



# 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. Email: pdpiushimla@nhai.org; pdpiushimla@gmail.com 177-2633318

No. 110013/10/2016/SPSINGLA/K-S/PIU-SML/ 2852

01 March. 2023

To,

Divisional Forest Officer,  
Shimla Forest Division, Shimla.

**Sub:-** Diversion of 11.7936 ha. of forest land in favour of NHAI, 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) within the jurisdiction of Shimla Forest Division, Distt. Shimla, Himachal Pradesh (Online Proposal No. FP/HP/ROAD/151117/2022)

**Ref.:-** Minutes of the Meeting dated 25.02.2023 of the 16<sup>th</sup> Meeting of Regional Empowered Committee (REC) of Integrated Regional Office (IRO) Shimla held on 21.02.2023

Sir,

Kindly refer to the observations raised as per the MoM of the 16<sup>th</sup> Meeting of REC held on 21.02.2023 for the subject forest proposal mentioned at Agenda no. 2. The point-wise compliance to the observations is hereby submitted as under.

- a) Point (i) Since the proposed Right of way (Row) for the project that is extending up to 100 meters in some stretches viz. area of twin tube tunnels, tunnel portals, toll plaza and slope protection areas etc., therefore, State Government shall provide geo-coordinates of these sites/stretches properly marked on the map where the width of the PRow is exceeding the standard IRC norms (i.e. 60 m).

### Reply

There are only a few locations, where the proposed ROW is more than 60m. Geo-coordinates of the locations having more ROW are shown on the alignment map Enclosure 1.

- b) Point (ii) State Government shall provide *Khasra* number-wise enumeration list of trees uploaded under Part-II under column 4 (ii) PARIVESH portal.

### Reply

The *Khasra* number-wise enumeration list of trees uploaded under Part-II under column 4 (ii) PARIVESH portal is enclosed as Enclosure 2.

However, major species-wise breakup of trees within PRow and dumping site has been mentioned in the table 1.

*(Signature)*





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Table-1:- Details of trees species

S.No	Component	Saplings			Total Sap.	Trees			Total Trees	Grand Total
		Chil	Ban	Others		Chil	Ban	Others		
1.	PROW	0	27	9	36	3	260	27	290	326
	Percentage	0%	75%	25%	11%	1%	90%	9%	89%	100%
2.	Dumping Site	73	619	89	781	429	321	151	901	1682
	Percentage	9%	79%	12%	46%	48%	36%	16%	54%	100%
	Total nos.	73	646	98	817	432	581	178	1191	2008

Further, girth-wise break up of trees standing on forest land uploaded under Part-II is shown in Table-2.

Table-2 Girth-wise break up of trees standing on forest land

Forest Division	0-30cm	31-60cm	61-90cm	91-120 cm	121-150 cm	> 150 cm	Total
Shimla	1929	67	11	1	0	0	2008
Percentage	96%	3%	1%	0%	0%	0%	100%

- c) Point (iii) UA shall provide an undertaking duly authenticated by concerned DFO that no trees shall be felled in the Muck Disposal site (1682 trees). Further, detailed information regarding Dumping Site-wise area and the trees standing on these dumping sites in the forest land shall be submitted.

### Reply

An undertaking by the User agency regarding no trees shall be felled in the dumping sites proposed in the forest land and same duly authenticated by DFO Shimla has been enclosed in Enclosure-3.

The information regarding the dumping sites in forest land along with area and Tree species is details given in Table-3.





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Table-3 Details of Tree Species in Muck Dumping Sites

Muck Disposal Site No.	Chainage	Forest Area (Ha.)	Tree Species in Muck Dumping sites												Total Species		Grand Total
			Chil			Ban			Deodar			Others					
			Sap	Trees	Total	Sap	Trees	Total	Sap	Trees	Total	Sap	Trees	Total	Sap	Trees	
D-1	128+835	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D-2	130+800	2.5702	41	219	260	619	319	938	35	100	135	12	20	32	707	658	1365
D-3	132+150	0.5785	26	177	203	0	0	0	0	0	0	3	4	7	29	181	210
D-4	132+280	0.0000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D-5	136+700	0.1061	3	6	9	0	0	0	0	0	0	0	3	3	3	9	12
D-6	140+100	1.0912	3	27	30	0	0	0	0	0	0	33	11	44	36	38	74
D-7	142+950	0.0000	0	0	0	0	0	0	0	0	0			0	0	0	0
D-8	142+600	0.0434	0	0	0	0	2	2	0	0	0	6	13	19	6	15	21
D-9	145+300	0.0000	0	0	0	0	0	0	0	0	0			0	0	0	0
Total		4.3894	73	429	502	619	321	940	35	100	135	54	51	105	781	901	1682

Further, it is mentioned that following measures will be taken in the dumping site.

- Scientific dumping in form of terraces will be done by providing suitable slope protection structures like gabion walls
- Minimal damage and injury to the plant species will be done while dumping
- Attempts will be made to maintain soil permeability and moisture content of the soil

d) Point (iv) State Government shall provide enumeration list of 326 trees as proposed to be felled in PRoW duly authenticated by the concerned DFO. Further, State Government shall constitute a Committee comprising Range Officer and Site Engineer In-charge and headed by the DFO concerned" The Committee shall examine the alignment at the time of execution of work and will recommend the removal of trees on case to case basis along the PRoW after looking into the possibility of reducing the total number of trees to be affected. Accordingly, the committee headed by the DFO concerned shall verify the enumeration list of the trees proposed based on the actual





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requirement. Further, The DFO will provide the list of trees to be felled and retained to IRO Shimla. An Undertaking in this regard shall be submitted by the User Agency duly authenticated by concerned DFO.

Also, an Undertaking regarding possibility of translocation of the saplings before execution of the project from PRow and Dumping Sites shall be provided.

### Reply

The tree enumeration list of 326 trees as proposed to be felled in PRow duly authenticated by the DFO is enclosed as **Enclosure 4**.

The undertaking by the User Agency duly authenticated by DFO for formation of committee and examining the possibility of removal of trees on case to case basis within the PRow at the time of execution is enclosed as **Enclosure 5**.

Also, an Undertaking regarding possibility of translocation of the saplings enclosed as **Enclosure 6**.

- e) Point (v) State Government shall provide Chainage-wise and purpose-wise detail of the forest land with Khasra number is required

### Reply

A summary of purpose-wise detail of the forest land is provided in the table-4 below.

Table-4 Purpose-wise detail of the forest land

District	Forest Division	Component	Forest Area (Ha)	Non-Forest Area (Ha)	Total land
Shimla	Shimla	Road	3.2611	4.8949	8.1560
		Muck Disposal Sites	4.3894	4.5902	8.9796
		Tunnels	4.1431	4.3239	8.4670
Total			11.7936	13.809	25.6026

However, chainage-wise and purpose-wise detail of the forest land with Khasra number is provided in **Enclosure 7**.

- f) Point (vi) State Government shall provide the Reclamation Plan of the dumping sites prepared by the concerned DFO i.e DFO Shimla.

### Reply

This point pertains to DFO, Shimla hence may be replied accordingly.





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- g) Point (vii) State Government shall comply the Orders of the Hon'ble High Court of Himachal Pradesh issued on dated 13.01.2023 CWPII NO 13/2021 title as Kusum Bali Vs States and others. Accordingly, NOC from PCB shall be submitted

**Reply**

The Consent to Establish (CTE) u/s 25/26 of Water (Prevention & Control of Pollution) Act, 1974 and u/s 21 of Air (Prevention & Control of Pollution) Act, 1981 for the proposed project road from Kaithlighat to Shakral has been obtained from H.P State Pollution Control Board on 13.02.2023 and is valid upto 12.02.2024. The NOC is enclosed as Enclosure 8.

- h) Point (vii) UA shall provide an Undertaking duly authenticated by concerned DFO regarding the submission of the NoC from Railway authorities of Kalka-Shimla Heritage Railway line before Stage-II approval.

**Reply**

The undertaking in this regard by the User Agency duly authenticated by DFO Shimla is enclosed as Enclosure 9.

- i) Point (ix) UA shall submit an Undertaking duly authenticated by concerned DFO that the recharge point of the seasonal streams and springs shall be taken due care from the disturbance, and sufficient measures shall be adopted to preserve the sources of these natural springs/streams and their flow.

**Reply**

The undertaking in this regard by the User Agency duly authenticated by DFO Shimla is enclosed as Enclosure 10.

2. It is therefore requested to kindly forward the point wise reply of observation to the Nodal Officer-cum-APCCF (FCA) HP for further submission to Regional Officer, MoEF & cc Shimla for obtaining stage-1 approval at the earliest for subject project.

With Regards,

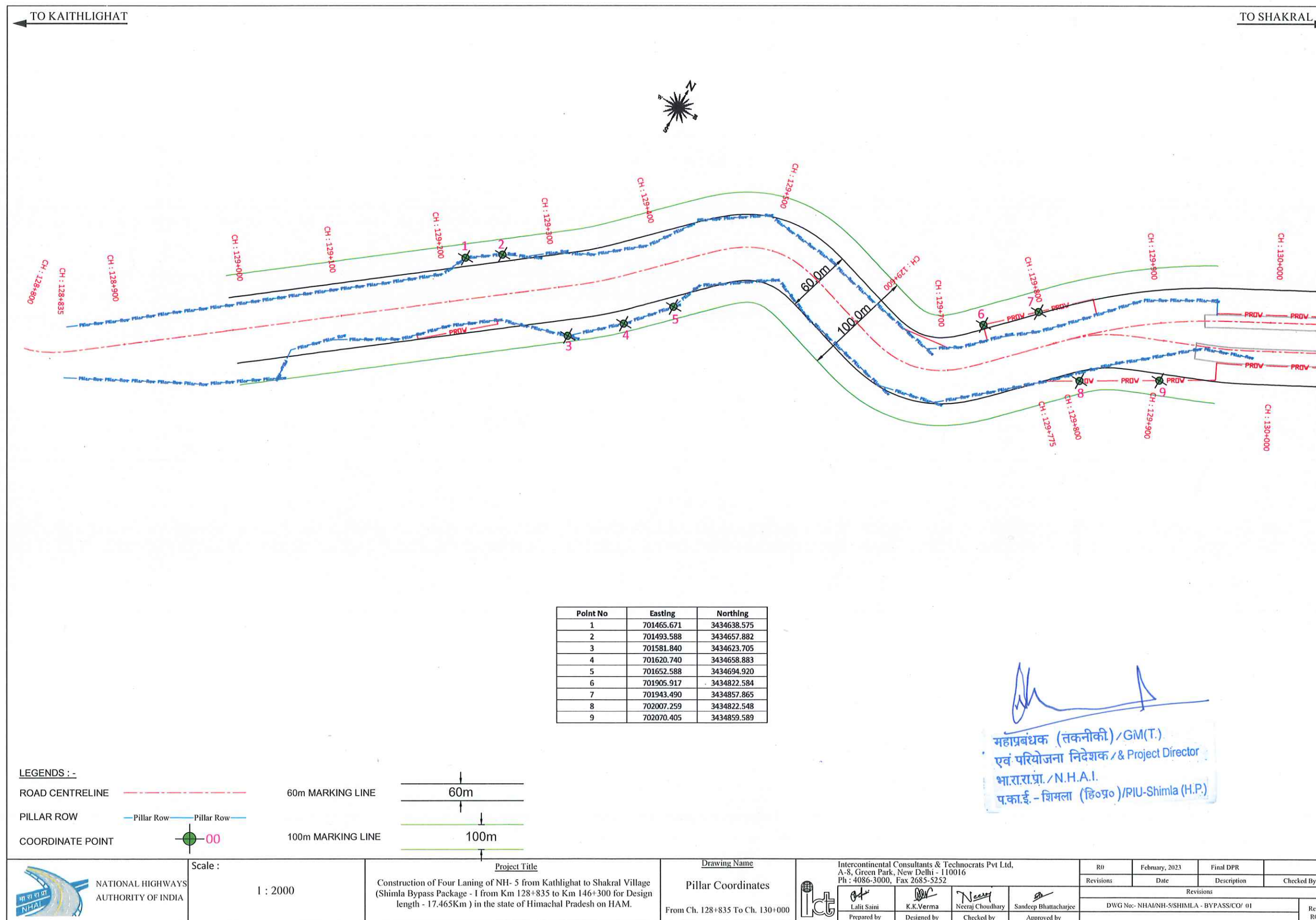
Encl: As above

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

**Copy for information: -**

1. The Regional Officer, Integrated Regional Office, Shimla C.G.O Complex, Longwood, Shimla, Himachal Pradesh.
2. Nodal Officer-cum-APCCF (FCA), O/O Pr. CCF, H.P. (HoFF), H.P Forest Department, Shimla.

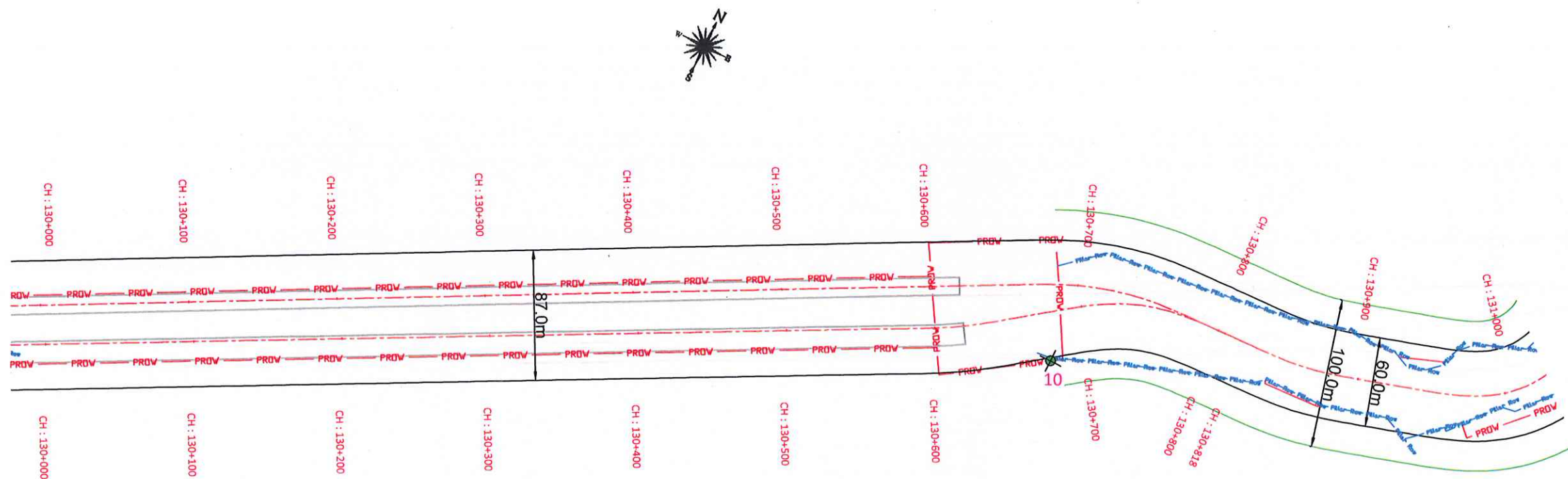






TO KATHLIGHAT

TO SHAKRAL



Point No	Easting	Northing
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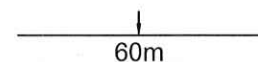
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 एवं परियोजना निदेशक / & Project Director  
 भारा.रा.प्र. / N.H.A.I.  
 प.का.ई. - शिमला (हि.प्र.) / PIU-Shimla (H.P.)

## LEGENDS :-

ROAD CENTRELINE



60m MARKING LINE



PILLAR ROW



COORDINATE POINT



100m MARKING LINE



NATIONAL HIGHWAYS  
 AUTHORITY OF INDIA

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1 : 2000

Project Title

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

Drawing Name

Pillar Coordinates

From Ch. 130+000 To Ch. 131+000



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

Lalit Saini  
 Prepared by

K.K.Verma  
 Designed by

Neeraj Choudhary  
 Checked by

Sandeep Bhattacharjee  
 Approved by

R0

February, 2023

Final DPR

Revisions

Date

Description

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Revisions

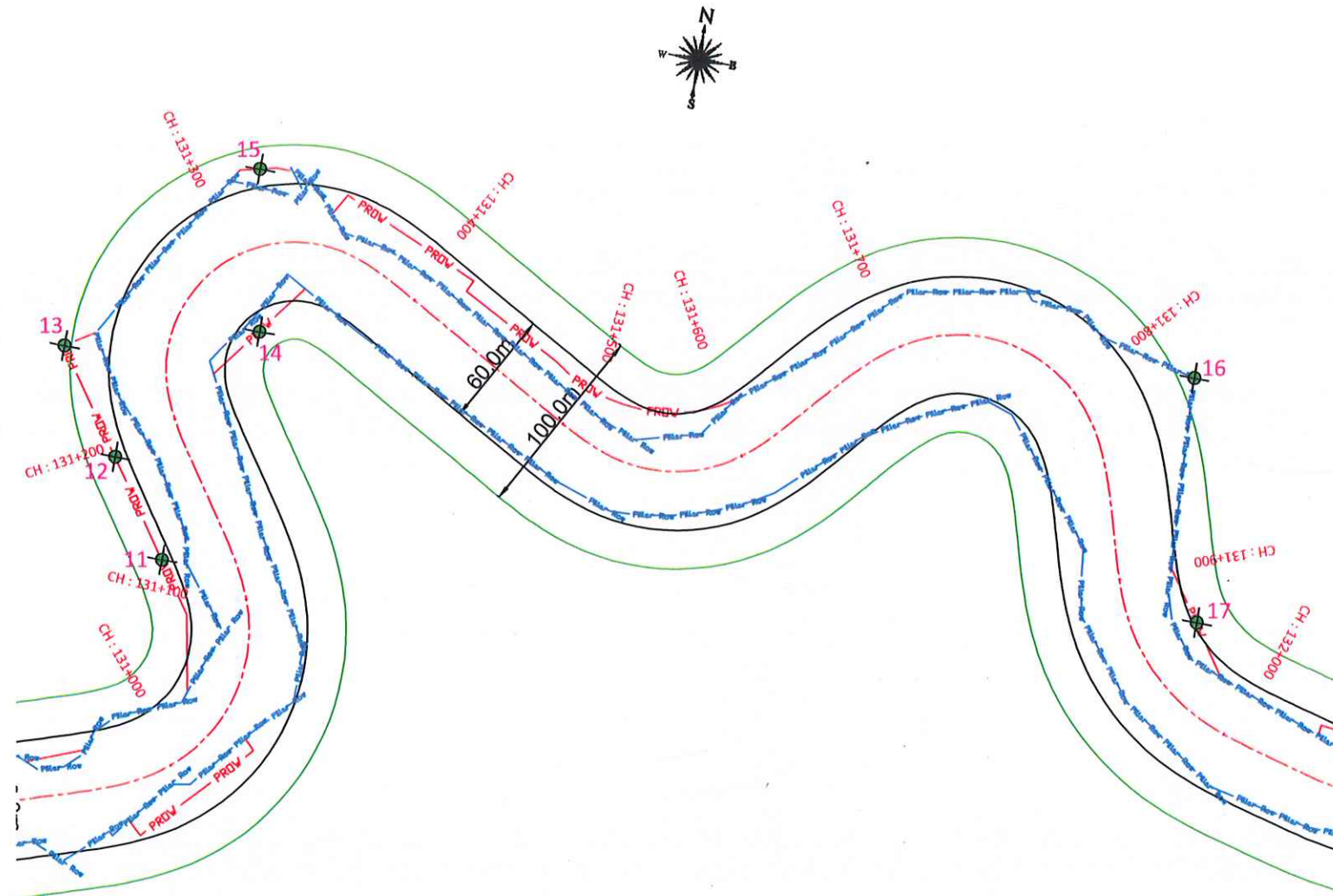
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TO KATHLIGHAT

TO SHAKRAL

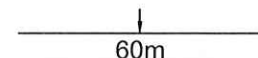


## LEGENDS :-

ROAD CENTRELINE



60m MARKING LINE



PILLAR ROW



100m MARKING LINE



COORDINATE POINT



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12	702982.645	3435503.473
13	702946.855	3435555.139
14	703045.084	3435579.746
15	703030.823	3435662.044
16	703525.380	3435640.797
17	703548.784	3435517.322

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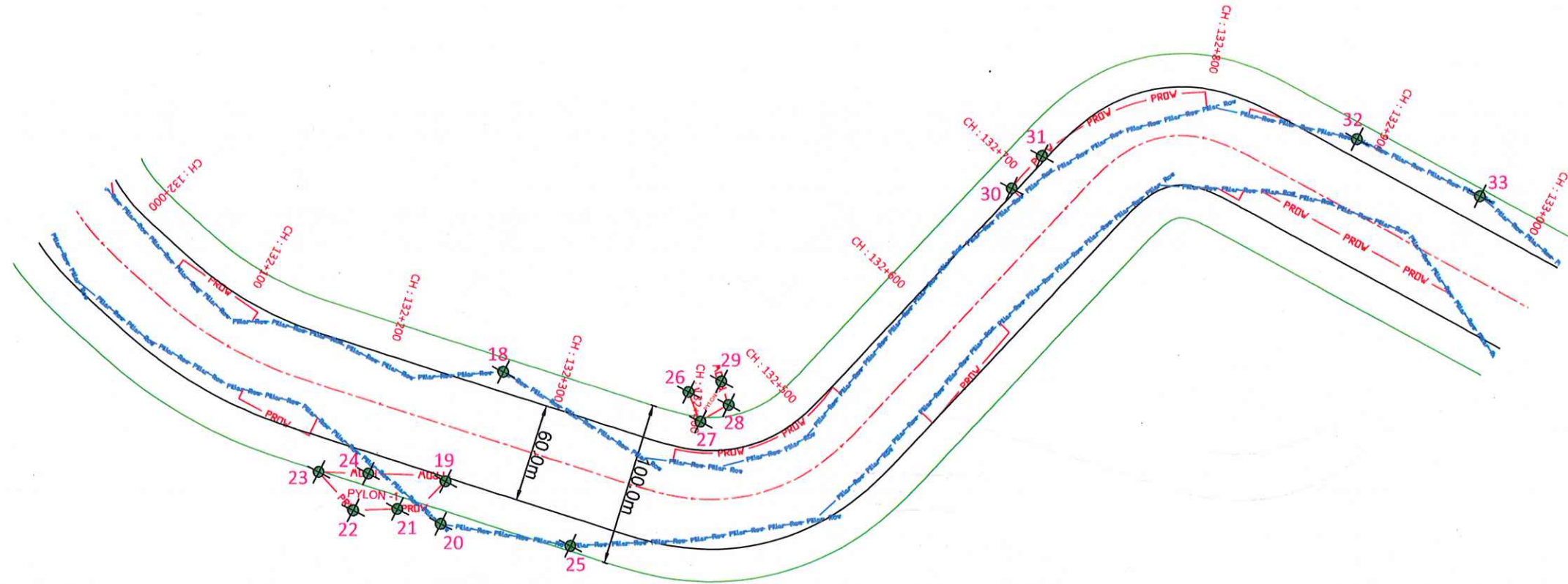
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TO KATHLIGHTAT

TO SHAKRAL



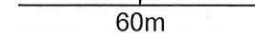
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20	703836.061	3435405.705
21	703808.202	3435401.663
22	703784.320	3435388.545
23	703754.925	3435399.763
24	703782.391	3435412.727
25	703912.809	3435429.855
26	703934.648	3435546.315
27	703949.385	3435533.448
28	703960.033	3435550.333
29	703949.516	3435561.172
30	704054.492	3435746.845
31	704062.053	3435773.012
32	704229.122	3435870.335
33	704312.192	3435873.856

## LEGENDS :-

ROAD CENTRELINE



60m MARKING LINE



PILLAR ROW



COORDINATE POINT



100m MARKING LINE

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From Ch. 132+000 To Ch. 133+000

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Ph : 4086-3000, Fax 2685-5252Prepared by  
Lalit SainiDesigned by  
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Neeraj ChoudharyApproved by  
Sandeep Bhattacharjee

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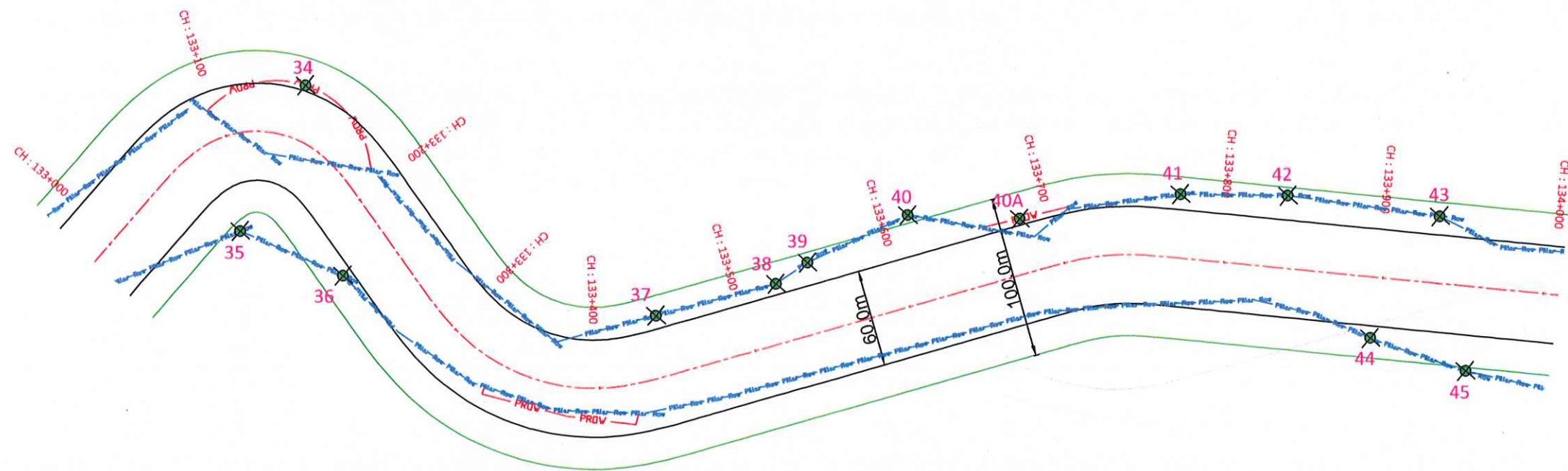
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प.का.ई. - शिमला (हि.प्र.) / PIU-Shimla (H.P.)



TO KATHLIGHTAT

TO SHAKRAL



Point No	Easting	Northing
34	704498.841	3435797.417
35	704403.690	3435770.690
36	704423.950	3435703.810
37	704530.529	3435538.577
38	704593.837	3435493.953
39	704616.490	3435487.390
40	704679.230	3435458.400
40A	704722.612	3435403.543
41	704798.506	3435337.088
42	704841.145	3435285.254
43	704892.709	3435204.404
44	704807.262	3435189.033
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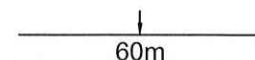
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## LEGENDS :-

ROAD CENTRELINE



60m MARKING LINE



PILLAR ROW



COORDINATE POINT



100m MARKING LINE

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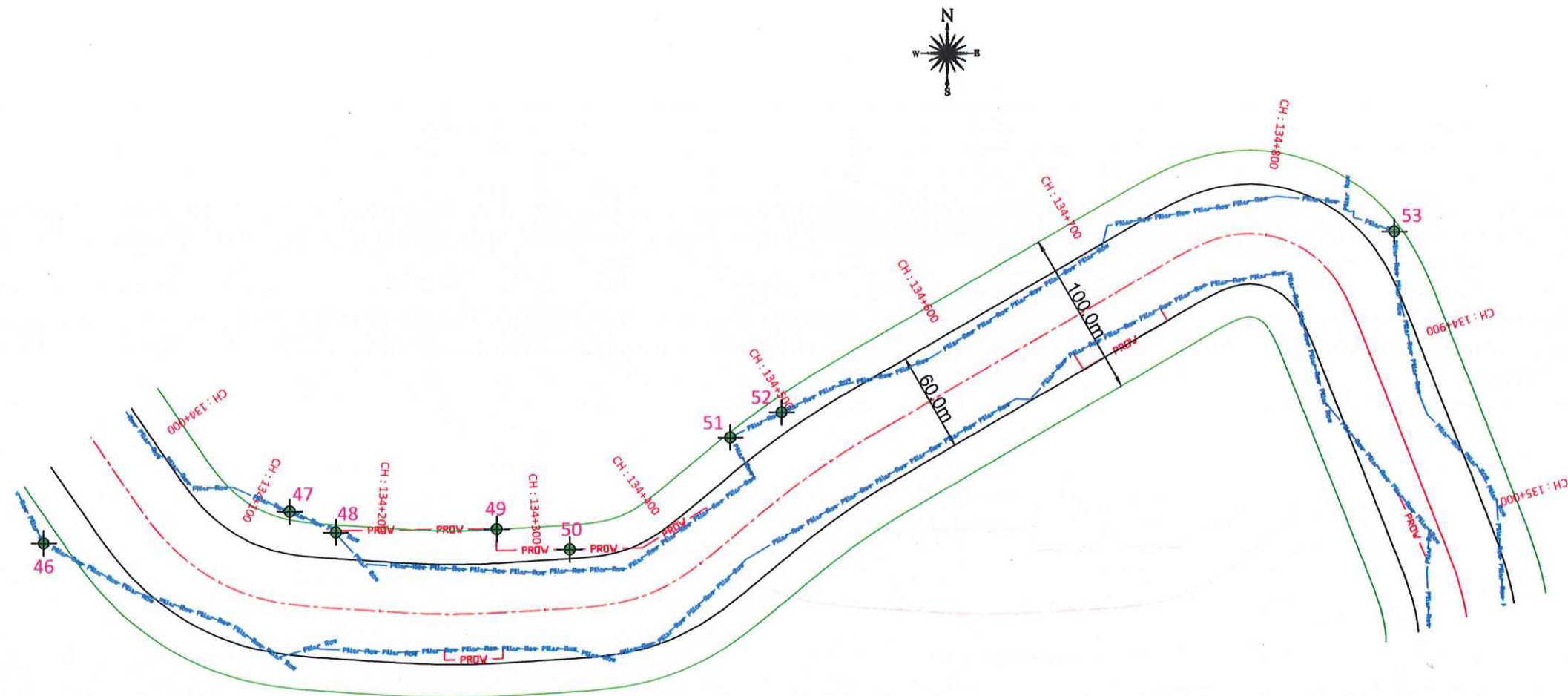
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TO KATHLIGHAT

TO SHAKRAL



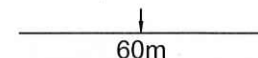
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47	705007.850	3435094.893
48	705035.889	3435082.371
49	705133.371	3435084.308
50	705177.478	3435072.035
51	705274.640	3435139.310
52	705305.800	3435154.390
53	705676.425	3435263.382

## LEGENDS :-

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60m MARKING LINE



PILLAR ROW



100m MARKING LINE



COORDINATE POINT

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DWG No:- NHAI/NH-5/SHIMLA - BYPASS/CO/ 06

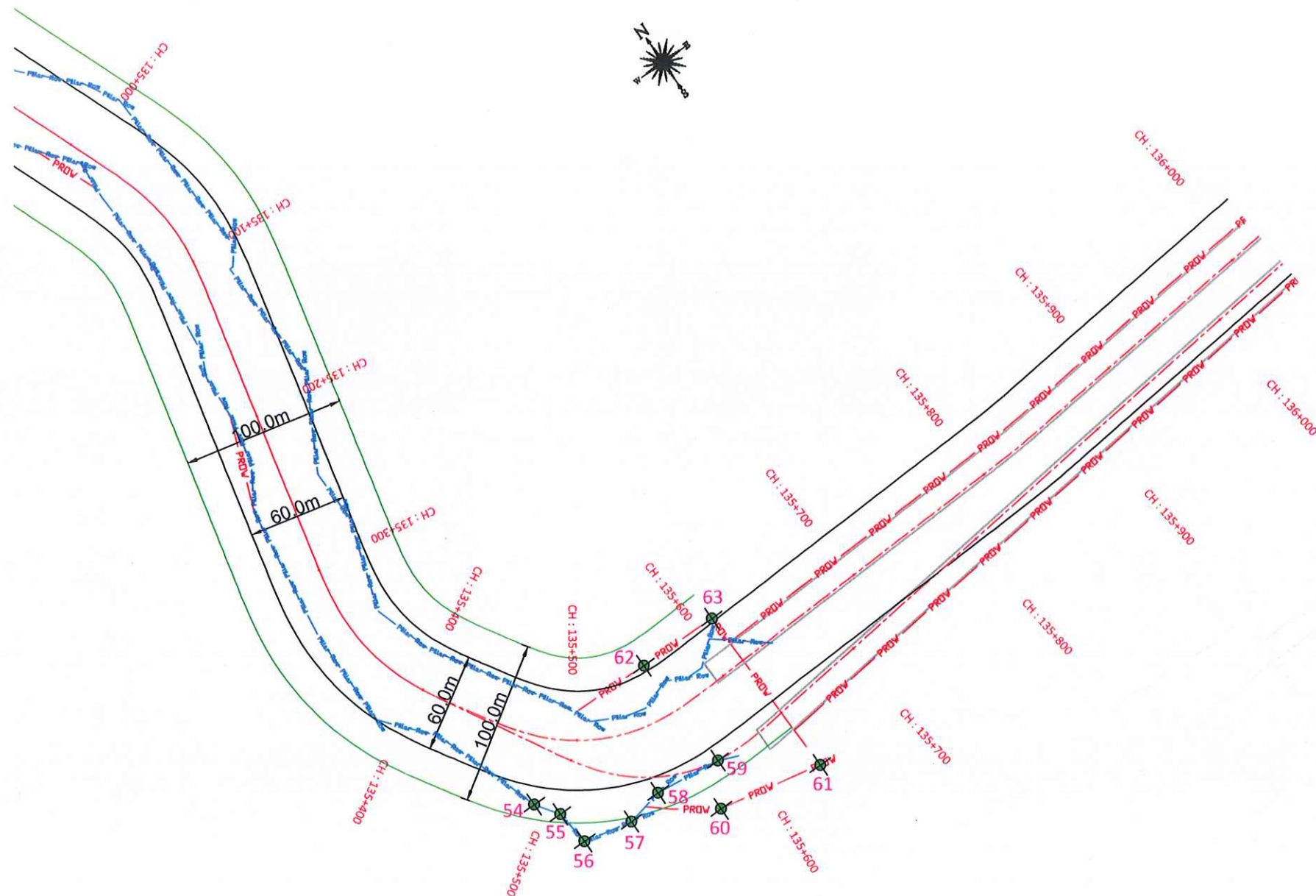
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TO KATHLIGHAT

TO SHAKRAL



## LEGENDS :-

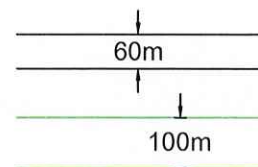
ROAD CENTRELINE

PILLAR ROW

COORDINATE POINT

60m MARKING LINE

100m MARKING LINE



Point No	Easting	Northing
54	705702.450	3434606.320
55	705712.272	3434592.339
56	705714.948	3434570.330
57	705745.348	3434563.760
58	705768.655	3434568.674
59	705809.966	3434563.859
60	705794.803	3434538.591
61	705859.737	3434525.924
62	705805.522	3434636.953
63	705856.078	3434636.532

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

NATIONAL HIGHWAYS  
AUTHORITY OF INDIA

Scale :

1 : 2000

Project Title

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

Drawing Name

Pillar Coordinates

From Ch. 135+000 To Ch. 136+000



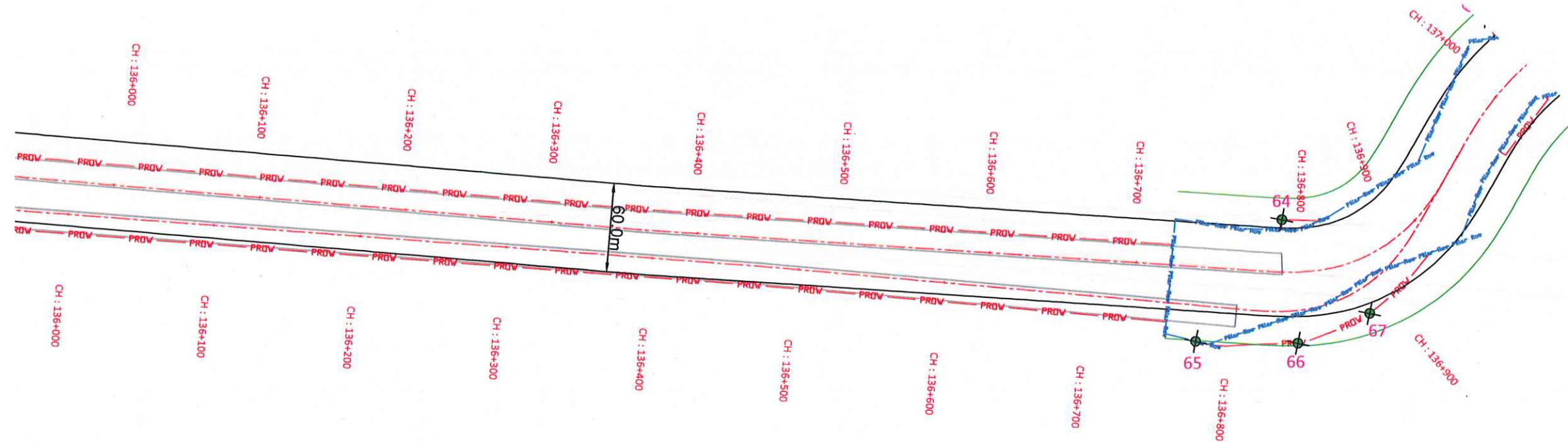
Intercontinental Consultants & Technocrats Pvt Ltd,  
 A-8, Green Park, New Delhi - 110016  
 Ph : 4086-3000, Fax 2685-5252

Prepared by	Designed by	Checked by	Approved by
Lalit Saini	K.K.Verma	Neeraj Choudhary	Sandeep Bhattacharjee

Revisions	Date	Description	Checked By
R0	February, 2023	Final DPR	
Revisions			
DWG No:- NHAI/NH-5/SHIMLA - BYPASS/CO/ 07			
Rev.	R0		

TO KATHLIGHT

TO SHAKRAL



## LEGENDS :-

ROAD CENTRELINE



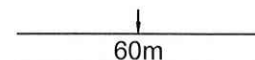
PILLAR ROW



COORDINATE POINT



60m MARKING LINE



100m MARKING LINE



Point No	Easting	Northing
64	707027.7916	3434764.154
65	706985.8155	3434671.828
66	707054.7953	3434684.257
67	707098.8694	3434713.561

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

NATIONAL HIGHWAYS  
AUTHORITY OF INDIA

Scale :

1 : 2000

Project Title

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

Drawing Name

Pillar Coordinates

From Ch. 136+000 To Ch. 137+000



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

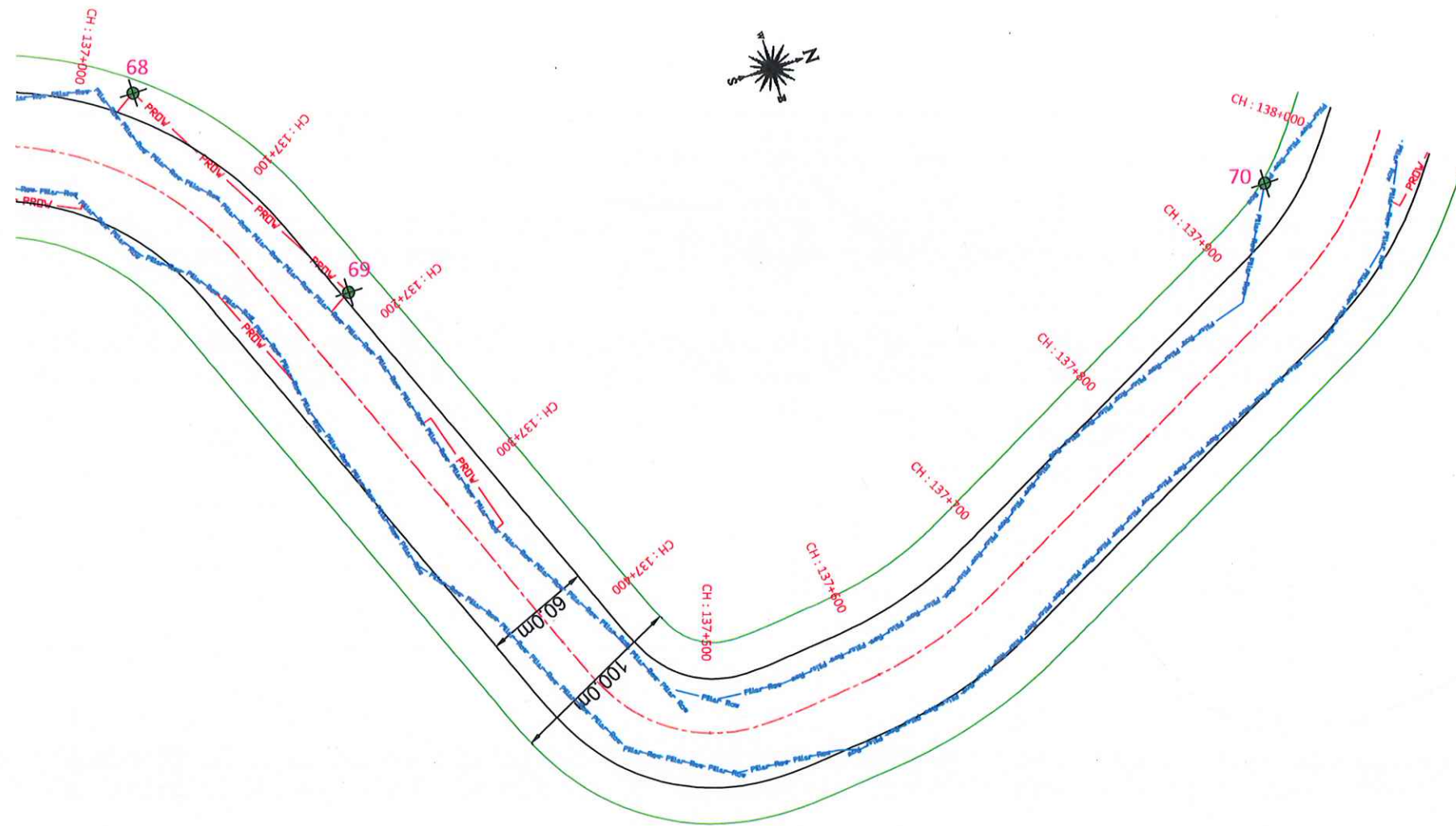
Prepared by	Designed by	Checked by	Approved by
Lalit Saini	K.K.Verma	Neeraj Choudhary	Sandeep Bhattacharjee

Revisions	Date	Description	Checked By
R0	February, 2023	Final DPR	
Revisions			
DWG No: NHAI/NH-5/SHIMLA - BYPASS/CO/ 08			
Rev.	R0		






← TO KATHLIGHAT

TO SHAKRAL →



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.)

**LEGENDS :-**

ROAD CENTRELINE   
PILLAR ROW   
COORDINATE POINT 

60m MARKING LINE

60m

100m MARKING LINE

100m

Point No	Easting	Northing
68	707137.710	3434926.363
69	707279.221	3435006.570
70	707378.521	3435509.395



Scale :  
1 : 2000

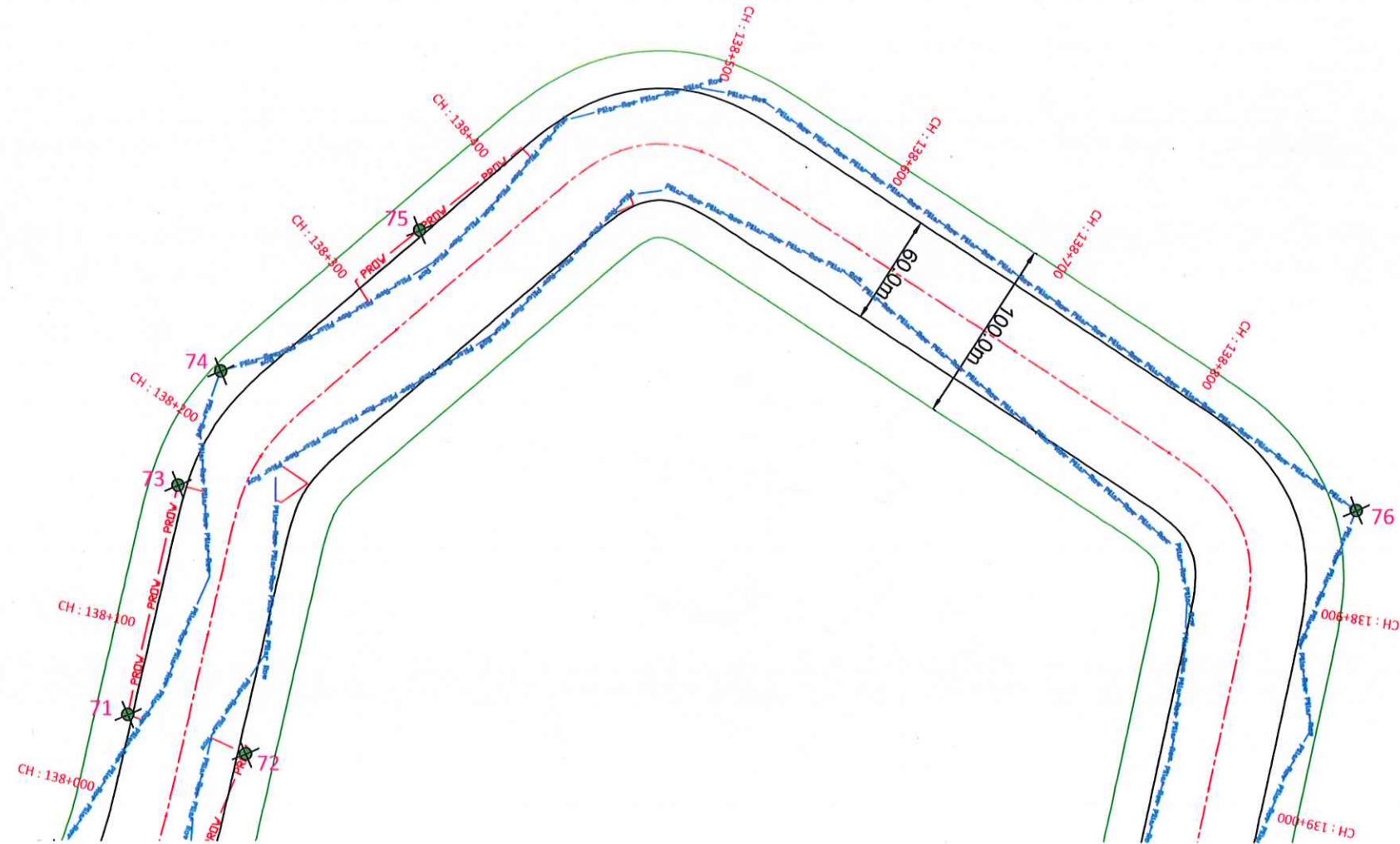
Project Title  
Construction of Four Lining of NH- 5 from Kathlighat to Shakral Village  
(Shimla Bypass Package - I from Km 128+835 to Km 146+300 for Design  
length - 17.465Km ) in the state of Himachal Pradesh on HAM.

Drawing Name  
Pillar Coordinates  
From Ch. 137+000 To Ch. 138+000

Intercontinental Consultants & Technocrats Pvt Ltd, A-8, Green Park, New Delhi - 110016 Ph : 4086-3000, Fax 2685-5252				R0	February, 2023	Final DPR	
				Revisions	Date	Description	Checked By
				Revisions			
				DWG No:- NHAI/NH-5/SHIMLA - BYPASS/CO/ 09			
				Rev. R0			

← TO KATHLIGHTAT

→ TO SHAKRAL



Point No	Easting	Northing
71	707324.588	3435572.493
72	707368.796	3435622.787
73	707221.758	3435645.024
74	707174.445	3435690.110
75	707146.589	3435818.375
76	707482.014	3436226.622

*[Signature]*

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

**LEGENDS :-**

ROAD CENTRELINE

PILLAR ROW Pillar Row

COORDINATE POINT

60m MARKING LINE

100m MARKING LINE



NATIONAL HIGHWAYS  
AUTHORITY OF INDIA

Scale :  
1 : 2000

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

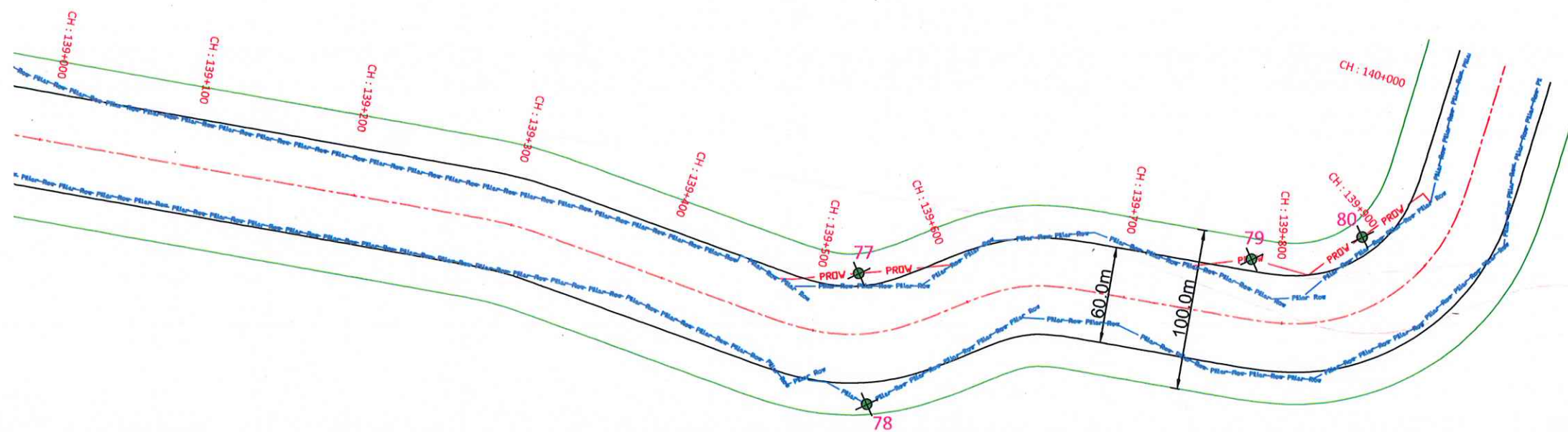
Drawing Name  
Pillar Coordinates  
From Ch. 138+000 To Ch. 139+000

Intercontinental Consultants & Technocrats Pvt Ltd, A-8, Green Park, New Delhi - 110016 Ph : 4086-3000, Fax 2685-5252				R0	February, 2023	Final DPR	
				Revisions	Date	Description	Checked By
				Revisions			
				DWG No:- NHAI/NH-5/SHIMLA - BYPASS/CO/ 10			
				Rev. R0			



TO KATHLIGHAT

TO SHAKRAL



## LEGENDS :-

ROAD CENTRELINE

60m MARKING LINE

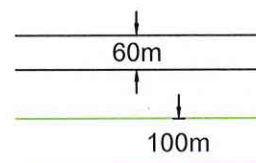
PILLAR ROW

Pillar Row

COORDINATE POINT



100m MARKING LINE



Point No	Easting	Northing
77	708017.479	3435802.320
78	707987.498	3435726.573
79	708243.620	3435706.236
80	708312.494	3435689.363

सहायक (तकनीकी) / GM(T.)  
 एवं परियोजना निदेशक / & Project Director  
 भारा.रा.प्र. / N.H.A.I.  
 प.का.ई. - शिमला (हि.प्र.) / RIU-Shimla (H.P.)



NATIONAL HIGHWAYS  
 AUTHORITY OF INDIA

Scale :

1 : 2000

Project Title

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

Drawing Name

Pillar Coordinates

From Ch. 139+000 To Ch. 140+000



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



Prepared by



Designed by



Checked by

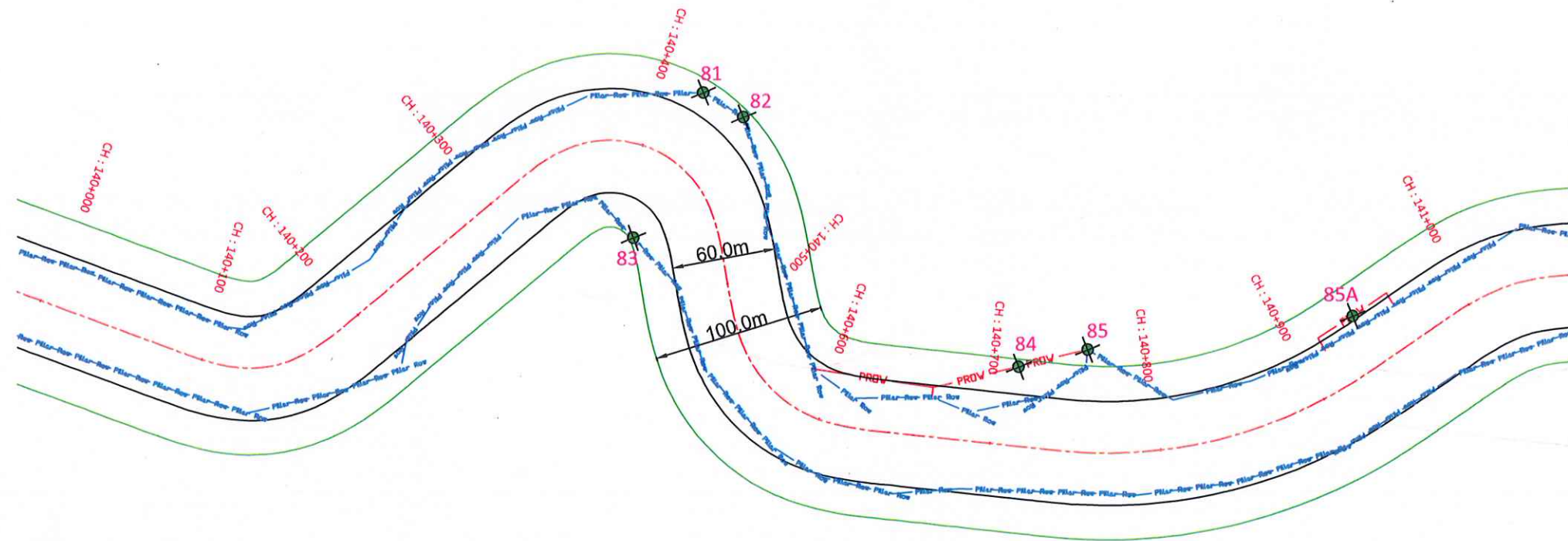


Approved by

Revisions	Date	Description	Checked By
R0	February, 2023	Final DPR	
Revisions			
DWG No:- NHAI/NH-5/SHIMLA - BYPASS/CO/ 11			
Rev.	R0		

TO KATHLIGHAT

TO SHAKRAL

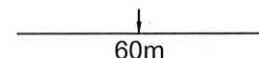


## LEGENDS :-

ROAD CENTRELINE



60m MARKING LINE



PILLAR ROW



100m MARKING LINE



COORDINATE POINT



Point No	Easting	Northing
81	708448.308	3436123.734
82	708470.246	3436140.036
83	708510.686	3436054.603
84	708663.668	3436234.057
85	708669.623	3436274.986
85A	708709.278	3436425.290

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



NATIONAL HIGHWAYS  
AUTHORITY OF INDIA

Scale :

1 : 2000

Project Title

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

Drawing Name

Pillar Coordinates

From Ch. 140+000 To Ch. 141+000



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

Lalit Saini  
Prepared by

K.K.Verma  
Designed by

Neeraj Choudhary  
Checked by

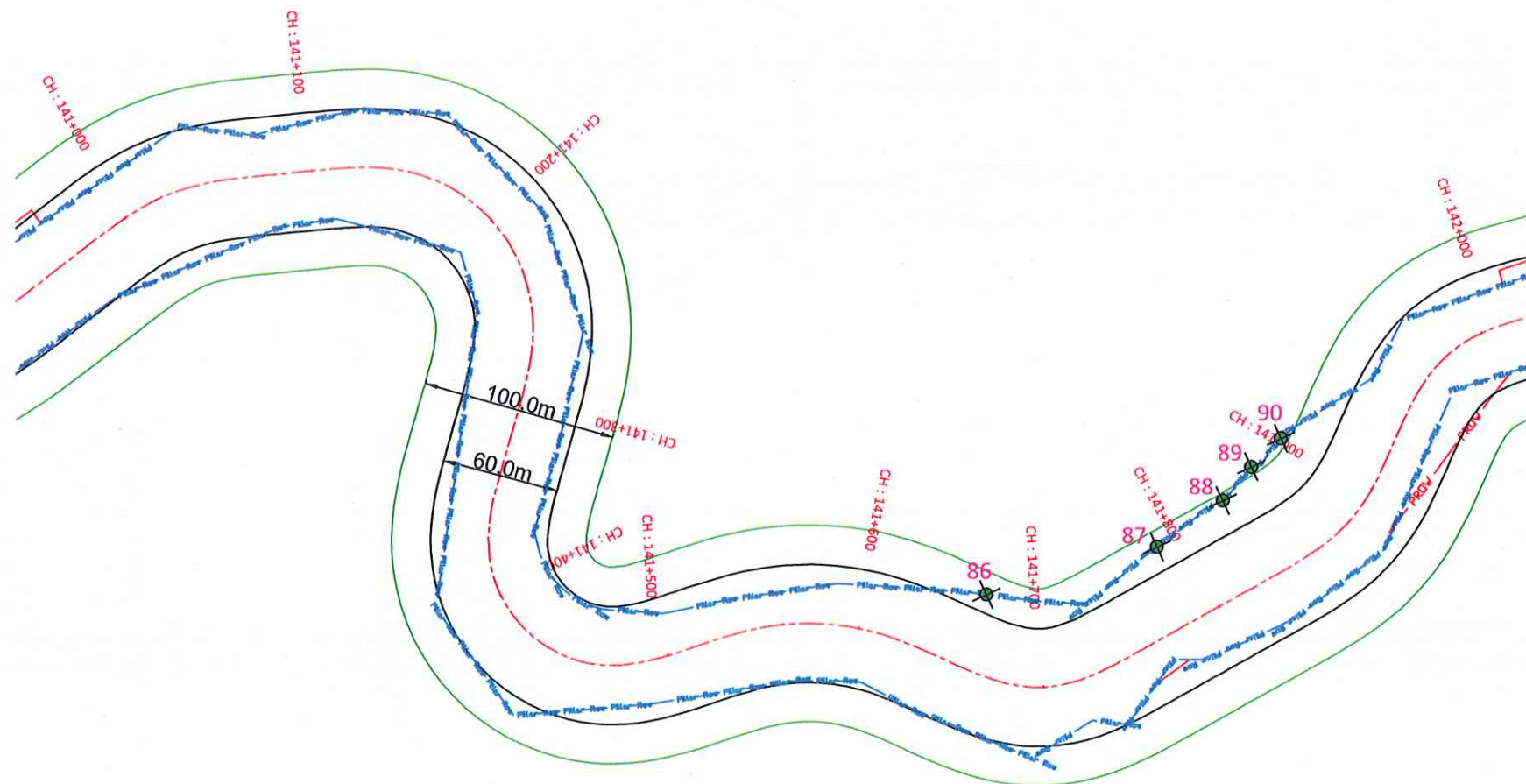
Sandeep Bhattacharjee  
Approved by

Revisions	Date	Description	Checked By
R0	February, 2023	Final DPR	
Revisions			
DWG No:- NHAI/NH-5/SHIMLA - BYPASS/CO/ 12			
Rev.	R0		



← TO KATHLIGHTAT

TO SHAKRAL →



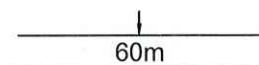
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**LEGENDS :-**

ROAD CENTRELINE



60m MARKING LINE



PILLAR ROW



COORDINATE POINT



100m MARKING LINE



Point No	Easting	Northing
86	709089.148	3436808.788
87	709104.355	3436898.359
88	709097.218	3436938.900
89	709087.806	3436959.364
90	709081.126	3436979.182



NATIONAL HIGHWAYS  
AUTHORITY OF INDIA

Scale :

1 : 2000

Project Title

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

Drawing Name

Pillar Coordinates

From Ch. 141+000 To Ch. 142+000



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

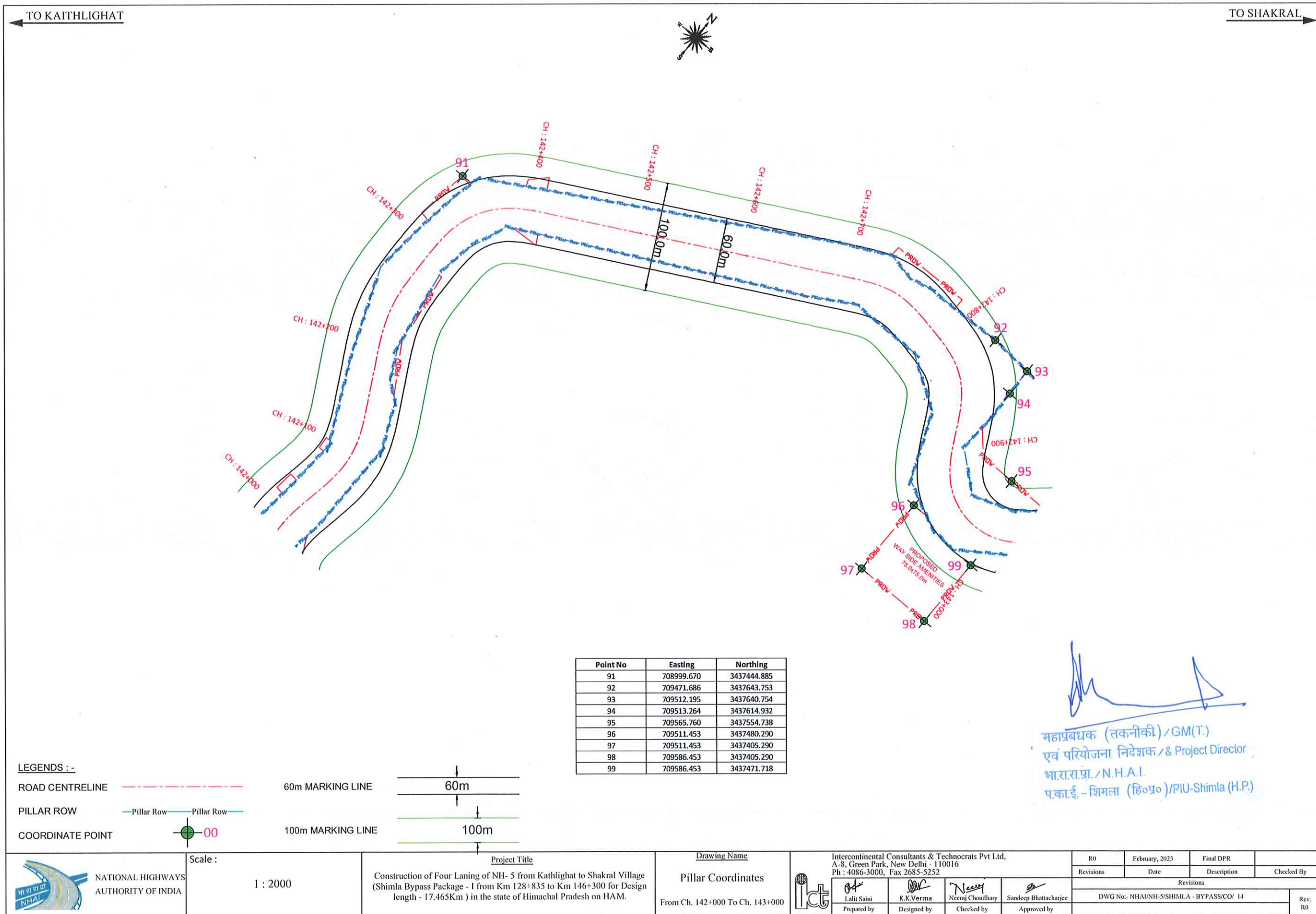
Prepared by

Designed by

Checked by

Approved by

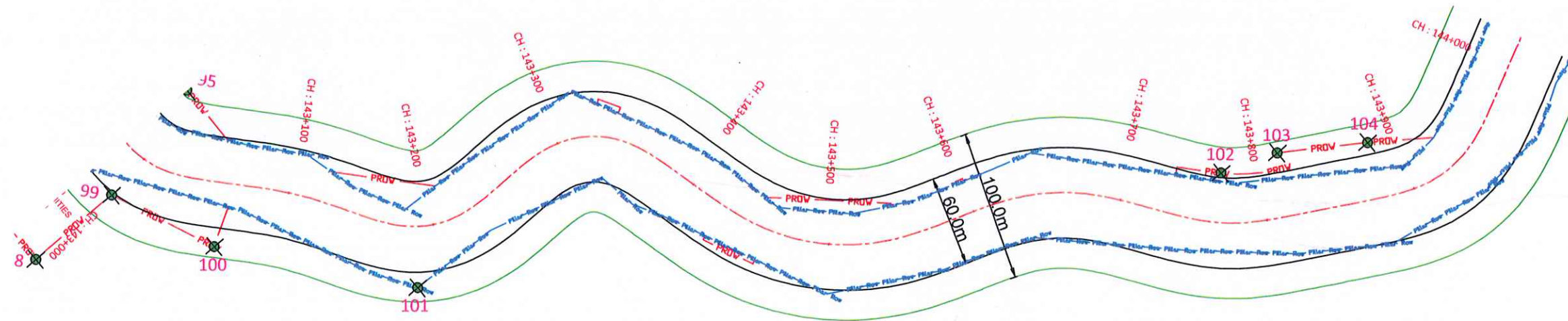
Revisions	Date	Description	Checked By
R0	February, 2023	Final DPR	
DWG No:- NHAI/NH-5/SHIMLA - BYPASS/CO/ 13			
Rev.	R0		





TO KATHLIGHTAT



TO SHAKRAL






Point No	Easting	Northing
100	709656.7725	3437502.041
101	709765.1983	3437588.546
102	710050.6264	3438049.373
103	710064.113	3438086.71
104	710097.2751	3438137.183

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

## LEGENDS :-

ROAD CENTRELINE  60m MARKING LINE 

PILLAR ROW  100m MARKING LINE 

COORDINATE POINT 



NATIONAL HIGHWAYS  
 AUTHORITY OF INDIA

Scale :

1 : 2000

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

Drawing Name

Pillar Coordinates

From Ch. 143+000 To Ch. 144+000



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

Lalit Saini  
 Prepared by

K.K.Verma  
 Designed by

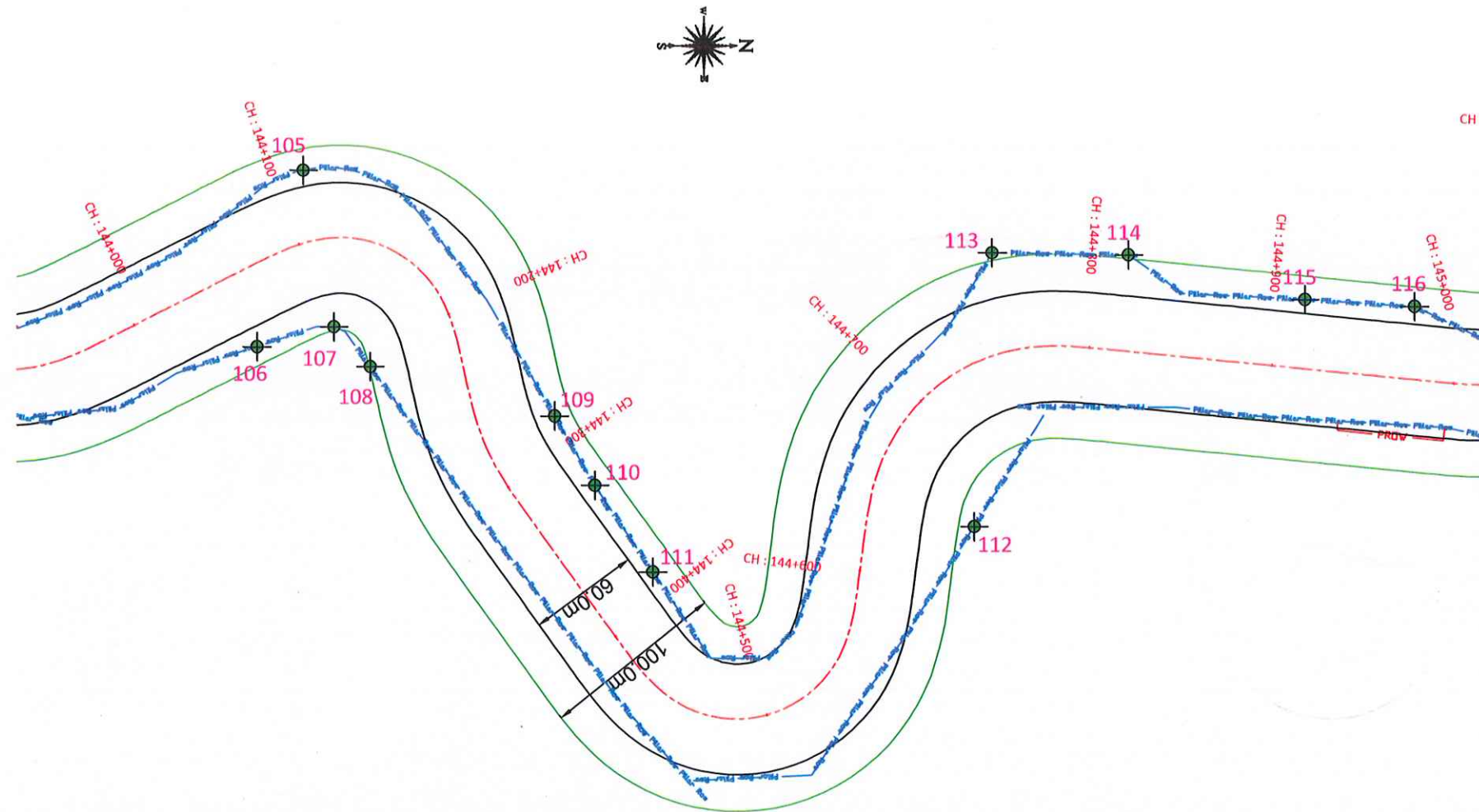
Neeraj Choudhary  
 Checked by

Sandeep Bhattacharjee  
 Approved by

Revisions	Date	Description	Checked By
R0	February, 2023	Final DPR	
Revisions			
DWG No:- NHAI/NH-5/SHIMLA - BYPASS/CO/ 15			
Rev.	R0		

TO KAITHLIGHAT

TO SHAKRAL



Point No	Easting	Northing
105	710037.742	3438328.253
106	710133.220	3438303.036
107	710122.582	3438345.072
108	710144.120	3438364.947
109	710171.145	3438465.664
110	710208.766	3438487.698
111	710255.646	3438519.217
112	710231.346	3438694.540
113	710082.818	3438704.239
114	710084.093	3438778.698
115	710108.193	3438875.131
116	710111.961	3438934.913

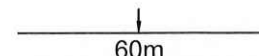
  
 महत्त्वपूर्ण (तकनीकी) / GM(T.)  
 एवं परियोजना निदेशक / & Project Director  
 भारा.रा.प्रा. / N.H.A.I.  
 प.का.ई. - शिमला (हि.प्र.) / RIU-Shimla (H.P.)

## LEGENDS :-

ROAD CENTRELINE



60m MARKING LINE



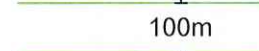
PILLAR ROW



COORDINATE POINT



100m MARKING LINE



NATIONAL HIGHWAYS  
AUTHORITY OF INDIA

Scale :

1 : 2000

Project Title

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

Drawing Name

Pillar Coordinates

From Ch. 144+000 To Ch. 145+000



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

Lalit Saini  
Prepared by

K.K.Verma  
Designed by

Neeraj Choudhary  
Checked by

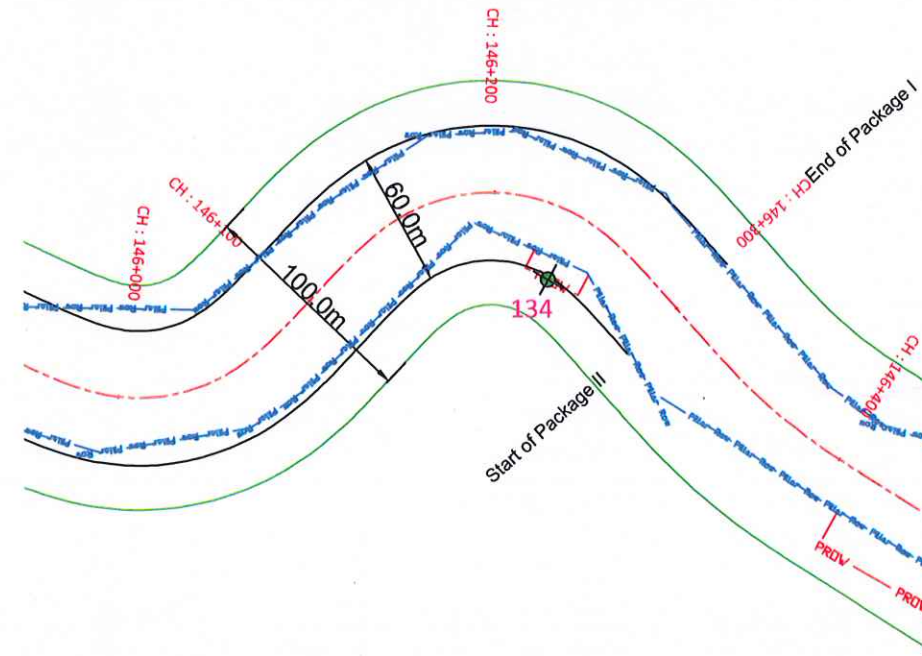
Sandeep Bhattacharjee  
Approved by

Revisions	Date	Description	Checked By
R0	February, 2023	Final DPR	
Revisions			
DWG No:- NHAI/NH-5/SHIMLA - BYPASS/CO/ 16			
Rev.	R0		



TO KATHLIGHAT

TO SHAKRAL



Point No	Easting	Northing
134	709481.461	3439803.683

## LEGENDS :-

ROAD CENTRELINE



60m MARKING LINE

60m

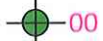
PILLAR ROW



100m MARKING LINE

100m

COORDINATE POINT

NATIONAL HIGHWAYS  
AUTHORITY OF INDIA

Scale :

1 : 2000

Project Title

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

Drawing Name

Pillar Coordinates

From Ch. 146+000 To Ch. 146+300

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

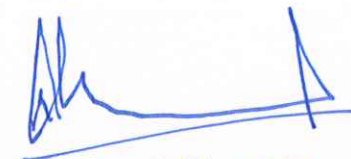
Prepared by	Designed by	Checked by	Approved by
Lalit Saini	K.K.Verma	Neeraj Choudhary	Sandeep Bhattacharjee

Revisions	Date	Description	Checked By
R0	February, 2023	Final DPR	
Revisions			
DWG No:- NHAI/NH-5/SHIMLA - BYPASS/CO/ 18			
Rev. R0			

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

Enumeration details/number of trees standing in Dumping Site and Proposed RoW in forest land of Shimla Bypass Pkg I (Online Proposal No.FP/HP/Road/151117/2022)

Sr. No	Type	District	Taluka	Village	Khasra No	Type of Land	Nature of Land	Area in Heect.	Chainage		Length	Toon		Khidak		Buel		Chil		Kafal		Ban		Kainth		Paja		Kakkar		Tunni		Deodar		Dudhla		Khirk		Timbol		Darek		Fegra		Robinia		Bius		Sub Total		Total (Sap+ Trees)
									Start	End								Sap	Tree	Sap	Tree	Sap	Tree	Sap	Tree	Sap	Tree	Sap	Tree	Sap	Tree	Sap	Tree	Sap	Tree	Sap	Tree	Sap	Tree	Sap	Tree	Sap	Tree	Sap	Tree	Sap	Tree	Sap	Tree	
1	Road	Shimla	Shimla Rural	Bhog	1485/1/1	Govt.	Charagah Drakhtan	0.3174	133.096	133.181	0.085									0	1	26	256	0	1			1	1																27	259	286			
2	Road	Shimla	Shimla Rural	Ranghav	517/1	Govt.	Bila Drakhtan	0.0072	135.596	135.615	0.019					0	2							0	1																			0	3	3				
3	Road	Shimla	Shimla Rural	Ranghav	528	Govt.	Charagah Bila Drakhtan	0.0096	135.577	135.589	0.012																1	1																	1	1	2			
4	Road	Shimla	Shimla Rural	Ranghav	85/1/3/1	Govt.	Charagah Bila Drakhtan	0.0636	134.660	134.719	0.059										0	1	0	2			0	1	0	1															0	5	5			
5	Road	Shimla	Shimla Rural	Ranghav	33/1/3/1	Govt.	Charagah Bila Drakhtan	0.0853	134.290	134.425	0.135								2	1				0	1																			2	2	4				
6	Road	Shimla	Shimla Rural	Ranghav	36/3	Govt.	Charagah Bila Drakhtan	0.0270	134.309	134.330	0.021										0	1			0	1																			0	2	2			
7	Road	Shimla	Shimla Rural	Ranghav	31/2/1	Govt.	Charagah Bila Drakhtan	0.1834	134.188	134.300	0.112							0	1																										0	1	1			
8	Road	Shimla	Shimla Rural	Chadau	703/1/1	Govt.	Charagah Drakhtan	0.0318	138.182	138.203	0.021									0	2	1	2																						1	4	5			
9	Road	Shimla	Shimla Rural	Up Mahal Majhar	209	Govt.	Charagah	0.0170	139.800	139.820	0.020	0	1																																0	1	1			
10	Road	Shimla	Shimla Rural	Up Mahal Majhar	210/1/2	Govt.	Charagah	0.1303	139.821	139.900	0.079			5	9	0	1																											5	10	15				
11	Road	Shimla	Shimla Rural	Up Mahal Majhar	534/1/1	Govt.	Charagah	0.0348	140.706	140.755	0.049							0	1																										0	1	1			
12	Road	Shimla	Shimla Rural	Jalf	1/1/1	Govt.	Charagh Bila Drakhtan	0.0870	143.600	143.601	0.001							0	1																										0	1	1			
13	D2	Shimla	Shimla Rural	Shogi	798/2/1	Govt.	Charagah Drakhtan	1.8127	130.482	130.689	0.207								36	179			203	113			6	0	0	2	0	1	26	63	0	1	0	2	0	1					271	362	633			
14	D2	Shimla	Shimla Rural	Shogi	842	Govt.	Charagh Bila Drakhtan	0.0856	130.836	130.879	0.043								2	24			5	1				0	1																7	26	33			
15	D2	Shimla	Shimla Rural	Goru Kanawan	152/1	Govt.	Charagah Drakhtan	0.6025	130.624	130.860	0.236			1	2			3	16	3	1	411	205				1	1	1	1			9	37							0	6	0	1	429	270	699			
16	D3	Shimla	Shimla Rural	Mauri	989/3/1	Govt.	Charagah Drakhtan	0.3271	132.055	132.244	0.236							22	176																									22	176	198				
17	D3	Shimla	Shimla Rural	Mauri	993/2/1	Govt.	Charagh Bila Drakhtan	0.2129	132.265	132.375	0.110								4	1	0	1			3	1				0	1							0	1					7	5	12				
18	D5	Shimla	Shimla Rural	Yaan	64/1	Govt.	Charagah Drakhtan	0.0701	136.792	136.807	0.015								3	6							0	1	0	2															3	9	12			
19	D6	Shimla	Shimla Rural	Up Mahal Majhar	718/1	Govt.	Gairmumkin Khad	1.0912	140.024	140.159	0.135								3	27																									33	11	36	38	74	
20	D8	Shimla	Shimla Rural	Up Mahal Gusan	332/1	Govt.	G.M. Nala	0.0434	142.578	142.679	0.101				3	8	0	1			0	1	0	2																					3	3	6	15	21	
												Grand Total		817	1191																																	2008		

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



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

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


**Date of Proposal:** 13<sup>th</sup> January 2022

### UNDERTAKING FOR TREE FELLING IN DUMPING SITES


The undersigned, on behalf of National Highways Authority of India hereby undertake that 1682 Nos Trees enumerated in the forest land for Muck Disposal sites shall not be felled.

**Date:** 01.03.2023

**Place:** Shimla

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

सहायक (संकल्प) / GM(T.)  
एवं परियोजना निदेशक / & Project Director  
भारत.रा.प्रा. / N.H.A.I.  
प.का.ई. - शिमला (हि०प्रा०) / PIU-Shimla (H.P.)

  
**Divisional Forests Officer  
Shimla Forest Division  
Divisional Forest Officer  
Shimla Forest Division  
SHIMLA**

महाप्रबंधक (तकनीकी) / GMT)  
एवं परियोजना निदेशक & Project Director  
भारतायां / NHAI  
ए.का.ई. - दिल्ली (डिप्टो) / PWD, India (M.F.)



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

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

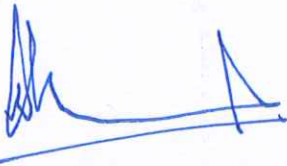
**Date of Proposal:** 13<sup>th</sup> January 2022

### UNDERTAKING FOR TREE FELLING OF PROW

The undersigned, on behalf of National Highways Authority of India hereby undertake that user agency shall accept the recommendation of the committee to be constituted under the chairmanship of DFO Shimla as proposed in reference of felling of trees in the PROW.

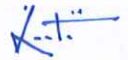
**Date:** 01/03/23

**Place:** Shimla



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



Divisional Forests Officer  
Shimla Forest Division  
Divisional Forest Officer  
Shimla Forest Division  
SHIMLA

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

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

**Date of Proposal:** 13<sup>th</sup> January 2022

### UNDERTAKING FOR TANSLOCATION OF SAPLINGS

The undersigned, on behalf of National Highways Authority of India, hereby undertake that the User Agency along with the Forest Department shall explore the possibility of translocation of the saplings before execution of the project from PRow and Dumping Sites.

**Date:**

01/03/23

**Place:** Shimla



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



Divisional Forests Officer  
Shimla Forest Division  
Divisional Forest Officer  
Shimla Forest Division  
SHIMLA



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

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

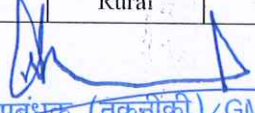
**Date of Proposal:** 13 Jan 2022

**Total Forest Area - Shimla Forest Division**

Sr. No	Type	District	Taluka	Village	Khasra No	Type of Land	Nature of Land	Area in Hect.	Chainage	
									Start	End
1	Road	Shimla	Shimla Rural	Shogi	837/1	Govt.	G.M. Nala	0.0595	130.606	130.866
2	Road	Shimla	Shimla Rural	Shogi	839/1	Govt.	Charagh Bila Drakhtan	0.0578	130.888	130.916
3	Road	Shimla	Shimla Rural	Shogi	922/2/1	Govt.	G.M Rasta	0.0064	131.208	131.216
4	Road	Shimla	Shimla Rural	Shogi	939/2/1	Govt.	Charagh Drakhtan	0.0340	131.217	131.238
5	Road	Shimla	Shimla Rural	Shogi	981/2	Govt.	G.M. Nala	0.0110	131.315	131.324
6	Road	Shimla	Shimla Rural	Shogi	981/3/1	Govt.	G.M. Nala	0.0010		
7							<b>Total</b>	<b>0.1697</b>		
8	Road	Shimla	Shimla Rural	Mauri	985/3/1	Govt.	Charagh Drakhtan	0.0480	131.900	131.980
9	Road	Shimla	Shimla Rural	Mauri	985/3/2	Govt.	Charagh Drakhtan	0.0012		
10	Road	Shimla	Shimla Rural	Mauri	855/2/1	Govt.	Charagh Bila Drakhtan	0.0035	132.722	132.735
11	Road	Shimla	Shimla Rural	Mauri	855/3	Govt.	Charagh Bila Drakhtan	0.0090		
12	Road	Shimla	Shimla Rural	Mauri	856/2/1	Govt.	Charagh Bila Drakhtan	0.0033	132.714	132.754
13	Road	Shimla	Shimla Rural	Mauri	920/2/1	Govt.	Charagh Drakhtan	0.0189		
14							<b>Total</b>	<b>0.0839</b>		
15	Road	Shimla	Shimla Rural	Bhog	1485/1/1	Govt.	Charagh Drakhtan	0.3174	133.096	133.181
16	Road	Shimla	Shimla Rural	Bhog	1503/1/1	Govt.	G.M. Nala	0.0410	132.916	132.958
17							<b>Total</b>	<b>0.3584</b>		


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

Sr. No	Type	District	Taluka	Village	Khasra No	Type of Land	Nature of Land	Area in Hect.	Chainage	
									Start	End
18	Road	Shimla	Shimla Rural	Bharob	455/1	Govt.	G.M. Rasta	0.0032	134.170	134.190
19							<b>Total</b>	<b>0.0032</b>		
20	Road	Shimla	Shimla Rural	Ranghav	517/1	Govt.	Charagah Bila Drakhtan	0.0072	135.596	135.615
21	Road	Shimla	Shimla Rural	Ranghav	527	Govt.	G.M. Khahal	0.0054	135.579	135.590
22	Road	Shimla	Shimla Rural	Ranghav	528	Govt.	Charagah Bila Drakhtan	0.0096	135.577	135.589
23	Road	Shimla	Shimla Rural	Ranghav	85/1/3/1	Govt.	Charagah Bila Drakhtan	0.0636	134.660	134.719
24	Road	Shimla	Shimla Rural	Ranghav	85/1/2/1	Govt.	Charagah Bila Drakhtan	0.0232		
25	Road	Shimla	Shimla Rural	Ranghav	33/1/3/1	Govt.	Charagah Bila Drakhtan	0.0853	134.290	134.425
26	Road	Shimla	Shimla Rural	Ranghav	34/4	Govt.	G.M. Rasta	0.0078	134.303	134.352
27	Road	Shimla	Shimla Rural	Ranghav	36/3	Govt.	Charagah Bila Drakhtan	0.0270	134.309	134.330
28	Road	Shimla	Shimla Rural	Ranghav	32/2/1	Govt.	G.M. Kuhal	0.0050	134.285	134.305
29	Road	Shimla	Shimla Rural	Ranghav	31/2/1	Govt.	Charagah Bila Drakhtan	0.1834	134.188	134.300
30	Road	Shimla	Shimla Rural	Ranghav	.1/2/1	Govt.	G.M. Rasta	0.0032	134.188	134.193
31	Road	Shimla	Shimla Rural	Ranghav	.2/2/1	Govt.	Charagah Drakhtan	0.0087	134.158	134.187
32							<b>Total</b>	<b>0.4294</b>		
33	Road	Shimla	Shimla Rural	Bhad	206/2	Govt.	G.M. Rasta	0.0042	136.890	136.893
34	Road	Shimla	Shimla Rural	Bhad	221/2/1	Govt.	G.M. Rasta	0.0048	136.980	136.991
35							<b>Total</b>	<b>0.0090</b>		
36	Road	Shimla	Shimla Rural	Chadau	703/1/1	Govt.	Charagah Drakhtan	0.0318	138.182	138.203
37							<b>Total</b>	<b>0.0318</b>		
38	Road	Shimla	Shimla Rural	Pujarli	742/2/1	Govt.	G.M. Rasta	0.0016	139.478	139.489
39	Road	Shimla	Shimla Rural	Pujarli	749/2/1	Govt.	G.M. Sadak	0.0028	139.570	139.584
40	Road	Shimla	Shimla Rural	Pujarli	755/1	Govt.	G.M. Rasta	0.0010	139.778	139.784

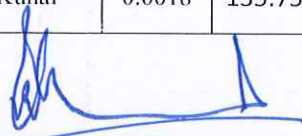
  
 महाप्रबंधक (तकनीकी) / GM(T.)  
 एवं परियोजना निदेशक / & Project Director  
 भारा रा. प्रा. / N.H.A.I.  
 प.का.ई. - शिमला (हि०प्र०) / PIU-Shimla (H.P.)



Sr. No	Type	District	Taluka	Village	Khasra No	Type of Land	Nature of Land	Area in Hect.	Chainage	
									Start	End
41							<b>Total</b>	<b>0.0054</b>		
42	Road	Shimla	Shimla Rural	Up Mahal Majhar	209	Govt.	Charagah	0.0170	139.800	139.820
43	Road	Shimla	Shimla Rural	Up Mahal Majhar	210/1/2	Govt.	Charagah	0.1303	139.821	139.900
44	Road	Shimla	Shimla Rural	Up Mahal Majhar	211/1/1	Govt.	G.M Sadak	0.0148	139.887	139.921
45	Road	Shimla	Shimla Rural	Up Mahal Majhar	211/1/2	Govt.	G.M Sadak	0.0119		
46	Road	Shimla	Shimla Rural	Up Mahal Majhar	214/1/1	Govt.	Charagah	0.0192	139.902	139.940
47	Road	Shimla	Shimla Rural	Up Mahal Majhar	534/1/1	Govt.	Charagah	0.0348	140.706	140.755
48	Road	Shimla	Shimla Rural	Up Mahal Majhar	541/1/1	Govt.	Charagah	0.0196	140.581	140.629
49							<b>Total</b>	<b>0.2476</b>		
50	Road	Shimla	Shimla Rural	Jalf	2/1/1	Govt.	G.M Rasta	0.0060	143.596	143.601
51	Road	Shimla	Shimla Rural	Jalf	1/1/1	Govt.	Charagh Bila Drakhtan	0.0870	143.600	143.601
52							<b>Total</b>	<b>0.0930</b>		
53	Road	Shimla	Shimla Rural	Mehli	1114/1/1	Govt.	Charagah Drakhtan	1.0822	145.140	145.592
54	Road	Shimla	Shimla Rural	Mehli	1072/3/1	Govt.	Charagh Drakhtan	0.7475	145.100	145.265
55							<b>Total</b>	<b>1.8297</b>		
56	D2	Shimla	Shimla Rural	Shogi	798/2/1	Govt.	Charagah Drakhtan	1.8127	130.482	130.689
57	D2	Shimla	Shimla Rural	Shogi	939/3/1	Govt.	Charagah Drakhtan	0.0047	131.217	131.238
58	D2	Shimla	Shimla Rural	Shogi	940/2/1	Govt.	G.M. Nala	0.0038	131.235	131.247
59	D2	Shimla	Shimla Rural	Shogi	940/3/1	Govt.	G.M. Nala	0.0014		
60	D2	Shimla	Shimla Rural	Shogi	842	Govt.	Charagh Bila Drakhtan	0.0856	130.836	130.879
61							<b>Total</b>	<b>1.9082</b>		


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

Sr. No	Type	District	Taluka	Village	Khasra No	Type of Land	Nature of Land	Area in Hect.	Chainage	
									Start	End
62.	D2	Shimla	Shimla Rural	Goru Kanawan	152/1	Govt.	Charagah Drakhtan	0.6025	130.624	130.860
63	D2	Shimla	Shimla Rural	Goru Kanawan	125/1	Govt.	G.M. Nala	0.0595	130.622	130.831
64							<b>Total</b>	<b>0.6620</b>		
65	D3	Shimla	Shimla Rural	Mauri	989/2/1	Govt.	Charagah Drakhtan	0.0385	132.055	132.244
66	D3	Shimla	Shimla Rural	Mauri	989/3/1	Govt.	Charagah Drakhtan	0.3271		
67	D3	Shimla	Shimla Rural	Mauri	993/2/1	Govt.	Charagah Bila Drakhtan	0.2129	132.265	132.375
68							<b>Total</b>	<b>0.5785</b>		
69	D5	Shimla	Shimla Rural	Yaan	64/1	Govt.	Charagah Drakhtan	0.0701	136.792	136.807
70	D5	Shimla	Shimla Rural	Yaan	254/1	Govt.	G.M Nala	0.0360	136.784	136.792
71							<b>Total</b>	<b>0.1061</b>		
72	D6	Shimla	Shimla Rural	Up Mahal Majhar	718/1	Govt.	Gairmumkin Khad	1.0912	140.024	140.159
73							<b>Total</b>	<b>1.0912</b>		
74	D8	Shimla	Shimla Rural	Up Mahal Gusan	332/1	Govt.	G.M. Nala	0.0434	142.578	142.679
75							<b>Total</b>	<b>0.0434</b>		
76	T-1	Shimla	Shimla Rural	Shoghi	798/2/2/1	Govt.	Charagah Drakhtan	0.5845	130.482	130.689
77							<b>Total</b>	<b>0.5845</b>		
78	T-2	Shimla	Shimla Rural	Kot	1/1	Govt.	Charagah Drakhtan	0.0380	136.068	136.108
79	T-2	Shimla	Shimla Rural	Kot	2/1	Govt.	Charagah Bila Drakhtan	0.1504	136.054	136.117
80	T-2	Shimla	Shimla Rural	Kot	3/1	Govt.	Charagah Bila Drakhtan	0.0276	135.874	135.885
81	T-2	Shimla	Shimla Rural	Kot	4/1	Govt.	Charagah Bila Drakhtan	0.1256	135.863	135.896
82	T-2	Shimla	Shimla Rural	Kot	8/1	Govt.	Charagah Drakhtan	0.3056	135.740	135.820
83	T-2	Shimla	Shimla Rural	Kot	9/1	Govt.	G.M.Kuhal	0.0018	135.755	135.759

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



Sr. No	Type	District	Taluka	Village	Khasra No	Type of Land	Nature of Land	Area in Hect.	Chainage	
									Start	End
84	T-2	Shimla	Shimla Rural	Kot	17	Govt.	G.M.Chashma Pani	0.0038	135.751	135.761
85	T-2	Shimla	Shimla Rural	Kot	19/1	Govt.	G.M.Nala	0.0061	135.748	135.756
86	T-2	Shimla	Shimla Rural	Kot	84/1	Govt.	Charagah Bila Drakhtan	0.0620	135.806	135.832
87							<b>Total</b>	<b>0.7209</b>		
88	T-2	Shimla	Shimla Rural	Ranghav	506/2/1	Govt.	Charagah Bila Drakhtan	0.1957	135.622	135.803
89	T-2	Shimla	Shimla Rural	Ranghav	514/2/1	Govt.	G.M Rasta	0.0050	135.613	135.615
90							<b>Total</b>	<b>0.2007</b>		
91	T-2	Shimla	Shimla Rural	Banadi	760/1	Govt.	Charagah Bila Drakhtan	0.2983	136.076	136.163
92	T-2	Shimla	Shimla Rural	Banadi	762	Govt.	Charagah Bila Drakhtan	0.0901	136.117	136.180
93	T-2	Shimla	Shimla Rural	Banadi	763/1	Govt.	Charagah Bila Drakhtan	0.2338	136.173	136.221
94							<b>Total</b>	<b>0.6222</b>		
95	T-2	Shimla	Shimla Rural	Bhad	100/1	Govt.	Charagah Bila Drakhtan	1.9520	136.123	136.494
96	T-2	Shimla	Shimla Rural	Bhad	105	Govt.	G.M Rasta	0.0628	136.656	136.724
							<b>Total</b>	<b>2.0148</b>		
							<b>Grand Total</b>	<b>11.7936</b>		

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



## H.P.STATE POLLUTION CONTROL BOARD

HIM PARIVESH, PHASE-III, NEW SHIMLA-171009

HPSPCB No : 323

Date: 13/02/2023

Industry Registration ID: HP09953546

Application No : 7962543

To,

SP Singla Const. Pvt. Ltd.  
Village Pujarli, Post Office Beolia, GP Pujarli, Tehsil Shimla, District Shimla, HP 171013 HP  
Shimla  
Shimla  
171013

**Subject:** Consent to Establish u/s 25/26 of Water (Prevention & Control of Pollution) Act, 1974 and u/s 21 of Air (Prevention & Control of Pollution) Act, 1981.

With reference to your application for obtaining 'Consent to Establish' u/s 25/26 of Water (Prevention & Control of Pollution) Act, 1974 and u/s 21 of Air (Prevention & Control of Pollution) Act, 1981, you are hereby, authorized to Establish an industrial unit subject to the Terms and Conditions as mentioned in this Consent letter.

### 1. Particulars of Consent to Establish under Water Act, 1974 and Air Act, 1981 granted to the industry

Consent No.	CTE/BOTH/NEW/RO/2023/7962543
Date of issue :	13/02/2023
Date of expiry :	12/02/2024
Certificate Type :	NEW
Previous CTE/CTO No. & Validity :	

### 2. Particulars of the Industry

Name & Designation of the Applicant	HL Sharma, (Executive General Manager)
Address of Industrial premises	SP Singla Const. Pvt. Ltd., Village Pujarli, Post Office Beolia, GP Pujarli, Tehsil Shimla, District Shimla, HP 171013 HP, Shimla, Shimla-171013
Capital Investment of the Industry	187700.0 lakhs
Category of Industry	Orange
Type of Industry	2052-New highway construction project
Scale of the Industry	Micro
Office District	Shimla
Capacity	

Products (Name with quantity per day)



Name of Products	Unit	Quantity	Intermediate Product	Principal Use
Road	Number/Year	1	--	Four Laning of NH-5 from Kaithlighat to Village-Shakral - 17.465 KM

**Details of the Effluent Treatment Plant**

Type of Effluent	Capacity	Quantity
Septic Tank	22.84 KL & Soak Pit = 44.45 KLD KLD	2.7 KLD

**Mode of Disposal**

Description	Quantity(in KLD)	Method of Treatment	Method of Disposal
Domestic	2.7	Soak Pit/Septic Tank	Other

**Quantity of fuel required (in TPD) and capacity of boilers/ Furnace/Thermo heater etc.**

Type	No.of Boiler/'Heater /Evaporator/Incinerator/D G Set/Other	Capacity	Type of Boiler/'Heater s/Evaporators /Incinerator/D GSets/Others	Type of Fuel	Fuel consumption rate in MT/hour or KL/hour or M3 /hour
Others	-	-	-	-	-



Approved By  
Chairman  
( H. P. State Pollution Control Board)

Endst. No.:

Copy To:-

1. The Regional Officer, HPSPCB, Shimla for information and to ensure the operation of the unit as per consent conditions & with adequate pollution control devices.

Digitally signed  
by APOORV  
DEVGAN  
Date: 2023.02.14  
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Apoorv Devgan, IAS



**Member Secretary  
For & on behalf of  
( H. P. State Pollution Control Board)**



## TERMS AND CONDITIONS

### A. SPECIFIC CONDITIONS

1. This Consent to Establish is only for the purpose and under the provision of Water Act, 1974 and Air Act, 1981 as the case may be, and will not construed as substitute for mandatory clearances required for the project under any other law/regulation/direction/order and the applicant shall obtain any such mandatory clearance before taking any steps to establish industry/ industrial plant, operation or process or any treatment and disposal system or an extension or addition thereto.
2. Nothing in this Consent shall be deemed to neither preclude the institution of any legal action nor relieve the applicant from any responsibilities, liabilities or penalties to which the applicant is or may be subjected to under this or any other Act.
3. The unit shall apply for further extension in the validity of the Consent to Establish, at least two months before the expiry of this 'Consent to Establish', if applicable.  
or  
The unit shall obtain prior Consent to Operate from the State Board, before starting operational activity and gets its completion plan approved by the Competent Authority (As applicable).
4.
  - i) The unit shall made provisions for the compliance of Waste Management Rules i.e. Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016/ Plastic Waste Management Rules, 2016/ E-Waste (Management) Rules, 2016/Construction & Demolition Waste Management Rules, 2016 and Manufacture, Storage & Import of Hazardous Chemical Rules, 1989 and provisions made thereunder, as amended from time to time, without any adverse effect on the environment, in any manner (As Applicable)
  - ii) The unit shall made provisions for the compliance Solid Waste Management Rules, 2016 and provisions made thereunder and unit shall also not practice burning activity of solid waste/waste generated from fuel within/outside premises, to avoid public nuisance.
5. This 'Consent to Establish' is for:-
  - i) The emissions from all sources conforming to the norms as prescribed in Schedule-I of Environment (Protection) Rules, 1986 as amended from time to time.
  - ii) Noise and Ambient Air Quality shall be maintained within Ambient Air Quality Standards for noise as specified in Schedule-III of Environment (Protection) Rules, 1986 and Noise Pollution (Regulation and Control) Rules, 2000, as amended from time to time.
  - iii) The effluent (Domestic/Industrial) shall conform to the limits as prescribed in Schedule-I or Schedule-VI or Industry specific standards of Environment (Protection) Rules, 1986 as amended from time to time.
  - iv) Sewage and sullage generated from the unit to be disposed-off in a properly designed septic tank system/Sewage Treatment Plant/ Public Sewer System (as applicable).
6. The unit shall install adequate pollution control devices and provide the separate energy meter and flow meter. The unit shall maintain the logbook/ record with respect to operation of pollution control devices (As applicable). The achievement of the adequacy and efficiency of the effluent treatment plant/pollution control devices/re-circulation system installed shall be the entire responsibility of the unit.
7. **CONDITIONS UNDER WATER (PREVENTION & CONTROL OF POLLUTION) ACT, 1974.**
  - a) The unit shall provide terminal manhole(s) at the end of each collection system and a manhole upstream of final outlet (s) out of the premises of the industry for measurement of flow and for taking samples.
  - b) The unit shall install flow meter and maintain the record regarding the daily water consumption.



- c) The pollution control devices shall be interlocked with the manufacturing process of the industry (if applicable) and the authorized outlet and mode of disposal shall not be changed without the prior written permission of the Board. Unit shall not use any unauthorized out-let(s) for discharging effluents from its premises.
- d) Solids, sludge, filter backwash or other pollutant removed from or resulting from treatment or control of waste waters shall be disposed-off in scientific manner.
- e) The unit shall submit a detailed plan showing therein, the distribution system for conveying wastewaters.

8. **CONDITIONS UNDER AIR (PREVENTION & CONTROL OF POLLUTION) ACT, 1981.**

- a) The unit shall provide canopy and stack of adequate height of the D.G sets so as to control the noise & air pollution in order to comply with the provision of notification No GSR-371 E dated 17-5-2002 or direction as issued by MOEF from time to time, under Environment (Protection) Act, 1986.
- b) The unit shall ensure disposal of boiler ash/fuel ash through authorized person or within premises in a scientific manner (as the case may be) and shall maintain proper record for the same, if applicable.
- c) The unit shall provide proper and adequate air pollution control arrangements for control emission from its coal/fuel handling area and emissions from handling, transportation and processing of raw material & product of the industry, as applicable.
- d) The unit shall provide port-holes, platforms and/or other necessary facilities as may be required for collecting samples of emissions from any chimney, flue or duct or any other outlets as per the specifications.

**Specifications of the port-holes shall be as under:-**

- i) The sampling ports shall be provided atleast 8 times chimney diameter downstream and 2 times upstream from the flow disturbance. For a rectangular cross section the equivalent diameter ( $D_e$ ) shall be calculated from the following equation to determine upstream, downstream distance:-  

$$D_e = 2 LW / (L+W)$$

Where L= length in mts. W= Width in mts.
- ii) The sampling port shall be 7 to 10 cm in diameter
- e) The unit shall submit a detailed plan showing therein, the distribution system for conveying wastewaters.

**(i) Stack height for boiler plants**

S.NO.	Boiler with Steam Generating Capacity	Stack heights
1.	Less than 2 ton/hr.	9 meters or 2.5 times the height of neighboring building which ever is more
2.	More than 2 ton/hr. to 5 ton/hr.	12 meters
3.	More than 5 ton/hr. to 10 ton/hr	15 meters
4.	More than 10 ton/hr. to 15 ton/hr	18 meters



5. *More than 15 ton/hr. to 20* 21 meters ton/hr
6. *More than 20 ton/hr. to 25* 24 meters ton/hr.
7. *More than 25 ton/hr. to 30* 27 meters ton/hr.
8. *More than 30 ton/hr.* 30 meters or using the formula  
 $H = 14 Q_g^{0.3}$  or  
 $H = 74 (Q_p)^{0.24}$   
 Where  $Q_g$  = Quantity of SO<sub>2</sub> in Kg/hr.  
 $Q_p$  = Quantity of particulate matter in Ton/day.

**Note :** Minimum Stack height in all cases shall be 9.0 mtr. or as calculated from relevant formula whichever is more.

(ii) For industrial furnaces and kilns, the criteria for selection of stack height would be based on fuel used for the corresponding steam generation.

(iii) Stack height for diesel generating sets:

Capacity of diesel generating set	Height of the Stack	
0-50 KVA	Height of the building	+ 1.5 mt
50-100 KVA	-do-	+ 2.0 mt.
100-150 KVA	-do-	+ 2.5 mt.
150-200 KVA	-do-	+ 3.0 mt.
200-250 KVA	-do-	+ 3.5 mt.
250-300 KVA	-do-	+ 3.5 mt.

**For higher KVA rating stack height H (in meter) shall be worked out according to the formula:**

$$H = h + 0.2 (KVA)^{0.5}$$

where h = height of the building in meters where the generator set is installed.

9. The unit shall submit on-site and off-site emergency plan approved by the Chief Inspector of Factories, Himachal Pradesh (If applicable)
10. The unit shall provide real time online monitoring equipment's and provisions for the uninterrupted transfer of data as per guidelines of CPCB (if applicable).
11. The unit shall provide adequate arrangements for fighting the accidental leakages/ discharge of any air pollutant/gas/liquids from the vessels, mechanical equipment's etc. which are likely to cause environmental pollution.
12. The unit shall plant minimum three layer of trees so far possible as per plantation guide (may be download from the website <http://hppcb.nic.in/plantationguide.pdf>) all along the boundary of the industrial premises and check air/water/noise pollution at source.
13. Any guidelines issued by the Central Government/State Government/MoEF/CPCB/SPCB/any other authority concerned, shall be binding.
14. This 'Consent to Establish' is subject to orders on any litigation pending in any Court of Law. Any direction/order issued by any court shall be binding (if any).
15. The Board reserves the right to revoke the 'Consent to Establish' granted to the industry at any time, in case the industry is found violating the provisions of Water (Prevention & Control of Pollution) Act, 1974 and Air (Prevention & Control of Pollution) Act, 1981 as amended from time to time.
16. The unit shall comply with any other conditions laid down or directions issued in due course by the Board under the provisions of the Water (Prevention & Control of Pollution) Act, 1974 and Air (Prevention & Control of Pollution) Act, 1981.

## **B. OTHER CONDITIONS**

1. The unit shall comply with the conditions imposed by the MoEF/State Level Environment Impact Assessment Authority/ District Level Environment Impact Assessment Authority in the environmental clearance granted to it as required under EIA notification dated 14-9-06, if applicable.
2. The issuance of this consent does not convey any property right in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Central, State or Local Laws or Regulations.
3. Stone Crusher units shall comply with the provisions of guidelines notified by the State Government vide Notification No. STE-E(3)-11/2012, dated 29-05-2014 (If Applicable).
4. Brick Kiln units shall comply with the provisions of guidelines notified by the MoEF vide Notification No. G.S.R.233.(E), dated-15-03-2018 and by the State Government vide Notification No. STE-E(5)-6/2013, dated-07-03-2014 (If Applicable).
5. Hydroelectric Projects shall install Online Real Time Monitoring System for the measurement of 15% of minimum discharge in lean season as per orders of Court/Government. The unit shall also ensure provisions for the regular and uninterrupted transfer of data from the real time online monitoring system for 15% of minimum discharge of flow to SPCB, failing which unit shall be liable for action on account of violation of the directions issued by Court/Government/SPCB in this regard (If Applicable).
6. Unit shall strictly adhere to the capacity approved by the Industries Department/ Department of Tourism & Civil Aviation/any other concerned Authority (As Applicable).
7. The unit shall not cause any nuisance/traffic hazard in vicinity of the area.
8. The unit shall ensure that there will not be significant visible dust emissions beyond the property line.
9. The unit shall obtain and submit Insurance cover as required under the Public Liability Insurance Act, 1991.
10. The unit shall put display Board indicating environmental data in the prescribed format at the main entrance gate.
11. The unit shall maintain record regarding the operation of effluent treatment plant i.e. record of quantity of chemicals and energy utilized for treatment and sludge generated from treatment so as to satisfy the Board regarding regular and proper operation of pollution control equipment.
12. Any amendments/revisions made by the Board/CPCB/MOEF in the emission/stack height standards shall be applicable to the industry from the date of such amendments/revisions.

#### **C. SPECIAL CONDITIONS**

1. Unit shall ensure proper disposal of muck generated.
2. This consent of the State Board shall be only for the purpose and under the provisions of the Water Act, 1974, Air Act, 1981 shall not be considered as substitute or pre-requisite clearances required from other departments.
3. This consent is subject to ratification of State Board or any litigation pending at any Court of Law.
4. Pollution Control devices provided by the unit shall comply with norms as prescribed under Environment protection rules, 1986.



**By Order**



Chairman  
( H. P. State Pollution Control Board)

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

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

**Date of Proposal:** 13<sup>th</sup> January 2022

### UNDERTAKING FOR RAILWAY NOC

The undersigned, on behalf of National Highways Authority of India, hereby undertake that the NOC from Railway authorities of Kalka-Shimla Heritage Railway line shall be obtained for the project and submitted before Stage-II approval.

**Date:** 01/03/23

**Place:** Shimla



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



Divisional Forests Officer  
Shimla Forest Division  
Divisional Forest Officer  
Shimla Forest Division  
SHIMLA



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

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

**Date of Proposal:** 13<sup>th</sup> January 2022

### UNDERTAKING FOR SEASONAL STREAMS

The undersigned, on behalf of National Highways Authority of India, hereby undertake that the recharge point of the seasonal streams and springs shall be taken due care from the disturbance, and sufficient measures shall be adopted to preserve the sources of these natural springs/streams and their flow.

**Date:**

01/03/23

**Place:** Shimla



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

एवं परियोजना निदेशक / & Project Director

भारत सरकार / N.H.A.I.

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



Divisional Forest Officer  
Shimla Forest Division  
SHIMLA