



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन एवं राजमार्ग मंत्रालय, भारत सरकार)

National Highways Authority of India

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

क्षेत्रीय कार्यालय (उत्तराखण्ड) - मकान नं-58/37, बलबीर रोड, देहरादून- 248001

Regional Office (Uttarakhand) - House No.-58/37, Balbir Road, Dehradun- 248 001

Phone : 0135-2669752 & 62 E-mail : routtarakhand@nhai.org Website : www.nhai.gov.in



उत्तराखण्ड/NHAI/RO-UKD/2014/19337

October, 12, 2023

Invitation of Public Comments

Sub:-Four laning of NaginaKashipur section of NH-74 from Km.73.000 (Design Chainage Km.71.614) to Km.175.00 (Design Chainage Km.170.407) in the state of Uttar Pradesh under NHDP-IV on EPC mode.

S.H:-Application of M/s KRTL for crossing of 400KV D/C Khandukhal-Rampura overhead transmission line at Ch.106+950 to Ch.163+920 of NH-74 of NaginaKashipur section in Tehsil Dhampur, Distt. Bijnor and Tehsil Kashipur, Distt.-Uddham Singh Nagar in the state of Uttar Pradesh and Uttarakhand respectively-reg.

It is to inform all concerned that M/s Khandukhal Rampura Transmission Limited has submitted the subject proposal to PIU-Najibabad for grant of permission towards crossing of newly constructed 400KV D/C Khandukhal-Rampura overhead transmission line at Ch.106+950 to Ch.163+920 of NH-74 (New NH-734/309) of NaginaKashipur section in Tehsil Dhampur, Distt. Bijnor and Tehsil Kashipur, Distt.-Uddham Singh Nagar in the state of Uttar Pradesh and Uttarakhand respectively.

2. The submitted proposal has been recommended by PIU vide Note#1-2 of e-office no. 223512 dt. 05.10.2023 & following are submitted w.r.t instant proposal (copy enclosed)

(i)	National Highway	NH-74 (New NH-734)	NH-74 (New NH-734)
(ii)	Name of Transmisison line	400KV D/C Khandukhal-Rampura overhead transmission line	400KV D/C Khandukhal-Rampura overhead transmission line
(iii)	Crossing Chainage	Ch.106+950 of NH-74	Ch.163+970 of NH-74
(iv)	Position of towers	Outside to NH RoW (55m LHS, 61m RHS)	Outside to NH RoW (105m LHS & 88m RHS)
(v)	Crossing Span	231m	193m
(vi)	Clearance over the road level	19.47m	18.13m

3. As per the Guidelines issued by Ministry vide OM No. RW/NH-33044/29/2015S&R(R) dated 22.11.2016, the application is to put out in the public domain for 30 days for seeking public comments/objections (on the ground of public inconvenience, safety and general public interest).

In view of the above, comments/objections of the public on the above application are invited to the below mentioned address, which should reach by this office within 30days from the date of uploading beyond which no comments shall be entertained.

The Regional Officer,
National Highways Authority of India
(Ministry of Road, Transport & Highways)
Regional Office-Uttarakhand

House No.-58/37, Balbir Road, Dehradun-248001

This is being issued with the approval of C.G.M(Tech.) cum Regional Officer-Uttarakhand.

Yours faithfully,

(S. K. Mecha)

Manager (Tech.)

For Regional Officer-Uttarakhand

Encl: As above.

Copy to: 1) Web Admin-NHAI HQ, New Delhi: - with request for uploading on NHAI website.

2) The Technical Director, NIC, Transport Bhawan, New Delhi: - with request for uploading on Ministry's Website.

3) PD, PIU-Najibabad- for information & suitable necessary action.


JOINT SITE INSPECTION REPORT

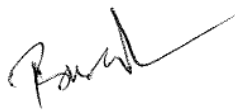
Date of site visit :	22-05-2023
Place/site of Visit :	Kashipur bypass at Km.163+ 920 of NH- 74 (Village- Dabhura Mustahkam, Tehsil- Kashipur)
Purpose of visit :	Inspection for Site feasibility (between AP242 to AP243)
Scope of Work :	National Highway Crossing by 400KV Transmission Line
Executing Agency :	M/s Khandukhal Rampura Transmission Limited
Representative of Executing Agency	Mr. Brij Kishore Singh
Name of Client	National Highway Authority of India, PIU- Najibabad.
Representative from Client side/NHAI	Mr. Vinod Uniyal

PARAMETER	Unit	Proposed	Actual/on side	Remark
Distance from Towers	Meters	105 (LHS) & 88 (RHS)	Same	As per demarcation of applicant on site, distance of LHS & RHS Tower was found 105m & 88m respectively from the centre of existing 4- lane road.
Crossing Span	Meters	193	Same	During site visit it is observed that the crossing span of HT line is similar as submitted drawing.
Tower Height	Meters	55m (BHS)	-	The falling distance of the tower is outside of the ROW hence site is feasible.
Vertical clearance from existing road Top surface to lowest conductor	Meters	18.13	-	As per submitted drawing, the vertical clearance is sufficient therefore site is feasible.

NOTE- Activity of crossing i.e. Stringing work shall be executed only after getting final approval from NHAI and non compliance of the same, Competent Authority will be free for take any action against to owing agency.


Mr. Brij Kishore Singh
 Project Manager
 M/s Khandukhal Rampura Transmission Limited

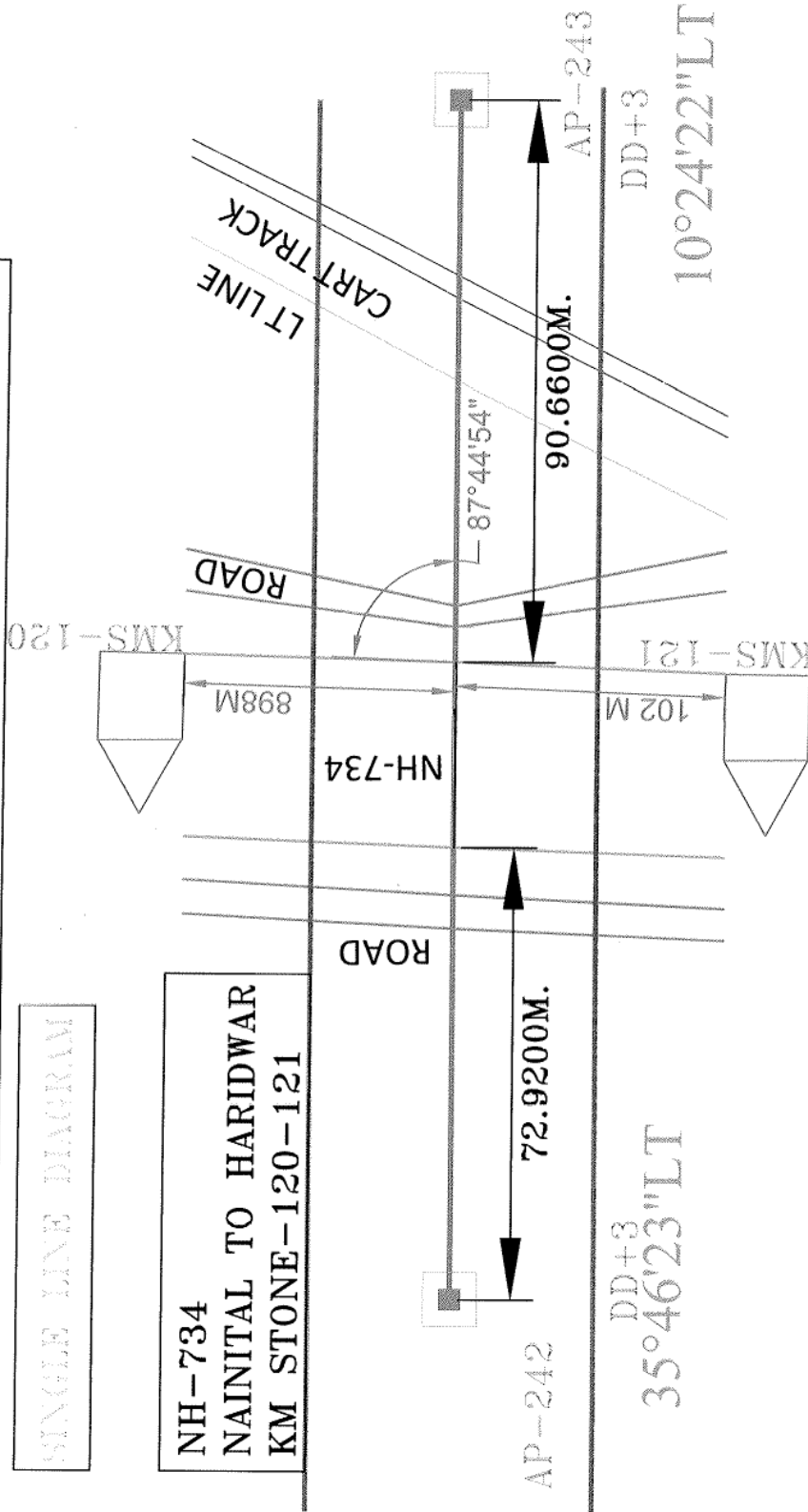

Vinod Uniyal
 Site Engineer
 NHAI, PIU- Najibabad

CHECK LIST		
FOR NH ROAD CROSSING BY 400kV D/C KHANDUKHAL (SRINAGAR)- RAMPURA (KASHIPUR) TRANSMISSION LINE		
NAME OF TRANSMISSION LINE : 400kV D/C KHANDUKHAL (SRINAGAR)- RAMPURA (KASHIPUR) TRANSMISSION LINE		
SL. NO.	DESCRIPTION	DETAILS
1	NATIONAL HIGHWAY NO.	NH-734
2	CROSSING LINE NAME	400kV D/C KHANDUKHAL (SRINAGAR)- RAMPURA (KASHIPUR) TRANSMISSION LINE
3	CROSSING CHINAGE	101930M (km 163+920)
4	SYSTEM OF SUPPLY (e.i VOLTAGE, FREQUENCY NO. OF PHASE, WHETHER NEUTRAL IS EARTHED OR NOT)	400kV D/C HTLS ACSS Twin Conductor with OPGW
5	POSITION OF TOWER	Tower Location AP242 : DD+3 (35°46'23"LT) Tower Location AP243 : DD+3 (10°24'22"LT)
6	NORMAL SPAN AT HTLS ACSS CONDUCTOR	400
7	MAXIMUM SAG AT NORMAL SPAN	14.66Mtr.
8	CROSSING SPAN	194Mtr.
9	PRECEEDING SPAN WITH LOCATION	395.00Mtr.
10	SUCCEEDING SPAN WITH LOCATION	351.00Mtr.
11	HEIGHT OF TOWER STRUCTURE ABOVE GROUND AND BELOW SEPERATELY AND DETAILS OF FOUNDATION	FOR LOC. NO. AP242 (DD+3) HT ABOVE GROUND LEVEL = 55.17M, FOR LOC. NO. AP243 (DD+3) HT ABOVE GROUND LEVEL = 55.17M
12	MAXIMUM SAG AT NORMAL SPAN FOR HTLS ACSS CONDUCTOR AT 177°C	14.66M
13	CLEARANCE OVER ROAD	18.13M
14	HEIGHT OF LOWER CONDUCTOR FROM GROUND LEVEL AT TOWER	18.05M (Null Point)
15	HEIGHT OF LOWER CONDUCTOR FROM LEVEL OF ROAD AT CROSSING	18.13M
16	ANGLE OF ROAD CROSSING	87°44'54"
17	DISTANCE FROM NH BOUNDARY FROM CENTRE OF TOWER	FROM AP242 (DD+3) DISTANCE=72.92M & FROM AP243 (DD+3) DISTANCE= 90.66M.
18	PERPENDICULAR DISTANCE FROM CENTRE OF TOWER TO CENTRE OF ROAD	FROM AP242 (DD+3) DISTANCE=88.04M & FROM AP243 (DD+3) DISTANCE= 105.78M
19	ANTICLIMBING DEVICE	SHOWING IN PROPOSAL
20	FOUNDATION TYPE	DD+3 & DD+3 WET
21	NO.OF STAY REQUIRED	NIL
22	MINIUM FACTOR OF SAFETY	FACTOR OF SAFETY = 2
23	SIZE OF POWER CONDUCTOR	HTLS ACSS DIAMETER (mm) =29.98, UNIT WEIGHT (Kg/m) = 1.944
24	SIZE OF OPGW	SIZE OF OPGW = 24F
25	TWO LEGS OF TOWER EARTHED	EARHING IN TWO DAIGONAL LEGS
26	PLAIN PAPER DIAGRAM	GROUND PROFILE ENCLOSED
27	EARTHING	PIPE TYPE EARTHING
FOR KHANDUKHAL RAMPURA TRANSMISSION LIMITED		FOR NATIONAL HIGHWAY AUTHORITY OF INDIA LIMITED
		

100 KV D/C KHANDUKHAL RAMPURA TRANSMISSION LINE

SINGLE LINE DIAGRAM

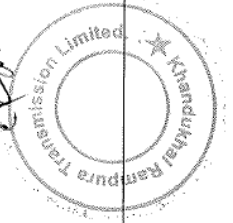
NH-734
NAINITAL TO HARIDWAR
KM STONE-120-121



FOR KHANDUKHAL RAMPURA TRANSMISSION LIMITED

NATIONAL HIGHWAY AUTHORITY OF INDIA

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Project:- 400kV D/C Khandukhal (Srinagar)- Rampura (Kashipur) Transmission Line

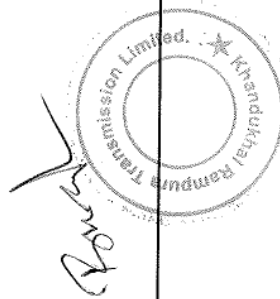
Client:- Khandukhal (Srinagar)- Rampura (Kashipur) Transmission Line

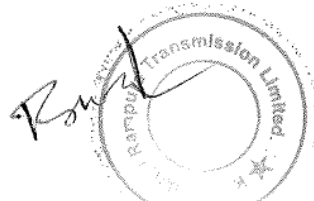
Consultant :- NeoGeoInfo Technologies Pvt. Ltd.

Sr. No.	Tower Location	TOWER TYPE	Span	Deviation Angle (Deg)	Cumm span	Wind span	Wt. Span (Cold)			Wt. Span (Hot)			Adjacent Span			X - Coordinate	Y - Coordinate	Elevation	Remarks			
							Left	Right	Total	Left	Right	Total	Left	Right	Total							
1	Loc-241/1	DA+0			101445	396	199	189	388	199	191	390	396	395	791	307256.78	3226099.20	161.27				
			395																			
2	AP-242	DD+3		35°46'23"LT	101840	294	206	92	297	204	93	297	395	194	589	307632.78	3226220.12	159.87	Road, Pond			
			194																			
3	AP-243	DD+3		10°24'22"LT	102034	272	102	174	276	101	174	275	194	351	545	307747.80	3226376.14	160.37	NH-734 NAINITAL TO HARIDWAR KM STONE-120-121, 2nos Road, LT Line. Cart Track			
			351																			
4	Loc-243/1	DA+3			102385	365	177.1	188.5	365.6	176.7	188.7	365.4	350.9	378.4	729.4	307901.61	3226691.58	160.65	11kv Line			
FOR KHANDUKHAL RAMPURA TRANSMISSION LIMITED																			FOR NATIONAL HIGHWAY AUTHORITY OF INDIA LIMITED			

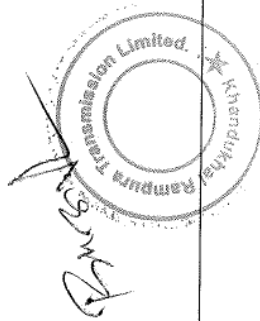
FOR KHANDUKHAL RAMPURA TRANSMISSION LIMITED

FOR NATIONAL HIGHWAY AUTHORITY OF INDIA LIMITED



CHECK LIST		
FOR NH ROAD CROSSING BY 400kV D/C KHANDUKHAL (SRINAGAR)– RAMPURA (KASHIPUR) TRANSMISSION LINE		
NAME OF TRANSMISSION LINE : 400kV KHANDUKHAL (SRINAGAR)– RAMPURA (KASHIPUR) TRANSMISSION LINE		
SL. NO.	DESCRIPTION	DETAILS
1	NATIONAL HIGHWAY NO.	NH-734
2	CROSSING LINE NAME	400kV D/C KHANDUKHAL (SRINAGAR)– RAMPURA (KASHIPUR) TRANSMISSION LINE
3	CROSSING CHINAGE	49537M (106+950)
4	SYSTEM OF SUPPLY (e.i VOLTAGE, FREQUENCY NO. OF PHASE, WHETHER NEUTRAL IS EARTHED OR NOT)	400kV D/C HTLS ACSS Twin Conductor with OPGW
5	POSITION OF TOWER	Tower Location AP210 : DD+3 (24°28'57.4"LT) Tower Location AP211: DD+9 (20°17'27.5"RT)
6	NORMAL SPAN AT HTLS ACSS CONDUCTOR	400
7	MAXIMUM SAG AT NORMAL SPAN	14.66Mtr.
8	CROSSING SPAN	231Mtr.
9	PRECEEDING SPAN WITH LOCATION	398.00Mtr.
10	SUCCEEDING SPAN WITH LOCATION	245.00Mtr.
11	HEIGHT OF TOWER STRUCTURE ABOVE GROUND AND BELOW SEPERATELY AND DETAILS OF FOUNDATION	FOR LOC. NO. AP-210(DD+3) HT ABOVE GROUND LEVEL = 55.17M, FOR LOC. NO. AP-211(DD+9) HT ABOVE GROUND LEVEL = 61.17M
12	MAXIMUM SAG AT NORMAL SPAN FOR HTLS ACSS CONDUCTOR AT 177°C	14.66M
13	CLEARANCE OVER ROAD	19.474M
14	HEIGHT OF LOWER CONDUCTOR FROM GROUND LEVEL AT TOWER	25.42M(Null Point)
15	HEIGHT OF LOWER CONDUCTOR FROM LEVEL OF ROAD AT CROSSING	19.47M
16	ANGLE OF ROAD CROSSING	77°40'33"
17	DISTANCE FROM NH BOUNDARY FROM CENTRE OF TOWER	FROM AP210 (DD+3) DISTANCE=113.720M & FROM AP211 (DD+9) DISTANCE= 92.98M.
18	PERPENDICULAR DISTANCE FROM CENTRE OF TOWER TO CENTRE OF ROAD	FROM AP210 (DD+3) DISTANCE=126.08M & FROM AP211 (DD+9) DISTANCE= 105.34M
19	ANTICLIMBING DEVICE	SHOWING IN PROPOSAL
20	FOUNDATION TYPE	DD+3 & DD+9, WET
21	NO.OF STAY REQUIRED	NIL
22	MINIUM FACTOR OF SAFETY	FACTOR OF SAFETY = 2
23	SIZE OF POWER CONDUCTOR	HTLS ACSS DIAMETER (mm) =29.98, UNIT WEIGHT (Kg/m) = 1.944
24	SIZE OF OPGW	SIZE OF OPGW = 24F
25	TWO LEGS OF TOWER EARTHED	EARCHING IN TWO DAIGONAL LEGS
26	PLAIN PAPER DIAGRAM	GROUND PROFILE ENCLOSED
27	EARTHING	PIPE TYPE EARTHING
FOR KHANDUKHAL RAMPURA TRANSMISSION LIMITED		FOR NATIONAL HIGHWAY AUTHORITY OF INDIA LIMITED
		

Project:- 400kV D/C Khandukhal (Srinagar)- Rampura (Kashipur) Transmission Line																	
Client:- Khandukhal (Srinagar)- Rampura (Kashipur) Transmission Line																	
Consultant :- NeoGeoInfo Technologies Pvt. Ltd.																	
Sr. No.	Tower Locat on	TOWER TYPE	Span	Deviation Angle (Deg)	Cumm span	Wind span	Wt. Span (Cold)		Wt. Span (Hot)		Adjacent Span		X - Coordinate	Y - Coordinate	Elevation	Remarks	
							Left	Right	Total	Left	Right	Total	Left	Right	Total		
129	Loc-209/14	DA+0			133464	388	189	186	375	189	189	378	377	398	776	3245674.05 162.66	
			398														River ,Cart Track
130	AP-210	DD+3		24°28'57.4"LT	133862	315	213	65	278	209	77	286	398	231	630	270843.47 3245371.02	162.28
			231														NH-734, 11kv Line
131	AP-211	DD+9		20°17'27.5"RT	134094	238	166	147	314	155	141	296	231	245	476	271053.09 3245272.96	162.01
			245														Raise Chimnry Proposed-1M. 132 kv D/C Line ,132kv S/C Line Tn 30-31 PTCUL 162-163
132	AP-212	DD+6		12°13'14"RT	134339	278	98	195	292	104	186	289	245	311	556	271220.40 3245094.11	162.04
																	Raise Chimnry Proposed-1M.
FOR KHANDUKHAL RAMPURA TRANSMISSION LIMITED																	
FOR NATIONAL HIGHWAY AUTHORITY OF INDIA LIMITED																	



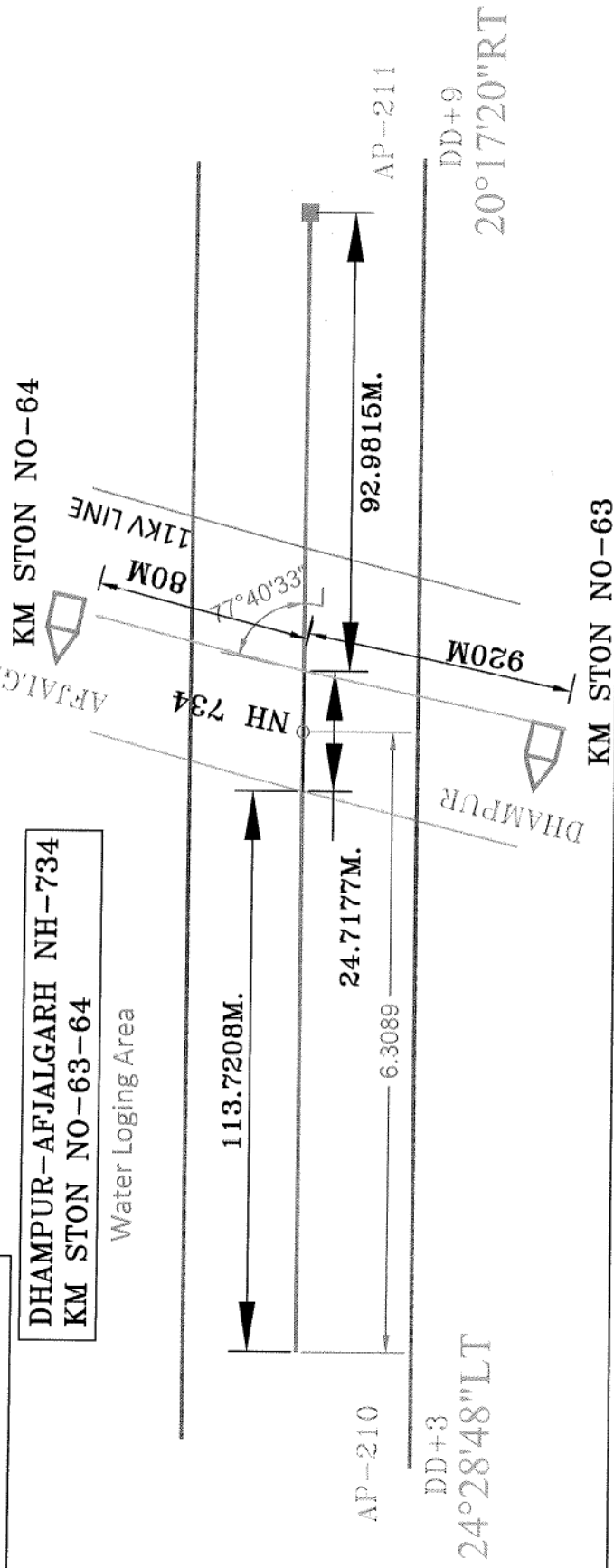
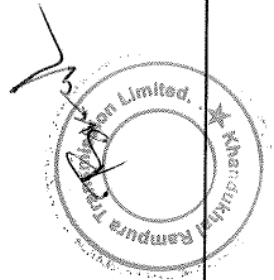
A vertical strip of 20 small, hand-drawn sketches of various geometric shapes and patterns, including circles, lines, and abstract forms.

Figure 1 consists of 15 line drawings of chick embryos at different stages of development, arranged in two columns. The left column contains drawings 1 through 10, and the right column contains drawings 11 through 15. Each drawing is labeled with a number and a brief description of the stage.

- 1. Fertilized egg
- 2. Cleavage stage
- 3. Gastrulation stage
- 4. Head stage
- 5. Head stage
- 6. Head stage
- 7. Head stage
- 8. Head stage
- 9. Head stage
- 10. Head stage
- 11. Head stage
- 12. Head stage
- 13. Head stage
- 14. Head stage
- 15. Head stage

DHAMPUR-AFJALGARH NH-734
KM STON NO-63-64

Water Logging Area

[illegible][illegible]

JOINT SITE INSPECTION REPORT

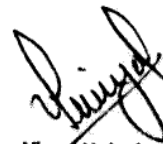
Date of site visit :	22-05-2023
Place/site of Visit :	Nagina- Kashipur road at Km.106+950 of NH- 74 (Village- Shahpur Jamal, Tehsil- Dhampur)
Purpose of visit :	Inspection for Site feasibility (between AP210 to AP211)
Scope of Work :	National Highway Crossing by 400KV Transmission Line
Executing Agency :	M/s Khandukhal Rampura Transmission Limited
Representative of Executing Agency	Mr. Brij Kishore Singh
Name of Client	National Highway Authority of India, PIU- Najibabad.
Representative from Client side/NHAI	Mr. Vinod Uniyal

PARAMETER	Unit	Proposed	Actual/on site	Remark
Distance from Towers	Meters	126.08 (LHS) & 105.34 (RHS)	Same	As per demarcation of applicant on site, distance of LHS & RHS Tower was found 126m & 105m respectively from the centre of existing 4- lane road.
Crossing Span	Meters	231	Same	During site visit it is observed that the crossing span of HT line is similar as submitted drawing.
Tower Height	Meters	55m (LHS) & 61m (RHS)	-	The falling distance of the tower is outside of the ROW hence site is feasible.
Vertical clearance from existing road Top surface to lowest conductor	Meters	19.47	-	As per submitted drawing, the vertical clearance is sufficient therefore site is feasible .

NOTE- Activity of crossing i.e. Stringing work shall be executed only after getting final approval from NHAI and non compliance of the same, Competent Authority will be free for take any action against to owing agency.



Mr. Brij Kishore Singh
Project Manager
M/s Khandukhal Rampura Transmission Limited



Vinod Uniyal
Site Engineer
NHAI, PIU- Najibabad