



सत्यमेव जयते

भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)
National Highways Authority of India
(Ministry of Road Transport & Highways, Government of India)



प.का.ई. अलीगढ़, ग्राम-भीकम्पुर, एन.एच-34 के कि०मी० 132.400 (आर०एच०एस०)
अलीगढ़ बाईपास, अलीगढ़-202001 (उ०प्र०)

PIU Aligarh, Village-Bhikampur, At KM 132.400 (RHS) on NH-34,
Aligarh Bypass, Aligarh - 202001 (U.P.)

ई-मेल/Email : aligarh@nhai.org | nhaipiubr001@gmail.com

09.12.2024

NHAI/PIU-ALG/44016/GAP/2024/D- 23178

Invitation of Public Comments

Sub: Proposal for Overhead road Crossing by 132 KV Etah(220) M/s Shree Cement Transmission Line at 220 KV S/S Etah at Chainage 228+562, location no. 40-41 on NH-34 (Aligarh – Kanpur Section), near Aaspur, District – Etah.

Executive Engineer, UPPTCL, Mainpuri submitted the proposal for permission of O/H road crossing by 132KV ETah (220) M/s Shree Cement Transmission Line at 220 KV S/S Etah at Ch.228+562, at location no. 40-41 on NH-34 (Aligarh-Kanpur Section), near Aaspur, District- Etah in the state of Uttar Pradesh.

2. From the submitted proposal, it is seen that the overhead crossing length is 46m. Distance from centre of tower to road boundary is 70.00m (LHS) and 150.00m (RHS).
3. As per the guidelines, issued by the Ministry vide OM No.RW/NH-33044/29/ 2015/ S&R(R) dated 22.11.2016, the application shall be put out in the public domain for 30 days for seeking claims and objections (on grounds of public inconvenience, safety and general public interest).
4. In view of the above, comments of the public on the above application is invited to the below mentioned address, which should reach by this office within 30 days from the date of publication beyond which no comments shall be entertained.

The Project Director,
National Highways Authority of India
Project Implementation Unit- Aligarh
Village- Bhikampur, At Km. 132.400 (RHS) on NH-34,
Aligarh Bypass, Aligarh -202001 (U.P.)

Encl: As above.


(Indresh Kumar)
Project Director

Copy to:

1. Web Admin, NHAI-HQ- with request for uploading on the NHAI website.
2. Technical Director, NIC, Transport Bhawan, New Delhi- with request for uploading on the Ministry's website. (Email: mansoor@nic.in)
3. Regional Officer (W-UP), NHAI-Lucknow for kind information.
4. Executive Engineer, UPPTCL, Mainpuri for information.
(Email: eeetdmnpri@upptcl.org).

CHECK-LIST

FOR NH -34 ROAD CROSSING BY 132 KV SC (TOWER ON DC) ETAH GANGANPUR (220 KV SS)
SHREE CEMENT FACTORY TRANSMISSION LINE

S.NO.	DESCRIPTION	DETAILS
1.	National Highway Number	NH-34 ✓
2.	Name of Crossing	Aligarh - Kanpur ✓
3.	SYSTEM OF SUPPLY (i.e VOLTAGE) FREQUENCY NO.OF PHASES, WHETHER NEUTRAL IS EARTHED OR NOT	132 KV S/C 3 phase 50 cycles A.C. AND 1 EARTHWIRE/ 24 Fiber OPGW
4.	Position of towers	BETWEEN LOC. NO.AP-21 (DC+10) & AP-22(DC+10)
5.	NORMAL SPAN AT LAPWING CONDUCTOR	380 M.
6.	MAX.SAG AT NORMAL SPAN	10.475 M.
7.	CROSSING SPAN	220 M.
8.	Preceding span	345 M.
9.	Succeeding span	290 M.
10.	Height of structure above ground and below ground separately and details of foundation	A) Location No.AP-21 (DC+10) height above GL 40.849 M ✓ depth below GL 3.00M. B) Location No.AP-22 (DC+10) height above GL 40.849 M ✓ depth below GL 3.00M
11.	SAG OF 3*3 Panther CONDUCTOR SIZE 30/3.00 + 7/3.00MM	$8.843 * (220)^2 / (380)^2 + 0.30(\text{sag error}) = 2.284$
12.	CLEARANCE OVER ROAD	20.00 M.
13.	Height above ground level of (1) Lowest conductor on insulator and (2) guard wire on bracket above ground level	20.00 M.
14.	Height of road level above ground level measured at the foot of the structure.	Location No. 21 (DC+10) = 3.60 M. ✓ Location No. 22 (DC+10) = 3.60 M ✓

S. K. Singh

Ang. S. D. (17)

R. K.
Executive Engineer
Elect. Transmission Division
Mainouri

15.	Angle of road crossing	81° 00' 00"
16.	Distance from NH Boundary From center of tower	Loc. No. 21 (DC+10) =70 M. Loc. No. .22(DC+10) = 130M
17.	Perpendicular distance from center of tower to center of road	Loc. No. 21 (DC+10) =80 M. Loc. No. 22 (DC+10) = 140M
18.	Protection of assembly to the line	Anti Climbing devices provided
19.	No. of stay required	NO.
20.	Minimum Factor of Safety	2.
21.	Size of power conductor mm.	ACSR Panther (Conductor dia.21.00 MM
22.	Size of Earth Wire/OPGW	Steel 7/3.15 (Overall Diameter - 9.45 mm)/ 24 Fiber Optic Cable
23.	FOUNDATION TYPE	FS
24.	PLAN PAPER DIAGRAM	PROFILE(ENCLOSED)
25.	EARTHING	PIPE TYPE EARTHED

S. Mohan

A. S. S. (T)

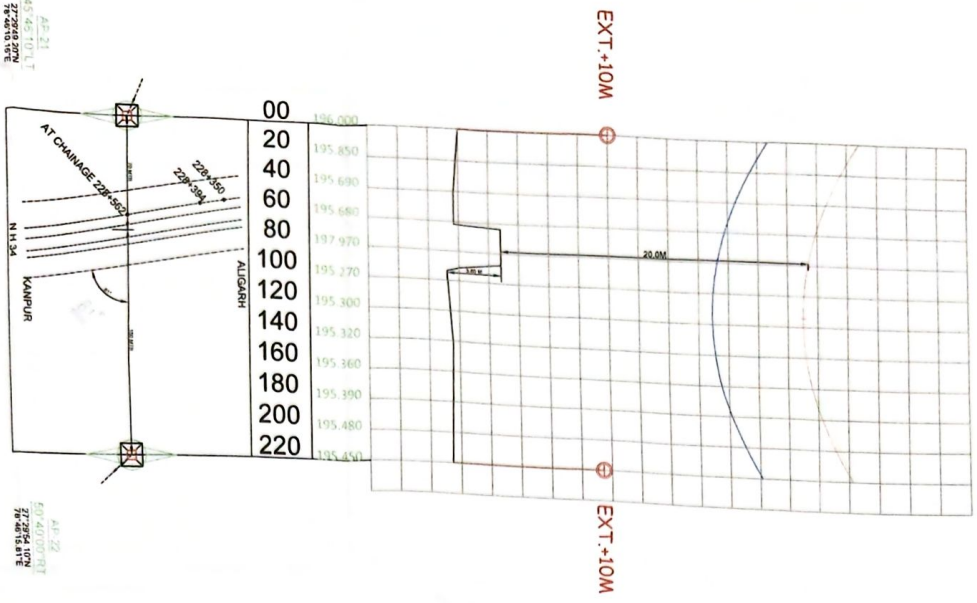
R. G.
Executive Engineer
Elect. Transmission Division
Mainpuri

**132 KV SC (TOWER ON DC) ETAH GANGANPUR(220 KV S/S) -
SHREE CEMENT FACTORY TRANSMISSION LINE.
NATIONAL HIGHWAY- 34 CROSSING PROPOSAL**

PROJLOC NO. :- 40	DC-10
WIND SPAN	282
WEIGHT SPAN (COLD)	208 118 321
WEIGHT SPAN (HOT)	195 114 328

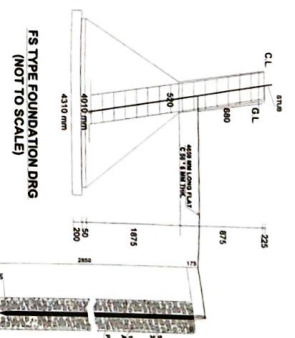
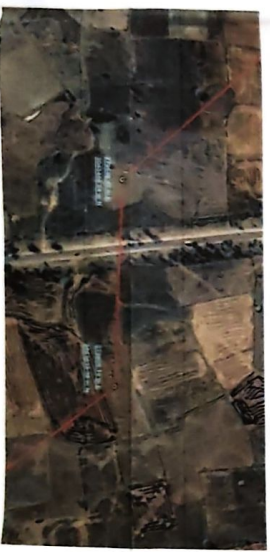
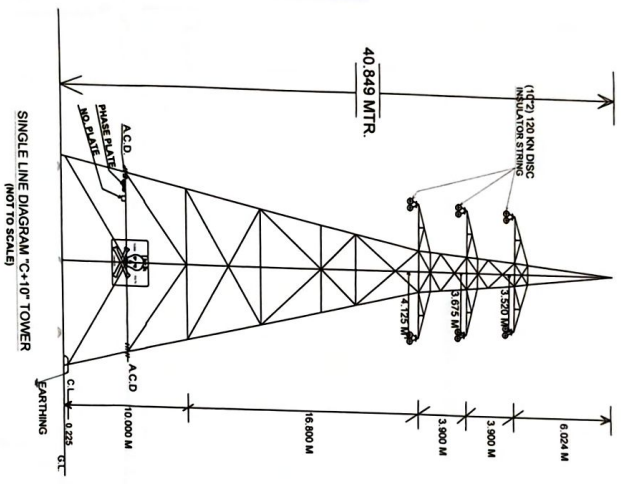
220

PROJLOC NO. :- 41	DC-10
WIND SPAN	295
WEIGHT SPAN (COLD)	104 188 282
WEIGHT SPAN (HOT)	106 176 282



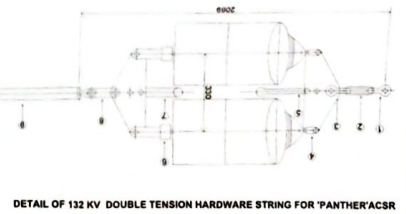
AP-21
45.46.101.1
27.29.28.20N
76.46.15.15E

AP-22
45.46.101.1
27.29.28.10N
76.46.15.15E



**F3 TYPE FOUNDATION DRG
(NOT TO SCALE)**

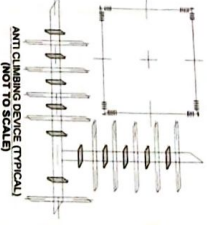
**EARTHING DETAILS
(NOT TO SCALE)**



**DETAIL OF 132 KV DOUBLE TENSION HARDWARE STRING FOR 'PANTHER'ACSS
(NOT TO SCALE)**



**132000 VOLTS
DANGER
(NOT TO SCALE)**



**ANTI CLIMBING DEVICE (TYPICAL)
(NOT TO SCALE)**

CONDUCTOR PROPERTIES	
Overall diameter d =	3.021 m
gross sec area a =	0.002913 m ²
Weight of wire w =	9.144 kg/mtr
U.L.S	19.44 kg/mtr
U.L.S of dummy E =	19.44 kg/mtr
mod of in wire e =	0.0000178 kg/mtr ²
Wind pr. on wire w _w =	130.9 kg/mtr
span length L =	220 meter

SUMMARY OF SAID TENSION		
EVERYWAY TEMP. NO WIND	8.738	TENSION (KN)
EVERYWAY TEMP. 5% OF FULL WIND	201.2	TENSION (KN)
MIN TEMP. 5% OF FULL WIND	10.422	TENSION (KN)
MAXIMUM TEMP. NO WIND	7.807	TENSION (KN)
MIN TEMP. NO WIND	201.2	TENSION (KN)

SCALE - MTS.
LENGTH - 220 MTR.
DATE :

U.P. POWER TRANSMISSION CORPORATION LIMITED
132 KV SC TOWER ON DC ETAH GANGANPUR(220 KV S/S) - SHREE CEMENT FACTORY TRANSMISSION LINE

M/S GUPTA CONSTRUCTION COMPANY

PREPARED BY: *[Signature]*
FOR U.P.P.I.C.L.

CHECKED BY: *[Signature]*
FOR - NIML

APPROVED BY: *[Signature]*
Project Director

प्रति (वेब) / Manager (Tech)
श्री एच. एन. शर्मा / Manager (Tech)
श्री एच. एन. शर्मा / Manager (Tech)

22-8-2020