



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय)

National Highways Authority of India

(Ministry of Road Transport & Highways, Government of India)

क्षेत्रीय कार्यालय : 41-29-45A, सर्वे नं: 373/2A, कोदंडरामालयम्, चलसानी नगर,
रानीगरीतोटा, कृष्णालंका, विजयवाड़ा - 520 013, आंध्र प्रदेश

Regional Office : D.No. 41-29-45A, RS No. : 373/2A, Kodandaramalayam, Chalasani Nagar,
Ranigari Thota, Krishna Lanka, Vijayawada - 520 013, Andhra Pradesh

फोन / Tele : 0866 -2483910, ई-मेल / E-mail : rovjayawada@nhai.org, nhairovja@gmail.com
वेब / Web : www.nhai.gov.in



Ref: NHAI/RO-VJA /PIU-KNL/NH-340C/765/Crossing/2765

Dt: 26.09.2024

To

The Sr. Technical Director,
NIC, Transport Bhawan,
New Delhi- 110001.

Sub: NHAI, RO - Vijayawada - Rehabilitation and Upgradation of NH-340C from Mandlem (Existing Km.38.000/Design Km.30.600) to Atmakur (Existing Km.73.000/Design Km.66.115) (Package-2) Four Lane with Paved shoulder (Design length = 35.515 Kms) in the state of Andhra Pradesh under NH(O) on Hybrid Annuity Mode - Request for crossing of 765 KV D/C transmission line at Km.36+015 of NH-340C between Km.43+000 to Km.44+000 near Thangadancha Village- Public comments - Reg.

Sir,

Please find enclosed herewith a proposal submitted by M/s. Powergrid Corporation of India Limited., for according permission for crossing of 765 KV D/C transmission line from Kurnool III PS-Maheswaram GIS (PG) 765KV D/C Overhead Power Transmission line across National Highway No.340C (Atmakur - Nandikotkur Section) at Km.36+015 (Existing chainage Km.38.000/Design Chainage Km.30.600), difference between these two is 7.4Kms, in between Km.43+000 to Km.44+000 (from LHS to RHS) near Thangadancha Village, Jupadu Bungalow Mandal, Nandyal District, Andhra Pradesh.

2. As per MORTH guidelines vide letter No. RW/NH-33044/29/2015/S&R(R) dated 22nd November 2016, the application along with the recommendations of PD, PIU-Kurnool & notice inviting public comments are enclosed herewith with a request to host the same in the Ministry's website for 30 days seeking claims and objections (on grounds of public inconvenience, safety and general public interest), for taking further necessary action.

Encl: As above

Yours faithfully,


(R.K. Singh, IES)

CGM (Tech.) & Regional Officer



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय)

National Highways Authority of India

(Ministry of Road Transport & Highways, Government of India)

क्षेत्रीय कार्यालय : 41-29-45A, सर्वे नं: 373/2A, कोदंडरामालयम्, चलासानी नगर,
रानीगरीतोटा, कृष्णालंका, विजयवाड़ा - 520 013, आंध्र प्रदेश

Regional Office : D.No. 41-29-45A, RS No. : 373/2A, Kodandaramalayam, Chalasani Nagar,
Ranigari Thota, Krishna Lanka, Vijayawada - 520 013, Andhra Pradesh

फोन / Tele : 0866 -2483910, ई-मेल / E-mail : rovijayawada@nhai.org, nhairovja@gmail.com
वेब / Web : www.nhai.gov.in



Ref: NHAI/RO-VJA /PIU-KNL/NH-340C/765/Crossing/2764

Dt: 26.09.2024

INVITATION OF PUBLIC COMMENTS

Sub: NHAI, RO - Vijayawada - Rehabilitation and Upgradation of NH-340C from Mandlem (Existing Km.38.000/Design Km.30.600) to Atmakur (Existing Km.73.000/Design Km.66.115) (Package-2) Four Lane with Paved shoulder (Design length = 35.515 Kms) in the state of Andhra Pradesh under NH(O) on Hybrid Annuity Mode - Request for crossing of 765 KV D/C transmission line at Km.36+015 of NH-340C between Km.43+000 to Km.44+000 near Thangadancha Village - Public comments - Reg.

Please find enclosed herewith a proposal submitted by M/s. Powergrid Corporation of India Limited., for according permission for crossing of 765 KV D/C transmission line from Kurnool III PS-Maheswaram GIS (PG) 765KV D/C Overhead Power Transmission line across National Highway No.340C (Atmakur - Nandikotkur Section) at Km.36+015 (Existing chainage Km.38.000/Design Chainage Km.30.600), difference between these two is 7.4Kms, in between Km.43+000 to Km.44+000 (from LHS to RHS) near Thangadancha Village, Jupadu Bungalow Mandal, Nandyal District, Andhra Pradesh.

2. As per MORTH guidelines vide letter No. RW/NH-33044/29/2015/S&R(R) dated 22nd November 2016, the Highway Administration will put out the application in the Ministry's website for 30 days seeking claims and objections (on grounds of public inconvenience, safety and general public interest).

3. In view of the above, the comments of public, if any, on the above mentioned proposal is invited on below mentioned address.

Regional Officer - Vijayawada,
National Highways Authority of India,
Regional Office, Dr. No.41-29-45A, R. S. No.373/2A
Near Kodandaramalayam, Chalasani Nagar,
Ranigarithota, Krishnalanka, Vijayawada - 520 013.
Email: rovijayawada@nhai.org

(R.K. Singh, IES)
CGM (Tech.) & Regional Officer



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
(सडक परिवहन ओर राजमार्ग मंत्रालय)
NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Road Transport & Highways, Govt. of India)
Project Implementation Unit - KURNOOL

H. No. 76/97-SLVC-P-154, SLV Colony, Near Hyderabad Public School,
Kurnool - 518 002, Andhra Pradesh.
E-mail: nhaipiukurnool@gmail.com; piukurnool@nhai.org



NHAI/PIU-Kurnool/NH-340C/PKG-2/Access Permission/2024-25/973

Date: 17.09.2024

To,

The Regional Officer,
National Highways Authority of India,
Door No.41-29-45A, R.S.No.373/2A,
Near Kodandaramalayam, Chalasani Nagar,
Ranigarithota, Krishnalanka,
Vijayawada - 520 013.

Sub: NHIA- PIU, Kurnool - Rehabilitation and Upgradation of NH-340C from Mandlem (Existing Km.38.000/Design Km.30.600) to Atmakur(Existing Km.73.000/Design Km.66.115) (Package-2) Four Lane with paved shoulder (Design Length = 35.515 Kms) in the State of Andhra Pradesh under NH(O) on Hybrid Annuity Mode - **Request for crossing of 765KV D/C transmission line at Km. 36+015 of NH-340C between Km. 43+000 to Km. 44+000 near Thangadancha village - Request for approval - Reg.**

Ref: 1. IE Lr. No. HEC/KNL-ATK/PD/NHAI/PKG-2/2024-25/077, dated 31.08.2024.
2. Concessionaire Lr. No. PAEPL/I.E/HAM/AP/Mandlem-Atmakur/PKG-2/2024-25/319, dated 30.08.2024.
3. T/o Lr. No. NHAI/PIU-KNL/NH340C/PKG-2/2024-25/909, Date: 20.08.2024.
4. Powergrid Letter No. SR1/NDL/KM/F-20/NHAI/891/A, dated 20.08.2024.
5. MoRT&H guidelines OM No. RW/NH-33044/29/2015/S&R(R), dated 22.11.2016.

Sir,

With reference to the letter 4th cited, vide the DGM, Nandyal CAO, M/s Powergrid Corporation of India Limited has submitted the proposal for approval of NHAI for crossing of 765KV D/C transmission line at Km. 36+015 of NH-340C between Km. 43+000 to Km. 44+000 near Thangadancha village.

2) The said proposal was referred to the Independent Engineer and the Concessionaire of the project vide letter 3rd cited above for furnishing their comments/recommendations.

3) The Independent Engineer and the Concessionaire vide letters 1st and 2nd cited above has submitted the recommendations of the said proposal duly informing the following:

Concessionaire Recommendation:

3.1. To share the work schedule.

3.2. Intimation at least 1 week prior to commencement of work to the all concerned (NHAI/IE/Concessionaire).

3.3. The proposed transmission line should be laid as per the drawing/sketch enclosed and as per the MoRT&H guidelines, vertical clearance from the road top level to bottom point of the lowest conductor should be more than 26.21m (in all seasons) in the application.

3.4. The application / executing agency has to provide all the necessary safety arrangement and traffic management as per IRC:SP:55-2014 during execution.

3.5. The crossing length as shown in their application is 60mts, where it is noticed at site and felt that the length to be more than 60mts as applicable and the same will be verified and guide by Independent Engineer.

3.6. The tower foundation to be as way from the PROW a minimum 1.5 times of the tower height.

3.7. The Concessionaire has to maintain this project for 15 years, during entire period line should not affect the progress of present and future works.

3.8. During execution and O&M, any undo incident, the Concessionaire is not responsible for the same and PGCIL should indemnify the same.

3.9. PGCIL should respond to Concessionaire for issues/deviations with in a hour time as it is high voltage tower line.

3.10. PGCIL should not disturb the concessionaire as the road is having live traffic 24x7 and any issue arises out of this PGCIL has to take care 100% responsibility in terms of conditions at no cost to Concessionaire/NHAI.

3.11. PGCIL has to take daily work permit from the Concessionaire.

3.12. PGCIL has to submit all the test certificates from third party test reports of all the activities.

3.13. The line crossing should be 90 degrees to the road alignment or as per the Guidelines of NHAI/MORTH/IRC.

Independent Engineer Recommendation:

3.14. The horizontal clearance from the proposed centre line of NH-340C to tower no AP.58 (122Mts.) on RHS & AP.59 (124Mts.) on LHS must be maintained as per the drawing submitted by M/s PGCIL, Nandyal and the tower foundation are located outside of the NHAI ROW.

3.15. The vertical clearance from the carriage way crown (proposed finished road level) of NH-340C to the lowest point of bottom conductor of overhead power line crossing must be maintained as 25.7m which was depicted in the drawing submitted by M/s PGCIL, Nandyal.

3.16. Apart from that it will be ensured that the towers of 765KV/DC overhead power transmission line should not be fall down within the ROW of NHAI during the National disasters occurred if any on later stage.

3.17. The laying of the Transmission line should not affect the progress of present and future works related to the highway activities in the area.

3.18. Prior intimation regarding the commencement of work must be given to NHAI, IE and Concessionaire. Due care shall be taken for smooth and uninterrupted flow of traffic during the activity.

3.19. The executing agency must provide all necessary safety arrangements and traffic management in accordance with IRC: SP: 55-2014 during execution of work.

3.20. The executive agency has considered the crossing length of 60 mts, whereas as per the check list recommended by IE the HTS line is crossing the project highway at an angle of 89° , for which the crossing length will be 46.106mts.

3.21. The licence fee for public utilities shall be equal to utilised NHAI land area X prevailing circle rate of land per unit area X 1.5% per annum. Licence fee for total term of licence (upto maximum of 5 years) shall be deposited in advance.

3.22. As per the Andhra Pradesh state revenue records, prevailing circle rate of land at the proposed location i.e. Thangadancha is Rs. 700000/- (Rupees seven lakhs only) per Acre w.e.f. dated 15.04.2023.

3.23. Based on the above observations the detailed check list and licence fee for the subject proposal is Rs. 56,371/- (Rupees Fifty Six thousand Three hundred and Seventy One only).

4. As per the recommendation of the Independent Engineer and the Concessionaire, the proposal has been verified in this office and following are submitted:

4.1 As per CEA guidelines, 2023, minimum Vertical clearance required for 765KV D/C line is 18.8m. The proposed D/C line is having minimum Vertical clearance of 25.7m from RoW of NH-340C respectively.

4.2 As per Cl.17(c) & 17 (e) of MoP Letter No. 34-3/18/2022-TRANS (MoP) dated 03.03.2023 "The crossing span shall not be more than 250 meters, unless higher span is permitted by NHAI and the overhead line crossing shall normally be at right angle as far as possible". Crossing span between Tower No. AP58 & No. AP59 is 246m and angle of crossing is 89° . Hence, the proposal is satisfying the revised CEA guidelines dated 2023.

4.3 The tower line is crossing at Km. 36+015 of Main Carriageway between Km. 43+000 to Km. 44+000 from LHS to RHS of NH-340C near Thangadancha Village.

4.4 The available RoW is 22.5m from center line for both sides. M/s. Powergrid Corporation of India Limited has proposed to lay the utility line is 124m from the center line at LHS and 122m from the center line at RHS.

4.5 Shri. Raja Gopal, DGM, Nandyal CAO on behalf of Powergrid Corporation of India Limited has submitted the following;

4.5.1 Undertaking for pay or compensate for any damages caused to the NHAI Property.

4.5.2 Undertaking to ensure compliance during stringing work of all safety norms.

4.5.3 Undertaking to ensure the traffic movement during stringing work.

4.5.4 Undertaking to further development works of Kurnool- Dornal section of NH-340C.

4.5.5 Undertaking to submit required license fee.

4.5.6 Undertaking to follow the provision of IRC 32-1969, CEA Regulations/Statutory provisions of Indian electricity rules and other relevant guidelines issued.

4.5.7 Indemnity against all damages and claims.

4.5.8 All necessary undertakings.

4.5.9 A Certificate stating that;

a) Laying of utility line will not have any deleterious effects on any of the bridge components and roadway safety for traffic.

b) Relocated services road/approach road/utilities at their own cost not-with standing the permission granted within such time as stipulated by NHAI for further six laning or any other development.

4.5.10 Methodology of carrying out the stringing.

4.5.11 Strip plan showing the crossing of 765 KV D/C transmission line from Kurnool III (PS) at (Nandipadu Village, Kolimigundla Mandal, Nandyal District) to 765KV Maheswaram (PG) SS at (Maheswaram Orvakal Mandal, Rangareddy District) at 36+015KM of NH-340C in between chainage from KM 43+000 to KM 44+000 near Thangadancha village (Jupadu Bunglow mandal in Nandyal District, Andhra Pradesh).

4.5.12 Single line Diagramme of proposed 765KV D/C transmission line (Kurnool - III - Maheswaram) for crossing of NH-340C (duly signed by the Powergrid Authorities, IE, Concessionaire and Project Director).

4.5.13 Drawing of the proposed 765KV D/ transmission line (Kurnool - III - Maheswaram) for crossing of NH-340C (duly signed by the Powergrid Authorities, IE, Concessionaire and Project Director).

4.5.14 Draft Agreement for laying of Utility services.

4.5.15 Checklist for getting approval for laying of utility services (duly signed by the Powergrid Authorities, IE, Concessionaire and Project Director).

4.5.16 Calculation of license fee for the subject proposal (duly signed by the Powergrid Authorities, IE, Concessionaire and Project Director).

5. In view of the above, the proposal is recommended and approval may please be accorded to Powergrid Corporation of India Limited for crossing of 765 KV D/C transmission line from Kurnool III PS-Maheswaram GIS (PG) 765KV D/C Overhead Power Transmission line across National Highway No. 340C (Atmakur -Nandikotkur Section) at 36+015 KM (i.e.,) in between KM 43+000 to KM 44+000 (from LHS to RHS) near Thangadancha village (Jupadu Bunglow mandal in Nandyal District, Andhra Pradesh).

Yours faithfully,


17/9/24
(Padma Gola)

DGM (Tech.) cum Project Director

Encl: As above

INSPECTION REPORT

The proposal for approval of NH-340C crossing of 765 KV D/C transmission line from Kurnool III PS-Maheswaram GIS (PG) 765KV D/C Overhead Power Transmission line across National Highway No. 340C (Atmakur -Nandikotkur Section) at 36+015 KM (i.e.,) in between KM 43+000 to KM 44+000 (from LHS to RHS) near Thangadancha village (Jupadu Bunglow Mandal in Nandyal District, Andhra Pradesh) by Powergrid Corporation of India Limited was inspected on 12.09.2024 and the report is as follows -

2. The tower line is crossing at Km. 36+015 of Main Carriageway of NH-340C between Km. 43+000 to Km. 44+000 from LHS to RHS near Thangadancha Village.
3. The available RoW is 22.5m from center line for both sides. M/s. Powergrid Corporation of India Limited has proposed to lay the utility line is 124m from the center line at LHS and 122m from the center line at RHS.
4. It is recommended that necessary approval may be accorded to Powergrid Corporation of India Limited for crossing of 765 KV D/C transmission line from Kurnool III PS-Maheswaram GIS (PG) 765KV D/C Overhead Power Transmission line across National Highway No. 340C (Atmakur - Nandikotkur Section) at 36+015 KM (i.e.,) in between KM 43+000 to KM 44+000 (from LHS to RHS) near Thangadancha village (Jupadu Bunglow mandal in Nandyal District, Andhra Pradesh) in accordance with MoRTH Circular dated 22.11.2016.

Shubham

Shubham Singh
Dy. Manager (Tech.)

12/9/24

Project Director
NHAI, PIU-Kurnool

CERTIFICATE

1. Undersigned has examined the proposal of the applicant for approval of NH-340C crossing of 765 KV D/C transmission line from Kurnool III PS-Maheswaram GIS (PG) 765KV D/C Overhead Power Transmission line across National Highway No. 340C (Atmakur -Nandikotkur Section) at 36+015 KM (i.e.,) in between KM 43+000 to KM 44+000 (from LHS to RHS) near Thangadancha village (Jupadu Bunglow mandal in Nandyal District, Andhra Pradesh) and confirm that all the standard conditions issued vide Ministry Circular No. RW/NH-33044/29/2015/S&R(R) dated 22.11.2016 and MoRT&H guidelines no. NH-36094/01/2022-S&R (P&B) (E-208825) dated 24.04.2023 has been followed.
2. It is certified that the proposed crossing of overhead HT line will not adversely affect the design, stability and traffic safety of the Highway nor the likely future improvement such as widening of the carriageway, improvement of curve, etc., as the overhead HT transmission line crossing is proposed at 124m (LHS) and 122m (RHS) from center of ROW.
3. The Independent Engineer (M/s. Highway Engineering Consultant in Association with M/s. Intratech Civil Solutions & Consultant) of the project verified at site and has recommended the proposal vide letter no. HEC/KNL-ATK/PD/NHAI/PKG-2/2024-25/077, dated 31.08.2024.
4. The Concessionaire of the Project M/s PSK Atmakur Expressways Private Limited has given the consent letter no. PAEPL/I.E/HAM/AP/Mandlem-Atmakur/PKG-2/2024-25/319, dated 30.08.2024.
5. It is certified that, till date, there is no proposal for 6-laning of the said stretch.
6. It will be ensured through the Independent Engineer for the project for supervision of the work of HT line crossing and ensure that the defects in road portion after laying of utility are corrected.
7. The proposed permission will be entered in the Register of Records.
8. No approvals are accorded for HT line crossing.


17/9/24

(Padma Gola)

DGM (Tech.) cum Project Director
NHAI, PIU-Kurnool.



Civil Consultancy Services

HIGHWAY ENGINEERING CONSULTANT

H-No: 6-455-1, 1st & 2nd Floor, Pagidyala Road, Byreddy Nagar Board. Opp Beside Kushala
Kiranam & General stores, Nandikotkur Vill & Mandal: Nandyal - Dist: A.P. - 518401.
Email: hecurnoolmandiem@gmail.com



सहम, लघु एवं मध्यम उद्यम
MICRO, SMALL & MEDIUM ENTERPRISES

UAM No.: MP10F0030178

Ref No HEC/KNL- ATK/PD/NHAI/2024-25/077

Date: 31.08.2024.

To,
The Project Director, PIU Kurnool,
National Highways Authority of India,
Dr.No.76/97-SLVP-P-154,SLV Colony,
Hyderabad Public School, Kurnool-518002.A.P

NHAI - PIU, KURNOOL.	
Date 04/09/24	No. 3176
Manager	SE ✓ seen
Dy. Manager	AC

Sub: "Consultancy services for Independent Engineer for (i) Rehabilitation and up gradation of NH-340C from Mandlem (Existing Km. 38.000 of NH-340C/Design Km 30.600) to Atmakur (Existing km 73.000 of NH-340C /Design km 66.115(Package-2) to Four lane with paved shoulders (Design Length = 35.515 kms) in the state of Andhra Pradesh under NH (O) on Hybrid Annuity Mode-IE observations on approval of 765KV/DC overhead power transmission line crossing with NH-340C at Km: 36+015 near Thangadancha village-Detailed report requested- Reg.

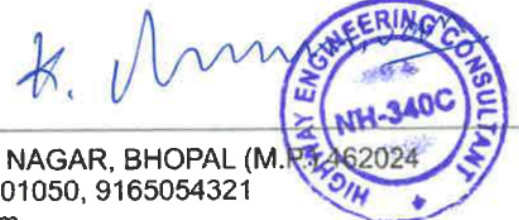
Ref:

- 1) NHAI/PIU-KNL/NH340C/PKG-2/2024-25/909 Dated 20.08.2024
- 2) HEC/KNL- ATK/PD/NHAI/2024-25/036 Dated 27.06.2024
- 3) NHAI/PIU-KNL/NH340C/PKG-2/2024-25/714 Dated 28.05.2024.
- 4) PAEPL/I.E/HAM/AP/Mandlem-Atmakur/PKG-2/2024-25/250 Dated 18.06.2024.
- 5) Concession Agreement Dated 19.05.2023.
- 6) Consultancy Agreement Signed On 06.03.2024.

Dear Sir,

With respect to the above cited subject and reference letter cited #1, the Concessionaire has expressed no objection for crossing of 765KV line with a request of Authority to provide/comment by the conditions (as enclosed) During the site visit the following commitments has been made by the concern representative of Power Grid corporation of India.Ltd, Nandyal and the IE inputs are reiterated as follows.

1. The horizontal clearance from the proposed centre line of NH-340C to tower no AP 58 (122Mts.) on RHS & AP 59 (124Mts) on LHS must be maintained as per the drawing submitted by M/s PGCIL, Nandyal and the tower foundations are located outside of the NHAI ROW..
2. The vertical clearance from the carriage way crown (proposed finished road level) of NH-340C to the lowest point of bottom conductor of overhead power line crossing must be maintained as 25.7m which was depicted in the drawing submitted by M/s PGCIL, Nandyal.
3. Apart from that it will be ensured that the towers of 765KV/DC overhead power transmission line should not be fall down within the ROW of NHAI during the National disasters occurred if any on later stage.
4. The laying of the Transmission line should not affect the progress of present and future works related to the highway activities in the area.



Head Office : JM-89/3C, BEHIND PANCHWATI MARKET, SAKET NAGAR, BHOPAL (M.P.) 462024

Tel. / Fax : 0755-4253440, Mob.: 9617777529, 9977501050, 9165054321

E-mail : hec_bhopal@rediffmail.com

- 5) Prior intimation regarding the commencement of work must be given to NHAI, IE and Concessionaire. Due care shall be taken for smooth and interrupted flow of traffic during the activity.
- 6) The executing agency must provide all necessary safety arrangements and traffic management in accordance with IRC: SP: 55-2014 during execution of work.
- 7) The executive agency has considered the crossing length of 46.06, whereas as per the check list recommended by the IE the HTS line is crossing the Project Highway at an angle of 89° , for which the crossing length will be 46.106mts.
- 8) The licence fee for public utilities shall be equal to utilised NHAL land area X prevailing circle rate of land per unit area X 1.5% per annum. Licence fee for total term of licence (up to maximum of 5 years) shall be deposited in advance.
- 9) As per the Andhra Pradesh state revenue records, prevailing circle rate of land at the proposed location i.e. Thangadancha is Rs.700000/- (rupees seven lacs only) per Acre w.e.f. dated 15.04.2023.

Based on the above observations has detailed check list and the licence fee for the subject proposal is Rs.56371/- (rupees fifty six thousand three hundred and seventy one only)

In view of the above, IE is herewith requesting your good office to kindly direct the PGCIL officials to abide the commitments stated in the check list, undertaking letters and the certificates submitted for approval of above said subject and recommended that necessary approval may be accorded for crossing of 765KV D/C Transmission line to Power Grid corporation of India.Ltd, Nandyal District, Andhra Pradesh.

This is for your kind information and necessary action please.

Thanking you and assuring of our best services.

Yours truly,

For Highway Engineering Consultant,
In Association with M/s Intracotech Civil Solutions Consultant

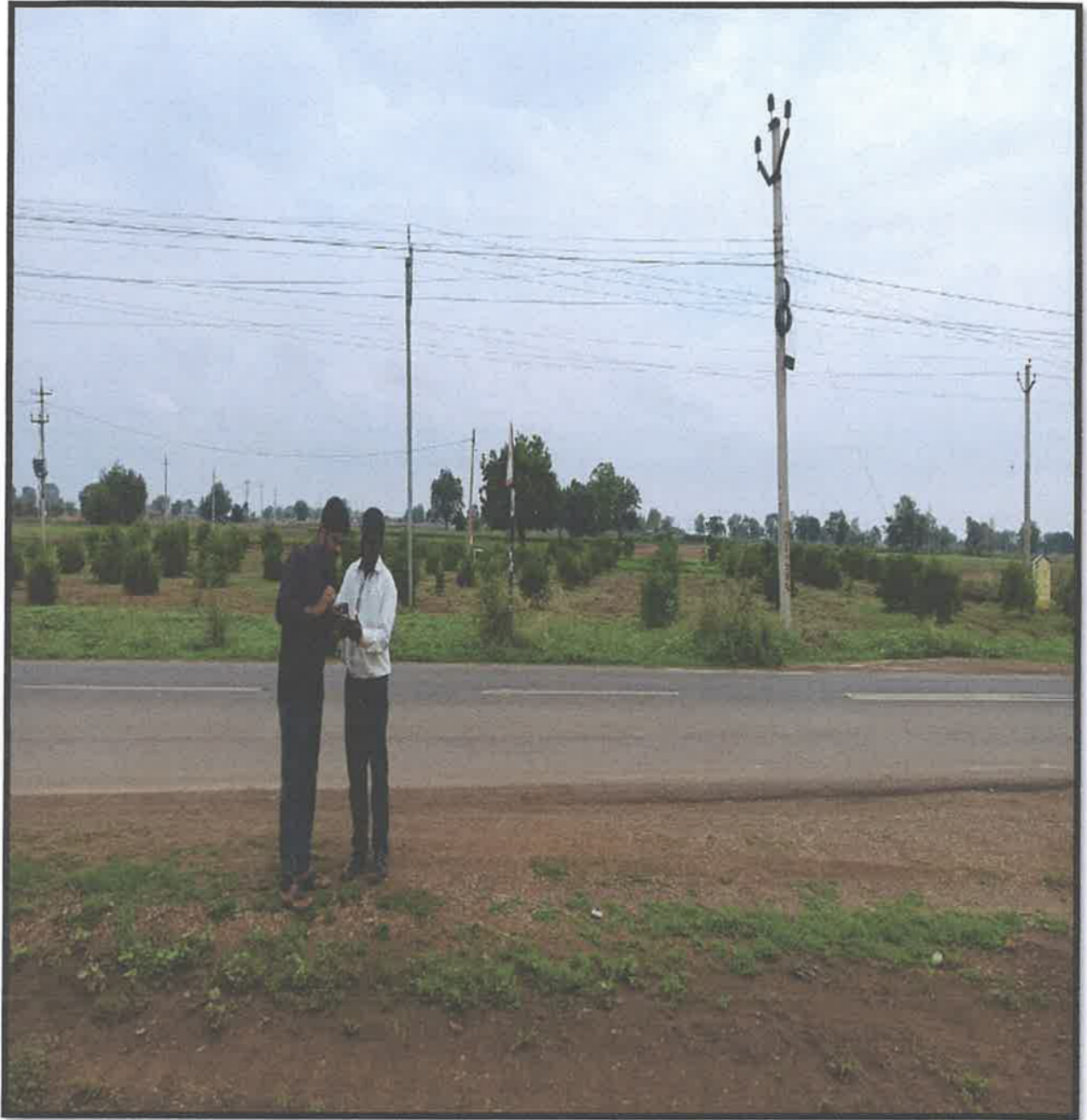


Sreenivasulu Kune
Team Leader



Enclosures: As above.

CC: The PSK Atmakur Expressway Pvt.Ltd -For Information.



Location of Proposed 765KV D/C line crossing at Km: 36+015

Amal
RE-EE

K. M. M. M.



PSK Atmakur Expressways Private Limited

Ref No: PAEPL/IE/HAM/AP/ Mandlem-Atmakur/PKG-2/2024-25/319

Date:30-08-2024

To
The Team Leader
The Independent Engineer
Highway Engineering Consultancy
Project office: H.NO.13-1043,
Hazinagar, Urdu School Lane,
Nandikotkur-518401, Nandyal (Dist.), AP(St)

Sub: Rehabilitation and Upgradation of NH-340C from Mandlem (Existing Km 38.000 of NH-340/Design Km 30.600) to Atmakur (Existing Km 73.000 of NH-340/Design Km 66.115) (PKG-2) to Four Lane with paved shoulders (Design Length =35.515 Kms) in the State of Andhra Pradesh under NH(O) on Hybrid Annuity Mode - **Documents and approval for Construction of 765KV Kurnool - III PS-Maheshwaram (PG) Transmission overhead power line crossing with NH-340C - Detail Report submitted - Reg**

Ref: 1. Contract Agreement dated 19.05.2023
2. Lr. No. NHAI/PIU-KNL/NH340C/PKG-2/2024-25/909, dated 20-08-2024
3. Lr. No. HEC/IE/HAM/MAND-ATK/PKG-2/2024-25/76, dated 29-08-2024

Dear Sir,

With reference to the caption subject and in response to the letters referred above, Concessionaire has visited the site along with Independent Engineer and there is no objection for crossing of 765 KV line with a request of Authority to provide / commit by the following conditions.

- A. To share the work schedule,
- B. Intimation at least 1 week prior to commencement of work to the all concerned (NHAI/IE/Concessionaire)
- C. The proposed transmission line should be laid as per the drawing/sketch enclosed and as per the MoRT&H guidelines, vertical clearance from the road top level to bottom point of the lowest conductor should be more than 26.21m (in all seasons) in the application.
- D. The application / executing agency has to provide all the necessary safety arrangement and traffic management as per IRC: SP:55-2014 during execution.
- E. The crossing length as shown in their application is 60mts, where it is noticed at site and felt that the length to be more than 60mts as applicable and the same will be verified and guide by Independent Engineer.
- F. The tower foundation to be a way from the PROW a minimum 1.5 times of the tower height.
- G. The Concessionaire has to maintain this project for 15 years, during entire period line should not affect the progress of present and future works.
- H. During execution and O&M any undo incident, the Concessionaire is not responsible for the same and PGCIL should identify the same.



Ref No: PAEPL/I.E/HAM/AP/ Mandlem-Atmakur/PKG-2/2024-25/319
Date:30-08-2024

- I.** PGCIL should respond to concessionaire for issues/deviations with in a hour time as it is high voltage tower line
- J.** PGCIL should not disturb the concessionaire as the road is having live traffic 24x7 and any issue arises out of this PGCIL has to take care 100% responsibility in terms of conditions at no cost to Concessionaire/NHAI.
- K.** PGCIL has to take daily work permit from the concessionaire.
- L.** PGCIL has to submit all the test certificates from third party test reports of all the activities.
- M.** The line crossing should be 90 degrees to the road alignment or as per the Guidelines of NHAI/MORTH/IRC

Concessionaire is agreeing for crossing the line as per application based on the above points, it is requested Independent Engineer to examine the application and take necessary further action.

Thanking you and assuring you of our best services at all times.

Regards



Authorized Signatory
PSK Atmakur Expressways Private Limited

Copy to: Project Director, PIU, NHAI, Kurnool – for information please

CHECK LIST

Guidelines for processing the proposal for approval of crossing of 765KV D/C Kurnool-III PS - Maheswaram GIS (PG) overhead transmission line near Thangadancha Village, Jupadu Bungalow Mandal at 36+015KM i.e., between the KM stones from Km.43 to Km.44 towards Dornala

Sl. No.	Item	Information/Status	IE Comments
1	General Information		
1.1	Name and Address of the Applicant/Agency	The Deputy General Manager M/s POWER GRID CORPORATION OF INDIA LIMITED, Nandyal CAO, Plot No.-103, Nandi Paradise. Kranti Nagar, Nandyal-518601, Andhra Pradesh	The Deputy General Manager M/s POWER GRID CORPORATION OF INDIA LIMITED, Nandyal CAO, Plot No.-103, Nandi Paradise. Kranti Nagar. Nandyal-518601, Andhra Pradesh
1.2	National Highway Number	NH-340C	NH-340C
1.3	State	Andhra Pradesh	Andhra Pradesh
1.4	Location	Near Thangadancha Village, Jupadu Bungalow Mandal in Nandyal District, Andhra Pradesh	Near Thangadancha Village, Jupadu Bungalow Mandal in Nandyal District, Andhra Pradesh
1.5	(Chainage in km)	36+015KM	NH-340C road at 36+015KM
1.6	Length in Meters	NA, as the proposal is for crossing of NH	67 mts (ROW of the utility crossing at 89° to the project alignment)
1.7	Width of available ROW		
	a) Left side from center line towards increasing km direction	33.5 M	25.600M
	(b) Right side from center line towards increasing km direction	33.5 M	20.460M
1.8	Proposal to lay the overhead EHV Transmission Line		
	(a) Left side from center line towards increasing km direction	At Km 35.68	Tower AP59 at a distance of 124 mtrs from the centre of the road
	(b) Right side from center line towards increasing km direction	At Km 36.35	Tower AP58 at a distance of 122 mtrs from the centre of the road
	(c) Angle of Crossing	89	89°
1.9	Proposal to acquire land		NA
	(a) Left side from center line	NA	NO
	(b) Right side from center line	NA	NO
1.10	Whether proposal is in the same side where land is not to be acquired. If not then where to lay the HT line	NA	Yes, crossing the national highway towers shall be constructed outside NHAI-ROW
1.11	Details of already laid services, if any, along the proposed route	NA	NA, as the proposal is across the NH
1.12	Number of lanes (2/4 / 6/8 lanes) existing	2 lane	2 lane
1.13	Proposed Number of lanes (2 lane with paved 4 Lane shoulders /4/6/8 lanes)	NA	4 lane construction is in progress
1.14	Service road existing or not	NA	No there is no provision of service road at this location
	If yes then which side		
	(a) Left side from center line	NA	
	(b) Right side from center line	NA	NA
1.15	Proposed Service Road	NA	
	(a) Left side from center Line	NA	
	(b) Right side from center line	NA	
1.16	whether proposal to lay overhead HT Transmission line after the service road or between the service road and main carriageway	No, as the proposal is across the NH.	No, as the proposal is across the NH.
1.17	Whether carrying of utility line has been proposed on highway Bridge . If yes, then mention the methodology proposed for the same	NA	NA
1.18	Whether carrying of utility line has been proposed on parapet/part of the bridge . If yes, then mention the methodology proposed for the same	NA	NA
1.19	if crossing of the road involved	Yes	Yes
	if yes , it shall be either encased in pipes or through structure or conduits specially built for that purpose at the expenses of the agency owning the line	Crossing is overhead EHV transmission line	Crossing is overhead EHV transmission line
	(a) Whether the existing drainage structure are allowed to carry the utility pipeline	NA	NA
	(b) Is it on the line normal to NH	Overhead crossing is 89deg to existing NH.	Overhead crossing is 89° to existing NH.

P. Rajagopal

पी. राजगोपाल / P. RAJAGOPAL
उप महा प्रबंधक / Dy. Gen. Manager
पावरग्रिड / POWERGRID
नंद्याला सी.ए.ओ./NANDYALA CAO



Shubham
Deputy Manager
NHAI-P.I.U. Kurnool,

PROJECT DIRECTOR
NHAI, P.I.U. KURNOOL

CHECK LIST

Guidelines for processing the proposal for approval of crossing of 765KV D/C Kurnool-III PS - Maheswaram GIS (PG) overhead transmission line near Thangadancha Village, Jupadu Bungalow Mandal at 36+015KM i.e., between the KM stones from Km.43 to Km.44 towards Dornala

Sl. No.	Item	Information/Status	IE Comments
	(c) Crossing shall not be too near the existing structures on the National Highway. The minimum distance being 15mts. What is the distance from the existing structure	Tower AP58 is 122mtr away from center of NH and Tower AP59 is 124mtr away from center of NH.	Tower AP58 (RHS) is 122mtr away from center of NH and Tower AP59 (LHS) is 124mtr away from center of NH.
	(d) The casing pipe carrying the utility line shall be of steel, cast iron, reinforced cement concrete and have adequate strength and be large enough to permit ready withdrawal of the carrier pipe/cable. Mention type of casting	NA	NA
	(e) Ends of the casing pipe shall be sealed from the outside, so that it does not act as a drainage path	NA	NA
	(f) The casing/conduit pipe should be as minimum extend from drain to drain in cuts and toe of the slope in he fills	NA	NA
	(g) The top of the casing/Conduit pipe should be at least 1.20m below the surface of the roads subject to being at least 0.3 meters below, the drain inverts mention the proposed details	NA	NA
	(h) Mention the methodology proposed utility line. Crossing shall be by boring method (HDD). Specially, where the existing road pavements is of cement concrete or dense bituminous concrete type	NA	NA
	(i) The casing/Conduit pipe shall be installed with an even bearing throughout its length and in such manner as to prevent the formation of a water way along it.	NA	NA
2	Document/Drawings enclosed with the proposal		
2.1	Cross section showing the size of trench for open Yes Standard Size trenching method (Is it normal size of 1.2m deep x 0.3m wide) i) should not be greater than 60cm wider than the outer diameter of the pipe ii) Located as close to the extreme edge of the Right-of-way as possible but not less than 15 meters from the centre-lines of the nearest carriageway iii) Shall not be permitted to run along the National Highway when the road formation is situated in double cutting. Nor shall be laid over the existing culverts and bridge iv) These should be so laid that their top is at least 0.6mts below the ground level so as not to obstruct drainage of the road land	NA	NA
2.2	Cross section showing the size of pit and location of cable for HDD method	NA	NA
2.3	Strip plan/Route Plan showing the OFC, Chainage, width of ROW, distance of proposed, cable from the edge of ROW, important mile stone intersection, cross drainage works etc.	Yes, Enclosed	Yes, Enclosed
2.4	Methodology for laying overhead Transmission lines	Yes Enclosed	Yes Enclosed
2.4.1	Open trench method (may be allowed in utility corridor only where pavement is neither cement concrete nor dense bituminous concrete type. If yes, what is the methodology of refilling of trench		
	a) The trench width should be at least 30cm, but not more than 60 cm wider than the outer diameter of the pipe	NA	NA
	b) For filling of the trench bedding shall be to a depth of not less than 30cm. It shall consist of granular materials. Free of lumps, clods and cobbles and graded to yield a firm surface in the bearing value. Unsuitable soil and rock edged should be excavated and replaced by selected material.	NA	NA
	c) The backfill shall be completed in two stages i) side-fill to the level of the top of the pipe and ii) overfill to the bottom of the road crust	NA	NA
	d) The side fill shall consist of granular materials laid in 15cm layers each consolidated by mechanical tampering and controlled addition of moisture to 95% of the Proctor's Density. Overfill shall be compacted to the same density as the material that had removed. Consolidation by saturation or ponding will not be permitted	NA	NA

P. Rajagopal / P. RAJAGOPAL
उप महा प्रबंधक / Dy. Gen. Manager
पावरग्रिड / POWERGRID
नंदयाला सी.ए.ओ./ NANDYALA CAO



PROJECT DIRECTOR
NHAI, P.I.U. KURNOOL
Deputy Manager

CHECK LIST

Guidelines for processing the proposal for approval of crossing of 765KV D/C Kurnool-III PS - Maheswaram GIS (PG) overhead transmission line near Thangadancha Village, Jupadu Bungalow Mandal at 36+015KM i.e., between the KM stones from Km.43 to Km.44 towards Dornala

Sl. No.	Item	Information/Status	IE Comments
	e)The road crust shall be built to the same strength as existing crust on either side of the trench.care shall be taken to avoid the formation of a dip at the trench	NA	NA
	f)The excavation shall be protected by flagman, signs and barricades , and red lights during night hours	NA	NA
	g)If required, a diversion shall be constructed at the expense of agency owning the utility line	NA	NA
2.4.2	Horizontal Directional Drilling (HDD) Method	NA	NA
2.4.3	Laying of HT Transmission line through CD works and method of laying	NA	NA
3	Draft license Agreement is signed by two witnesses	Yes, Enclosed	Yes, Enclosed
3.1	The license fee estimate as per Ministry's guidelines issued vide circular no. RW/NH-33044/29/2015/S&R@ dated 22.11.2016 and circular dtd 24.04.2023	Yes, Enclosed	Yes Submitted
4	Whether Performance bank guarantee as per Ministry guidelines issued vide circular no:RW/NH-33044/29/2015/S&R@ Dated 22.11.2016 is obtained	NA	BG is not available
4.1	Confirmation of BG has been obtained are not as per MORTH/NHAI Guideline	NA	
5	Affidavit/ Undertaking from the Applicant from the following is to be furnished	Yes Enclosed	Yes Enclosed
5.1	Undertaking not to Damage any other utility, if damaged then to pay the losses either to NHAI or to the concerned agency.	Yes Enclosed	Yes Enclosed
5.2	Undertaking for renewal of BG as when asked by MORTH/NHAI	NA	NA
5.3	Undertaking for confirming all standard condition of Ministry circulars and NHAI's Guidelines	Yes Enclosed	Yes Enclosed
5.4	Undertaking for Indemnity against all damages and claims	Yes Enclosed	Yes Enclosed
5.5	Undertaking for mamagement of traffic movement during laying utility line without hampering the traffic	Yes Enclosed	Yes Enclosed
5.6	Undertaking that if any claim is raised by the concessionaire/contractor then the same has to be paid by the applicant	Yes Enclosed	Yes Enclosed
5.7	Undertaking prior approval of NHAI shall be obtained before undertaking any work of installation, shifting or repairs, alteration to the utility line located in National Highway Right-of-Way	Yes Enclosed	Yes Enclosed
5.8	Undertaking that expenditure, if any, incurred by NHAI for repairing any damage caused to the National Highway by laying, maintenance or shifting of the utility line will be brone by the applicant agency owning the line	Yes Enclosed	Yes Enclosed
5.9	Undertaking that text of the license deed is as per verbatim of MoRTH format issued vide ministry's circular number: RW-NH-33044/29/2015/S&R@ dated:22-11-20216	Yes Enclosed	Yes Enclosed
5.10	Undertaking that the applicant has obtained various safety clearances from the representative authorities such as Director of Electricity, Chief controller of explosives, prtroleum and explosive safety organisaition, oil industru safety director, State/Central pollution control board and any other statutory clearances applicable before applying to Highway Administration.	Yes Enclosed	Yes Enclosed
5.11	If the MoRTH/NHAI considers it necessary in future to move the utility line for any work of improvement or repair to the road, it will be carried out as desired by the MoRTH/NHAI at the cost of agency owning the utility line within the reasonable time (not exceeding 60 days) of the intimation given	Yes Enclosed	Yes Enclosed
5.12	Certificate from the applicant in the following fromat i)Laying of utility line will not have any deleterious effects on any of the bridge components and roadways safety for traffic ii) we do undertaking that we will relocate service road/approach road/Utilities at my/our own cost not with standing the permission granted within such time as will stipulated by NHAI for the furture four/six laning or any other development.	Yes Enclosed	Yes Enclosed

P. Rajagopal / P. RAJAGOPAL
उप महा प्रबंधक / Dy. Gen. Manager
पावरग्रिड / POWERGRID
नंदयाला सी.ए.ओ./NANDYALA CAO



PROJECT DIRECTOR
NHAI, P.I.U. KURNOOL

CHECK LIST

Guidelines for processing the proposal for approval of crossing of 765KV D/C Kurnool-III PS - Maheswaram GIS (PG) overhead transmission line near Thangadancha Village, Jupadu Bungalow Mandal at 36+015KM i.e., between the KM stones from Km.43 to Km.44 towards Dornala

Sl. No.	Item	Information/Status	IE Comments
6	who will sign the agreement on behalf of overhaed HT Transmission line agency	The Deputy General Manager M/s POWER GRID CORPORATION OF INDIA LIMITED, Nandyal CAO, Plot No.-103, Nandi Paradise. Kranti Nagar, Nandyal-518601, Andhra Pradesh	The Deputy General Manager M/s POWER GRID CORPORATION OF INDIA LIMITED, Nandyal CAO, Plot No.-103, Nandi Paradise. Kranti Nagar, Nandyal-518601, Andhra Pradesh
6.1	Power of attorney to sign the agreement is available or not	Yes	Yes, available
7	Certificate from the Project Director		
7.1	certificate for confirming of all standard condition issued vide Ministry Circular No RW/NH-33044/29/2015-S&R dated 22.11.2016	Yes	Yes
7.2	Certificate from PD in the following format		
	i)it is certified that any other location of the overhead HT line would be extremely difficult and unreasonable costly and the crossing of overhead HT line will not adversely affects the desigh, stability and traffic safety of the Highway nor the likely furture improvement such as widening of the carriageway, asing of curve etc.	Yes	Yes
	ii)For 6 lanning a)where feasibility is available I do certify that there will be no hindrance to proposed six-laning based on the feasibility report considering proposed stricture at the said loaction. b)In case feasibility report is not available I do certify that sufficient ROW at site for accommodating proposed 6 lining	NA	NA
8	if NH section proposed to be taken up by NHAI on BOT basis a clause to be inserted in the agreement. "The permitted Highway on which Licensee has been granted the right to lay overhead power transmission line has also been granted as a right of way to the concessionaire under the concession agreement for Design engineering, Financing.Procurement, construction, operation & Maintenance of 2 lanning of Atmakur-Nandikotkur Section NH-340C section from Km to km of NMH No. ----- on Build, Operate and Transfer Basis] and therefore, the licensee shall honour the same.	NA	NA
9	Who will supervise the work of laying of overhead HT Transission Line		
	a)On behalf of the applicant	The Deputy General Manager M/s POWER GRID CORPORATION OF INDIA LIMITED, Nandyal CAO, Plot No.-103, Nandi Paradise. Kranti Nagar, Nandyal-518601, Andhra Pradesh	The Deputy General Manager M/s POWER GRID CORPORATION OF INDIA LIMITED, Nandyal CAO, Plot No.-103, Nandi Paradise. Kranti Nagar, Nandyal-518601, Andhra Pradesh
	b)on Behalf of MoRTH/NHAI	PD, NHAI, Kumool	PD, NHAI, Kumool
10	who will ensure that the defects in road portion after laying of utility line are corrected and if not corrected then what action will be taken.		
	a)On behalf of the applicant	The Deputy General Manager M/s POWER GRID CORPORATION OF INDIA LIMITED, Nandyal CAO, Plot No.-103, Nandi Paradise. Kranti Nagar, Nandyal-518601, Andhra Pradesh	The Deputy General Manager M/s POWER GRID CORPORATION OF INDIA LIMITED, Nandyal CAO, Plot No.-103, Nandi Paradise. Kranti Nagar, Nandyal-518601, Andhra Pradesh
	b)on Behalf of MoRTH/NHAI	PD, NHAI, Kumool	PD, NHAI, Kumool
11	Who will pay the claims for damages done/disruption in working of Concessionaire if asked by the concessionaire	The Deputy General Manager M/s POWER GRID CORPORATION OF INDIA LIMITED, Nandyal CAO, Plot No.-103, Nandi Paradise. Kranti Nagar, Nandyal-518601, Andhra Pradesh	The Deputy General Manager M/s POWER GRID CORPORATION OF INDIA LIMITED, Nandyal CAO, Plot No.-103, Nandi Paradise. Kranti Nagar, Nandyal-518601, Andhra Pradesh
12	A Certificate from PD that he will enter the Yes proposed permission in the register of records of the permissions in the prescribed proforma(Copy enclosed)	Yes, Enclosed	Yes, Enclosed
13	If any previous approval is accorded for laying overhead HT Line crossing then Photocopy of register of records of permissions accorded as maintained by PD	Yes, Enclosed	Yes, Enclosed

P. Rajagopal / P. RAJAGOPAL
उप महा प्रबंधक / Dy. Gen. Manager
पावरग्रिड / POWERGRID
नंदयाला सी.ए.ओ. / NANDYALA CAO



PROJECT DIRECTOR
NHAI, P.U. KURNOOL

SINGLE LINE DIAGRAMME OF PROPOSED 765 KV D/C T/L (KURNOOL-III - MAHESHWARAM) NATIONAL HIGHWAY-340C CROSSING PROPOSAL

TO ATMAKUR

KURNOOL TO DORNALA NATIONAL HIGHWAY

PROPOSED KURNOOL-III S/S

LOC NO - 57/8
DA+03

SPAN: 39.7M

CHAINAGE: 36+015 KM

122M

118.5M

7M

69'

124M

ROW CORRIDOR=67.0M

CONDUCTOR CORRIDOR=30.0M

120.5M

15.0m

33.5m

33.5m

SPAN: 29.5M

LOC NO - AP 59
DD45+00
35°12'00" LT
VILL - THANGADANCHI

PROPOSED MAHESHWARAM S/S

LOC NO -59/1
DA-03

NH BLACK TOP

LOC NO - AP 58
DB2+00
12°19'05" RT
VILL - THANGADANCHI

Shubham

Deputy Manager
NHAI-P.I.U. Kurnool.

PROJECT DIRECTOR
NHAI, P.I.U. KURNOOL

Imudal
(Civil Model)

SUBRAT KUMAR DIXIT
Manager (Projects)
SKIPPER LIMITED



अनेम सतोष महेश्वर Santosh
प्रबंधक / MANAGER
पावरग्रिड / POWERGRID
नंद्याल सी.ए.ओ. / NANDYAL CAO

पी. राजगोपाल / P. RAJAGOPAL
उप महा प्रबंधक / Dy. Gen. Manager
पावरग्रिड / POWERGRID
नंद्याल सी.ए.ओ. / NANDYAL CAO

F. B. D. H.

NH-340C

KURNOOL-DORNALA

MILESTONE-43

NH 340C

MILESTONE-44

CHAINAGE: 36+015 KM

AP 58

LINE CROSSING RHS TO LHS @KM 36+015

57/8

AP59

59/1

Google Earth

Image © 2024 Maxar Technologies

Inspected
Sunil Mondal

Legend

600 m

प. राजगोपाल / P. RAJAGOPAL
उप महा प्रबंधक / Dy. Gen. Manager
पावरग्रिड / POWERGRID
नंद्याला सी.ए.ओ./NANDYALA CAO

A. Santosh
अनेम सताप रेड्डी / ANEEM SANTOSH
प्रबंधक / MANAGER
पावरग्रिड / POWERGRID
नंद्याला सी.ए.ओ. / NANDYALA CAO



NAME OF PROJECT :- 765KV D/C KURNOL- III - MAHESHWARAM TRANSMISSION LINE PART-1

NAME OF CLIENT :- POWER GRID CORPORATION OF INDIA LIMITED

NAME OF AGENCY :- M/s. SKIPPER LIMITED

TOWER SCHEDULE

Sl. No	Tower No.	Tower Type	Deviation Angle (DMS)	Span (m)	Section Length (m)	Cum. Chainage (m)	Wind Span (m)	Adjacent Span			Weight Span (Cold)			Weight Span (Hot)			Major Crossings (with in 33.5m either side from CL)/Remarks	UTM Coordinate (Zone - 44P)		Elevation	Spherical Coordinate		Village Name
								Left	Right	Total	Left	Right	Total	Left	Right	Total		Easting	Northing		Longitude	Latitude	
1	57/8	DA+03		397		0	410.0	423	397	820	210.0	225.8	435.8	210.4	218.4	428.8		218245.311	1754244.786	285.87	78°22'09.48" E	15°51'04.36" N	
2	AP58	DB2+00	12°19'05" RT			397	321.5	397	246	643	171.2	137.6	308.8	178.6	133.7	312.3	Nala, 11KV Line	218045.819	1754587.942	283.63	78°22'02.65" E	15°51'15.43" N	THANGADANCHIA
3	AP59	DD45+00	35°12'00" LT	246		643	270.5	246	295	541	108.4	182.1	290.5	112.3	172.8	285.1	National Highway-340C (Atmakur-Nandikotkur), LT Line, 11KV Line, 33KV Line, Nala, 11KV Line, Cart Track, Lamoni Garden	217970.391	1754822.125	281.89	78°21'60.00"E	15°51'23.01"N	THANGADANCHIA
4	59/1	DA-03		295		938	347.0	295	399	694	112.9	153.9	266.8	122.3	166.3	288.6	2 Nos 11 KV Line, Cart Track, LT Line, Well	217734.844	1754999.279	279.95	78°21'52.03"E	15°51'28.67"N	

FOR SKIPPER LTD

FOR POWER GRID CORPORATION OF INDIA LIMITED

SURVEYED BY		CHECKED BY		SUBMITTED BY		CHECKED BY		RECOMMENDED BY		APPROVED BY	
<p align="center"><i>Smadhal</i> (Sivil Nanddal)</p>		<p align="center"><i>Smadhal</i> (Sivil Nanddal)</p>		<p align="center"><i>Smadhal</i> (Sivil Nanddal)</p>		<p align="center"><i>A. Sundar Mohan</i> अश्वमेध संतोष रेड्डी / Annem Santosh प्रबंधक / MANAGER पावरग्रिड / POWERGRID नंद्याल सी.ए.ओ. / NANDYAL CAO</p>		<p align="center"><i>D. Rajendra</i> डी. राजेन्द्रा / D. RAJENDRA प्रबंधक / MANAGER पावरग्रिड / POWERGRID नंद्याल सी.ए.ओ. / NANDYAL CAO</p>		<p align="center"><i>P. Rajagopal</i> पी. राजगोपाल / P. RAJAGOPAL उप महा प्रबंधक / Dy. Gen. Manager पावरग्रिड / POWERGRID नंद्याल सी.ए.ओ. / NANDYAL CAO</p>	



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
(सडक परिवहन ओर राजमार्ग मंत्रालय)
NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Road Transport & Highways, Govt. of India)
Project Implementation Unit - KURNOOL



H. No. 76/97-SLVC-P-154, SLV Colony, Near Hyderabad Public School,
Kurnool - 518 002, Andhra Pradesh.

E-mail: nhaipiukurnool@gmail.com; piukurnool@nhai.org

Ref: NHAI/PIU-KNL/NH340C/PKG-2/2024-25/909

Date: 20.08.2024

To
Independent Engineer,
Highway Engineering Consultant,
H-No: 13-1043, Hazinagar Urdu school lane,
Nandikotkuru-518401,
Nandyal District, A.P,
E-mail-Id: hecmandlematmakur@gmail.com

Sub: Rehabilitation and Upgradation of NH-340C from Mandlem (Existing Km. 38.000 of NH-340C /Design Km. 30.600) to Atmakur (Existing Km.73.000 of NH-340C/Design Km.66.115) (Package-2) to Four Lane with paved shoulder (Design Length = 35.515 Kms) in the state of Andhra Pradesh under NH(O) on Hybrid Annuity Mode - **Submission of documents and approval of overhead power line crossing with NH-340C - Detailed report requested - Reg.**

Ref: 1. PGCIL, Lr. No.SR1/NDL/KM/F-20/NHAI/891/A, dated 20.08.2024.
2. Concession Agreement 19.05.2023.

Gentlemen,

With reference to letter 1st cited, the Independent Engineer is hereby requested to hold joint site inspection with concessionaire and submit a detailed report along with specific recommendations in accordance with the provisions of the Concession Agreement.

Subject matter shall be treated as Most Urgent.

This Issues with approval of Competent Authority.

Yours faithfully,

Shubham

Encl: As above.

(Shubham Singh)
Deputy Manager (Tech.)
For Project Director,
PIU-Kurnool.

Copy to:

1. The PSK Atmakur Expressways Private Limited - for information.

**NHAI - PIU, KURNOOL**

Date 20/08/24	No. 3054-A
Manager SE	
Dy. Manager AC	
POWER GRID CORPORATION OF INDIA LIMITED	
(A Government of India Enterprise)	

पावर गिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड
POWER GRID CORPORATION OF INDIA LIMITED
(A Government of India Enterprise)



Date: 20.08.2024

Ref: SR1/NDL/KM/F-20/NHAI/

To
The Project Director
Project Implementation Unit
National Highway Authority of India,
Kurnool, (A P)

Subject : Construction of 765kV Kurnool III PS- Maheshwaram (PG) transmission line - **Submission of documents and approval of overhead power line crossing with NH-340C-reg**

Ref : (a) Letter from POWERGRID dated 15.12.2023 regarding approval of NH crossing.
(b) Letter from POWERGRID dated 27.05.2024 regarding approval of NH crossing

Sir,

This has reference to our letter dated 15.12.2023 & 27.05.2024 requesting approval of overhead crossing of subject line with National Highway NH-340C, the following documents are enclosed herewith for kind perusal and approval of subject overhead power transmission line crossing with National Highway NH-340C.

1. Checklist for laying of utility transmission line.
2. Agreement regarding granting of ROW permission for laying of utility services on NH.
3. Undertakings and certificates.
4. Methodology of stringing.
5. Strip plan and google earth crossing photo.
6. Details of overhead transmission line including conductor and earth wire properties.
7. Calculation of license fee.

Three copies of Crossing profile and SLD were submitted along with our letter dated 27.05.2024. Considering the above, it is requested to process our application for approval of overhead power line crossing on National Highway NH-340C at chainage 36+015 KM.

Encl: A/a

Thanking you,

Yours faithfully
For POWERGRID


(P.Raja Gopal)

DGM, Nandyal CAO

palirajaqopal@powergrid.in

9449596065

साइट कार्यालय: प्लॉट नंबर -103, नंदी पैराडाइज, क्रांति नगर, नंद्याल (मंडल और जिला) -518501, आंध्र प्रदेश

Site Office: Plot No-103, Nandi Paradise, Kranthi Nagar, Nandyal(Mandal&District)-518501, Andhra Pradesh

द क्षेत्र प्र-1 मुख्य कार्यालय: 6-6-8/32&395ई, कवाडीगूडा मेन रोड, सिकंदराबाद - 500080, तेलंगाना, दूरभाष: 040-27546658

SRTS-I HQ:6-6-8/32&395E, Kavadiguda Main Road, Secunderabad - 500080 Telangana State, Tel: 040-27546658

केंद्रीय कार्यालय:सौदामिनी। प्लॉट नं. सेक्टर -29, गुरुग्राम-122001 (हरियाणा), ई पी ए बी एक्स:0124-2822000 फैक्स: 0124-2571762

Corporate Office: Saudamini, Plot No.2, Sector-29, Gurugram-122 001 (Haryana) EPABX:0124-2822000, Fax:0124-2571762

पंजीकृत कार्यालय: बी-9, कुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराय, नई दिल्ली - 110016 दूरभाष: 011-26560112,26560121,26564812,26564892, सी आई

एन:140101DL1989GO1038121

Registered Office: B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi - 110 016, Tel: 011-26560112 Fax:011-26601081 CIN:140101DL1989GO1038121

Website: <https://www.powergrid.in/>

Ref: SR1/NDL/KM/F-20/NHA/

Date: 27.05.2024

To
The Project Director
Project Implementation Unit
National Highway Authority of India,
Kurnool, (A P)

Subject : Construction of 765KV Kurnool III PS- Maheshwaram (PG) transmission line - **Submission of documents and approval of overhead power line crossing with NH-340C-reg**

Ref : (a) Letter from POWERGRID dated 15.12.2023 regarding approval of NH crossing.

Sir,

This has reference to our letter dated 15.12.2023 requesting approval of overhead crossing of subject line with National Highway NH-340C, the following documents are enclosed herewith for kind perusal and approval of subject overhead power transmission line crossing with National Highway NH-340C.

1. Checklist for laying of utility transmission line.
2. Agreement regarding granting of ROW permission for laying of utility services on NH.
3. Undertakings and certificates.
4. Methodology of stringing.
5. Strip plan and google earth crossing photo.
6. Details of overhead transmission line including conductor and earth wire properties.
7. Calculation of license fee.
8. Online application.

Three copies of Crossing profile and SLD were submitted along with our letter dated 15.12.2023. Considering the above, it is requested to process our application for approval of overhead power line crossing on National Highway NH-340C at chainage 36+015 KM.

Incl: A/a

Thanking you,

call for a detailed report from IE

NHAI - PIU, KURNOOL	
Date 28/05/24	No. 2158
Manager	SE ✓
Dy. Manager	AC
LAO	ITE
PA / Steno	Y.H.E.

Yours faithfully
For POWERGRID
P. Raja Gopal
(P.Raja Gopal)
DGM, Nandyal CAO
palirajagopal@powergrid.in
9449596065

साइट कार्यालय: प्लॉट नंबर -103, नंदी पैराडाइज, क्रांति नगर, नंद्याल (मंडल और जिला) -518501, आंध्र प्रदेश

Site Office: Plot No-103, Nandi Paradise, Kranthi Nagar, Nandyal(Mandal&District)-518501, Andhra Pradesh

द क्षेत्र पा प्र-1 मुख्य कार्यालय: 6-6-8/32&395ई, कवाडीगुडा मेन रोड, सिकंदराबाद - 500080, तेलंगाना, दूरभाष: 040-27546658

SRTS-I HQ: 6-6-8/32&395E, Kavadiguda Main Road, Secunderabad - 500080 Telangana State, Tel: 040-27546658

केंद्रीय कार्यालय:सौदामिनी। प्लॉट नं. सेक्टर -29, गुरुग्राम-122001 (हरियाणा), ई पी ए बी एक्स:0124-2822000 फैक्स: 0124-2571762

Corporate Office: Saudamini, Plot No.2, Sector-29, Gurugram-122 001 (Haryana) EPABX:0124-2822000, Fax:0124-2571762

पंजीकृत कार्यालय: बी-9, कुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराय, नई दिल्ली - 110016 दूरभाष: 011-26560112,26560121,26564812,26564892, सी आई

एन:140101DL1989GO1038121

Registered Office: B-9, Outab Institutional Area, Katwaria Sarai, New Delhi - 110 016. Tel: 011-26560112 Fax:011-26601081 CIN:L40101DL1989GO1038121



पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड
(भारत सरकार का उपक्रम)
POWER GRID CORPORATION OF INDIA LIMITED
(A Government of India Enterprise)

Ref: SR1/NDL/KK/F-20/NHA/



Date: 15.12.2023

To
The Project Director
Project Implementation Unit
National Highway Authority of India,
KURNOOL, A.P.

Subject : Construction of 765kV D/C transmission line from Kurnool IH (PS) at Nandipadu village, Kollimgundla mandal – 765kV Maheswaram GIS (PG) - National Highway Crossing approval – reg.

Sir,

As you may kindly be aware that, Power Grid Corporation of India Limited, is a MAHARATNA Central Public Sector Enterprise, under the administrative control of the Minister of Power, Govt of India is entrusted with construction and maintenance of EHV transmission lines across our country to cater the need of power every look and corner of the Country.

To ensure energy security of the country and to provide sustainable reliable cheap electricity to all, Government of India has undertaken ambitious 500GW RE capacity addition programme. Under this, Government of AP is promoting investment and renewables generation in Kurnool area. To enable this, RE power evacuation through the National Grid, POWERGRID has been entrusted by Government of India to execute subject transmission system by Oct'24 under compressed time schedule.

The subject 765KV D/C Transmission line is being constructed with target commissioning by Oct'2024 to evacuate the power from RE sources in Kurnool Wind Energy(3000MW) and Solar Energy (1500 MW). Approval of Govt of India under Section 68(1) of Electricity Act, 2003 for implementing the scheme is attached at Annexure-I for your kind reference.

While constructing the subject transmission line, the following National Highways under your jurisdiction are required to be crossed compulsory, crossing wise details are given below for your ready reference.

S N o	Name of the National Highway is to be crossed	KM stone of NHA	Location no of POWER GRID	Nearby village	Vertical electrical clearance	Required vertical clearance as per CEA norms
1	NH340C Between Nandikotkur - Kurnool	43-44	AP58- AP59	Thangada ncha	25.7 mtr	18.8 mtr ✓

साइट कार्यालय: प्लॉट नंबर-103, नंदी पैराडिस, क्रांति नगर, नंदाल (मंडल और जिला) -518501, आंध्र प्रदेश
Site Office: Plot No-103, Nandi Paradise, Kranti Nagar, Nandyal (Mandal & District)-518501, Andhra Pradesh
व क्षेत्र प्र-1 मुख्य कार्यालय: 6-6-8/32&395ई, कबाडीगुड़ा मेन रोड, सिकंदराबाद - 500080, तेलंगाना, दूरभाष: 040-27546658
SRTH HQ-6-6-8/32&395E, Kavadiguda Main Road, Secunderabad - 500080 Telangana State, Tel: 040-27546658
केन्द्रीय कार्यालय:सौदामिनी। प्लॉट नं. सेक्टर-29, गुरुग्राम-122001 (हरियाणा), ई पी ए बी एक्स:0124-2822000 फेक्स: 0124-2571762
Corporate Office: Saudamini, Plot No.2, Sector-29, Gurugram-122 001 (Haryana) EPABX:0124-2822000, Fax:0124-2571762
पंजीकृत कार्यालय: बी-9, कुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराय, नई दिल्ली - 110016 दूरभाष: 011-26560112, 26560121, 26564812, 26564892, सी आई
एन: L4010XDL1989G O1038121
Registered Office: B-9, Kutub Institutional Area, Katwaria Sarai, New Delhi - 110 016 Tel: 011-26560112 Fax: 011-26560121





INDIA NON JUDICIAL



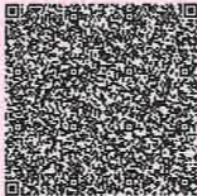
Government of Andhra Pradesh

IN-AP89116012798239W

e-Stamp

Certificate No. : IN-AP89116012798239W
Certificate Issued Date : 25-May-2024 12:10 PM
Account Reference : NEWIMPACC (SV)/ ap18016504/ AP-NDL/ AP-NYL/apsamiahu
DDO Code : 27002308001 O/o IG R
Unique Doc. Reference : SUBIN-APAP1801650466839211792261W
Purchased by : POWER GRID CORPORATION OF INDIA LTD NANDYAL CAO
Description of Document : Article 6(C) Agreement In any other case
Property Description : Not Applicable
Consideration Price (Rs.) : 0
(Zero)
First Party : POWER GRID CORPORATION OF INDIA LTD NANDYAL CAO
Second Party : EXECUTIVE ENGINEER R AND B APRDC DIVISION KURNOOL
Paid By : POWER GRID CORPORATION OF INDIA LTD NANDYAL CAO
Stamp Duty Amount(Rs.) : 50
(Fifty only)

C.LAKSHMI BHARATHI
ACCID:ap18016504
ESTAMP VENDOR
NANDYAL Dist.



Please write or type below this line

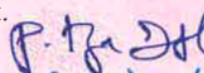
IN-AP89116012798239W

**AGREEMENT REGARDING GRANTING OF RIGHT OF WAY
PERMISSIONS**

FOR LAYING UTILITY SERVICES ON NATIONAL HIGHWAYS

Agreement for laying of Kurnool III PS-Maheswaram GIS (PG) 765 kV D/C Overhead Power Transmission Line across National Highway No.340C (Atmakur-Nandikotkur Section) at 36+015 KM (i.e.,) in between KM 43 to KM 44 Near Thangadancha Village, Jupadu Bungalow Mandal in Nandyal District, Andhra Pradesh.

This Agreement made this _____ day of _____ (month) of **2024** between **NHAI, PIU, Kurnool & Power Grid Corporation of India Limited, Nandyal CAO** acting in his executive capacity through National Highway Authority of India(hereinafter referred to as the "Authority" which expression shall unless excluded by or repugnant to the context, include its successors in office and assigns) on the one part and Power Grid Corporation of India Limited, a company registered under the Companies Act, 1956 and having its Registered Office at B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi-110016 (hereinafter called the "Licensee") which expression shall unless excluded by or repugnant to the context, include its successors/administrators, assigns on the second part.


पी. राजगोपाल / P. RAJAGOPAL
उप महा प्रबंधक / Dy. Gen. Manager
पावरग्रिड / POWERGRID
नंद्याल सी.ए.ओ./NANDYALA CAO

0009061337

Statutory Alert

1. The authenticity of this Stamp certificate should be verified at 'www.shcilestamp.com' or using e-Stamp Mobile App of Stock Holding. Any discrepancy in the details on this Certificate and as available on the website / Mobile App renders it invalid.
2. The onus of checking the legitimacy is on the users of the certificate.
3. In case of any discrepancy please inform the Competent Authority.

Whereas the Authority is responsible, inter-alia, for development and maintenance of lands in
Km to Km of NH No.340C RoW ;

Whereas the Licensee proposes to lay Kurnool III PS-Maheswaram GIS (PG) 765 kV D/C Overhead Power Transmission Line across National Highway No.340C (Atmakur-Nandikotkur Section) at 36+015 KM (i.e.) in between KM~~43~~ to Km~~44~~ Near Thangadancha Village, Jupadu Bungalow Mandal in Nandyal District, Andhra Pradesh referred to as utility services in subsequent paras.

Whereas the Licensee has applied to the Authority for permission to lay utility services from
Km.....Km.....of road/upto.....;

And whereas the Authority has agreed to grant such permission for way leave on the NH-340C RoW as per terms and conditions hereinafter mentioned.

Now this agreement witnesseth that in consideration of the conditions hereinafter contained and on the part of the Licensee to be observed and performed, the Authority hereby grants to the Licensee permission to lay utility services as per the approved drawing attached hereto subject to the following conditions, namely.

1. RoW permissions are only enabling in nature. The purpose of extending the way leave facility on the National Highway RoW is not for enhancing the scope of activity of a utility service provider, either by content or by intent. Further, enforceability of the permission so granted shall be restricted only to the extent of provisions/scope of activities defined in the license agreement & for the purpose for which it is granted.
2. No Licensee shall claim exclusive right on the RoW and any subsequent user will be permitted to use the RoW, either above or below, or by the side of the utilities laid by the first user, subject to technical requirements being fulfilled. Decision of the Authority in relation to fulfilment of technical requirements shall be final and binding on all concerned parties. In case any disruption /damage is caused to any existing user by the subsequent user, the Authority shall not be held accountable or liable in any manner.
3. The Licensee shall be responsible for undertaking all activities including, but not limited to site identification, survey, design, engineering, arranging finance, project management, obtaining regulatory approvals & necessary clearances, supply of equipment, material, construction, erection, testing and commissioning, maintenance and operation and all other activities essential or required for efficient functioning of their own utility/ industrial infrastructure facilities.
4. The Licensee shall pay license fees @ Rs ____./sq m/month to the Authority. The License fee shall become payable from the date of handing over of RoW land to the Licensee, for laying of utilities/cables/conduits/pipelines for infrastructure/ service provider. As regards Tariff and Terms and conditions for providing common utility ducts along National Highways, there shall be a separate agreement regime.
5. Fee shall have to be paid in advance for the period for which permission is granted for entering into a license agreement. In case of renewal, rate prevailing at the time of


P. B. JH
पी. राजगोपाल / P. RAJAGOPAL
उप महा प्रबंधक / Dy. Gen. Manager
पावरग्रिड / POWERGRID
नंद्याला सी.ए.ओ. / NANDYALA C.E.O.

renewal shall be charged. Delay in deposition of fee shall attract interest @ 15% per annum compounded annually.

6. Present policy of the MoRT&H is to provide a 2.00 m wide utility corridor on either side of the extreme edge of RoW. In cases where utility ducts with sufficient space are already available along NH, the utility services shall be laid in such ducts subject to technical requirements being fulfilled.
7. The utility services shall be laid at the edge of the RoW. In case of restricted width of RoW, which may be adequate only to accommodate the carriageway, central verge, shoulders, slopes of embankment, drains, other roadside furniture etc., the utility services shall be laid beyond the toe line of the embankments and clear of the drain.
8. The Licensee shall make his own arrangement for crossing of cross drainage structure, rivers, etc. below the bed. In case, this is not feasible, the utility services may be carried outside the railings/parapets and the bridge superstructure. The fixing and supporting arrangement with all details shall be required to be approved in advance from the concerned Highway Administration. Additional cost on account of fixing and supporting arrangement as assessed by the Authority shall be payable by the Licensee.
9. In exceptional cases, where RoW is restricted the utility services can be allowed beneath the carriageway of service road, if available, subject to the condition that the utility services be laid in concrete ducts, which will be designed to carry traffic on top. The width of the duct shall not be less than one lane. In such cases, it also needs to ensure that maintenance of the utility services shall not interfere with the safe and smooth flow of traffic. The cost of operation and maintenance will have to be borne by the Licensee.
10. It is to be ensured that at no time there is interference with the drainage of the road land and maintenance of the National Highways. Towards this, the top of the utility services shall be at least 0.6 metre below the ground level. However, any structure above ground shall be aesthetically provided for / landscaped with required safety measures as directed by the concerned Authority.
11. The utility services shall be permitted to cross the National Highway (NH 340C) either through structure or conduits specially built for that purpose. The casing / conduit pipe should, as minimum, extend from drain to drain in cuts and toe of slope to toe of slope in the fills and shall be designed in accordance with the provision of IRC and executed following the Specifications of the Ministry.
12. Existing drainage structures shall not be allowed to carry the lines across.
13. N.A.
14. The utility services shall cross the National Highway (NH 340C) preferable on a line normal to it or as nearly so as practicable.
15. The casing/conduit pipe for crossing the road may be installed under the road embankment either by boring or digging a trench. Installation by boring method shall be preferred.

पी. राजगोपाल / P. RAJAGOPAL
उप महा प्रबंधक / Dy. Gen. Manager
पावरग्रिड / POWERGRID
नंद्याला सी.ए.ओ. / NANDYALA S.E.O.

16. In case of trenching, the sides of the trench should be done as nearly vertical as possible. The trench width should be at least 30 cm. but not more than 60 cms wider than the outer diameter of the pipe. Filling of the trench shall conform to the specifications contained here-in-below or as supplied by the Highway Authority.
- Bedding shall be to a depth not less than 30 cm. It shall consist of granular material, free of lumps, clods, and cobbles, and graded to yield a firm surface without sudden change in the bearing value. Unsuitable soil and rock edges should be excavated and replaced by selected material.
 - The backfill shall be completed in two stages (i) Side-fill to the level of the top of the pipe (ii) Overfill to the bottom of the road crust.
 - The side fill shall consist of granular material laid in 15 cm. Layers each consolidated by mechanical tamping and controlled addition of moisture to 95% of the Proctor's Density. Overfill shall be compacted to the same density as the material that had been removed. Consolidation by saturation or ponding will not be permitted.
 - The road crust shall be built to the same strength as the existing crust on either side of the trench or to thickness and specifications stipulated by the Highway Authority.
17. The Licensee shall ensure making good the excavated trench for laying utility services by proper filling and compaction, so as to restore the land into the same condition as it was before digging the trench, clearing debris/loose earth produced due to execution of trenching at least 50m away from the edge of the right of way.
18. All required restoration works subsequent to laying of the electrical line shall be required to be undertaken by the Licensee at its cost either by itself or through its authorized representative in consultation with the Authority as per predetermined time schedule and quality standards.
19. Prior to commencement of any work on the ground, a performance Bank Guarantee @ Rs.....per route metre /Rs.....per sq m with a validity of one year initially (extendable if required till satisfactory completion of work) shall have to be furnished by the Licensee to the Authority/its designated agency as a security against improper restoration of ground in terms of filling/unsatisfactory compaction damages caused to other underground installations/utility services & interference, interruption, disruption or failure caused thereof to any services etc. In case of the Licensee failing to discharge the obligation of making good of the excavated trench/other restoration work, the Authority shall have a right to make good the damages caused by excavation, at the cost of the Licensee and recover the amount by forfeiture of the Bank Guarantee.
20. In case, the Performance Bank Guarantee is invoked as mentioned above, the Licensee shall be required to replenish and reinstate the required Performance Bank Guarantee within one month of such invoking. In case the work contemplated herein is not completed to the satisfaction of the Authority, which has granted the permission, within a period of 11 months from the date of issue of the Bank Guarantee, the Licensee shall either furnish a fresh guarantee or extend the guarantee for a further period of one year.


पी.राजगोपाल / P. RAJAGOPAL
उप महा प्रबंधक / Dy. Gen. Manager
पावरग्रिड / POWERGRID
नंदयाला सी.ए.ओ. / NANDYALA CAO

Notwithstanding this, the Licensee shall be liable to pay full compensation to the aggrieved Authority/ its designated agency for any damage sustained by them by reason of the exercise of the RoW facility.

21. The Licensee shall shift the utility services within 90 days (or as specified by the respective Authority) from the date of issue of the notice by the concerned Authority to shift/relocate the utility services, in case it is so required for the purpose of improvement/widening of the road/route/highway or construction of flyover/bridge and restore the road/land to its original condition at his own cost and risk.
22. The Licensee shall be responsible to ascertain from the respective agency in coordination with Authority, regarding the location of other utilities /underground installations/ facilities etc. The Licensee shall ensure the safety and security of already existing underground installations/utilities/facilities etc. before commencement of the excavation /using the existing cable ducts. The Licensee shall procure insurance from a reputed insurance company against damages to already existing underground installations /utilities/facilities etc.
23. The Licensee shall be solely responsible/ liable for full compensation/indemnification of concerned agency / aggrieved Authority for any direct, indirect, or consequential damage caused to them/claims or replacements sought for, at the cost and risk of the Licensee. The concerned agency in coordination with Authority shall also have a right make good such damages/ recover the claims by forfeiture of Bank Guarantee.
24. If the Licensee fails to comply with any condition to the satisfaction of the Authority, the same shall be executed by the Authority at the cost and risk of the Licensee.
25. Grant of License is subject to the Licensee satisfying (a) minimum disruption of traffic and (b) no damage to the highways. As far as possible, the Licensee should avoid cutting of the road for crossing highway, and other roads and try to carry out the work by trenchless technology. In case any damage is caused to the road pavement in this process, the Licensee will be required to restore the road to the original condition at its cost. If due to unavoidable reasons the road needs to be cut for crossing or laying utility services, the Licensee has to execute the restoration work in a time bound manner at its cost either by itself or through its authorized representative in consultation with the Authority as per predetermined time schedule and quality standards. In case of the Licensee failing to discharge the obligation of making good of the excavated trench/other restoration work, the Authority shall have a right to make good the damages caused by excavation, at the cost of the Licensee and recover the amount by forfeiture of the Bank Guarantee.
26. The Licensee shall inform/give a notice to the concerned agency designated by the Authority at least 15 days in advance with route details prior to digging trenches, for fresh or maintenance/repair works. A separate performance Bank Guarantee for maintenance /repair works shall have to be furnished by the Licensee.

पी. राजगोपाल / P. RAJAGOPAL
उप महा प्रबंधक / Dy. Genl. Manager
पावरग्रिड / POWERGRID
नंद्याला सी.ए.ओ./NANDYALA CAO

27. Each day, the extent of digging the trenches should be strictly regulated so that utility services is laid, and trenches filled up before the close of the work that day. Filling

should be completed to the satisfaction of the concerned agency designated by the Authority.

28. The licensee shall indemnify the concerned agency in co-ordination with Authority, against all damages and claims, if any due to the digging of trenches for laying cables/ducts.
29. The permission for laying utility services is granted maximum for 5 years at a time, which can thereafter be considered for renewal. On payment of additional fee at the time of renewal, the permission shall automatically be renewed, unless defaults exist. In case of renewal, rate prevailing at the time of renewal shall be charged. Delay in deposition of fee shall attract interest @ 15% per annum compounded annually.
30. The permission shall be valid only for the period it is issued, and fee deposited. However, the Authority also has a right to terminate the permission or to extend the period of Agreement.
31. That the Licensee shall not undertake any work of shifting, repairs, or alterations to the utility services without prior written permission of the concerned agency in coordination with the Authority.
32. The permission granted shall not in any way be deemed to convey to the Licensee any ownership right or any interest in route/road/highway land /property, other than what is herein expressly granted. No use of NH RoW will be permitted for any purpose other than that specified in the Agreement.
33. During the subsistence of this Agreement, the utility services located in highway land / property shall be deemed to have been constructed and continued only by the consent and permission of the Authority so that the right of the Licensee to the use thereof shall not become absolute and indefeasible by lapse of time.
34. The Licensee shall bear the Stamp Duty charged on this Agreement.
35. N.A
36. The Licensee shall allow free access to the Site at all times to the authorised representatives of Authority to inspect the Project Facilities and to investigate any matter within their Authority, and upon reasonable notice, shall provide reasonable assistance necessary to carry out their respective duties and functions.
37. The utility services shall not be made operational by the Licensee unless a completion certificate to the effect that the utility services has been laid in accordance with the approved specifications and drawings and the trenches have been filled up to the satisfaction of the concerned agency in co-ordination with the Authority has been obtained. Notwithstanding anything contained herein, this Agreement may be cancelled at any time by Authority for breach of any condition of the same and the Licensee shall not be entitled to any compensation for any loss caused to it by such cancellation nor shall it be absolved from any liability already incurred.

P. Rajagopal / P. RAJAGOPAL
उप महा प्रबंधक / Dy. Gen. Manager
पावरग्रिड / POWERGRID
नंद्याला सी.ए.ओ. / NANDYALA S.E.O.


38. The Licensee shall ensure adherence to relevant Indian standards and follow best industry practices, methods, and standards for the purpose of ensuring the safe, efficient and economic design, construction, commissioning, operation, repair and maintenance of any part of the utility lines/industrial infrastructure facilities and which practices, methods and standards shall be adjusted as necessary, to take account of:
- operation, repairs, and maintenance guidelines given by the manufacturers,
 - the requirements of Law,
 - the physical conditions at the Site, and
 - The safety of operating personnel and human beings.
39. The Licensee shall have to provide safety measures like barricading, danger lighting and other necessary caution boards while executing the work.
40. While laying utility services, at least one lane of road shall be kept open to traffic at all times. In case of single lane roads, a diversion shall be constructed. If any traffic diversion works are found necessary during the working period such diversion shall be provided at the cost of Licensee.
41. After the termination/expiry of the agreement, the Licensee shall remove the utility services within 90 days and the site shall be brought back to the original condition failing which the Licensee will lose the right to remove the utility services. However, before taking up the work of removal of utility services the Licensee shall furnish a Bank Guarantee to the Authority for a period of one year for an amount assessed by the Authority as a security for making good the excavated trench by proper filling and compaction, clearing debris, loose earth produced due to excavation of trenching at least 50m away from the edge of the RoW.
42. Any disputes in interpretation of the terms and conditions of this Agreement or their implementation shall be referred to the redress mechanism prevailing in the Ministry and the decision of the redress mechanism shall be final and binding on all.
43. For PPP Projects, in case of any financial loss incurred by the respective project concessionaires due to such laying/shifting of utility services by the Licensee, compensation for the same shall be required to be borne by the Licensee in mutual agreement with the respective project concessionaires. MoRT &H/ NHAI implementing authorities for the project shall not be liable to the concessionaire in any way in this regard.

This agreement has been made in duplicate, each on a Stamp Paper, each party to this Agreement has retained one stamped copy each.

IN WITNESS WHEREOF THE PARTIES HERETO HAVE CAUSED THIS AGREEMENT TO BE EXECUTED THROUGH THEIR RESPECTIVE AUTHORISED REPRESENTATIVES THE DAY, MONTH AND THE YEAR FIRST ABOVE WRITTEN.


SIGNED SEALED AND DELIVERED FOR AND ON BEHALF OF AUTHORITY.

BY SHRI _____


पी. राजगोपाल / P. RAJAGOPAL
उप महा प्रबंधक / Dy. Gen. Manager
पावरग्रिड / POWERGRID
नंद्याला सी.ए.ओ. / NANDYALA C.E.O.

(Signature, name & address with stamp)

SIGNED ON BEHALF OF M/s POWERGRID (LICENSEE)


पी.राजगोपाल / P. RAJAGOPAL
उप महा प्रबंधक / Dy. Gen. Manager
पावरग्रिड / POWERGRID
नंद्याला सी.ए.ओ./NANDYALA CAO

BY SHRI

(Signature, name & address with stamp)

HOLDER OF GENERAL POWER OF ATTORNEY DATED _____ EXECUTED IN
ACCORDANCE WITH THE RESOLUTION NO. _____ DATED _____ PASSED BY THE
BOARD OF DIRECTORS IN THE MEETING HELD ON _____

IN THE PRESENCE OF (WITNESSES):

1. A. Santosh Mdy., SANTOSH DEDDY ANNEM,
Flat. No. 112, Nandi paradise, Nandyala - 518501.
2. D. Rajendra, D. Rajendra, Manager
Villa no. 103, Nandi Paradise,
Kraanti Nagar, Nandyal - 518501



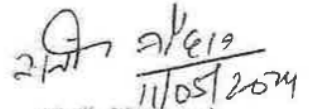
पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड
(भारत सरकार का उद्यम)
POWER GRID CORPORATION OF INDIA LIMITED
(A Government of India Enterprise)

Ref: SR1/NDL/KM/F-20/NHAI/Auth

Date: 11.05.2024

LETTER OF AUTHORISATION

Shri P. Raja Gopal, Emp No : 60001660, Deputy General Manager, POWERGRID, Nandyal CAO, is hereby authorized to represent Power Grid Corporation of India Limited, a Maharatna Public Sector Enterprise of Govt. of India, to prepare and sign all necessary documents including but not limited to undertakings, certificates, agreements etc., for obtaining any and all clearances, licenses and permits for construction of 765kV D/C Kurnool III PS - Maheshwaram Transmission Line being constructed in Nandyal district of Andhra Pradesh state.


(S.K. Chowan)
Sr.GM

एस. के. चौहान / S.K. CHOWAN
वरि. महा प्रबंधक / Sr. Gen. Manager
पावरग्रिड / POWERGRID
नंद्याल सी.ए.ओ. / NANDYAL CAO



INDIA NON JUDICIAL

Government of Andhra Pradesh

IN-AP89116653099998W

e-Stamp

Certificate No. : IN-AP89116653099998W
Certificate Issued Date : 25-May-2024 12:11 PM
Account Reference : NEWIMPACC (SV)/ ap18016504/ AP-NDL/ AP-NYL/apsamiahu
DDO Code : 27002308001 O/o IG R
Unique Doc. Reference : SUBIN-APAP1801650466842923877294W
Purchased by : POWER GRID CORPORATION OF INDIA LTD NANDYAL CAO
Description of Document : Article 6(C) Agreement In any other case
Property Description : Not Applicable
Consideration Price (Rs.) : 0
(Zero)
First Party : POWER GRID CORPORATION OF INDIA LTD NANDYAL CAO
Second Party : EXECUTIVE ENGINEER R AND B APRDC DIVISION KURNOOL
Paid By : POWER GRID CORPORATION OF INDIA LTD NANDYAL CAO
Stamp Duty Amount(Rs.) : 10
(Ten only)

C.LAKSHMI BHARATH
ACCID:ap18016504
ESTAMP VENDOR
NANDYAL Dist.



Please write or type below this line

IN-AP89116653099998W

UNDERTAKING

It is proposed to carry out stringing activity of 765 KV D/C Transmission Line from Kurnool III (PS) at Nandipadu village, Kolimigundla Mandal, Nandyal District to 765KV Maheswaram GIS (PG) at Maheshwaram Mandal, Rangareddy District.

This Section is crossing National highway NH-340C (Atmakur-Nandikotkur Section) at 36+015 KM (i.e.) in between KM⁴³ to KM⁴⁴ Near Thangadancha Village, Jupadu Bungalow Mandal in Nandyal District, Andhra Pradesh. This Section of the National Highway is under the control of Project Director, Project Implementation Unit, NHAI, Kurnool.

Stringing would be executed by Power Grid Corporation of India Limited.

In this context, I (P Raja Gopal, DGM, Nandyal CAO, on behalf of Power grid Corporation of India Limited), hereby undertake that,

पी. राजगोपाल / P. RAJAGOPAL

उप महा प्रबंधक / Dy. Gen. Manager

पावरग्रिड / POWERGRID


नंद्याला सी.ए.ओ./NANDYALA CAO

HUF 0009061338

Statutory Alert:

1. The authenticity of this Stamp certificate should be verified at 'www.shcilestamp.com' or using e-Stamp Mobile App of Stock Holding.
2. Any discrepancy in the details on this Certificate and as available on the website / Mobile App renders it invalid.
3. The onus of checking the legitimacy is on the users of the certificate.
3. In case of any discrepancy please inform the Competent Authority.

- a) We would pay or compensate for any damage caused to the NHAI property as per the direction of the PD, PIU, NHAI, Kurnool on Highway at 36+015KM during the execution of the above work.
- b) We will ensure compliance during stringing work of all safety norms that may be specified by NHAI from time to time for safe plying of the road traffic on Highway at 36+015KM during the execution of the above work.
- c) We will ensure that the traffic movement during stringing work will be managed by Power Grid Corporation of India Limited.
- d) During the ⁴2nd lanning or further development works of the National highway NH-340C (Kurnool-Dornala NH) at 36+015 KM (i.e.,) in between KM. ~~43~~ to Km ~~44~~ Near Thangadancha Village, Jupadu Bungalow Mandal in Nandyal District, Andhra Pradesh, we will relocate the transmission lines at our cost as per the instructions of NHAI.
- e) If necessary, we will shift the electricity power transmission lines out of working zone of NHAI at our own cost. However, if delay in shifting the same by us happens and if NHAI wants to shift the same at their cost, then any kind of damage to the Power Grid Corporation of India Limited & property and any sort of disturbance to the public user occurred will be the responsibility of PowerGrid Corporation of India Limited.
- f) We will submit required licensee fee for crossing of 01 no 765 KV D/C Transmission Line from Kurnool III (PS) at Nandipadu village, Kolimigundla mandal, Nandyal District to 765KV Maheswaram GIS (PG) at Maheshwaram Mandal, Rangareddy District, as and when directed by NHAI.
- g) We will follow the provisions of IRC 32-1969, CEA Regulations/Statutory provisions of Indian electricity rules and other relevant guidelines issued.


पी. राजगोपाल / P. RAJAGOPAL
उप महा प्रबंधक / Dy. Gen. Manager
पावरग्रिड / POWERGRID
नंद्याला सी.ए.ओ./NANDYALA CAO



INDIA NON JUDICIAL



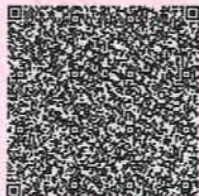
Government of Andhra Pradesh

IN-AP89118144348283W

e-Stamp

Certificate No. : IN-AP89118144348283W
 Certificate Issued Date : 25-May-2024 12:13 PM
 Account Reference : NEWIMPACC (SV)/ ap18016504/ AP-NDL/ AP-NYL/apsamiahu
 DDO Code : 27002308001 O/o IG R
 Unique Doc. Reference : SUBIN-APAP1801650466844166610637W
 Purchased by : POWER GRID CORPORATION OF INDIA LTD NANDYAL CAO
 Description of Document : Article 6(C) Agreement In any other case
 Property Description : Not Applicable
 Consideration Price (Rs.) : 0
 (Zero)
 First Party : POWER GRID CORPORATION OF INDIA LTD NANDYAL CAO
 Second Party : EXECUTIVE ENGINEER R AND B APRDC DIVISION KURNOOL
 Paid By : POWER GRID CORPORATION OF INDIA LTD NANDYAL CAO
 Stamp Duty Amount(Rs.) : 10
 (Ten only)

C.LAKSHMI BHARATHI
 ACCID:ap18016504
 ESTAMP VENDOR
 NANDYAL Dist.



Please write or type below this line

UNDERTAKING

1. The Work of Erection of 765 KV D/C Transmission Line from Kurnool III (PS) at Nandipadu village, Kolimigundla Mandal, Nandyal District to 765KV Maheswaram GIS (PG) at Maheshwaram Mandal, Rangareddy District overhead crossing of National highway NH-340C (Kurnool-Dornala NH) at 36+015 KM (i.e.,) in between KM.43 to Km.44 Near Thangadancha Village, Jupadu Bungalow Mandal in Nandyal District, Andhra Pradesh, will be carried out only after getting approval from the Competent Authority.
2. We shall be responsible for safety of all construction works, such as Erection of towers, Stringing of line along and across the NH road.
3. We shall inform the officers of NHAI at least 15 days in advance before starting the work.

P. RAJAGOPAL / P. RAJAGOPAL

उप महा प्रबंधक / Dy. Gen. Manager

पावरग्रिड / POWERGRID


नंदयल / NANDYAL CAO




0009061339

1. The authenticity of this Stamp certificate should be verified at 'www.shoilestamp.com' or using e-Stamp Mobile App of Stock Holding.
 Any discrepancy in the details on this Certificate and as available on the website / Mobile App renders it invalid.
 2. The onus of checking the legitimacy is on the users of the certificate.
 3. In case of any discrepancy please inform the Competent Authority.

4. We shall not, without prior permission in writing of the concern officers of the NHAI undertake any shifting and other alternation works of this erected power lines.
5. NHAI shall not be responsible for any damage caused to the power supply lines or by any activity of our side on the permitted highway. The parties agreed that we are laying the power supply lines on the permitted highway at its own cost.
6. The excavated tower pit shall be properly back filled, so as to restore the land in the same condition as it was before the excavation of the pits and shall clear the debris/loose earth produced from the execution of the tower erection and lines.
7. We agree to abide by the directions of the concerned officer of NHAI appointed in accordance with the National Highways act 1956 and rules in force. Certified that no damage to the other utility will be done, if damage then to pay the losses either to NHAI or to the concerned agency.
8. We are conforming to all standard conditions of NHAI guidelines.
9. We shall be responsible for shifting the electrical line as and when required by NHAI at our own cost.
10. We shall be responsible for shifting due to widening of NH.
11. We agree indemnity against all damages and claims clause.
12. We will manage traffic movement during the laying of power supply line.
13. We undertake to shift the electrical lines and supporting tower structures at any time owing to the expansion of the road or if necessary, by NHAI authorities.
14. We will borne expenditure if any incurred by NHAI for repairing any damages caused to National Highway by the laying of the line, maintenance or shifting of the electrical supply line will be borne by the agency owning the line.
15. If the NHAI considers, if necessary, in future to move the utility line for any work of improvement or repairs to the road, it will be carried out as desired by the NHAI at the cost of ours owing the utility line within a reasonable time.
16. Certify that laying of electrical supply line will not have any deleterious effects on any of the bridge components and roadway safety for traffic.


पी.राजगोपाल / P. RAJAGOPAL
उप महा प्रबंधक / Dy. Gen. Manager
पावरग्रिड / POWERGRID
नंद्याला सी.ए.ओ./NANDYALA CAO

17. We will not damage any avenue plantation during the execution of our work. However, if any un-avoidable damage happens to plantation, then we will replace the plants in 1:5 ratio as per the standard specifications of NHAI at our own cost including maintenance for 5 years.
18. We will provide safety measures like barricading, danger lighting and other necessary cautionary boards while executing the work.
19. We shall ensure the safety and security of already existing utilities.
20. We shall arrange all the clearances including Forest Clearance required for laying the utility as per drawing. We shall also arrange for shifting of utilities, if required at his own cost as per the directions of concerned Department.
21. We shall ensure that at no time there is interference with drainages of road, land and maintenance of NH.
22. If any claim is raised by the Concessionaire/contractor due to the damages, then the same has to be paid by us.
23. We will submit the license Fee and Bank Guarantee, if any applicable for the above said transmission line crossing work, then the same will be paid by us.
24. We will obtain prior approval of NHAI before undertaking any work of installation, shifting or repair of alternations to the utility line located in National Highway right-of-way.
25. The expenditure, if any incurred by NHAI for repairing any damage caused to the National Highway by laying, maintenance or shifting of the utility line will be borne by us.
26. The text license deed is as per verbatim of MORTH format issued vide ministry's circular number: RW-NH-33044/29/2015/S&R(R) dated: 22-11-2016.
27. We have obtained various safety clearances from the concerned authorities such as Directorate of Electricity, Chief controller of Explosives, Petroleum and Explosive Safety Organization, Oil Industry Safety Directorate, State/Central Pollution Control Board and any other statutory clearances applicable, before applying to Highway Administration.


पी. राजगोपाल / P. RAJAGOPAL
उप महा प्रबंधक / Dy. Gen. Manager
पावरग्रिड / POWERGRID
नंद्याला सी.ए.ओ./NANDYALA CAO

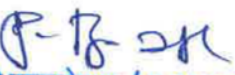
28. If the MoRTH/NHAI considers it necessary in future to move the utility line for any work of improvement or repair to the road, it will be carried out as desired by the MoRTH/NHAI at our own cost within the reasonable time (not exceeding 60 days) of the intimation given.


पी. राजगोपाल / P. RAJAGOPAL
उप महा प्रबंधक / Dy. Gen. Manager
पावरग्रिड / POWERGRID
नंद्याला सी.ए.ओ./NANDYALA CAO

M/s POWER GRID CORPORATION OF INDIA LTD Proposed National Highway No:340C Crossing of 765KV D/C Transmission Line from Kurnool III(PS) at Nandipadu Village, Kolimigundla mandal, Nandyal District to 765KV Maheshwaram (PG) GIS at Maheshwaram Mandal, Rangareddy District.

Methodology of carrying out the Stringing activities

1. The aim of this exercise is to carry out the stringing of 765KV powerline across the National Highway No.340C between the tower AP 58 and AP 59 with the span of 246 metres. The distance of the tower AP 58 from centre line of the road is 122 metres and of AP59 is 124 metres. After the stringing a clearance of 25.7 metres would be maintained from the road surface to the bottom most conductor of the line.
2. Wooden/metal scaffolding of 12 metres height 3 metres width would be installed on either side of the National Highway 340C. A distance of 10 metres would be kept from the edge of the highway to the edge of the scaffolding to provide safe distance in case of collapse of scaffoldings. This scaffolding would be carrying only earth wire.
3. Earth wire would be strung first as shown in the figure. To pass earthwire over the road, a polypropylene rope (Pilot rope) would be extended from scaffolding of one side and connected to the edge of the earth wire which would be on the scaffolding on other side. Once the connection is made, the pilot rope is pulled with tractor on the other side taking the earth wire on the wooden scaffolding. While pulling the Earth wire due to self-weight the earth wire will take catenary shape and hence traffic need to be stopped for about 15 minutes.
4. Once the earth wire is pulled completely it would be connected to the ends of the peak as shown in the figure.
5. Later the 6*6 conductors will be dragged in the same manner as said above in case of earth wire by making up them on one side and every time there needs to be stoppage of traffic for about 15 minutes with time gap between one conductor and another likewise all six conductors will be lifted, and final stringing will be completed one by one.
6. During the above process every effort will be kept maintaining clearance from road and 15 to 20 minutes blockage of traffic would be necessary intermittently.
7. All Safety measures shall be followed as insisted by NHAI at the time of execution of work.


पी. राजगोपाल / P. RAJAGOPAL
उप महा प्रबंधक / Dy. Gen. Manager
पावरग्रिड / POWERGRID
नंद्याला सी.ए.ओ./NANDYALA CAO



INDIA NON JUDICIAL



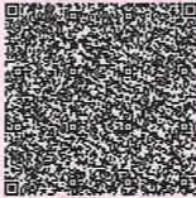
Government of Andhra Pradesh

IN-AP89118830083706W

e-Stamp

Certificate No. : IN-AP89118830083706W
Certificate Issued Date : 25-May-2024 12:14 PM
Account Reference : NEWIMPACC (SV)/ ap18016504/ AP-NDL/ AP-NYL/apsamiahu
DDO Code : 27002308001 O/o IG R
Unique Doc. Reference : SUBIN-APAP1801650466845614998138W
Purchased by : POWER GRID CORPORATION OF INDIA LTD NANDYAL CAO
Description of Document : Article 6(C) Agreement In any other case
Property Description : Not Applicable
Consideration Price (Rs.) : 0
(Zero)
First Party : POWER GRID CORPORATION OF INDIA LTD NANDYAL CAO
Second Party : EXECUTIVE ENGINEER R AND B APRDC DIVISION KURNOOL
Paid By : POWER GRID CORPORATION OF INDIA LTD NANDYAL CAO
Stamp Duty Amount(Rs.) : 10
(Ten only)

C.LAKSHMI BHARATHI
ACCID:ap18016504
ESTAMP VENDOR
NANDYAL Dist.



Please write or type below this line

IN-AP89118830083706W

CERTIFICATE

1. The work of Erection of 765 KV D/C Transmission Line from Kurnool III (PS) at Nandipadu village, Kolimigundla mandal, Nandyal District to 765KV Maheswaram GIS (PG) at Maheshwaram Mandal, Rangareddy District crossing of National highway NH-340C (Kurnool-Dornala NH) at 36+015 KM (i.e.,) in between KM₄₃ to KM₄₄ Near Thangadancha Village, Jupadu Bungalow Mandal in Nandyal District, Andhra Pradesh.

We hereby certify that,

- a) Laying of utility line will not have any deleterious effects on any of the bridge components and roadway safety for traffic.
- b) We do undertake that we will relocate service road/approach road/Utilities at my/our own cost notwithstanding the permission granted within such time as will stipulated by NHAI for future six lining or any other development.

प्री. राजगोपाल / P. RAJAGOPAL
उप महा प्रबंधक / Dy. Gen. Manager
पावरग्रिड / POWERGRID
नंद्याला सी.ए.ओ./NANDYALA CAO



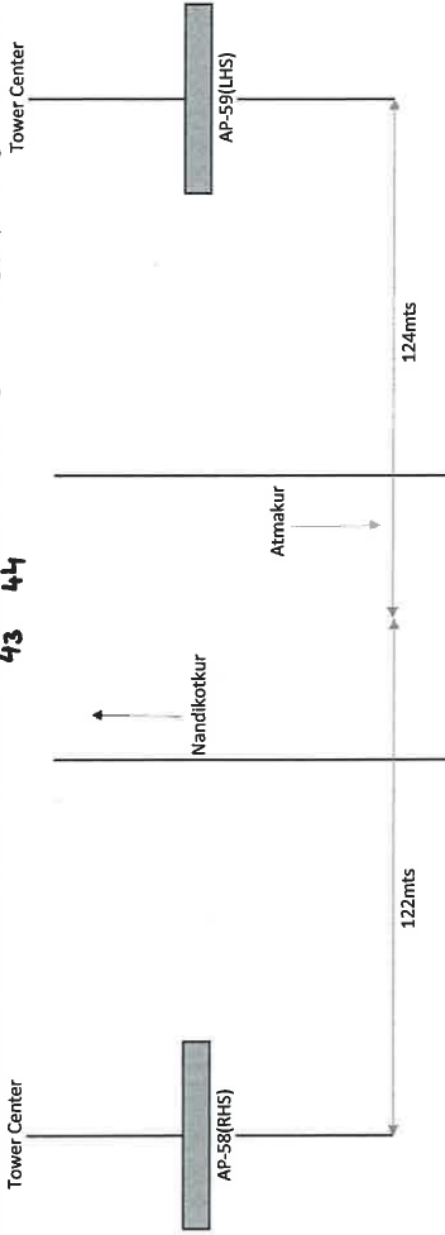
0009061340

Statutory Alert:

1. The authenticity of this Stamp certificate should be verified at 'www.shcilestamp.com' or using e-Stamp Mobile App of Stock Holding. Any discrepancy in the details on this Certificate and as available on the website / Mobile App renders it invalid.
2. The onus of checking the legitimacy is on the users of the certificate.
3. In case of any discrepancy please inform the Competent Authority.

M/s POWERGRID CORPORATION OF INDIA LIMITED

Strip plan showing the crossing of 765KV D/C Transmission Line from Kurnool III(PS) at Nandipadu Village, Kolimigundla mandal, Nandyal District to 765KV Maheshwaram (PG) SS at Maheshwaram Onvakal Mandal, Rangareddy District at 36+015KM in between chainage from KM 43 to KM 44 of NH340C Near Thangadancha Village, Jupadu Bungalow mandal in Nandyal District, Andhra Pradesh



Note

Drawing not to scale, All dimensions are in meters




पी. राजगोपाल / P. RAJAGOPAL
 उप महा प्रबंधक / Dy. Gen. Manager
 पावरग्रिड / POWERGRID
 नंदयाला सी.ए.ओ./NANDYALA

POWERGRID CORPORATION OF INDIA LIMITED		
765 KV D/C KURNOOL-III - MAHESHWARAM TRANSMISSION LINE		
NH-340C CROSSING DETAILS (AT KM CHAINAGE 36+015 KM, BETWEEN STONE NUMBERS : 43 & 44)		
SL.NO.	LINE DETAILS:	
1	NAME OF THE PROPOSED LINE	765KV D/C KURNOOL-III -MAHESHWARAM TRANSMISSION LINE
2	NAME OF THE HIGHWAY	KURNOOL-DORNALA, NH-340C
3	CROSSING BETWEEN TOWER LOC NOS.	TOWER LOC.No. AP58-AP59
4	CROSSING BETWEEN TWO KM STONE NOS	EXISTING STONE No. 43 & 44
5	CROSSING AT KM CHAINAGE	36+015KM
6	CROSSING NEAREST VILLAGE	Thangadancha
7	CROSSING ANGLE	89°00'00"
8	CROSSING SPAN	246.0 m
9	MINIMUM GROUND CLEARANCE REQUIRED FROM BOTTOM CONDUCTOR TO TOP OF THE ROAD	18.8 m
10	GROUND CLEARANCE AVAILABLE FROM BOTTOM CONDUCTOR TO TOP OF THE ROAD	25.7 m
	TOWER DETAILS:-	
11	Structures used to cross NH-340C and their deviation angles	AP58-DB2+00 (12°19'05" RT)
12	DISTANCE FROM LOC.No.AP58 TO NH-340C (Tower Leg/Nearerst Point of Tower with NH centre)	AP59-DD45+00 (35°12'00" LT)
13	DISTANCE FROM LOC.No.AP59 TO NH-340C (Tower Leg/Nearerst Point of Tower with NH centre)	122.0 m
14	HEIGHT OF THE LOC.No.AP58 (DB2+00)	124.0 m
15	HEIGHT OF THE LOC.No.AP59 (DD45+00)	70.20 m
16	CO-ORDINATES OF LOC.No. AP58	70.20 m
17	CO-ORDINATES OF LOC.No. AP59	78°22'02.65" E 15°51'15.43" N
		78°21'60.00" E 15°51'23.01" N


 पी. राजगोपाल / P. RAJAGOPAL
 उप महा प्रबंधक / Dy. Gen. Manager
 पावरग्रिड / POWERGRID
 नंद्याला सी.ए.ओ./NANDYALA CAO

CONDUCTOR PROPERTIES & INITIAL COMBINATION		
	PROPERTIES	
1	CONDUCTOR NAME	HEXA ACSR ZEBRA
2	UTS....(KG)	13289
3	AREA OF CONDUCTOR...(SQ.MM)	484.5
4	WEIGHT OF CONDUCTOR....(Kg/M)	1.621
5	DIAMETER OF CONDUCTOR....(mm)	28.62
6	MODULUS OF ELASTICITY.....(Kg/Sq.M)	7036
7	COEFF.OF LINEAR EXPANSION.....Per Deg C	0.0000193
	INITIAL COMBINATION	
1	WIND PRESSURE ON CONDUCTOR....(Kg/Sq.m)	Top conductor-185.2, Middle-176.6, Bottom-165.3
2	INITIAL CONDUCTOR TEMP.....(DEG C)	32
3	INITIAL WIND.....%	0
4	RESULTANT TENSION(Kg) AT 32 DEG C & NO WIND	2923.6
5	NORMAL SPAN	400


 पी.राजगोपाल / P. RAJAGOPAL
 उप महा प्रबंधक / Dy. Gen. Manager
 पावरग्रिड / POWERGRID
 नंद्याला सी.ए.ओ./NANDYALA CAO

EARTHWIRE PROPERTIES & INITIAL COMBINATION

	PROPERTIES	
1	CONDUCTOR NAME	EARTHWIRE(GSS)
2	UTS....(KG)	6972.5
3	AREA OF CONDUCTOR...(SQ.MM)	73.6
4	WEIGHT OF CONDUCTOR....(Kg/M)	0.583
5	DIAMETER OF CONDUCTOR....(mm)	10.98
6	MODULUS OF ELASTICITY.....(Kg/Sq.M)	19361
7	COEFF.OF LINEAR EXPANSION.....Per Deg C	0.0000115
	INITIAL COMBINATION	
1	WIND PRESSURE ON CONDUCTOR....(Kg/Sq.mm)	226.7
2	INITIAL CONDUCTOR TEMP.....(DEG C)	0
3	INITIAL WIND.....%	0
4	RESULTANT TENSION(Kg) AT 32 DEG C & NO WIND	3353.2
5	NORMAL SPAN	400


पी. राजगोपाल / P. RAJAGOPAL
उप महा प्रबंधक / Dy. Gen. Manager
पावरग्रिड / POWERGRID
नंद्याला सी.ए.ओ./NANDYALA CAO

Permission for crossing of 765KV DC Transmission Line from Kurnool III(PS) at Nandipadu Village, Kolimigundla mandal to 765KV Kurnool SS(PG) at Orvakal at 36+015KM in between milestones 43 KM & 44 KM Near Thangadancha Village, Jupadu Bunglow mandal in Nandyal District, Andhra Pradesh

P. R. 24
 पी. राजगोपाल / P. RAJAGOPAL
 उप महा प्रोडक / Dy. Gen. Manager
 ग्रिड / POWERGRID
 सी. ए. ओ. / NANDYALA CAD

PSK ATMKUR EXPRESSWAYS P. LTD.
 NH-308
 PKCE-2

SHUBHAM
 Deputy Manager
 NHAI-P.I.U Kurnool

NH-340C
 ENGINEERING CONSULTANT
 HIGHWAY

PROJECT DIRECTOR
 NHAI, P.I.U. KURNOOL



REGISTRATION & STAMPS DEPARTMENT
GOVERNMENT OF ANDHRA PRADESH

- About Us
 - Act & Rules
 - FAQs
 - Values & Rates
 - RTI Act
 - Tenders
 - Download
 - EC Search
 - Find SRO
 - Document Templates
 - E-Stamp
 - Circulars
- Act
- Free CO's
- PIOs/APIOs
- Details of State PIOs

New Department Login

Help Desk? Dial 14544

Asking bribe? Dial 14400

Department Login

it Rates Village Wise

District	Mandal	City/Town/Village	Survey No Wise
NANDYAL	JUPADU BUNGALOW	TANGADANCHA	Select Survey No Wise

Habitation	Survey No	Sub Survey No	Land Rate Rs. per Acre	Nature Of Use	Effective Date
TANGADANCHA	-	-	250000	Dry land	15/04/2023
TANGADANCHA	-	-	250000	Wet Land double crop	15/04/2023
TANGADANCHA	-	-	1000000	Agricultural Land fit for H.S.	15/04/2023
TANGADANCHA	-	-	700000	Land abutting NH/SH/ZPP/MPP	15/04/2023
TANGADANCHA	-	-	250000	Coconut Garden	15/04/2023
TANGADANCHA	-	-	3388000	House Sites	15/04/2023

Go Back

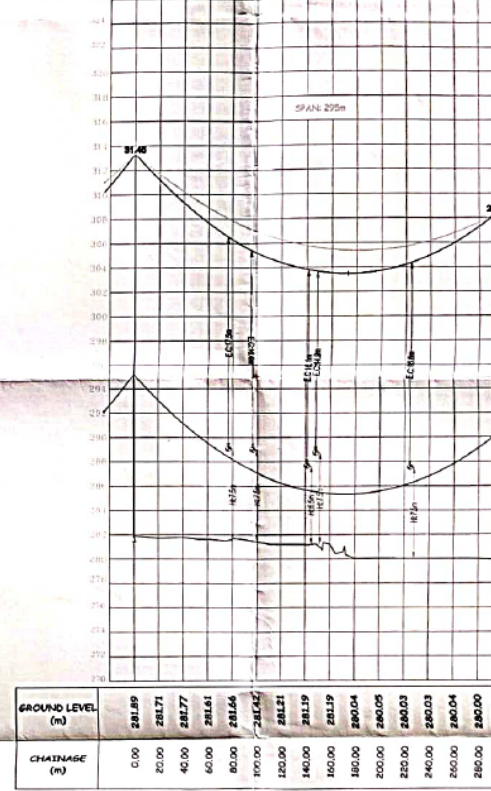
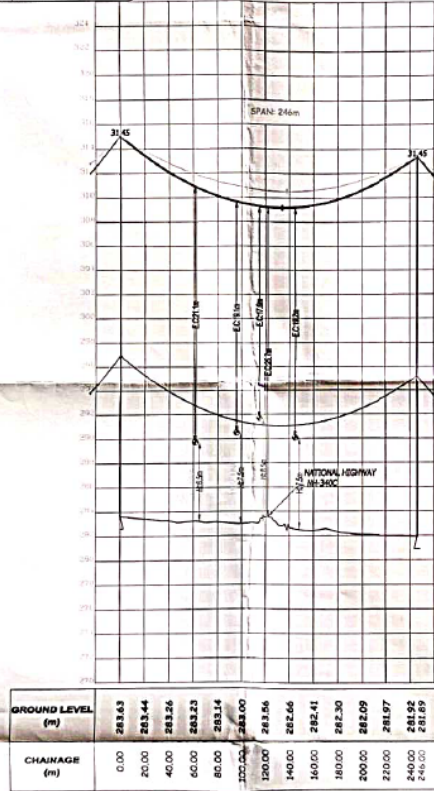
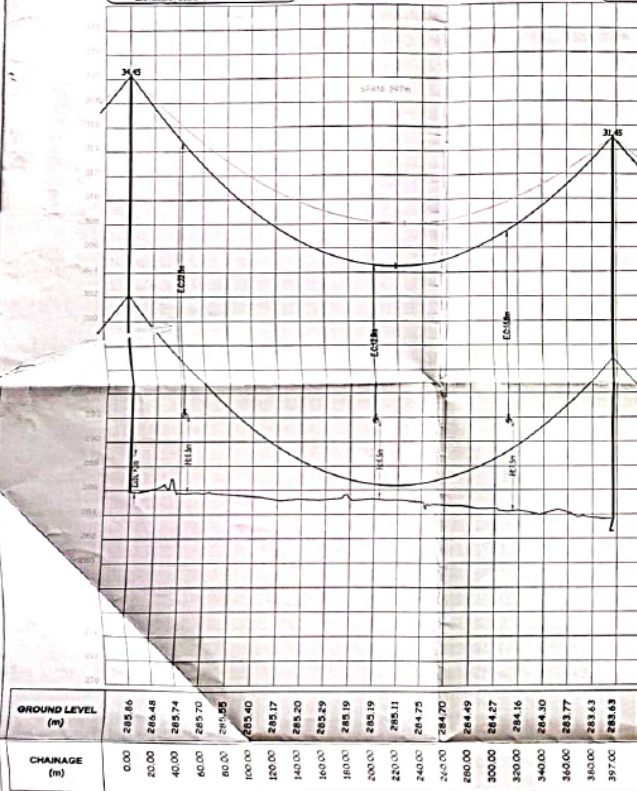
Print PDF

LOC NO:	87#
TOWER TYPE:	DA-03
WIND SPAN:	6-432.6-R-387.8-Y-2416.8m
WT. SPAN (C):	6-118.8-R-323.8-Y-438.8m
WT. SPAN (H):	6-218.4-R-31.4-Y-438.8m
WT. SPAN (H):	6-218.4-R-31.4-Y-438.8m
Latitude:	19°51'24.36" N
Longitude:	78°22'09.48" E
Spatial Coordinate:	
Grid Coordinate:	X:18245.311, Y:1754244.755
Elevation:	255.87m

LOC NO:	AP88
TOWER TYPE:	DA-03
WIND SPAN:	6-432.6-R-387.8-Y-2416.8m
WT. SPAN (C):	6-118.8-R-323.8-Y-438.8m
WT. SPAN (H):	6-218.4-R-31.4-Y-438.8m
WT. SPAN (H):	6-218.4-R-31.4-Y-438.8m
Latitude:	19°51'24.36" N
Longitude:	78°22'09.48" E
Spatial Coordinate:	
Grid Coordinate:	X:18245.311, Y:1754244.755
Elevation:	255.87m

LOC NO:	AP88
TOWER TYPE:	DA-03
WIND SPAN:	6-432.6-R-387.8-Y-2416.8m
WT. SPAN (C):	6-118.8-R-323.8-Y-438.8m
WT. SPAN (H):	6-218.4-R-31.4-Y-438.8m
WT. SPAN (H):	6-218.4-R-31.4-Y-438.8m
Latitude:	19°51'24.36" N
Longitude:	78°22'09.48" E
Spatial Coordinate:	
Grid Coordinate:	X:18245.311, Y:1754244.755
Elevation:	255.87m

LOC NO:	86#
TOWER TYPE:	DA-03
WIND SPAN:	6-432.6-R-387.8-Y-2416.8m
WT. SPAN (C):	6-118.8-R-323.8-Y-438.8m
WT. SPAN (H):	6-218.4-R-31.4-Y-438.8m
WT. SPAN (H):	6-218.4-R-31.4-Y-438.8m
Latitude:	19°51'24.36" N
Longitude:	78°22'09.48" E
Spatial Coordinate:	
Grid Coordinate:	X:18245.311, Y:1754244.755
Elevation:	255.87m



Tower Spacing Data for 765 kV D/C Transmission Line (Wind Zone - 3 (44 m/sec))

1) Conductor	ACSR ZEBRA
2) Cable Diameter	2.962 mm
3) Area	4.845 Sq. mm
4) Ultimate Tensile Strength (UTS)	13.289 Kg
5) Unit Weight	1.821 Kg/m
6) Normal Span (Ruling Span)	400 Mtr.
7) Ground Clearance	18.15 Mtr. (including 0.15 Mtr Sag Error)
8) Sag Tension (For Hot Curve)	2444.4 Kg
9) Sag Tension (For Cold Curve)	2353.1 Kg
10) Maximum Sag (at 85°C temperature, Still Air)	12.243 Mtr.

NOTE - ALL DIMENSION IN METER

Revision Details

Revision	Description	Date	Drawn
R.1			
R.2			
R.3			
R.4			

Scale:

Horizontal Scale: 1:2000 (1 cm = 20m)

Vertical Scale: 1:200 (1 cm = 2m)

CLIENT: POWERGRID CORPORATION OF INDIA LIMITED
(A Government of India enterprise)

CONTRACTOR: **SKIPPER** Limited
M/s SKIPPER LIMITED
KOLKATA, WEST BENGAL, INDIA
www.skipperlimited.com

PROJECT TITLE: Transmission line Tower Package TWO2 for 765 kV DC Kurnool II-Maheshwaram (PG) TL (Part - I) associated with Transmission scheme for Evacuation of power from RE Sources in Kurnool Wind Energy Zone (3000MW) /Solar Energy Zone 1500 MW Part B

DRAWING TITLE: KURNOL TO BOKVALA (NH 340) CROSSING PROPOSAL OF PROPOSED 765 kV D/C KURNOL - II TO MAHESHWARAM TRANSMISSION LINE IN SECTION (AP 58 TO AP 59)

NOA NO: CC/NT/W-TW/DOA/NOA/22/00744/NOA-1/23-102582/01 dated 15.06.2023 (SUPPLY)
CC/NT/W-TW/DOA/NOA/22/00744/NOA-2/23-102582/02 dated 15.06.2023 (SERVICE)

Contractor: **SKIPPER** (Signature: Sunil Mondal)

Client: **POWERGRID** (Signature: A. S. Mondal)

Project Director: **NHAI-PLU Kurnool**