

S. No.	Name of Realignment	Realignment location w.r.t. project alignment	Take off Design Chainage (Ch.)	Merging Design Chainage (Ch.)	Length (Km)
Nil					

2.4 Right of Way

Proposed Right of Way shall be as following:

S. No.	Stretches (Km)		Length (km)	Proposed ROW (m)
	From	To		
I) Full Right of Way (Full width)				
1	146+300	147+000	0.7	From 39.60 to 84.60
2	147+000	148+000	1.0	From 37.60 to 100.00
3	148+000	149+000	1.0	From 39.06 to 69.60
4	149+000	150+000	1.0	From 33.90 to 81.01
5	150+000	151+000	1.0	From 29.40 to 94.50
6	151+000	152+200	1.2	From 38.90 to 95.50
7	155+000	156+560	1.56	From 39.50 to 142.00
8	0+000	0+725	0.725	From 35.20 to 74.50

For junction improvement, dumping sites and access roads additional land is included in PROW.

2.5 Type of shoulders

- a) In built-up section, footpaths are to be provided in the following stretches and as specified in Schedule-D.


S. No.	Design Chainage		Paver Block Flooring/footpaths (m)	Reference to cross section
	From (Ch.)	To (Ch.)		
Nil				



Species-wise local/scientific names and girth-wise enumeration of trees standing in forest land of Muck Dumping sites of Shimla
Bypass Pkg II

S.No.	Kh. No./ Mohal	Species	Botanical Name	(0-30) cm	(31-60)cm	(61-90) cm	Total
1	719/663/1/1 Malyana Ist (Dumping) U-190 Shanani	Chil G/S	<i>Pinus roxbergii</i>	32	9	0	
		Populus G/S	<i>Populus ciliata</i>	9	5	1	
		Kainth G/S	<i>Pyrus pashia</i>	8	0	0	
		Paja G/S	<i>Prunus cerasoides</i>	1	0	0	
		Fegda G/S	<i>Ficus palmata</i>	5	0	0	
		Akhrot G/S	<i>Juglans regia</i>	9	0	0	
		Chui G/S	<i>Albizia julibressin</i>	4	0	0	
		Total		68	14	1	83
2	647/1 Malyana Ist (Dumping)	Populus G/S	<i>Populus ciliata</i>	1	7	2	
		Populus D/S	<i>Populus ciliata</i>	1	1	1	
		Willow G/S	<i>Salix alba</i>	15	1	0	
		Fegda G/S	<i>Ficus palmata</i>	1	0	0	
		Dudhla G/S	<i>Sapium sebiferum</i>	1	0	0	
		Paja G/S	<i>Prunus cerasoides</i>	1	0	0	
		Akhrot G/S	<i>Juglans regia</i>	1	0	0	
		Total		21	9	3	33
3	611/1 Malyana Ist (Dumping)	Deodar G/S	<i>Cedrus deodara</i>	2	0	0	
		Dudhla G/S	<i>Sapium sebiferum</i>	1	0	0	
		Fegda G/S	<i>Ficus palmata</i>	3	0	0	
		Kainth G/S	<i>Pyrus pashia</i>	2	0	0	
		Khira G/S	<i>Celtis australis</i>	1	0	0	
		Paja G/S	<i>Prunus cerasoides</i>	2	0	0	
		Paja G/S	<i>Prunus cerasoides</i>	1	0	0	
		Chui G/S	<i>Albizia julibressin</i>	7	0	0	
		Kakar G/S	<i>Pistacia inteaerrima</i>	4	0	0	
		Total		19	0	0	19
4	1008/1/2/1 Chamiyana (Dumping) U-189 Touru	Deodar G/S	<i>Cedrus deodara</i>	104	0	0	
		Kail G/S	<i>Pinus wallichina</i>	40	2	0	
		Kail D/S	<i>Pinus wallichina</i>	1	0	0	
		Chil G/S	<i>Pinus roxbergii</i>	239	7	0	
		Chil D/S	<i>Pinus roxbergii</i>	1	0	0	
		Ban G/S	<i>Quercus leucotrichophora</i>	14	0	0	
		Kakar G/S	<i>Pistacia inteaerrima</i>	1	0	0	
		Robinia G/S	<i>Robinia pseudoacacia</i>	16	0	0	
		Paja G/S	<i>Prunus cerasoides</i>	4	0	0	
		Total		420	9	0	429
5	505/3/1 Chamiyana (Dumping)	Deodar G/S	<i>Cedrus deodara</i>	101	5	0	
		Chil G/S	<i>Pinus roxbergii</i>	155	9	0	
		Chil D/S	<i>Pinus roxbergii</i>	1	0	0	
		Kakar G/S	<i>Pistacia inteaerrima</i>	4	0	0	
		Dudhla G/S	<i>Sapium sebiferum</i>	2	0	0	
		Kainth G/S	<i>Pyrus pashia</i>	6	0	0	
		Khira G/S	<i>Cedrus deodara</i>	11	0	0	
		Glaju G/S	<i>Rhamnus spp.</i>	13	0	0	
		Daru G/S	<i>Punica granatum</i>	27	0	0	
		Populus G/S	<i>Populus ciliata</i>	10	0	0	
		Acacia G/S	<i>Acacia mollissima</i>	6	0	0	
		Paja G/S	<i>Prunus cerasoides</i>	13	0	0	
		Total		349	14	0	363
6	615/1 Mehog (Dumping)	Deodar G/S	<i>Cedrus deodara</i>	7	0	0	
		Chil G/S	<i>Pinus roxbergii</i>	13	1	0	
		Paja G/S	<i>Prunus cerasoides</i>	2	0	0	
		Willow G/S	<i>Salix alba</i>	3	0	0	
		Total		25	1	0	26
7	632/3/1 Mehog (Dumping)	Deodar G/S	<i>Cedrus deodara</i>	35	5	0	
		Kail G/S	<i>Pinus wallichina</i>	2	0	0	
		Chil G/S	<i>Pinus roxbergii</i>	31	0	0	
		Khira G/S	<i>Cedrus deodara</i>	4	0	0	
		Kakar G/S	<i>Pistacia inteaerrima</i>	1	0	0	
		Kainth G/S	<i>Pyrus pashia</i>	2	0	0	
		Paja G/S	<i>Prunus cerasoides</i>	2	0	0	
		Total		77	5	0	82
8	620/1/1 Mehog (Dumping)	Deodar G/S	<i>Cedrus deodara</i>	25	7	0	
		Chil G/S	<i>Pinus roxbergii</i>	137	0	0	
		Paja G/S	<i>Prunus cerasoides</i>	4	0	0	
		Saru G/S	<i>Cupressus torulosa</i>	1	0	0	
		Total		167	7	0	174

S.No.	Kh. No./ Mohal	Species	Botanical Name	(0-30) cm	(31-60)cm	(61-90) cm	Total
9	32/1 Tilla (Dumping) U-174 Badfer	Deodar G/S	<i>Cedrus deodara</i>	2	1	0	
		Kail G/S	<i>Pinus wallichina</i>	161	45	4	
		Chil G/S	<i>Pinus roxbergii</i>	3	1	0	
		Ban G/S	<i>Quercus leucotrichophora</i>	6	0	0	
		Kakar G/S	<i>Pistacia inteaerrima</i>	116	0	1	
		Paja G/S	<i>Prunus cerasoides</i>	4	0	0	
		Poplar G/S	<i>Populus cilitata</i>	17	1	0	
		Dudhla G/S	<i>Sapium sebiferum</i>	7	0	0	
		Thumba G/S	<i>Cornus capitata</i>	9	0	0	
		Kimu G/S	<i>Morus alba</i>	4	0	0	
		Total		329	48	5	382
10	2/1 Tilla (Dumping)	Kail G/S	<i>Pinus wallichina</i>	5	3	0	
		Chil G/S	<i>Pinus roxbergii</i>	1	1	0	
		Ban G/S	<i>Quercus leucotrichophora</i>	10	0	0	
		Brass G/S	<i>Rhododendron arborem</i>	13	0	0	
		Poplar G/S	<i>Populus cilitata</i>	50	0	0	
		Total		79	4	0	83
11	45/1 LambiDhar (U-173 Dhalli) (Dumping Site)	Moharu G/S	<i>Quercus dilatata</i>	1	2	0	
		Hala G/S		2	0	0	
		Total		3	2	0	5
12	44/2 LambiDhar (U-173 Dhalli) (Dumping Site)	Kharak G/S	<i>Celtis australis</i>	1	0	0	
		Hala G/S		0	1	0	
		Total		1	1	0	2
13	48/2 LambiDhar U-173 Dhalli) (Dumping Site)	Kail G/S	<i>Pinus wallichina</i>	0	3	0	
		Ban G/S	<i>Quercus leucotrichophora</i>	1	0	0	
		Kharak G/S	<i>Celtis australis</i>	2	0	0	
		Hala G/S		2	1	0	
		Total		5	4	0	9
14	133/1 Sh Anokhi Ram & Others	Chil G/S	<i>Pinus roxbergii</i>	8	2	0	
		Total		8	2	0	10
15	108/1 Sh. Pratap Singh & Others	Deodar G/S	<i>Cedrus deodara</i>	2	0	0	
		Chil G/S	<i>Pinus roxbergii</i>	5	4	0	
		Ban G/S	<i>Quercus leucotrichophora</i>	17	2	0	
		Chui G/S	<i>Albizzia julibressin</i>	1	0	0	
		Total		25	6	0	31
Grand Total							1731


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