



# 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-KDP/NH-40/765/Crossing/ 2186

Dt: 24.07.2024

### INVITATION OF PUBLIC COMMENTS

**Sub: NHAI, RO - Vijayawada - Design Engineering, Financing, Procurement, Construction, Operation & Maintenance of 4 laning of Cuddapah-Kurnool section of NH-18 from the existing Km.167.750 to Km.356.502 in the State of A.P. under NHDP Phase-III on BOT Basis - Construction of 765 KV D/C transmission line from Kurnool III (PS) at Nandipadu village, Kolimigundla Mandal - 765KV Maheswaram GIS (PG) at Orvakal - Proposal for crossing of 765 KV D/C transmission line at Km.61+325 of NH-40 between Km.61+000 to Km.62+000 near Kowluru Village - Public comments - Reg.**

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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) at Nandipadu village, Kolimigundla Mandal, Nandyal District to 765 KV Maheswaram GIS (PG) at Orvakal Mandal, Kurnool District at Km.61+325 of NH-40 between Km.61+000 to Km.62+000 (from LHS to RHS) near Kowluru Village, Panyam Mandal, Nandyal District, Andhra Pradesh.

2. As per MORTH guidelines vide letter No. RW/NH-33044/29/2015/S&R(R) dated 22<sup>nd</sup> 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](mailto:rovijayawada@nhai.org)**

(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, चलसानी नगर,  
रानीगरीतोटा, कृष्णलंका, 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-KDP/NH-40/765/Crossing/ 2187

Dt: 24.07.2024

To

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

**Sub: NHAI, RO - Vijayawada - Design Engineering, Financing, Procurement, Construction, Operation & Maintenance of 4 laning of Cuddapah-Kurnool section of NH-18 from the existing Km.167.750 to Km.356.502 in the State of A.P. under NHDP Phase-III on BOT Basis - Construction of 765 KV D/C transmission line from Kurnool III (PS) at Nandipadu village, Kolimigundla Mandal - 765KV Maheswaram GIS (PG) at Orvakal - Proposal for crossing of 765 KV D/C transmission line at Km.61+325 of NH-40 between Km.61+000 to Km.62+000 near Kowluru 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) at Nandipadu village, Kolimigundla Mandal, Nandyal District to 765 KV Maheswaram GIS (PG) at Orvakal Mandal, Kurnool District at Km.61+325 of NH-40 between Km.61+000 to Km.62+000 (from LHS to RHS) near Kowluru Village, Panyam Mandal, Nandyal District, Andhra Pradesh.

2. As per MORTH guidelines vide letter No. RW/NH-33044/29/2015/S&R(R) dated 22<sup>nd</sup> November 2016, the application along with the recommendations of PD, PIU-Kadapa & 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.

Yours faithfully,

Encl: As above

(R.K. Singh, IES)

CGM (Tech.) & Regional Officer



# भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

## National Highways Authority of India

(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)

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

परियोजना कार्यान्वयन, इकाई, #1/441/16, लक्ष्मी टावर्स के पीछे,  
नए आर.टी.सी बस स्टैंड के पास, कड़पा - 516 001, वाई.एस.आर जिला, आंध्र प्रदेश

Project Implementation Unit, #1/441/16, Behind Lakshmi Towers, Maruthi Nagar,  
Near RTC Bus Stand, **KADAPA** - 516 001, YSR District, Andhra Pradesh.

ई-मेल/e-mail: piukadapa@nhai.org, kadapanhai@gmail.com; वेब/web: www.nhai.gov.in



NHAI/PIU-KDP/13006/1/2024/NH-40/Access Permission/ 15686

Date 19.06.2024

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:** NHAI, PIU-Kadapa - Design Engineering, Financing, Procurement, Construction, Operation & Maintenance of 4 laning of Cuddapah-Kurnool section of NH-18 from the existing Km.167.750 to Km.356.502 in the State of A.P. under NHDP Phase-III on BOT Basis - Construction of 765 KV D/C transmission line from Kurnool III (PS) at Nandipadu village, Kolimigundla Mandal - 765KV Maheswaram GIS (PG) at Orvakal - **Request for crossing of 765KV D/C transmission line at Km.61+325 of NH-40 between Km.61+000 to Km.62+000 near Kowluru village - Request for approval - Reg.**

**Ref:** (i) Concessionaire - M/s REPL Letter No. REPL/O&M/NHAI/2024/252 dtd.14.06.2024  
(ii) IE - M/s LN Malviya Letter No. LNM/IE/PCK-40/KK-03/2024/568 dtd.14.06.2024  
(iii) T/o. Lr. No. NHAI/PIU-KDP/13006/1/2024/NH-40/Access/15416 dtd.21.05.2024  
(iv) Powergrid Letter No. SR1/NDL/KK/F-20/NHAI/2 dtd.16.05.2024  
(v) MoRT&H guidelines OM No. RW/NH-33044/29/2015/S&R(R) dtd.22.11.2016

Sir,

This has reference to the letter under reference (iv) cited above vide which 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.60+325 of NH-40 between Km.61+000 to Km.62+000 near Kowluru village.

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

3. The Independent Engineer and the Concessionaire vide letters under reference (i) & (ii) cited above has submitted the recommendation of the said proposal duly informing the following;

### Concessionaire Recommendation:

3.1. Location of 765 KV crossing at NH-40 is at KM 295.069 (New NH at Km.61+325)

3.2. Site verified as per drawing submitted by the DGM POWER GRID vide letter at ref. no. SR1/NDL/KM/F-20/NHAI/2 dated 16.05.2024 and observed that the distance between both the towers is 182.59m.

Contd....2

- 3.3. Available ROW of NH-40 is 30m on LHS & 30m on RHS.
- 3.4. Location of two towers are 61.2m beyond the NHAI ROW on both sides which will not affect the future widening of NH-40 in future.
- 3.5. As para no.2.1 of MoRTH circular no. NH-III/P/20/77 dated 08.04.1982, "The tower should be at least 10 to 12m away from the edge of the existing shoulders of the extreme traffic lane and the Pylons of HT lines along crossing the road should be located outside of the NH Land".
- 3.6. As per Para 5.1 of IRC: 32-1969, "The towers should be at minimum distance of 5m from the nearest line of Avenue trees".
- 3.7. It is observed from the drawing that the vertical clearance between the carriageway crown & the lowest point of overhead conductor is 26.2m.
- 3.8. POWERGRID would take the responsibility in case of any accidents or any incidents due to lack of safety measures on National Highway during the execution of the above said work.
- 3.9. In view of the above observations, the Horizontal & Vertical clearances are satisfying as per IRC guidelines the permission can be granted.

**IE Recommendation:**

- 3.10. Laying of Transmission Line should not affect the progress of present and future works in the entire.
- 3.11. The proposed Transmission Lines 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 26.21m (in all seasons) as specified in the application.
- 3.12. The applicant/executing agency has to provide all the necessary safety arrangements and traffic management as per IRC: SP: 55-2014 during execution.
- 3.13. Prior information has to be given to NHAI, Concessionaire and IE regarding the start of the work.
- 3.14. Applicant has considered the crossing length as 60m, whereas as per the Checklist recommended by IE, Utility is crossing the Project Highway at an angle of 89°, for which the crossing length will be 60.06m.
- 3.15. Applicant has considered crossing width of 1m, whereas ROW of the Utility is 67m and once the utility is laid, the area under this crossing will be restricted for further developments.
- 3.16. M/s Powergrid Corporation of India Ltd in Authority's letter dated 16.05.2024, has informed that the proposed electrical line is for Industrial purpose.
- 3.17. As per the MORT&H Guidelines No NH-36094/01/2022-S&R(P&B) (E-208825) dated 24.04.2023, clause 5.1, License fee for Industrial Utilities shall be equal to utilized NH land area X prevailing circle rate of land per unit area X 10% per annum. License Fee for total term of license (upto maximum of 5 years) shall be deposited in advance.
- 3.18. As per Andhra Pradesh revenue records, Prevailing Circle rate of land at the proposed location i.e., Kowlur is ₹18,00,000/- per Acre w.e.f.20.01.2024.

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3.19. Based on the above observations the detailed checklist and License Fee for the subject proposal is ₹8,94,920/- for 5 Years (Calculation sheet has been enclosed for your reference).

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 & Horizontal clearance required for 765KV EHT line is 18.8m & 10.7m. The proposed EHT line is having minimum Vertical clearance of 18.8m & Horizontal clearance of 10.7m from the RoW of NH-40.

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. AP41 & No. AP42 is 248m and angle of crossing is 85°/89°. Hence, the proposal is satisfying the revised CEA guidelines dated 2023.

4.3. The tower line is crossing at Km.61+325 of Main Carriageway between Km.61+000 to Km.62+000 from LHS to RHS of NH-40 (Old NH-18) near Kowlur Village.

4.4. The available RoW is 30m from center line for both sides. M/s. Powergrid Corporation of India Limited has proposed to lay the utility line is 111m from the centre line at LHS and 137m from the center line at RHS.

4.5. Shri. G Nagaraju, 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 of all safety norms during stringing work.
- 4.5.3. Undertaking to ensure the traffic movement during stringing work.
- 4.5.4. Undertaking to relocate the transmission lines at their own cost during the 6-laning or further development works of Kadapa - Kurnool section of NH-40.
- 4.5.5. Undertaking to submit required license fee.
- 4.5.6. Undertaking to follow the provisions 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;
  - c) Laying of utility line will not have any deleterious effects on any of the bridge components and roadway safety for traffic.
  - d) Relocate service road / approach road / Utilities at their own cost notwithstanding the permission granted within such time as stipulated by NHAI for future 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 GIS (PG) at Orvakal Mandal, Kurnool District at Km.61+325 of NH-40 between Km.61+000 to Km.62+000 (from LHS to RHS) near Kowluru village, Panyam Mandal, Nandyal District, Andhra Pradesh.
- 4.5.12. Single line Diagramme of proposed 765KV D/C T/L for crossing of NH (duly signed by the Powergrid Authorities, IE, Concessionaire and Project Director).

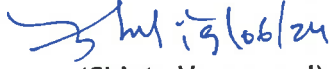
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// 4 //

- 4.5.13. Drawing of the proposed 765KV D/C T/L for crossing of NH (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, it is recommended that necessary approval may please be accorded to Powergrid Corporation of India Limited for crossing of 765 KV D/C transmission line from Kurnool III (PS) at Nandipadu village, Kolimigundla Mandal, Nandyal District to 765KV Maheswaram GIS (PG) at Orvakal Mandal, Kurnool District at Km.61+325 of NH-40 between Km.61+000 to Km.62+000 (from LHS to RHS) near Kowluru village, Panyam Mandal, Nandyal District, Andhra Pradesh.

Encl: As above

Yours Sincerely,  
  
(Chinta Venugopal)  
DGM (Tech.) & Project Director

## INSPECTION REPORT

The proposal for approval of NH-40 crossing of 765 KV D/C transmission line from Kurnool III (PS) at Nandipadu village, Kolimigundla Mandal, Nandyal District to 765KV Maheswaram GIS (PG) at Orvakal Mandal, Kurnool District at Km.61+325 of NH-40 between Km.61+000 to Km.62+000 (from LHS to RHS) near Kowluru village, Panyam Mandal, Nandyal District, Andhra Pradesh by Powergrid Corporation of India Limited was inspected on 17.06.2024 and the report is as follows -

2. The tower line is crossing at Km.61+325 of the Main Carriageway between Km.61+000 to Km.62+000 from LHS to RHS of NH-40 (Old NH-18) near Kowlur Village.
3. The available RoW is 30m from center line for both sides. Powergrid Corporation of India Limited has proposed to lay the utility line is 111m from the centre line at LHS and 137m 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) at Nandipadu village, Kolimigundla Mandal, Nandyal District to 765KV Maheswaram GIS (PG) at Orvakal Mandal, Kurnool District at Km.61+325 of NH-40 between Km.61+000 to Km.62+000 (from LHS to RHS) near Kowluru village, Panyam Mandal, Nandyal District, Andhra Pradesh in accordance with MoRT&H Circular dated 22.11.2016.



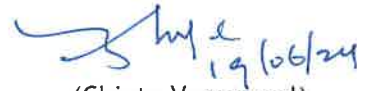
Dy. Manager (Tech.)  
NHAI, PIU-Kadapa



Project Director  
NHAI, PIU-Kadapa

### CERTIFICATE

1. Undersigned has examined the proposal of the applicant for approval of NH-40 crossing of 765 KV D/C transmission line from Kurnool III (PS) at Nandipadu village, Kolimigundla Mandal, Nandyal District to 765KV Maheswaram GIS (PG) at Orvakal Mandal, Kurnool District at Km.61+325 of NH-40 between Km.61+000 to Km.62+000 (from LHS to RHS) near Kowluru village, Panyam Mandal, 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, easing of curve, etc., as the overhead HT transmission line crossing is proposed at 111m (LHS) and 137m (RHS) from the RoW.
3. The Independent Engineer M/s. LN Malviya Infra Projects Pvt. Ltd., in association with Highway Engineering Consultants of the project verified at site and has recommended the proposal vide letter no. LNM/IE/PCK-40/KK-03/2024/568 dated 14.06.2024.
4. The Concessionaire of the Project M/s.Rayalseema Expressway Pvt. Ltd., has given the consent letter no. REPL/O&M/NHAI/2024/252 dated 14.06.2024.
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.



(Chinta Venugopal)  
DGM (Tech.) & Project Director





# L.N MALVIYA INFRA PROJECTS PVT. LTD

Project Office: House No. 29-178-30, 1<sup>st</sup> Floor, Opp. Pyramid School, SBI Colony, Nandyal  
Nandyal District, Andhra Pradesh-518501  
E-mail: [lnmkadapa@gmail.com](mailto:lnmkadapa@gmail.com)

Letter No: LNM/IE/PCK-40/KK-07/2024/568

Date: 14<sup>th</sup> June, 2024

To,  
The Project Director,  
National Highways Authority of India,  
Ministry of Road Transport & Highways,  
Project Implementation Unit – KADAPA,  
D. No. 1/441/16, Behind Lakshmi Towers,  
Maruthi Nagar, Near RTC Bus Stand,  
KADAPA – 516 001, Andhra Pradesh.

**Sub:** Independent Engineer Services during Operation & Maintenance stage of Four Laning of Cuddapah – Kurnool section of NH-18 (New NH-40) from Km.167.750 to Km.356.502 in the state of Andhra Pradesh on BOT (Toll) project under NHDP Phase-III – **Construction of 765 KV D/C transmission line from Kurnool III (PS) at Nandipadu village, Kolimigundla Mandal 765KV Maheswaram GIS (PG) at Orvakal - Request for crossing of 765 KV D/C transmission line at Km.61.325 of NH-40 between Km.61.000 to Km.62.000 near Kowluru village- Reg.**

**Ref:** 1. NHAI/PIU-KDP/13006/1/2024/NH-40/Access Permission/15416, dated 21.05.2024  
2. Powergrid Corporation of India Ltd., Lr No.SR1/NDL/KK/F-20/NHAI/2, dt:16.05.2024

Dear Sir,

This is in response to the Authority's letter cited vide ref no.1, wherein we were requested to examine the proposal of Construction of 765 KV D/C transmission line from Kurnool III (PS) at Nandipadu village, Kolimigundla Mandal 765KV Maheswaram GIS (PG) at Orvakal - Request for crossing of 765 KV D/C transmission line at Km.61.325 of NH-40 between Km.61.000 to Km.62.000 near Kowluru village.

In view of the above, site inspection was carried out along with IE, Concessionaire and M/s. Powergrid Corporation of India Ltd., representatives on 31.05.2024 (Photos enclosed). Accordingly the clarifications furnished by M/s. Powergrid Corporation of India Ltd was reviewed and found in order.

In light of MORT&H/NHAI guidelines, the following comments are issued.

- Laying of Transmission Line should not affect the progress of present and future works in the entire.
- The proposed Transmission Lines 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 26.21m (in all seasons) as specified in the application.
- The applicant/executing agency has to provide all the necessary safety arrangements and traffic management as per IRC:SP:55-2014 during execution.
- Prior information has to be given to NHAI, Concessionaire and IE regarding the start of the work.
- Applicant has considered the crossing length as 60 mts, whereas as per the Checklist recommended by IE, Utility is crossing the Project Highway at an angle of 89°, for which the crossing length will be **60.06 mts**.





# L.N. MALVIYA INFRA PROJECTS PVT. LTD

Project Office: House No. 29-178-30, 1<sup>st</sup> Floor, Opp. Pyramid School, SBI Colony, Nandyal

Nandyal District, Andhra Pradesh-518501

E-mail: [lnmkadapa@gmail.com](mailto:lnmkadapa@gmail.com)

- vi. Applicant has considered crossing width of 1 mts, whereas ROW of the Utility corridor is **67 mts** and once the utility is laid, the area under this crossing will be restricted for further developments.
- vii. M/s Powergrid Corporation of India Ltd in Authority's letter vide ref no 2, has informed that the proposed electrical line is for Industrial purpose.
- viii. As per the MORT&H Guidelines No NH-36094/01/2022-S&R(P&B) (E-208825), dated 24.04.2023, clause 5.1, License fee for Industrial Utilities shall be equal to utilized NH land area X prevailing circle rate of land per unit area X 10% per annum. License Fee for total term of license (upto maximum of 5 years) shall be deposited in advance.
- ix. As per Andhra Pradesh revenue records, Prevailing Circle rate of land at the proposed location i.e Kowluru is ₹ 1800000/- per Acre w.e.f dated 20.01.2024

Based on the above observations the detailed checklist and License Fee for the subject proposal is ₹ 894920/- for 5 Years (Calculation sheet has been enclosed for your reference).

This is for your information and necessary action please.

Yours Faithfully,



**P. SUDHAKARA RAO**

Team Leader

NH-40

M/s L.N. Malviya Infra Projects Pvt Ltd.

**Encl:** Checklist

- C/c: 1.The Authorized Signatory, M/S REPL, Nandyal  
2. Head Office L. N. Malviya Infra Projects Pvt Ltd, Bhopal.

Ref: REPL/O&M/NHAI/2024/252

To,  
The Project Director,  
National Highways Authority of India,  
Project Implementation Unit, Kadapa,  
D.No. 1/441/16, Behind Lakshmi Towers, Maruthi  
Kadapa - 516 001, YSR Dist.

NHAI-PIU, KADAPA	
Inw.	23018
Date	14.06.24
Mgr-1	Mgr-2
SE-1	SE-2
SE-3	SE-4
AO	PA/Steno
IT	YHE

Date: 14.06.2024

*Handwritten notes:*  
8/14/06  
8/03/06  
Vrgent  
14/6

**Sub:** Design, Engineering, Financing, Construction, Operation and Maintenance of four Lanning of Cuddapah - Kurnool Section of NH-18 from the existing Km 167.750 to Km 356.502 in the State of Andhra Pradesh under NHDP Phase-III on BOT Basis - **Construction of 765 KV D/C transmission line from Kurnool III (PS) at Nandipadu village, Kolimigundla Mandal 765KV Maheswaram GIS (PG) at Orvakal - Request for crossing of 765 KV D/C transmission line at Km.61.325 of NH-40 between Km.60.000 to Km.61.000 near Kowluru Village - Recommendation called for - Reg.**

Ref: 1. NHAI/PIU-KDP/13006/1/2024//NH-40/Access Permission/15416, Dated 21.05.2024

Dear Sir,

This is in response to the letter, cited at ref.01, regarding the permission for Construction of 765 KV D/C transmission line from Kurnool III (PS) at Nandipadu village, Kolimigundla Mandal 765KV Maheswaram GIS (PG) at Orvakal - Request for crossing of 765 KV D/C transmission line at Km.61.325 of NH-40 between Km.60.000 to Km.61.000 near Kowluru Village.

We have examined the site jointly along with IE & Power grid representative on 31<sup>st</sup> May 2024. The detailed observations as follows:-

- 1) Location of 765 KV crossing at NH-40 is at KM 295.069
- 2) Site verified as per drawing submitted by the DGM POWER GRID vide letter at ref.no.SR1/NDL/KM/F-20/NHAI/2 dated 16.05.2024 and observed that the distance between both the towers is 182.59m.
- 3) Available ROW of NH-40 is 30m on LHS & 30m on RHS.
- 4) Location of two towers are 61.2 m beyond the NHAI ROW on both sides which will not affect the future widening of NH-40 in future.
- 5) As para no.2.1 of MoRTH circular no. NH-III/P/20/77 dated 08.04.1982, "The tower should be at least 10 to 12m away from the edge of the existing shoulders of the extreme traffic lane and the Pylons of HT lines along crossing the road should be located outside of the NH Land"
- 6) As per Para 5.1 of IRC:32-1969, "The towers should be at minimum distance of 5m from the nearest line of Avenue trees"
- 7) It is observed from the drawing that the vertical clearance between the carriageway crown & the lowest point of overhead conductor is 26.2 m.
- 8) POWER GRID would take the responsibility in case of any accidents or any incidents due to lack of safety measures on National Highway during the execution of the above said work



In view of the above observations, the Horizontal & Vertical clearances are satisfying as per IRC Guide lines the permission can be granted

This is for your information please.

Thanking and assuring of our best services always.

Yours Sincerely,

**For Rayalseema Expressway Private Limited.,**





**Madan Mohan Vangara**  
**Authorized Signatory**

Copy to the Team Leader, L. N. Malviya Infra Projects, Nandyal.



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 Kowlur village, Panyam Mandal at Km.61.325 i.e between the KM stones from Km.61+000 to 62+000 Km towards Kadapa			
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-518501, Andhra Pradesh	The Deputy General Manager M/s POWER GRID CORPORATION OF INDIA LIMITED Nandyal CAO, Plot no-103, Nandi Paradise, Kranti Nagar, Nandyal-518501, Andhra Pradesh
1.2	National Highway Number	NH-40	NH-40
1.3	State	Andhra Pradesh	Andhra Pradesh
1.4	Location	Near Kowlur village, Panyam Mandal, Nandyal District	Near Kowlur village, Panyam Mandal, Nandyal District
1.5	Chainage/Km	61.325 Km	NH-40 road at km.61.325 i.e.,between the km.61.292 to 61.358 from LHS to RHS
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 centre line towards increasing chainage /Kms direction	33.5 M	30 M
	b) Right side from centre line towards increasing chainage/km direction	33.5 M	30 M
1.8	Proposal to lay the utility line (proposal to lay over head electrical line)		
	a) Left side from centre line towards increasing chainage /Km direction	At 61.2915	Tower AP41 at a distance of 137 mts from the centre of the road
	b) Right side from centre line towards increasing chainage/km direction	At 61.3585	Tower AP42 at a distance of 111 mts from the centre of the road
	c) Angle of crossing	89°	89°
1.9	Proposal to acquire the land	NA	NA
	a) Left side from centre line		
	b) Right side from centre line		
1.10	Whether proposal is in the same side where land is not to be acquired	NA	Yes, crossing the national highway towers shall be constructed outside nhai land boundary
	If not then where to lay the utility line		
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 existing lanes (2,4,6,8 lanes) existing	4 lane	4 lane
1.13	Proposed number of lanes 2 lane with paved shoulders/4/6/8 lanes)	NA	NA
1.14	Service road existing or not, If yes then which side	No	No, there is no provision of service road at this location
	a) Left side from centre line		
	b) Right side from centre line		
1.15	Proposed service road	NA	NA
	a) Left side from centre line		
	b) Right side from centre line		
1.16	Whether proposal to lay utility line is after the service road or between the service road and main carriage way	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 Bridges. If yes, then mention the methodology proposed for the same	NA	NA

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

  
 PROJECT DIRECTOR  
 NHAI, P.I.U. KADAPA.




Sl.No	Item	Information /Status	IE comments
1.18	Whether carrying of utility line has been proposed on the parapet/any part of the bridges. If yes, then mention the methodology proposed for the same	NA	NA
1.19	If crossings of the road involved If Yes, it shall be either encased in pipes or through structure or conduits specially built for that purpose at the expenses of the <u>agency owning the line</u>	Yes, crossing is overhead EHV transmission line	Yes, crossing is involved as it is overhead EHV transmission line, the proposal is across the NH
	a) Whether the existing drainage structures are allowed to carry the utility pipeline	NA	NA
	b) Is it on align normal to the NH	overhead crossing is 89deg to existing NH	overhead crossing is 89 deg to existing NH
	c) What is the distance of crossing the utility pipelines from the existing structures crossing shall not be too near the existing structures on the National Highways. The minimum distance being 15 mts.	Tower AP41 is 137mtr away from center of NH and Tower AP42 is 111mtr away from center of NH	Tower AP41 is 137mtr away from center of NH and Tower AP42 is 111mtr away from center of NH
	d) The casing pipe (or conduit pipe in the case of electric cable) carrying the utility line shall be of steel, cast iron or reinforced cement concrete and have adequate strength and be large enough to permit ready withdrawal of the carrier pipe/cable. Mention type of casing	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 the 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 0.30m below, the drain inverts. Mention the proposed details	NA	NA
	h) Mention the methodology proposed for crossing of road for the proposed utility line. Crossing shall be by boring method (HDD)(Trenchless Technology). Specially, where the existing road pavement 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 a 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 the trench for open trenching method (Is it nominal 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 carriage way. (iii) Shall not be permitted to run along the National Highways when the road formation is situated in double cutting. Nor shall be laid over the existing culverts and bridges. (iv) These should be so laid that their top is at least 0.60 mts below the ground level so as not to obstruct drainage of the road land.	NA	NA
2.2	Cross section showing the size of the pit and location of cable for HDD method	NA	NA
2.3	Strip plan/ route plan showing the utility line chainage, width of ROW, distance of proposed pipeline from the edge of ROW. Important milestone intersections, cross drainage works etc.	Yes Enclosed	Yes Enclosed
2.4	Methodology for laying over head electric line	Yes Enclosed	Yes Enclosed
2.4.1	Open trenching 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		

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

PROJECT DIRECTOR  
 NHAI, P.I.U. KADAPA.



Sl.No	Item	Information /Status	IE comments
	(a) The trench width should be at least 30cm but not more than 60cm 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 consists of granular material. 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 (ii) overfill to the bottom of the road crust.	NA	NA
	(d) The side fill shall consist of granular material laid in 15 cm layers each consolidated by mechanical tampering and controlled addition of moisture to 95a of the proctor's density. Overkill shall be compacted to the same density as the material that had removed. Consolidation by saturation or pending will permitted.	NA	NA
	(e) The road crust shall be built to the same strength as existing crust on either side of the trench. 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 method (HDD method)	NA	NA
2.4.3	Methodology for laying of the utility line through CD works and method of laying In case where the carrying of utility line on the bridge becomes inescapable	NA	NA
3	Draft licensee agreement is signed by two witnesses	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(R), Dated: 22.11.2016 and circular dtd 24.04.2023	YES	YES SUBMITTED
4	Whether Performance bank guarantee as per Ministry's guidelines issued vide circular no. RW/NH-33044/29/2015/S&R(R), Dated: 22.11.2016 is obtained.	NA	NA
4.1	Confirmation of BG has been obtained are not as per MORTH/ NHAI Guidelines	NA	BG not available
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 to pay the losses either 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 management 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 b the applicant.	Yes Enclosed	Yes Enclosed
5.7	Undertaking prior approval of NHAI shall be obtained before undertaking any work of installation, shifting or repair of alterations to the utility line located in National Highway right-of- ways.	Yes Enclosed	Yes Enclosed

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

  
**PROJECT DIRECTOR**  
**NHAI, P.I.U. KADAPA.**





Sl.No	Item	Information /Status	IE comments
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 borne 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(R) dated: 22-11-2016	Yes Enclosed	Yes Enclosed
5.10	Undertaking that the applicant has obtained various safety clearances from the representative 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.	NA	NA
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 format (i) Laying of utility line will not have any deleterious effects on any of the bridge components and roadway safety for traffic. (it) We do undertaking 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.	Yes Enclosed	Yes Enclosed
6	Who will sign the agreement on behalf of utility line agency	The Deputy General Manager M/s POWER GRID CORPORATION OF INDIA LIMITED Nandyal CAO, Plot no-103, Nandi Paradise, Kranti Nagar, Nandyal-518501, Andhra Pradesh	The Deputy General Manager M/s POWER GRID CORPORATION OF INDIA LIMITED Nandyal CAO, Plot no-103, Nandi Paradise, Kranti Nagar, Nandyal-518501, Andhra Pradesh
6.1	Power of attorney to sign the agreement is available or not.	Yes	Yes, available
7	The project director will submit the following certificates		
7.1	Certificate that the proposal is confirming to all standard conditions issued vide Ministry's circular number: RW/NH/33044/29/2015/S&R(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 utility line would be extremely difficult and unreasonable costly and the crossing of utility line across ROW will not adversely affect the design, stability & traffic safety of the Highway nor the likely future improvement such as widening of the carriageway, easing of curve etc., (ii) For 6-fanning (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 structure at the said location" (b) In case feasibility report is not available "I do certify that sufficient ROW at site for accommodating proposed 6 lining"	Yes	Yes

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

  
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 NHAI, P.I.U. KADAPA.





Sl.No	Item	Information /Status	IE comments
8	If NH section to be proposed to be taken up by NHAI on BOT basis a clause is to be inserted in the agreement. The permitted highway on which licensee has been granted the right to lay utility line/ duct has also been granted as a right of way of to the concessionaire under the concession agreement for upgrading of (..... Section from Km..... to Km..... of NH no:-. on Build Operate and Transfer basis) and the licensee shall honors the same.	NA	NA
9	Who will supervise the work of laying of utility 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-518501, Andhra Pradesh	The Deputy General Manager M/s POWER GRID CORPORATION OF INDIA LIMITED Nandyal CAO, Plot no-103, Nandi Paradise, Kranti Nagar, Nandyal-518501, Andhra Pradesh
	b) On behalf of MORTH/NHAI	PD, PIU, NHAI, Kadapa	PD, PIU, NHAI, Kadapa
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-518501, Andhra Pradesh	The Deputy General Manager M/s POWER GRID CORPORATION OF INDIA LIMITED Nandyal CAO, Plot no-103, Nandi Paradise, Kranti Nagar, Nandyal-518501, Andhra Pradesh
	b) On behalf of NHAI	PD, PIU, NHAI, Kadapa	PD, PIU, NHAI, Kadapa
11	Who will pay the claims for damages done/ disruption in working of concessionaire if asked by the concessionaire		
	On behalf of applicant	The Deputy General Manager M/s POWER GRID CORPORATION OF INDIA LIMITED Nandyal CAO, Plot no-103, Nandi Paradise, Kranti Nagar, Nandyal-518501, Andhra Pradesh	The Deputy General Manager M/s POWER GRID CORPORATION OF INDIA LIMITED Nandyal CAO, Plot no-103, Nandi Paradise, Kranti Nagar, Nandyal-518501, Andhra Pradesh
12	A certificate from PD that he will enter the proposed permission in the register of records of the permission in the prescribed Proforma	Yes Enclosed	Yes Enclosed
13	If any previous approval is accorded for laying of utility line then photocopy of register of records of permission accorded (as maintained by PD) be enclosed.	Yes Enclosed	Yes Enclosed

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



Independent Engineer

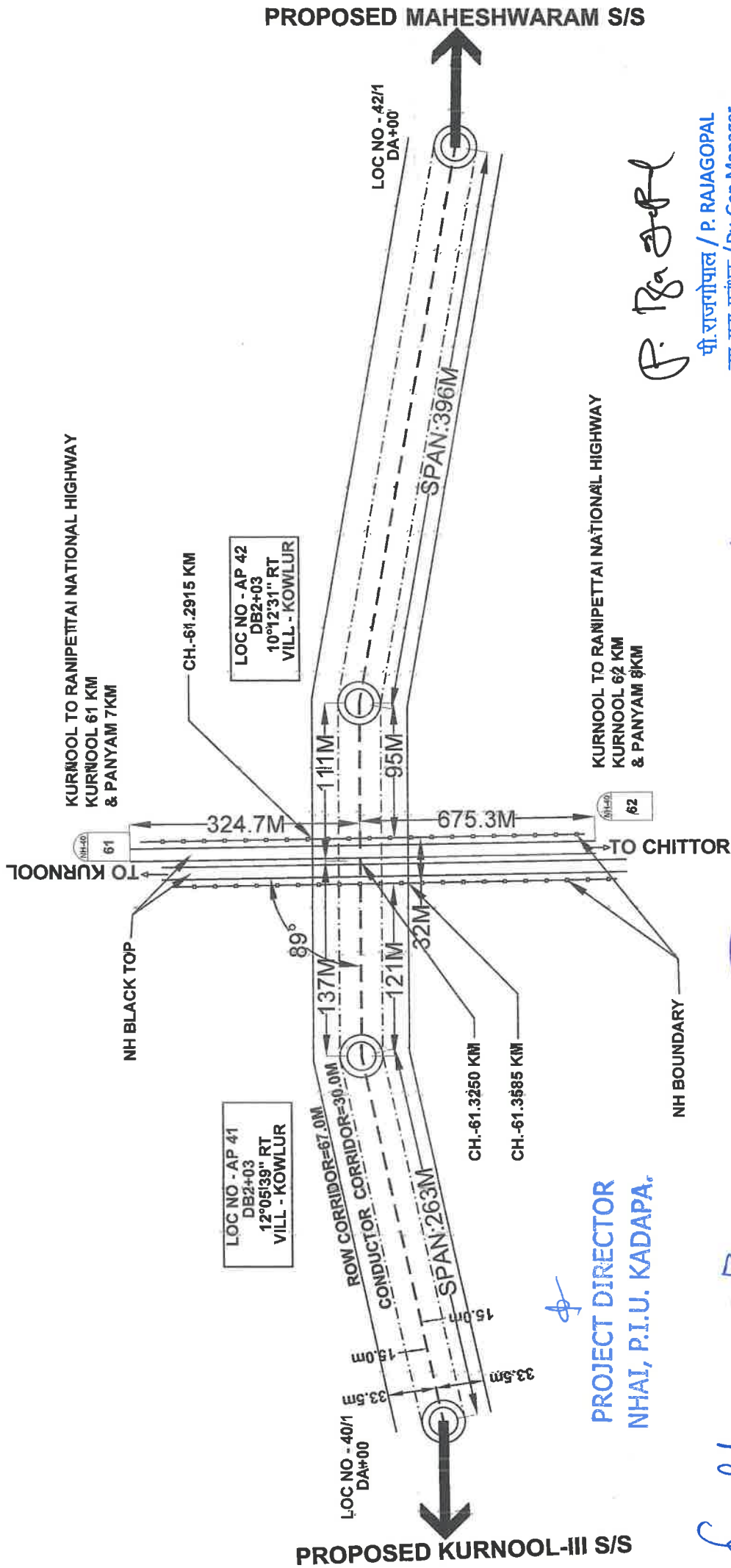
  
 Project Director  
 PROJECT DIRECTOR  
 NHAI, P.I.U. KADAPA.

**Site Inspection photos of 765 KV transmission line at (61.325)**



*Handwritten signature*

**SINGLE LINE DIAGRAMME OF PROPOSED 765 KV D/C T/L (KURNOOL-III - MAHESHWARAM)  
NATIONAL HIGHWAY-40 CROSSING PROPOSAL**



*F. Rajagopal*

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

*D. Rajendra*  
डी. राजेन्द्रा / D. RAJENDRA  
प्रबंधक / MANAGER  
पावरग्रिड / POWERGRID  
नंदयाल सी.ए.ओ. / NANDYAL CAO

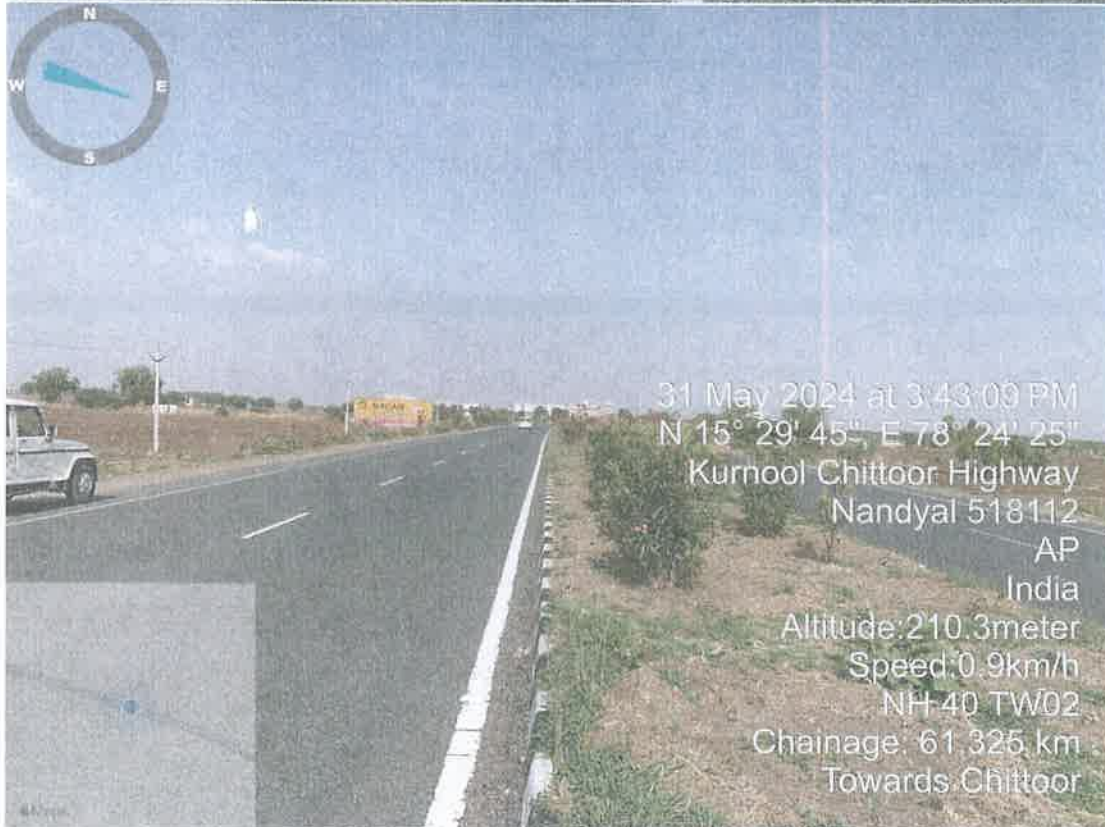
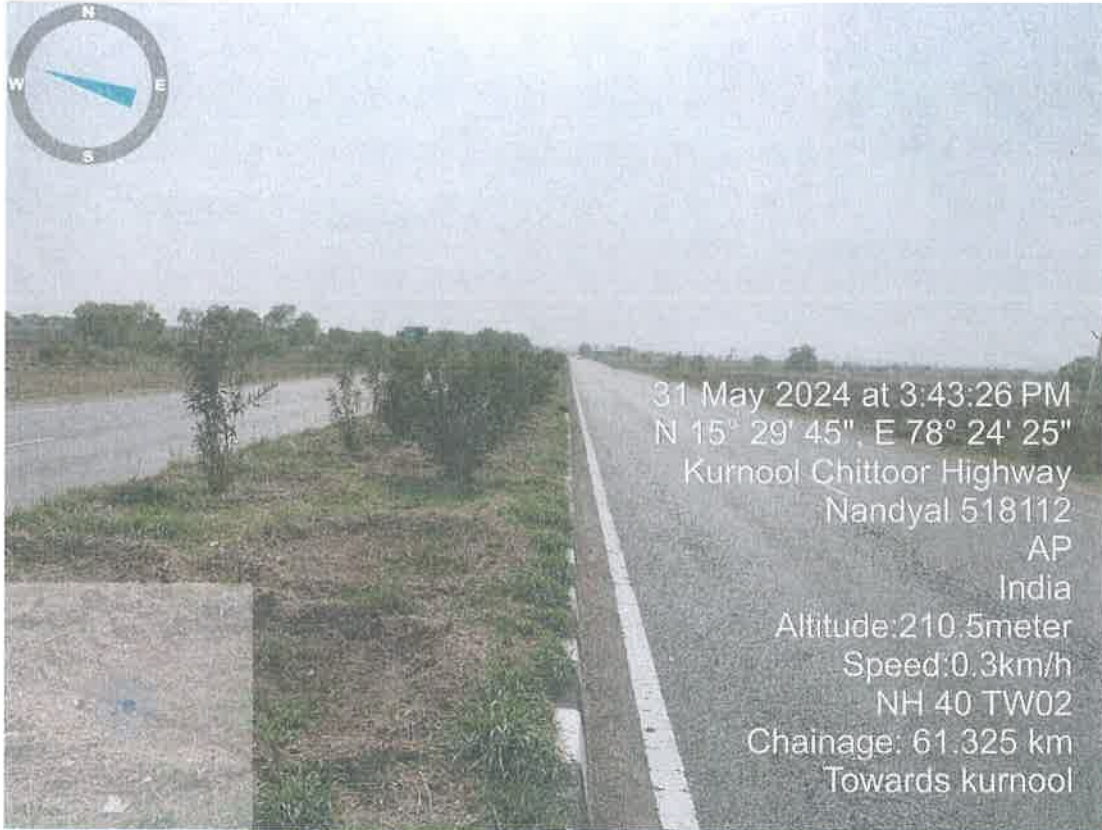


**PROJECT DIRECTOR**  
NHAI, P.I.U. KADAPA.

*Sunil Mondal*  
**SUNIL MONDAL**  
Manager, Survey  
**SKIPPER LIMITED**  
Assistant Manager-Planning  
Skipper Limited, Nandyal.







*A. Santosh Reddy*  
 अन्नेम सतोष रेड्डी / Annem Santosh  
 प्रबंधक / MANAGER  
 पावरग्रिड / POWERGRID  
 नंद्याल सी.ए.ओ. / NANDYAL CAO

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





31 May 2024 at 3:43:48 PM

N 15° 29' 45", E 78° 24' 25"

Kurnool Chittoor Highway

Nandyal 518112

AP

India

Altitude: 210.5 meter

Speed: 0.3 km/h

NH 40 TW02

Chainage: 61.325 km

Towards line



31 May 2024 at 3:43:52 PM

N 15° 29' 45", E 78° 24' 25"

Kurnool Chittoor Highway

Nandyal 518112

AP

India

Altitude: 210.5 meter

Speed: 0.3 km/h

NH 40 TW02

Chainage: 61.325 km

Towards line

अनंता संतोष रेड्डी / Annanta Santosh  
प्रबंधक / MANAGER  
पावरग्रिड / POWERGRID  
नंद्याल सी.ए.ओ. / NANDYAL CAO







P. R. 2H  
पी. राजगोपाल / P. RAJAGOPAL  
उप महा प्रबंधक / Dy. Gen. Manager  
पावरग्रिड / POWERGRID  
नंद्याल सी.ए.ओ. / NANDYAL CAO

**NAME OF PROJECT : 5KV D/C KURNOOL- 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	40/1	DA+00		263		0	265.0	267	263	530	114.4	108.0	222.4	119.5	114.4	233.9	Nala, 11KV Line	221722.871	1714462.878	205.62	78°24'22.64" E	15°29'32.34" N	
2	AP41	DB2+03	12°05'39" RT			263	255.5	263	248	511	155.0	115.5	270.5	148.6	117.8	266.4	Nala, NH-40 (Kurnool - Nandyal) 33Kv Line	221756.386	1714723.762	205.61	78°24'23.66" E	15°29'40.84" N	KOWLUR
3	AP42	DB2+03	10°12'31" RT	248		511	322.0	248	396	644	132.5	206.9	339.4	130.2	204.5	334.7		221839.284	1714957.496	206.63	78°24'26.39" E	15°29'48.61" N	KOWLUR
4	42/1	DA+00		396		907	390.0	396	384	780	189.1	190.2	379.3	191.5	190.7	382.2		222034.801	1715301.454	207.92	78°24'32.76" E	15°29'59.73" N	

**FOR SKIPPER LTD**

**FOR POWER GRID CORPORATION OF INDIA LIMITED**

SURVEYED BY			CHECKED BY			SUBMITTED BY			CHECKED BY			RECOMMENDED BY			APPROVED BY		
																	
<b>SUNIL MONDAL</b> Manager-Survey SKIPPER LIMITED			<b>P. Rajendra</b> D. Sathish Kumar Manager Project Skipper Limited			<b>சி. விஷ்ணு கர்ஷன் ரெட்டி</b> C. Vishnuvardhan Reddy Manager / Engineer Power Grid / POWERGRID Nandiyala S. E. O. / NANDYALA CAO			<b>डी. राजेन्द्रा</b> D. RAJENDRA प्रबंधक / MANAGER पावरग्रिड / POWERGRID नंद्याला सी. ए. ओ. / NANDYAL CAO			<b>पी. राजगोपाल</b> P. RAJAGOPAL उप महा प्रबंधक / Dy. Gen. Manager पावरग्रिड / POWERGRID नंद्याला सी. ए. ओ. / NANDYALA CAO					



# भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)

## National Highways Authority of India

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

परियोजना कार्यान्वयन, इकाई, #1/441/16, लक्ष्मी टावर्स के पीछे,

नए आर.टी.सी बस स्टैंड के पास, कड़पा - 516 001, वाई.एस.आर जिला, आंध्र प्रदेश

Project Implementation Unit, #1/441/16, Behind Lakshmi Towers, Maruthi Nagar,  
Near RTC Bus Stand, KADAPA - 516 001, YSR District, Andhra Pradesh.

ई-मेल/e-mail: piukadapa@nhai.org, kadapanhai@gmail.com; वेब/web: www.nhai.gov.in

NHAI/PIU-KDP/13006/1/2024/NH-40/Access Permission/15416

Date 21.05.2024

To

M/s. LN Malviya Infra Projects Pvt. Ltd.  
In association with Highway Engineering Consultants  
H. No. 29-178-30, 1<sup>st</sup> Floor,  
Opp. Pyramid School, SBI Colony,  
NANDYAL - 518 501.

M/s. Rayalseema Expressway Pvt. Ltd.,  
Chapirevula Toll plaza,  
Chapirevula Village,  
NANDYAL - 518 502.

**Sub:** NHAI, PIU-Kadapa - Construction of 765 KV D/C transmission line from Kurnool III (PS) at Nandipadu village, Kolimigundla Mandal - 765KV Maheswaram GIS (PG) at Orvakal - Request for crossing of 765 KV D/C transmission line at Km.61.325 of NH-40 between Km.60.000 to Km.61.000 near Kowluru village - **Recommendation called for - Reg.**

**Ref:** (i) Powergrid Corporation of India Ltd., Lr. No. SR1/NDL/KK/F-20/NHAI/2 dtd.16.05.2024  
(ii) MoRT&H guidelines OM No. RW/NH-33044/29/2015/S&R(R) dated 22.11.2016

Sir,

This has reference to the letter under reference (i) cited above vide which the Chief Manager (LTC), M/s. Powergrid Corporation of India Limited, Nandyal has submitted the proposal for crossing of 765 KV D/C transmission line at Km. 61.325 of NH-40 between Km.61.000 to Km.62.000 near Kowluru village.

2. Hence, it is requested to examine the subject proposal as per the MoRT&H guidelines OM No. RW/NH-33044/29/2015/S&R(R) dated 22.11.2016 & revised guidelines OM No. RW/NH-36094/01/2022-S&R(P&B) (E-208825) dated 24.04.2023 and submit the recommendation along with signed checklist jointly by the IE & Concessionaire, for taking further necessary action in the matter.

Encl: As above

Yours Sincerely,

(Chinta Venugopal)

DGM (Tech.) & Project Director



Ref: SR1/NDL/KM/F-20/NHAI/2

Date: 16.05.2024

 To  
 The Project Director  
 Project Implementation Unit  
 National Highway Authority of India,  
 Kadapa, (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-40-reg**

 Ref : (a) Letter from POWERGRID dated 15.12.2023 regarding approval of NH crossing.  
 (b) Letter from NHAI Ref NHAI/PIU-KDP/13006/1/2023/NH-40/Access Permission/14070 dated 18.12.2023- regarding submission of agreement, undertaking, checklist etc.

This has reference to our letter dated 15.12.2023 requesting approval of overhead crossing of subject line with National Highway NH-40 and subsequent letter from NHAI dated 18.12.2023 for submission of relevant documents and submission of online application as per MORTH guidelines.

Accordingly, the following documents are enclosed herewith for kind perusal and approval of subject overhead power transmission line crossing with National Highway NH-40.

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.

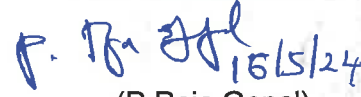
Three copies of Crossing profile and SLD were submitted along with our letter dated 14.12.2023. Considering the above, it is requested to process our application for approval of overhead power line crossing on National Highway NH-40 at chainage 61.325Kms between Km stone 60 &amp; 61.

Encl: A/a

Thanking you,

NHAI-PIU, KADAPA		
Inw.	22160	
Date	16.05.24	
Mgr-1	Mgr-2	
SE-1	SE-2	
SE-3	SE-4	
LAO	PP/SLNO	
Acc.	IT	YHE

 Yours faithfully  
 For POWERGRID

  
 (P.Raja Gopal)  
 DGM, Nandyal CAO  
[palirajagopal@powergrid.in](mailto: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&amp;District)-518501, Andhra Pradesh

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

SRTS-I HQ: 6-6-8/32&amp;395E, Kavadiaguda 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: L40101DL1989GO1038121

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 उद्यम)  
POWER GRID CORPORATION OF INDIA LIMITED  
(A Government of India Enterprise)

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

Date: 15.12.2023

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



Subject : Construction of 765kV D/C transmission line from Kurnool III (PS) at Nandipadu village, Kolimigundla 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 program. 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 NHAI	Location no of POWER GRID	Nearby village	Vertical electrical clearance	Required vertical clearance as per CEA norms
1	NH40 Between Kurnool-Kadapa	61-62	AP41- AP42	Kowluru	26.21 mtr	18.8 mtr

P. R. S. 28  
15/12/23



साइट कार्यालय: प्लॉट नंबर -103, नंदी पैराडिस, क्रांति नगर, नंद्याल (मंडल और जिला) -518501, आंध्र प्रदेश  
Site Office: Plot No-103, Nandi Paradise, Kramthi Nagar, Nandyal (Mandal & District) -518501, Andhra Pradesh  
व क्षेत्र प्र-1 मुख्य कार्यालय: 6-6-8/328-395 ई, कवाडीगुडा मेन रोड, सिक्किंदराबाद - 500080, तेलंगाना, दूरभाष: 040-27546658  
SRIS-I HQ: 6-8/328-395E, Kavadiguda Main Road, Secunderabad - 500080 Telangana State, Tel: 040-27546658  
केंद्रीय कार्यालय: सोदामिनी, प्लॉट नं. 29, गुरुग्राम-122001 (हरियाणा), ई पी ए सी एक्स: 0124-2822000 फ़ैक्स: 0124-2571762  
Corporate Office: Sudamini, Plot No.2, Sector-29, Gurugram-122001 (Haryana) EPAEX: 0124-2822000, Fax: 0124-2571762  
जोड़ित कार्यालय: बी-9, कुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराय, नई दिल्ली - 110016 दूरभाष: 011-26560112, 26560121, 26564812, 26564892, सी आई  
एन: 140101DL1949GO1038121  
Registered Office: B-9 Durgah Institutional Area, Katwaria Sarai, New Delhi - 110 016 Tel: 011-26560112, Fax: 011-26560108, 011-26560109, 011-26560103, 011-26560104



# भारतीय राष्ट्रीय राजमार्ग प्राधिकरण (सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार) National Highways Authority of India

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

परियोजना कार्यान्वयन, इकाई, #1/441/16, लक्ष्मी टावर्स के पीछे,  
नए आर.टी.सी बस स्टैंड के पास, कड़पा - 516 001, वाई.एस.आर जिला, आंध्र प्रदेश

Project Implementation Unit, #1/441/16, Behind Lakshmi Towers, Maruthi Nagar,  
Near RTC Bus Stand, KADAPA - 516 001, YSR District, Andhra Pradesh.

ई-मेल/e-mail: piukadapa@nhai.org, kadapanhai@gmail.com; वेब/web: www.nhai.gov.in



NHAI/PIU-KDP/13006/1/2023/NH-40/Access Permission/14070

Date 18.12.2023

To

The Chief Manager (LTC),  
M/s. Powergrid Corporation of India Limited,  
Plot No.103, Nandi Paradise,  
Kranti Nagar,  
NANDYAL - 518 501

**Sub:** NHAI, PIU-Kadapa - Construction of 765 KV D/C transmission line from Kurnool III (PS) at Nandipadu village, Kolimigundla Mandal - 765KV Maheswaram GIS (PG) at Orvakal - Request for crossing of 765 KV D/C transmission line at NH-40 from Km.61.000 to Km.62.000 near Kowluru village - Reg.

**Ref:** (i) Your Letter No. SR1/NDL/KK/F-20/NHAI dated 15.12.2023 (received on 15.12.2023)  
(ii) MoRT&H guidelines OM No. RW/NH-33044/29/2015/S&R(R) dated 22.11.2016

Sir,

This has reference to the letter under reference (i) cited above vide which the Chief Manager (LTC), M/s. Powergrid Corporation of India Limited, Nandyal has submitted the proposal for crossing of 765 KV D/C transmission line at NH-40 from Km.61.000 to Km.62.000 near Kowluru village.

2. The said proposal has been reviewed in this office and observed that the applicant has not submitted all necessary undertakings, certificates, Checklist for getting approval for laying of utility services, Methodology of carrying out the stringing, Draft Agreement for laying of utility services, etc. along with the proposal as per MoRT&H guidelines OM No. RW/NH-33044/29/2015/S&R(R) dated 22.11.2016.

3. Further, as per Para No.4 of MoRT&H guidelines dated 22.11.2016, "**Procedure for processing application for granting permission for user of highway land:** Any person who intends to obtain permission shall make an application online in the prescribed form to Highway Administration or an officer authorized by Highway Administration on his behalf."

4. Hence, it is requested to submit the proposal through online portal "morthnoc.nic.in" developed by MoRT&H along with the above documents as per MoRT&H guidelines (ii) cited above, for taking further necessary action in the matter.

Yours Sincerely,

(Neeraj Gupta)

DGM (Tech.) & Project Director

Copy to:

- (i) The Regional Officer, NHAI, RO-Vijayawada
- (ii) The Independent Engineer, M/s. LN Malviya Infra Projects Pvt. Ltd., Nandyal
- (iii) Concessionaire, M/s. Rayalseema Expressway Pvt. Ltd., Nandyal





INDIA NON JUDICIAL



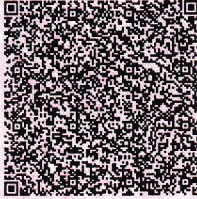
Government of Andhra Pradesh

IN-AP86625677301543W

e-Stamp

Certificate No. : IN-AP86625677301543W  
Certificate Issued Date : 16-May-2024 10:58 AM  
Account Reference : NEWIMPACC (SV)/ ap18016504/ AP-NDL/ AP-NYL/apsamiahu  
DDO Code : 27002308001 O/o IG R  
Unique Doc. Reference : SUBIN-APAP1801650461992991507408W  
Purchased by : POWER GRID CORPORATION OF INDIA LTD NANDYAL CAO  
Description of Document : Article 6(C) Agreement In any other case  
Property Description : LICENSE AGREEMENT  
Consideration Price (Rs.) : 0  
(Zero)  
First Party : POWER GRID CORPORATION OF INDIA LTD NANDYAL CAO  
Second Party : NHAI P I U KADAPA  
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-AP86625677301543W

**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.40 (Kurnool to Kadapa Section) at KM 61.325 (i.e.) in between KM.61+000 to Km.62+000 Near Kowlur Village, Panyam Mandal in Nandyal District, Andhra Pradesh.

This Agreement made this \_\_\_\_\_ day of \_\_\_\_\_ (month) of **2024** between **NHAI, PIU, Kadapa & 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  
महानगर / POWERGRID

HIF 0009061045

- 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.
  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.40 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.40 (Kurnool to Kadapa Section) at KM 61.325 (i.e.) in between KM.61+000 to Km.62+000 Near Kowlur Village, Panyam 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 NHAI(NH-40) 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

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




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 road side 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 40) 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 40) 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.


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

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 work 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  
नंद्याला 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 day 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.
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.

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

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 neither be entitled to any compensation for any loss caused to it by such cancellation nor shall it be absolved from any liability already incurred.
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

  
P. RAJAGOPAL  
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any part of the utility lines/industrial infrastructure facilities and which practices, methods and standards shall be adjusted as necessary, to take account of:

- a. operation, repairs and maintenance guidelines given by the manufacturers,
  - b. the requirements of Law,
  - c. the physical conditions at the Site, and
  - d. 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 \_\_\_\_\_

(Signature, name & address with stamp)

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

SIGNED ON BEHALF OF M/s POWERGRID (LICENSEE)

BY SHRI

*P. Rajagopal*

(Signature, name & address with stamp)

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

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. *D. Rajendra*  
D. RAJENDRA, Manager, POWERGRID, Villa no.103, Nandi Paradise,  
Kramthinagar, Nandyal, A.P. -518501
2. *A. Santosh Reddy*  
A. SANTOSH REDDY, Manager, POWERGRID, Nandi Paradise,  
Nandyal, Andhra Pradesh - 518501.



Annexure-1

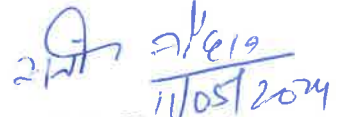
पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड  
(भारत सरकार का उद्यम)  
**POWER GRID CORPORATION OF INDIA LIMITED**  
(A Government of India Enterprise)

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

Date: 11.05.2024

**LETTER OF AUTHORISATION**

Shri P. Raja Gopal, Emp No : 60001860, 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

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:L40101DL1989GO103812

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





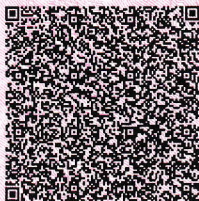
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Government of Andhra Pradesh

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Certificate No. : IN-AP86302556398459W  
Certificate Issued Date : 14-May-2024 06:19 PM  
Account Reference : NEWIMPACC (SV)/ ap18016504/ AP-NDL/ AP-NYL/apsamiahu  
DDO Code : 27002308001 O/o IG R  
Unique Doc. Reference : SUBIN-APAP1801650461335408432448W  
Purchased by : POWER GRID CORPORATION OF INDIA LTD NANDYAL CAO  
Description of Document : Article 6(C) Agreement In any other case  
Property Description : LICENSE AGREEMENT  
Consideration Price (Rs.) : 0  
(Zero)  
First Party : POWER GRID CORPORATION OF INDIA LTD NANDYAL CAO  
Second Party : NHAI P I U KADAPA  
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.

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**UNDERTAKING**

It is proposed to carryout 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-40 (Kurnool to Kadapa Section) near Kowlur village, Panyam Mandal at Km.61.325 i.e., between the KM stones from Km 61.00 to Km 62.00 Km towards kadapa. This Section of the National Highway is under the control of Project Director, Project Implementation Unit, NHAI, Kadapa.

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  
नंदयाला सी.ए.ओ./ NANDYALA CAO

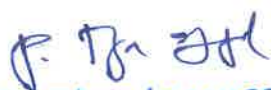
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- a) We would pay or compensate for any damage caused to the NHAI property as per the direction of the PD, PIU, NHAI, Kadapa on Highway at Km.61.325 during the execution of the above work.
- b) We will ensure compliance during stringing work of all safety norms that may be specified by NHAI from time to time for safe plying of the road traffic on Highway at Km 61.325 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 4 laning or further development works of the National Highway-40 (Kadapa to Kurnool section), 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 & NHAI 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





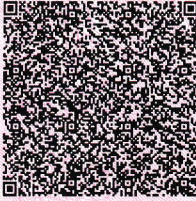
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DDO Code : 27002308001 O/o IG R  
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Purchased by : POWER GRID CORPORATION OF INDIA LTD NANDYAL CAO  
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Property Description : LICENSE AGREEMENT  
Consideration Price (Rs.) : 0  
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Second Party : NHAI P I U KADAPA  
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.

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### 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-40 (Kurnool to Kadapa section) near Kowlur village, Panyam Mandal at Km.61.325 i.e., between the KM stones from Km.61.000 to Km.62.000, 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.

प. राजगोपाल / P. RAJAGOPAL  
उप महा प्रबंधक / Dy. Gen. Manager  
पावरग्रिड / POWERGRID  
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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 6 Lanning/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 NH 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.

  
पो.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  
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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





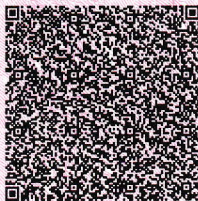
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DDO Code : 27002308001 O/o IG R  
Unique Doc. Reference : SUBIN-APAP1801650461336311471377W  
Purchased by : POWER GRID CORPORATION OF INDIA LTD NANDYAL CAO  
Description of Document : Article 6(C) Agreement In any other case  
Property Description : LICENSE AGREEMENT  
Consideration Price (Rs.) : 0  
(Zero)  
First Party : POWER GRID CORPORATION OF INDIA LTD NANDYAL CAO  
Second Party : NHAI P I U KADAPA  
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.

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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-40 (Kurnool to Kadapa section) near Kowlur village, Panyam at Km.61.324 i.e., between the KM stones from Km.61.000 to Km.62.000 Km towards Kadapa.

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.

पी. राजगोपाल / P. RAJAGOPAL  
उप महा प्रबंधक / Dy. Gen. Manager  
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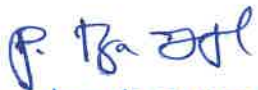
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**M/s POWER GRID CORPORATION OF INDIA LTD Proposed National Highway No:40 Crossing of 765KV D/C Transmission Line from Kurnool III(PS) at Nandipadu Village, Kolimigundla mandal, Nandyal District to 765KV Maheshwaram(PG) GIS at Maheshwaram Mandal, Rangareddy 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.40 between the tower AP 41 and AP 42 with the span of 226 metres. The distance of the tower AP 41 from centre line of the road is 89 metres and of AP42 is 137 metres. After the stringing a clearance of 26.21 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 40. 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.

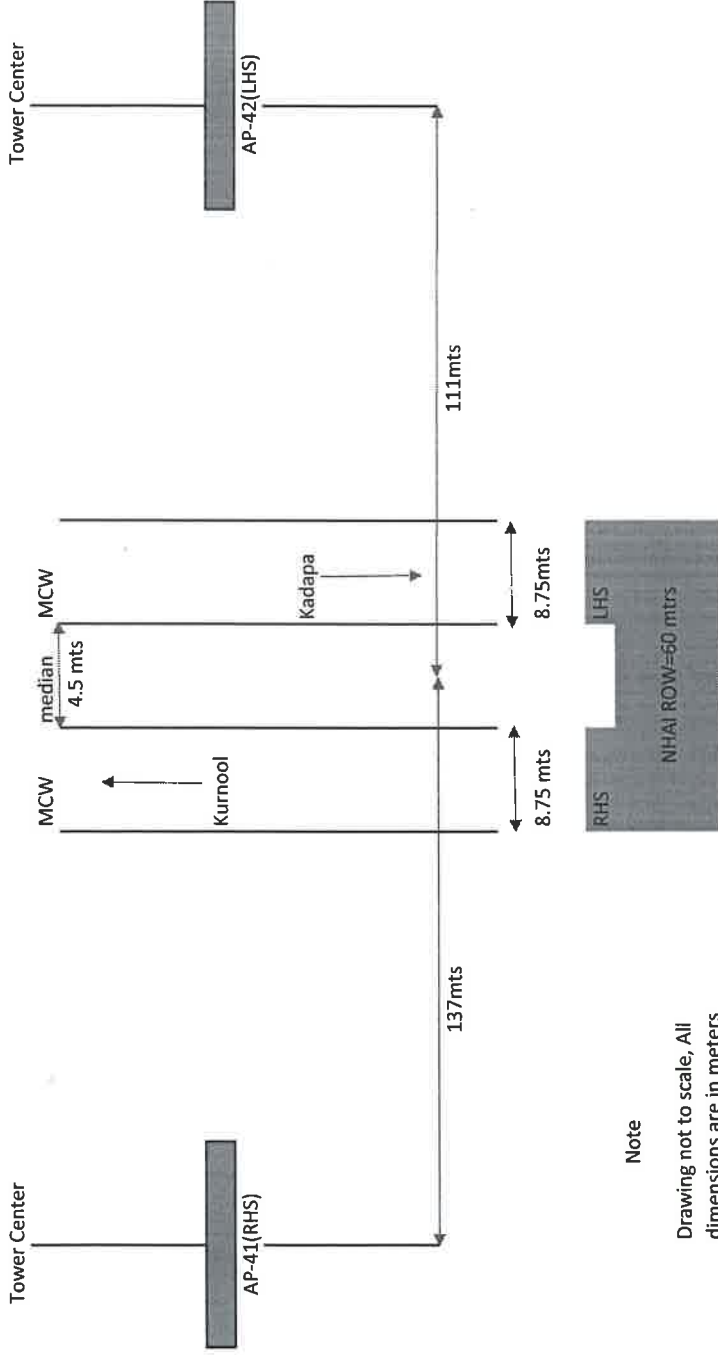


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उप महा प्रबंधक / Dy. Gen. Manager  
पावरग्रिड / POWERGRID  
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# M/s POWERGRID CORPORATION OF INDIA LIMITED

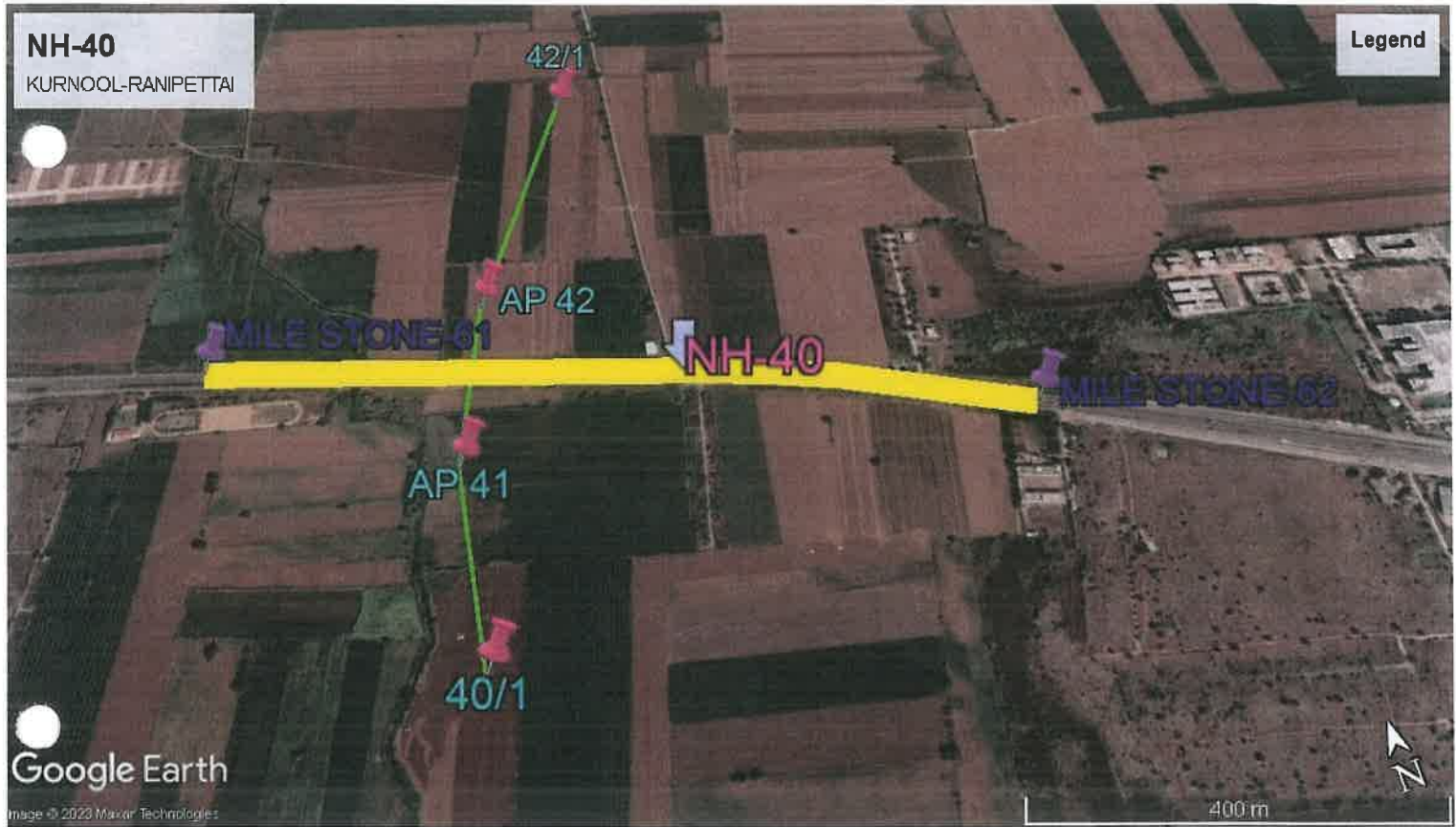
Strip plan showing the crossing of 765KV D/C Transmission Line from Kurnool III(PS) at Nandipadu Village, Kolimigundla mandal, Nandyal District to 765KV Maheshwaram (PG) SS at Maheshwaram Orvakal Mandal, Rangareddy District at KM 61.325 in between chainage from KM 61 to KM 62 of NH40 Near Kowlur village, Pamyam mandal in Nandyal District, Andhra Pradesh



Note

Drawing not to scale, All dimensions are in meters


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POWERGRID CORPORATION OF INDIA LIMITED		
765 KV D/C KURNOOL-III - MAHESHWARAM TRANSMISSION LINE		
NH-40 CROSSING DETAILS (AT KM CHAINAGE 61.325 KM ,BETWEEN STONE NUMBERS 61 & 62		
SL.NO.	LINE DETAILS:	
1	NAME OF THE PROPOSED LINE	765KV D/C KURNOOL-III -MAHESHWARAM TRANSMISSION LINE
2	NAME OF THE HIGHWAY	KURNOOL - RANIPETTAI HIGHWAY NH-40
3	CROSSING BETWEEN TOWER LOC NOS.	TOWER LOC.No. AP41-AP42
4	CROSSING BETWEEN TWO KM STONE NOS	EXISTING STONE No. 61 & 62
5	CROSSING AT KM CHAINAGE	61.325 km
6	CROSSING NEAREST VILLAGE	KOWLUR
7	CROSSING ANGLE	89°00'00"
8	CROSSING SPAN	248.0 m
9	MINIMUM GROUND CLEARENCE REQUIRED FROM BOTTOM CONDUCTOR	18.8 m
10	GROUND CLEARENCE AVAILABLE FROM BOTTOM CONDUCTOR TO TOP OF TOWER	26.21 m
TOWER DETAILS:-		
11	Structures used to cross NH-40 and their deviation angles	AP41-DB2+03 (12°05'39" RT) AP42-DB2+03 (10°12'31" RT)
12	DISTANCE FROM LOC.No.AP41 TO NH-40 (Tower Leg/Nearerst Point of Tower with NH centre)	137.0 m
13	DISTANCE FROM LOC.No.AP42 TO NH-40 (Tower Leg/Nearerst Point of Tower with NH centre)	111.0 m
14	DISTANCE FROM LOC.No.41 TO NH-40 BOUNDARY	121.0 m
15	DISTANCE FROM LOC.No.AP42 TO NH-40 BOUNDARY	95.0 m
16	HEIGHT OF THE LOC.No.AP41 (DB2+03)	73.20 m
17	HEIGHT OF THE LOC.No.AP42 (DB2+03)	73.20 m
18	CO-ORDINATES OF LOC.No. AP41	78°24'23.66" E   15°29'40.84" N
19	CO-ORDINATES OF LOC.No. AP42	78°24'26.39" E   15°29'48.61" N

  
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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

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**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
	<b>INITIAL COMBINATION</b>	
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

  
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## Calculation of License Fees

Construction of 765 KV D/C transmission line from Kurnool III (PS) at Nandipadu village, Kolimigundla Mandal 765KV Maheswaram GIS (PG) at Orvakal - Request for crossing of 765 KV D/C transmission line at Km.61.325 of NH-40 between Km.61.000 to Km.62.000 near Kowluru village

S.No	Location	Chainage (in Km)		Length (in Mtrs)	Width (in Mtrs)	Utilized NH Land Area (in Sq. Mtrs)	Prevailing Circle rate of Land in Rs./Acre (As per Revenue Records)	Prevailing Circle rate of Land in Rs./Sq. Mtrs (Rate per Acre/4046.86	Amount
1	2	from	To	5	6	7(5*6)	8	9	10(7*9)
1	Across the Road Kowluru	61.325		60.06	67.00	4024.02	1800000	444.789	1789841
							Total Amount in (Rs.)		1789841
							License Fee for Industrial utility shall be equal to utilized NH land area X Prevailing Circle Rate of Land per unit are X 10% per annum		
							License Fee for 1st year		
							License Fee for 2nd year		
							License Fee for 3rd year		
							License Fee for 4th year		
							License Fee for 5th year		
							Total License Fee to be paid(in Rupees)		
							894920		



Audited

विष्णु

सी.विष्णु वर्धन रेड्डी / C.Vishnuvardhan Reddy  
अभियंता / Engineer  
पावरग्रिड / POWERGRID  
नंद्याला सी.ए.ओ / NANDYALA CAO

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PROJECT DIRECTOR  
NHAI, P.I.U. KADAPA.

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Habitation	Survey No	Sub Survey No	Land Rate Rs. per Acre	Nature Of Use	Effective Date
KOWLUR	-	-	600000	Dry land	20/01/2024
KOWLUR	-	-	1800000	Land abutting NH/SH/ZPP/MPP	20/01/2024
KOWLUR	-	-	600000	Coconut Garden	20/01/2024
KOWLUR	-	-	6534000	House Sites	20/01/2024
KOWLUR	-	-	3267000	Agricultural Land fit for H.S.	20/01/2024
KOWLUR	-	-	600000	Wet Land double crop	20/01/2024



REGISTRATION & STAMPS DEPARTMENT  
GOVERNMENT OF ANDHRA PRADESH

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Unit Rates Village Wise

District	Mandal	City/Town/Village	Survey No Wise
NANDYAL	PANYAM	KOWLUR	Select Survey No Wise



Habitation	Survey No	Sub Survey No	Land Rate Rs. per Acre	Nature Of Use	Effective Date
KOWLUR	-	-	600000	Dry land	20/01/2024
KOWLUR	-	-	1800000	Land abutting NH/SH/ZPP/MPP	20/01/2024
KOWLUR	-	-	600000	Coconut Garden	20/01/2024
KOWLUR	-	-	6534000	House Sites	20/01/2024
KOWLUR	-	-	3267000	Agricultural Land fit for H.S.	20/01/2024
KOWLUR	-	-	600000	Wet Land double crop	20/01/2024

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