



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सडक परिवहन और राजमार्ग मंत्रालय, भारत सरकार)

National Highways Authority of India

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

श्रेणीय कार्यालय : 41-29-45A, सर्वे नं: 373/2A, कोदंडरामालयम्, चलासानी नगर,

रानीगारीतोटा, कृष्णालंका, विजयावाडा - 520 013, आन्ध्र 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 / Tel : 0866-2483910, ई-मेल/e-mail: rovijayawada@nhai.org, nhairovja@gmail.com

वेब/ web: www.nhai.gov.in



Ref: NHAI/RO-VJA /PIU-ATP/NH-544D/400KV/Crossing/111

Dt:09.01.2026

To

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

Sub: NHAI, RO - Vijayawada - 4 Laning of NH-544D from existing Km.346.300 of NH-44(Design Chainage Km.0.000) to Km.39.380(Design Chainage Km.37.000) of Anantapur - Muchukota section on Hybrid Annuity Mode under NH(O) in the state of Andhra Pradesh- Construction of transmission Line package - TL01 for 400 KV D/C (Quad Moose) Ananthapuram PS- Kurnool-III PS Transmission line associated with "Transmission Scheme for Solor Energy Zone in Ananthpuram (Ananthapur) (2500 MW) and Kurnool (1000 MW), Andhra Pradesh under TBCB-Submission of Revised documents for overhead power line crossing with NH-544D- Public comments - Reg.

Sir,

Please find enclosed herewith a proposal submitted by M/s. Powergrid Ananthapuram Kurnool Transmission Limited for according permission for for crossing of 400 KV D/C (Quad Moose) at Km.66.783 of NH-544D, Ananthapuram PS- Kurnool III PS Transmission line in Bugga Village, Tadipatri Mandal, Anantapur District, Andhra Pradesh.

2. As per MORTH guidelines vide letter No. RW/NH-33044/29/2015/S&R(R) dated 22nd November 2016, the application along with the recommendations of PD, PIU-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 in the general public interest), for taking further necessary action.

Yours faithfully,

(R.K. Singh, IES)

CGM (Tech.) & Regional Officer



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

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रानीगारीतोटा, कृष्णालंका, विजयावाडा - 520 013, आन्ध्र 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 / Tel : 0866-2483910, ई-मेल/e-mail: rovijayawada@nhai.org, nhairovja@gmail.com

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Ref: NHAI/RO-VJA /PIU-ATP/NH-544D/400KV/Crossing/110

Dt:09.01.2026

INVITATION OF PUBLIC COMMENTS

Sub: NHAI, RO - Vijayawada - 4 Laning of NH-544D from existing Km.346.300 of NH-44(Design Chainage Km.0.000) to Km.39.380(Design Chainage Km.37.000) of Anantapur - Muchukota section on Hybrid Annuity Mode under NH(O) in the state of Andhra Pradesh- Construction of transmission Line package - TL01 for 400 KV D/C (Quad Moose) Ananthapuram PS- Kurnool-III PS Transmission line associated with "Transmission Scheme for Solor Energy Zone in Ananthapuram (Ananthapur) (2500 MW) and Kurnool (1000 MW), Andhra Pradesh under TBCB-Submission of Revised documents for overhead power line crossing with NH-544D- Public comments - Reg.

Please find enclosed herewith a proposal submitted by M/s. Powergrid Ananthapuram Kurnool Transmission Limited for according permission for for crossing of 400 KV D/C (Quad Moose) at Km.66.783 of NH-544D, Ananthapuram PS- Kurnool III PS Transmission line in Bugga Village, Tadipatri Mandal, Anantapur District, Andhra Pradesh.

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

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

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

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



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)

National Highways Authority of India

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

परियोजना कार्यन्वयन इकाई: NHAI अनंतपुर,

डॉ. नं 6-4-239, 3rd क्रॉस, मारुति नगर, अनंतपुर आंध्र प्रदेश - 515004

PROJECT IMPLEMENTATION UNIT - ANANTAPUR,

No. 6-4-239, 3rd Cross, Maruthi Nagar, Anantapur, A.P. - 515004

देली / Tele : 91-8554-275599 ई-मेल / Email : anantapur@nhai.org, nhaiapiuatp@gmail.com



NHAI/PIU-ATP/11021/25/NOC/1856

18.12.2025

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

26 DEC 2025

8939

Sub: 4 Laning of NH 544D from existing km 346.300 of NH 44 (Design Chainage km 0.000) to km 39.380 (Design Chainage km 37.000) of Anantapur-Muchukota section on Hybrid Annuity Mode under NH (O) in the state of Andhra Pradesh- construction of Transmission Line package - TL01 for 400 kV D/C (Quad Moose) Ananthapuram PS -Kurnool-III PS Transmission line associated with "Transmission Scheme for Solar Energy Zone in Ananthapuram (Ananthapur) (2500 MW) and Kurnool (1000 MW), Andhra Pradesh" under TBCB-Submission of Revised documents for overhead power line crossing with NH-544D -Approval- Requested reg.,

Ref: 1. IE, M/s SATRA letter no. 524 dtd 04.11.2025.
2. Concessionaire, M/s. MEIL Anantapur Roadways Private Limited mail dtd 17.12.2025.
3. This office letter no.1093 dtd 05.08.2025.
4. The DGM, Gooty CAO, POWERGRID ANANTHPURAM KURNOOL TRANSMISISON LIMITED letter dtd 28.07.2025.

Sir,

This has reference to the DGM, Gooty CAO, POWERGRID ANANTHPURAM KURNOOL TRANSMISISON LIMITED letter under reference 4th cited above requesting to accord the permission for crossing of 400 kV D/C (Quad Moose) Ananthapuram PS -Kurnool-III PS Transmission line associated with "Transmission Scheme for Solar Energy Zone in Ananthapuram (Ananthapur) (2500 MW) and Kurnool (1000 MW), Andhra Pradesh" under TBCB"across National Highway 544D on Anantapur-Bugga section.

2. In this regard, the IE & Concessionaire of the subject stretch vide letter under reference 1st & 2nd cited respectively has informed that as per norms, the crossing proposal at Km 66.783 of NH 544D is found to be in order. As such, the proposal of Electrical line crossing was recommended.
3. The proposal for stringing the electrical line submitted by DGM, Gooty CAO, POWERGRID ANANTHPURAM KURNOOL TRANSMISISON LIMITED is as under.
 - (a) The location of transmission line crossing is at chainage Km 66.783 near Bugga Village, Tadipatri Mandal, Anantapur District on Anantapur-Bugga section is furnished in the drawing.
 - (b) No part of the foundation of electrical tower will fall in ROW of NHAI.

Cont...2

- (c) The electrical towers are proposed for erection at a distance of 112 mts on LHS & 136 mts on RHS from centreline of median.
- (d) After accounting the maximum possible sag in bottom conductor, the vertical clearance at road crossing point is 16.5 m.
- (e) DGM, Gooty CAO, POWERGRID ANANTHPURAM KURNOOL TRANSMISSION LIMITED has ensured that they will follow the provisions of IRC 32, CEA Regulations/Statutory provisions of Indian Electricity Rules and other relevant guidelines issued.
4. Further, the DGM, Gooty CAO, POWERGRID ANANTHPURAM KURNOOL TRANSMISSION LIMITED have submitted the following.
- (i) Undertakings on Non-judicial stamped paper of Rs. 100/-.
 - (ii) License deed for laying overhead electric power line across NH land on Non-judicial stamped paper of Rs. 100/-.
 - (iii) Check list for getting approval for laying of overhead electric power line across NH land.
 - (iv) Crossing details at NH.
 - (v) Sketch showing crossing of overhead line.
5. The location of crossing the 400 KV line was inspected and the following are submitted.
- (a) There is no habitation around the proposed location to the vertical clearance of the Electrical line proposed is 16.5 m, which is more than the suggested clearance 400 KV line is 14 m.
- (b) DGM, Gooty CAO, POWERGRID ANANTHPURAM KURNOOL TRANSMISSION LIMITED has proposed to erect the towers on both ends in the private land to maintain 16.5 m clearance from FRL of the road.
6. In view of the above, it is requested to accord approval for the proposal for crossing of 01 nos of 400 KV line at the above location, please.

Encl: As above

Yours faithfully



(A. Tarun Kumar)

DGM (Tech.) & Project Director



**CERTIFICATE IN RESPECT OF PERMISSION FOR LAYING OF UTILITY LINE OF
CONSTRUCTION OF TRANSMISSION LINE PACKAGE - TL01 FOR 400 KV D/C
(QUAD MOOSE) ANANTHAPURAM PS -KURNOOL-III PS TRANSMISSION LINE
ASSOCIATED WITH "TRANSMISSION SCHEME FOR SOLAR ENERGY ZONE IN
ANANTHAPURAM (ANANTHAPUR) (2500 MW) AND KURNOOL (1000 MW),
ANDHRA PRADESH" UNDER TBCB IN BUGGA VILLAGE, TADIPATRI MANDAL,
ANANTAPUR DISTRICT AT KM 66.783 ACROSS NATIONAL HIGHWAY 544D ON
ANANTAPUR-BUGGA SECTION**

It is hereby certified as under

1. All the standard conditions issued vide Ministry / NHAI Circulars are incorporated in the proposal and the same is herewith confirmed.
2. The available width of ROW is 45 m in the stretch from KM 66.000 to KM 67.000 on BHS. Sufficient ROW is available to accommodate six-laning in future.
3. Any other location of the Utility line would be extremely difficult and unreasonable costly and the installation 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.,
4. There will be no hindrance to future widening at the said location.
5. The proposal is conforming to all standard conditions issued vide Ministry's circular number: RW/NH/33044/29/2015/S&R(R) dated: 22-11-2016.
6. The permission after approval will be recorded in a "Register of Permissions" in the prescribed proforma.

(A. Tarun Kumar)
DGM (Tech.) & Project Director



Nhai PIU Anantapur <nhaipiatp@gmail.com>

4 Laning of NH 544D from existing km 346.300 of NH 44 (Design Chainage km 0.000) to km 39.380 (Design Chainage km 37.000) of Anantapur-Muchukota section on Hybrid Annuity Mode under NH (O) in the state of Andhra Pradesh- construction of Transmission Line package - TL01 for 400 kV D/C (Quad Moose) Ananthapuram PS -Kurnool-III PS Transmission line associated with "Transmission Scheme for Solar Energy Zone in Ananthapuram (Ananthapur) (2500 MW) and Kurnool (1000 MW), Andhra Pradesh" under TBCB-Submission of Revised documents for overhead power line crossing with NH-544D -Approval- Requested reg.,

MEIL Ananthapur Roadways Private Limited <mktbugga1327@gmail.com>

Wed, Dec 17, 2025 at 9:10 AM

To: Nhai PIU Anantapur <nhaipiatp@gmail.com>

Cc: gogineni.visweswararao@meghaeng.com, venkateswarlu.komara@meghaeng.com, Viswanadhu Balajee <viswanadhu.balajee@meghaeng.com>, "mallikarjuna.k." <mallikarjuna.k@meilgroup.in>

**To,
The Project Director & (DGM-Tech),
Project Implementation Unit, Ananthapur,
National Highways Authority of India,**

Sub: 4 Laning of NH 544D from existing km 346.300 of NH 44 (Design Chainage km 0.000) to km 39.380 (Design Chainage km 37.000) of Anantapur-Muchukota section on Hybrid Annuity Mode under NH (O) in the state of Andhra Pradesh- construction of Transmission Line package - TL01 for 400 kV D/C (Quad Moose) Ananthapuram PS - Kurnool-III PS Transmission line associated with "Transmission Scheme for Solar Energy Zone in Ananthapuram (Ananthapur) (2500 MW) and Kurnool (1000 MW), Andhra Pradesh" under TBCB-Submission of Revised documents for overhead power line crossing with NH-544D -Approval- Requested reg.,

Ref:1. The DGM, Gooty CAO, POWERGRID ANANTHAPURAM KURNOOL TRANSMISSION LIMITED letter dtd 28.07.2025.,
2. Authority Letter No. NHAI/PIU-ATP/11021/25/NOC/1093, dated 05.08.2025.,
3. Authority's Email Dated 12.12.2025.

Dear Sir,

With reference to the subject matter, the Authority vide email dated 12.12.2025 instructed us to inspect the site and furnish our comments/observations by duly signing the drawings/checklist submitted by the DGM, Gooty CAO, PATKL, keeping in view all standard conditions issued vide Ministry/NHAI Circulars, at the earliest for further necessary action.

In compliance with the Authority's instructions, the site was jointly inspected by the Concessionaire along with officials of the Power Grid on 14.12.2025. The review has been carried out in accordance with Ministry/NHAI Circulars, and our observations are as follows:

- 1) The location of the proposed crossing of the 400 kV D/C (Quad Moose) Ananthapuram PS – Kurnool-III PS transmission line, associated with the "Transmission Scheme for Solar Energy Zones in Ananthapuram (2500 MW) and Kurnool (1000 MW)," is at Km 66+783.
- 2) The available Right of Way (ROW) at Km 66+783 is 45 m.
- 3) The available vertical clearance at this location is 16.5 m between FRL and the sag of the bottom conductor.
- 4) The information provided in the attached checklist has been verified and found to be correct.

In view of the above, the Authority may kindly allow the crossing of the transmission line at Km 66+783. This is submitted for your information and further necessary action.

Yours truly

Encl: As above

**(Komara Venkateswarlu)
DGM (Projects) & Project Manager,
MEIL Ananthapur Roadways Pvt. Ltd.**

[Quoted text hidden]

Thanks & Regards

**MEIL Ananthapur Roadways private Limited
NH 544D, MKT - Bugga PKG II
Project Code: 1327**

Duly Signed Checklist alongwith Other Supporting Documents.pdf
1058K

Independent Engineer Services for (i) 4 Laning of NH 544D from existing km 346.300 of NH 44 (Design Chainage km 0.000) to km 39.380 (Design Chainage km 37.000) of Anantapur – Muchukota on Hybrid Annuity Mode under NH (O) in the state of Andhra Pradesh & (ii) 4 Laning of NH 544D from existing km 39.380 of NH 544D (Design Chainage km 37.000) to km 74.450 (Design Chainage km 69.000) of Muchukota – Bugga section of NH-544D on Hybrid Annuity Mode under NH (O), in the state of Andhra Pradesh

Our ref: 01041176/IE/02/P-2/524

Dt: 04.11.2025

To,

The Project Director

National Highways Authority of India
Project Implementation Unit-Anantapur
#6-4-239, 3rd Cross, Maruti Nagar
Anantapur – 515 004

SATRA 
SATRA Services and Solutions Pvt Ltd in Joint
Venture with K&J Projects Pvt Ltd

NHAI, PIU., Anantapur	
Inward No. :	213
E-mail Date :	6.11.25
Original Date :	
Manager (Tech)	P.S.
S.E. :- 1	S.E. :- 3
S.E. :- 2	Accountant
Rt. Tahsildar	Data Lake

Sub: Independent Engineer services for 4 laning of NH-544D from existing Km. 39.380 of NH-544D (Design Chainage km 37.000) to 74.450 (Design Chainage km 69.000) of Muchukota – Bugga section of NH-544D on Hybrid Annuity Mode under NH (O) in the state of Andhra Pradesh – **Construction of Transmission line Package- TL01 for 400KV D/C (Quad Moose) Ananthapuram PS –Kurnool – III PS Transmission line associated with "Transmission scheme for Solar Energy Zons in Ananthapuram (Ananthapur)(2500MW) and Kurnool (1000 MW), Andhra Pradesh" under TBCB-submission of Reviseddocuments for overhead power line crossing with NH-544D - Approval - Requested reg.,**

Ref: 1. Concession Agreement, dated 3rd February, 2023
2. NHAI/PIU-ATP/11021/25/NOC/1093 Dt. 05.08.2025

Sir,

As per the advice of Project Director, PIU-Anantapur vide ref (#2) above site inspection done by IE along with the representatives of powergrid on 18.10.2025 and our observations are as under.

1. The location of proposed crossing of 400 KV D/C (Quad Moose) Ananthapuram PS –Kurnool –III PS Transmission line associated with "Transmission scheme for Solar Energy Zons in Ananthapuram (Ananthapur)(2500MW) and Kurnool (1000 MW) is at Km. 66+783.
2. The available ROW at Km. 66+783 is 45 mts and the available vertical clearance at that location is 16.5 mts between FRL and Sag of the bottom conductor.
3. The information provided in the attached checklist is found to be correct.

The Authority may allow for the crossing of Transmission line at the above mentioned location of Km.66+783. This is for your information and further necessary action please.

Thanking you and assuring our best Services.

For SATRA Services and Solutions Pvt Ltd
In JV with M/s K&J Projects Pvt. Ltd


R Sabhanayagam
Team Leader cum Senior Highway Engineer
NH-544D, Pkg - I & II

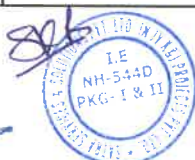
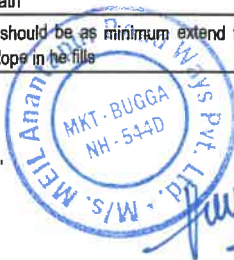
Copy to: M/s MEIL Ananthapur Roadways Private Limited,

CHECK LIST

Guidelines for processing the proposal for approval of crossing of 400KV D/C (quad Moose) Anantapur PS to Kurnool-III PS overhead transmission line near Bugga Village, Tadipatri Mandal at Km.66.783 i.e., between the KM stones from Km.66+700 to Km.66+800 Km towards Tadipatri

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 POWERGRID ANANTHUPURAM KURNOOL TRANSMISSION LIMITED. 400kV Sub-station Office: Gooty, Thana-Gooty Tehsil-Gooty District- Anantapur (A.P.)- 515-402 AP(INDIA)	
1.2	National Highway Number	NH-544D	
1.3	State	Andhra Pradesh	
1.4	Location	Near Bugga Village, Tadipatri mandal, Anantapur District.	
1.5	(Chainage in km)	NH-544D road between Km.66+700 to Km.66+800 (66.783)	
1.6	Length in Meters	NA, as the proposal is for crossing of NH	
1.7	Width of available ROW		
	a) Left side from center line towards increasing km direction	22.5M	
	(b) Right side from center line towards increasing km direction	22.5M	
1.8	Proposal to lay the overhead EHV Transmission Line		
	(a) Left side from center line towards increasing km direction	112.m	
	(b) Right side from center line towards increasing km direction	136. m	
	(c) Angle of Crossing	71	
1.9	Proposal to acquire land		
	(a) Left side form center line	NA	
	(b) Right side from center line	NA	
1.1	Whether proposal is in the same side where land is not to be acquired. If not then where to lay the HT line	NA	
1.11	Details of already laid services, if any, along the proposed route	NA	
1.12	Number of lanes (2/4 / 6/8 lanes) existing	4	
1.13	Proposed Number of lanes (2 lane with paved 4 Lane shoulders /4/6/8 lanes)	NA	
1.14	Service road existing or not	Yes	
	If yes then which side		
	(a) Left side from center line	Yes	
	(b) Right side from center line	Yes	
1.15	Proposed Service Road	NA	
	(a) Left side from center Line	NA	
	(b) Right side from center line	NA	
1.16	whether proposal to lay overhead HT Transmission line after the service road or between the service road and main carriageway	No, as the proposal is across the NH.	
1.17	Whether carrying of utility line has been proposed on highway Bridge . If yes, then mention the methodology proposed for the same	NA	
1.18	Whether carrying of utility line has been proposed on parapet/part of the bridge . If yes, then mention the methodology proposed for the same	NA	
1.19	if crossing 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 expanses of the agency owning the line		
	(a) Whether the existing drainage structure are allowed to carry the utility pipeline	NA	
	(b) Is it on the line normal to NH	NA	
	(c) Crossing shall not be too near the existing structures on the National Highway. The minimum distance being 15mts. What is the distance from the existing structure	NA	
	(d) The casing pipe carrying the utility line shall be of steel, cast iron, reinforced cement concrete and have adequate strength and be large enough to permit ready withdrawal of the carrier pipe/cable. Mention type of casting	NA	
	(e) Ends of the casting pipe shall be sealed from the outside, so that it does not act as a drainage path	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	

Project Director
NHAI P.I.U., Anantapur



वैकल्पिक विकल्प
महामंत्री (सीएआ) / DGM (TLC)
पावरग्रिड, एन.एच.आर.डी.
गुन्ती (सीएआ), एन.एच.आर.डी. (CAO)

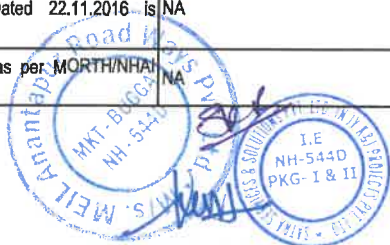
James Christensen
JCM (TLC)
RID
CVO)

JCM (TLC)

Guidelines for processing the proposal for approval of crossing of 400KV D/C (quad Moose) Anantapur PS to Kurnool-III PS overhead transmission line near Bugga Village, Tadipatri Mandal at Km.66.783 i.e., between the KM stones from Km.66+700 to Km.66+800 Km towards Tadipatri

Sl. No.	Item	Information/Status	IE Comments
	(g) The top of the casing/Conduit pipe should be at least 1.20m below the surface of the roads subject to being at least 0.3 meters below, the drain inverts mention the proposed details	NA	
	(h) Mention the methodology proposed utility line. Crossing shall be by boring method (HDD). Specially, where the existing road pavements is of cement concrete or dense bituminous concrete type	NA	
	(i) The casting/Conduit pipe shall be installed with an even bearing throughout its length and in such manner as to prevent the formation of a water way along it.	NA	
2	Document/Drawings enclosed with the proposal	Yes Enclosed	
2.1	Cross section showing the size of trench for open Yes Standard Size trenching method (Is it normal size of 1.2m deep x 0.3m wide) i) should not be greater than 60cm wider than the outer diameter of the pipe ii) Located as close to the extreme edge of the Right-of-way as possible but not less than 15 meters from the centre-lines of the nearest carriageway iii) Shall not be permitted to run along the National Highway when the road formation is situated in double cutting. Nor shall be laid over the existing culverts and bridge iv) These should be so laid that their top is at least 0.6mts below the ground level so as not to obstruct drainage of the road land	NA	
2.2	Cross section showing the size of pit and location of cable for HDD method	NA	
2.3	Strip plan/Route Plan showing the OFC, Chainage, width of ROW, distance of proposed, cable from the edge of ROW, important mile stone intersection, cross drainage works etc.	Yes, Enclosed	
2.4	Methodology for laying overhead Transmission lines	Yes Enclosed	
2.4.1	Open trench method (may be allowed in utility corridor only where pavement is neither cement concrete nor dense bituminous concrete type. if yes, what is the methodology of refilling of trench		
	a) The trench width should be at least 30cm, but not more than 60 cm wider than the outer diameter of the pipe	NA	
	b) For filling of the trench bedding shall be to a depth of not less than 30cm. It shall consist of granular materials. Free of lumps, clods and cobbles and graded to yield a firm surface in the bearing value. Unsuitable soil and rock edged should be excavated and replaced by selected material.	NA	
	c) The backfill shall be completed in two stages i) side-fill to the level of the top of the pipe and ii) overfill to the bottom of the road crust	NA	
	d) The side fill shall consist of granular materials laid in 15cm layers each consolidated by mechanical tampering and controlled addition of moisture to 95% of the Proctor's Density. Overfill shall be compacted to the same density as the material that had removed. Consolidation by saturation or ponding will not be permitted	NA	
	e) The road crust shall be built to the same strength as existing crust on either side of the trench. Care shall be taken to avoid the formation of a dip at the trench	NA	
	f) The excavation shall be protected by flagman, signs and barricades, and red lights during night hours	NA	
	g) If required, a diversion shall be constructed at the expense of agency owning the utility line	NA	
2.4.2	Horizontal Directional Drilling (HDD) Method	NA	
2.4.3	Laying of HT Transmission line through CD works and method of laying	NA	
3	Draft license Agreement signed by two witnesses	Yes, Enclosed	
4	Whether Performance bank guarantee as per Ministry guidelines issued vide circular no: RW/NH-33044/29/2015/S&R® Dated 22.11.2016 is obtained	NA	
4.1	Confirmation of BG has been obtained are not as per MORTH/NHAI Guideline	NA	

Project Director
NHAI P.I.U., Anantapur



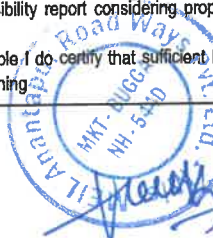
वेकन चित्तलूरी/Venkanna Chittaloori
उप महाप्रबंधक (टीएलसी) / DCM (TLC)
सर्वोच्च / POWER GRID
गुंती (सीओ) / GOOITY (CAO)

पुनी (सीएम) \ Gooly (CAO)
पावलीय \ POWERGRIP
छ मराठमक (सीएम) \ Gooly (CAO)
पुनी (सीएम) \ Gooly (CAO)

Guidelines for processing the proposal for approval of crossing of 400KV D/C (quad Moose) Anantapur PS to Kurnool-III PS overhead transmission line near Bugga Village, Tadipatri Mandal at Km.66.783 i.e., between the KM stones from Km.66+700 to Km.66+800 Km towards Tadipatri

Sl. No.	Item	Information/Status	IE Comments
5	Affidavit/ Undertaking from the Applicant from the following is to be furnished	Yes Enclosed	
5.1	Undertaking Not to Damage to any other utility, if damaged then to pay the losses either to NHAI or to the concerned agency.	Yes Enclosed	
5.2	Undertaking for renewal of BG as when asked by MORTH/NHAI	NA	
5.3	Confirming all standard condition of Ministry circulars and NHAI guideline	Yes Enclosed	
5.4	Undertaking for Indemnity against all damages and claims	Yes Enclosed	
5.5	Undertaking for management of traffic movement during laying utility line without hampering the traffic	Yes Enclosed	
5.6	Undertaking for If any claim is raised by the Concessionaries/contractor then the same has to be paid by the applicant.	Yes Enclosed	
5.7	Undertaking for Prior approval of NHAI shall be obtained before undertaking any work of installation, shifting or repairs, alteration to the utility line located in the National Highway Right-of-Way	Yes Enclosed	
5.8	Undertaking for 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	
5.9	Undertaking for Text of the license deed is as per verbatim of MoRTH format issued vide ministry's circular no.RW-NH-33044/29/2015/S&R dated:22-11-20216	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.	Yes Enclosed	
5.11	If the MoRTH/NHAI considers it necessary in future to move the utility line for any work of improvement or repair to the road, it will be carried out as desired by the MoRTH/NHAI at the cost of agency owning the utility line within the reasonable time(not exceeding 60 days) of the intimation given	Yes Enclosed	
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 roadways safety for traffic ii)we do undertaking that we will relocate service road/approach road/Utilities at my/our own cost not with standing the permission granted within such time as will be stipulated by NHAI for the future four/six laning or any other development.	Yes Enclosed	
6	who will sign the agreement on behalf of overhead HT Transmission line agency	The Deputy General Manager M/s POWERGRID ANANTHUPURAM KURNOOL TRANSMISSION LIMITED, 400kV Sub-station Office: Gooty, Thana-Gooty Tehsil-Gooty District- Anantapur (A.P.)- 515-402 AP(INDIA)	
6.1	Power of attorney to sign the agreement is available or not	Yes	
7	Certificate from the Project Director		
7.1	certificate for confirming of all standard condition issued vide Ministry Circular No RW/NH-33044/29/2015-S&R dated 22.11.2016	Yes	
7.2	Certificate from PD in the following format	Enclosed	
	i)it is certified that any other location of the overhead HT line would be extremely difficult and unreasonable costly and the crossing of overhead HT line will not adversely affects the design, stability and traffic safety of the Highway nor the likely future improvement such as widening of the carriageway, asling of curve etc.	Yes	
	ii)For 6 lanning a)where feasibility is available I do certify that there will be no hindrance to proposed six-laning based on the feasibility report considering proposed stricture at the said loaction. b)In case feasibility report is not available I do certify that sufficient ROW at site for accomodating proposed 6 lining	Yes	

Project Director
NHAI P.I.U., Anantapur



उप महानगर
पावरग्रिड/POWERGRID
गुटी (गुटी) / Gooty (CAO)
Chittaloori
TLC

1700161
(3)

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Guidelines for processing the proposal for approval of crossing of 400KV D/C (quad Moose) Anantapur PS to Kurnool-III PS overhead transmission line near Bugga Village, Tadipatri Mandal at Km.66.783 i.e., between the KM stones from Km.66+700 to Km.66+800 Km towards Tadipatri

Sl. No.	Item	Information/Status	IE Comments
8	if NH section proposed to be taken up by NHAI on BOT basis a clause to be inserted in the agreement. "The permitted Highway on which Licensee has been granted the right to lay utility line/duct has also been granted as a right of way 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 honour the same.	NA	
9	Who will supervise the work of laying of overhead HT Transission Line		
	a)On behalf of the applicant	The Deputy General Manager M/s POWERGRID ANANTHPURAM KURNOOL TRANSMISSION LIMITED. 400kV Sub-station Office: Gooty, Thana-Gooty Tehsil-Gooty District- Anantapur (A.P.)- 515-402 AP(INDIA)	
	b)on Behalf of MoRTH/NHAI	PD, PIU, NHAI, Anantapur	
10	who will ensure that the defects in road portion after laying of utility line are corrected and if not corrected then what action will be taken.		
	a)On behalf of the applicant	The Deputy General Manager M/s POWER GRID CORPORATION OF INDIA LIMITED, Nandyal CAO, Plot No.-103, Nandi Paradise. Kranti Nagar, Nandyal-518601, Andhra Pradesh	
	b)on Behalf of MoRTH/NHAI	PD, PIU, NHAI, Anantapur	
11	Who will pay the claims for damages done/disruption in working of Concessionaire if asked by the concessionaire	The Deputy General Manager M/s POWERGRID ANANTHPURAM KURNOOL TRANSMISSION LIMITED. 400kV Sub-station Office: Gooty, Thana-Gooty Tehsil-Gooty District- Anantapur (A.P.)- 515-402 AP(INDIA)	
12	A Certificate from PD that he will enter the Yes proposed permission in the register of records of the permissions in the prescribed proforma(Copy enclosed)	Yes, Enclosed	
13	If any previous approval is accorded for laying of underground Utility Line crossing then Photocopy of register of records of permissions accorded as maintained by PD	NA	

Name Designation and Signature of the
Authorized representative of a Applicant

(Signature)
वेंकट वित्तली/Venkatam Chittali
उप महाप्रबंधक (डीएलसी) / DGM (TLU)
धनशयन / POWERGRID
गुडी (डीएलसी) / Gooty (CAO)



Name Designation and Signature of
Concerened field of NHAI

(Signature)
Project Director
NHAI P.I.U., Anantapur

(Signature)
NHAI P.U.

श्रीग (श्रीग) / कोय (CAOI)
दस्तावेज: BOMEGRID
CUT / MOD / DON (TRC)
modelling and analysis
Question

M/s POWER GRID CORPORATION OF INDIA LTD Proposed National Highway No:544D Crossing of 400KV D/C Transmission Line from Ananthapur PS(Thimmapuram Village, Guntakal mandal, Ananthapur District) to Kurnool III (PS) (Nandipadu Village at Kolimigundla Mandal, Nandyal District).

Methodology of carrying out the Stringing activities

1. The aim of this exercise is to carry out the stringing of 400KV powerline across the National Highway no.544D between the tower AP 51 and AP 52 with the span of 248 metres. The distance of the tower AP 51 from centre line of the road is 112 metres and of AP 52 is 136 metres. After the stringing a clearance of 16.5 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 544D. 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 earth wire 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*4 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 four 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.

Project Director
NHAI P.I.U., Anantapur

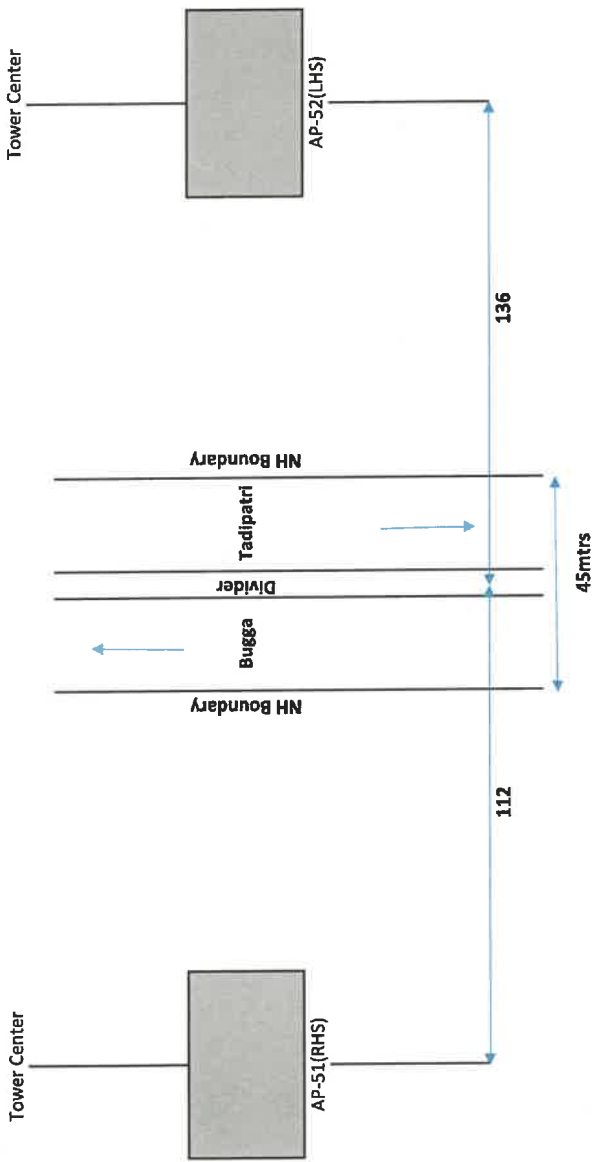


वेंकन्न चित्तलूरी/Venkanna Chittaloori
उप महाप्रबंधक(टीएलसी) / DGM (TLC)
पावरग्रिड/POWERGRID
गुटी (सीएओ) / Gooty (CAO)

सूची (सीआर) \ Gooty (CAO)
पावरग्रिड \ POWERGRID
जय मल्लिकार्जुन (टीएलसी) \ DGM (TLC)
वेकान्त चित्तलूरी \ Venkanna Chittaloori

M/s POWERGRID CORPORATION OF INDIA LIMITED

Strip plan showing the crossing of 400KV D/C(Quad Moose) from Ananthapur PS at Thimmapuram Village, Guntakal mandal, Ananthapur District to Kurnool III PS Transmission Line at Nandipadu Village at Kollimigundla Mandal, Nandyal District at KM 66.783 in between chainage from KM 66/7 to KM 66/8 of NH544D Near Bugga village, Tadipatri mandal in Anantapur District, Andhra Pradesh



Note
Drawing not to scale, All
dimensions are in meters

वेकन्न चित्तलूरी/Venkanna Chittaloori
उप महाप्रबंधक (टीएलसी) / DGM (TLC)
पावरग्रिड / POWERGRID
गुंटी (सीएओ) / Gooty (CAO)



Project Director
NHAI P.L.U., Anantapur

Signature

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निम्नलिखित में से एक चुनिए।

POWERGRID CORPORATION OF INDIA LIMITED		
400 KV D/C (Quad Moose) Anantapur PS to KURNOOL III PS TRANSMISSION LINE		
NH-544D CROSSING DETAILS (AT KM CHAINAGE 66.783 KM ,BETWEEN STONE NUMBERS 66.7 & 66.8		
SL.NO.	PARTICULARS	
1	NAME OF THE PROPOSED LINE	TL01 :400KV DC (QUAD MOOSE) Ananthapur PS to Kurnool III PS TL
2	NAME OF THE HIGHWAY	Kadapa-Tadipatri HIGHWAY NH-544D
3	CROSSING BETWEEN TOWER LOC NOS.	TOWER LOC.No. AP51-AP52
4	CROSSING BETWEEN TWO KM STONE NOS	EXISTING STONE No. 66/7 & 66/8
5	CROSSING AT KM CHAINAGE	66.783
6	CROSSING NEAREST VILLAGE	Bugga
7	CROSSING ANGLE	71°00'00"
8	CROSSING SPAN	248.0 m
9	MINIMUM GROUND CLEARANCE REQUIRED FROM BOTTOM CONDUCTOR TO TOP OF THE ROAD	14 m
10	GROUND CLEARANCE AVAILABLE FROM BOTTOM CONDUCTOR TO TOP OF THE ROAD	16.5 m
TOWER DETAILS:-		
11	Structures used to cross NH-44 and their deviation angles	AP51-DB2+3 (09°57'15" RT) AP52-DB2+0 (14°02'29" LT)
12	DISTANCE FROM LOC.No.AP51 TO NH-544D (Tower Leg/Nearerst Point of Tower with NH centre)	112.0 m
13	DISTANCE FROM LOC.No.AP52 TO NH-544D (Tower Leg/Nearerst Point of Tower with NH centre)	136.0 m
14	DISTANCE FROM LOC.No.AP51 TO NH-544D BOUNDARY	81.5.0m
15	DISTANCE FROM LOC.No.AP52 TO NH-544D BOUNDARY	106.5m
16	HEIGHT OF THE LOC.No.AP51 (DB2+03)	50.73 m
17	HEIGHT OF THE LOC.No.AP52 (DB2+00)	47.73 m
18	CO-ORDINATES OF LOC.No. AP51	179095.00 E 1660562.00 N
19	CO-ORDINATES OF LOC.No. AP52	179325.99 E 1660471.41 N

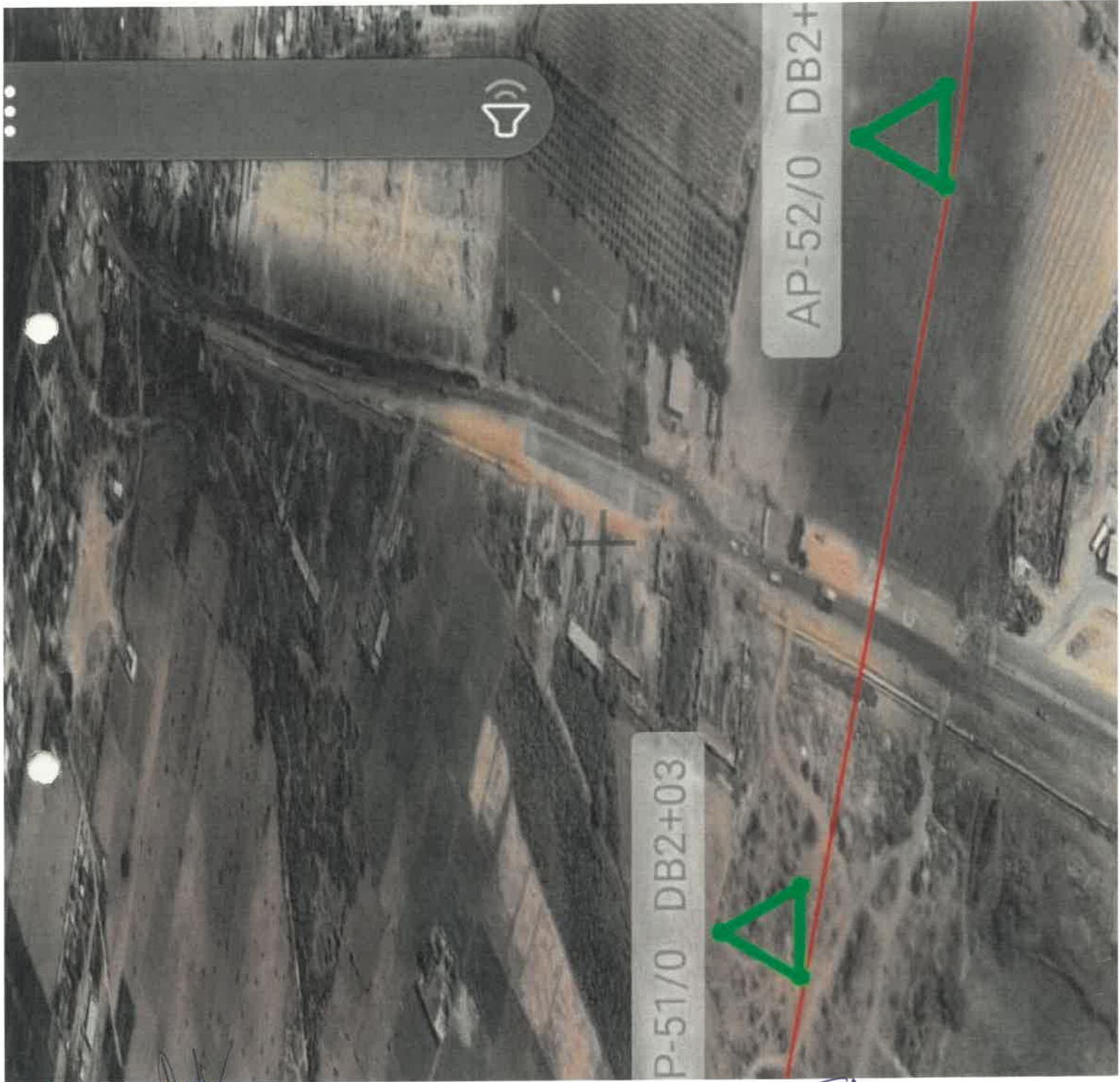
Project Director
NHAI P.I.U., Anantapur

(Signature)



वैकन्न चित्तलूरी/Venkanna Chittaloori
उप महानिरीक्षक (टीएलसी) / DGM (TLC)
पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड
गुड्री (सीआर) गूटी (CAO)

Dr. Venkanna Chittale
DGM (IC)
"WERSH"
(CAO)



Project Director
NHAI P.I.U., Anantapur

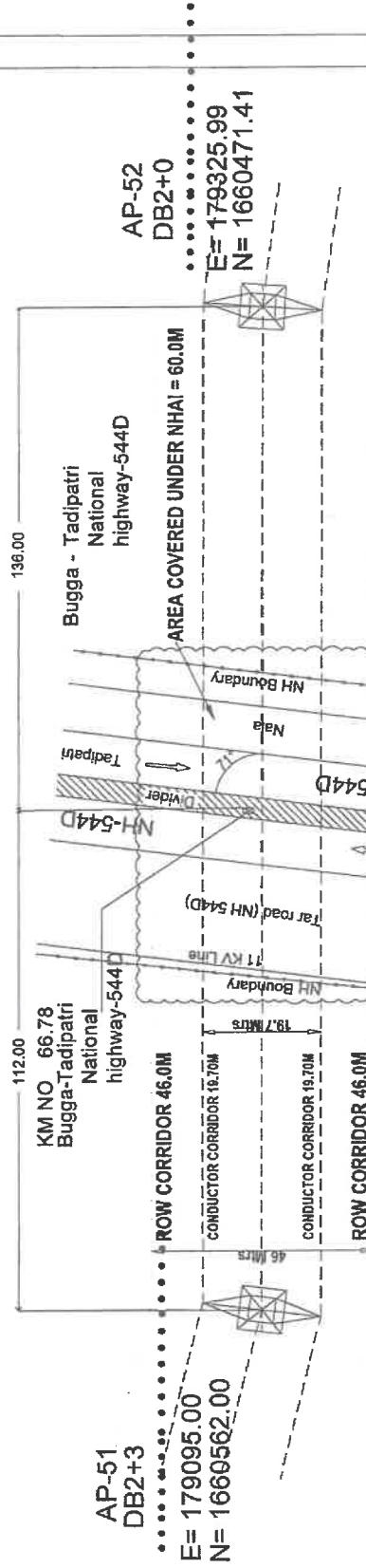


वेंकन्न चित्तलूरी/Venkanna Chittaloori
उप महाप्रबंधक (टी एल सी) / DGM (TLC)
पावरग्रिड / POWERGRID
गुत्ती (सी ए ओ) / Gooty (CAO)



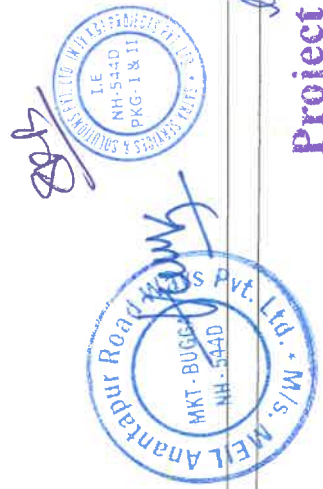
POWER GRID ANANTAPUR - KURNOOL TL Ltd.
(A Government of India Enterprise)

DETAILS OF OVERHEAD CROSSING OF
EXISTING NH-544D (NATIONAL HIGHWAY 544D
IN BETWEEN 6677 & 68/8 KM'S STONE (AT
66.783KM) OF PROPOSED TRANSMISSION LINE
PACKAGE TL01 FOR 400KV D/C (QUAD MOOSE)
TL ASSOCIATED WITH TRANSMISSION SCHEME
FOR SOLAR ENERGY ZONE IN ANANTHPURAM
(ANANTHAPUR (2500MW) AND KURNOOL
(1000MW), ANDHRA PRADESH UNDER TBCB.



ROW CORRIDOR	FOR 400KV QMDC LINE = 46.0M
NHAI AREA	COVERED UNDER ROW = 60 M x 46 M = 2760 Sqm
NHAI AREA	COVERED UNDER CONDUCTOR = 60 M x 19.70 M = 1182 Sqm
CONDUCTOR	CORRIDOR FOR 400KV QMDC LINE = 19.70M

Handwritten signature and stamp of the Project Director, NHAI P.U., Anantapur.



Project Director
NHAI P.U., Anantapur

inobktrind samskngV\श्रीलाली ललकं
(CU) M20\ (किरगि) कलसललल पल
CIR2R3W09\ कलसललल
(OAC) Y1002\ (किरगि) किग

पावर ग्रिड अनंतपुरम कुरनूल ट्रांसमिशन लिमिटेड

(पावरग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड की पूर्ण स्वामित्व वाली सहायक कंपनी)

POWERGRID ANANTHPURAM KURNOOL TRANSMISSION LIMITED

(A Wholly Owned Subsidiary of Power Grid Corporation of India Limited)

Ref: PAKTL/TL-01/Rev-Prop/ AP51-AP52/

Date: 04.12.2025

To
The Project Director,
National Highway Authority of India -PIU,
Ananthapuramu Dist.,
Andhra Pradesh-515004.

Respected sir,

Subject: construction of Transmission Line package - TL01 for 400 kV D/C (Quad Moose) Ananthapuram PS -Kurnool-III PS Transmission line associated with "Transmission Scheme for Solar Energy Zone in Ananthapuram (Ananthapur) (2500 MW) and Kurnool (1000 MW), Andhra Pradesh" under TBCB-Submission of Revised documents for overhead power line crossing with NH-544D -Reg.

Ref: PAKTL/SR-01/NHAI/TL-01/24-25 dated 26.08.2024

With reference to the subject mentioned above and the observations raised by NHAI-PIU regarding the proposed overhead power line crossing with NH-44, as communicated via letter reference NHAI/PIU-ATP/11021/24/NOC/1072 dated 03.09.2024, we hereby submit the revised documents. The proposal has been revised to incorporate all the necessary changes addressing the observations raised

We kindly request you to review the revised documents and process our application for approval of overhead powerline crossing on national highway NH-544D at Chainage 66.783 between KM stone 66/7 & 66 /8.

For and behalf PAKTL,



Venkanna Chittaloori,
DGM/Gooty CAO.

निर्माण क्षेत्र कार्यालय, 400kV गुल्ली सबस्टेशन, कुरनूल रोड, गुल्ली, अनंतपुर जिला. आंध्र प्रदेश, पिन: 515402

Construction Area Office, 400kV Gooty Substation, Kurnool Road, Gooty, Anantapur Dist. A.P. PIN: 515402

केन्द्रीय कार्यालय: "क्षेत्रीय मुख्यालय", कवाडीगुडा मेन रोड, सिकंदराबाद -500080, दूरभाष: 040-27546638

Corporate Office: "Regional Head Quarters," Kavadiguda Main Road, Secunderabad- 500080 Tel.: 040-27546638

पंजीकृत कार्यालय: बी -9, कुतब इंस्टीट्यूशनल एरिया, कटवारीया सराय, नई दिल्ली -110 016. दूरभाष: 011-26560112, 26560121, 26564812, 26564892, CIN: U40106DL2020GOI363683

Registered Office: B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi-110 016. Tel: 011-26560112, 26560121, 26564812, 26564892, CIN: U40106DL2020GOI363683

Website: www.powergrid.in

पावर ग्रिड अनंतपुरम कुरनूल ट्रान्समिशन लिमिटेड

(पावरग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड की पूर्ण स्वामित्व वाली सहायक कंपनी)

POWERGRID ANANTHPURAM KURNOOL TRANSMISSION LIMITED

(A Wholly Owned Subsidiary of Power Grid Corporation of India Limited)

Ref: SRTS-1/Gooty CAO/Estt:

Dtd: 25.06.2024

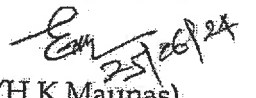
TO WHOM SO EVER IT MAY CONCERN

This is to certify that Sh. Venkanna Chittaloori, Deputy General Manager, Employee Number 60060171 is holding the position of In-charge for construction of TL-01 & TL-02 Transmission Lines associated with Power Grid Ananthapuram Kurnool Transmission Limited. The location of the establishment is given below:

Power Grid Ananthapuram Kurnool Transmission Limited,
400/220 kv Ananthapuram Pooling Station, c/o.
400/220 kv POWERGRID Substation,
Kurnool Road, Village: Vannedoddi, Gooty Mandal,
Ananthapuram District,
Andhra Pradesh – 515402.

This is to further certify that Sh. Venkanna Chittaloori is authorized as the principal employer for the above establishment. This authorization is being submitted for registering under CLRA and ISMW provisions.

for Power Grid Ananthapuram Kurnool Transmission Limited,


(H K Maunus)
GM, POWERGRID Gooty
महाप्रबंधक / General Manager
पावरग्रिड / POWERGRID
गूती सी.ए.ओ. / Gooty C.A.O.

निर्माण क्षेत्र कार्यालय, 400kV गुल्ली सबस्टेशन, कुरनूल रोड, गुल्ली, अनंतपुर जिला. आंध्र प्रदेश, पिन: 515402

Construction Area Office, 400kV Gooty Substation, Kurnool Road, Gooty, Anantapur Dist. A.P. PIN: 515402

केंद्रीय कार्यालय: "क्षेत्रीय मुख्यालय", कवाडीगुडा मेन रोड, सिकंदराबाद - 500080, दूरभाष: 040-27546638

Corporate Office: "Regional Head Quarters", Kavadiguda Main Road, Secunderabad- 500080 Tel.: 040-27546638

पंजीकृत कार्यालय: बी-9, कुतब इंस्टीट्यूशनल एरिया, कटवारिया सराई, नई दिल्ली-110 016. दूरभाष: 011-26560112, 26560121, 26564812, 26564892, CIN: U40106DL2020GOI363683

Registered Office: B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi-110 016. Tel: 011-26560112, 26560121, 26564812, 26564892, CIN: U40106DL2020GOI363683

Website: www.powergrid.in

Close



Authorisation Letter

To
The Regional Head,
Chief Labour Commissioner (Central)
Hyderabad , O/o Deputy Chief Labour Commissioner(c), A.t.i., Campus , Opp.
Shivam, Vidyanagar, Telangana

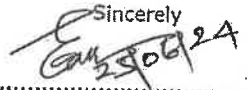
Contact : 040-27425673 , 9441253319 , dyclchyd-ap@nic.in , 040-27427290 ,
dyclchyd-ap@nic.in ,

Subject : Authorisation for LIN Registration and using Shram Suvidha Portal Form Number : 37607

Sir/Madam ,

We hereby authorise **Chitloori Venkanna** having Shram Suvidha Portal User Id **CAO GOOTY** email id **chvenkanna@powergrid.in** and mobile number **8333924147** to represent our establishment **Powergrid Ananthpuram Kurnool Transmission Limited, Construction Area Office, 400/220kv Gooty Substation, Anantapur -** . Who has already applied for representing our establishment on Shram Suvidha Portal (<https://shramsuvudha.gov.in>) on dated **01-07-2024** with request No. **37607**. We hereby authorise **Chitloori Venkanna** to do all operations related to LIN allotted and other activities on the behalf of our establishment.

Regards,

Sincerely

(.....)
(Authorised Signatory / Owner) Name

LIN : 2752913991
Email Id : chvenkanna@powergrid.in
Mobile No. : 8333924147

[Note: The Scanned Copy of the authorisation letter should be submitted to office within 30 days of the date of issue]

एच.के. मौनस/H.K. Maunas
महाप्रबंधक / General Manager
पावरग्रिड/POWERGRID
गुत्ती सी ए ओ/Gooty CAO

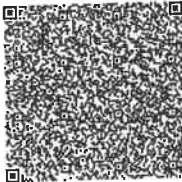


INDIA NON JUDICIAL
Government of Andhra Pradesh
e-Stamp



IN-AP08837952209361W

Certificate No. : IN-AP08837952209361W
Certificate Issued Date : 03-Aug-2024 05:05 PM
Account Reference : NEWIMPACC (CR)-apgnetr10/ AP-ATP/ AP-ANR/appharsinu
DDO Code : 27002308001 -O/o IG R
Unique Doc. Reference : SUBIN-APAPGNETR1035649278321385W
Purchased by : PAKTL
Description of Document : Article 6(C) Agreement In any other case
Property Description : AGREEMENT WITH NHAI
Consideration Price (Rs.) : 0
(Zero)
First Party : PAKTL
Second Party : NHAI
Paid By (For Whom) : PAKTL
Stamp Duty Amount(Rs.) : 100
(One Hundred only)



Please write or type below this line

UNDERTAKING

1. The Work of Erection of 400 KV D/C (quad Moose) from Anantapur PS at Thimmapuram Village, Guntakal mandal, Ananthapur District to Kurnool III (PS) Transmission Line at Nandipadu village, Kolimigundla Mandal, Nandyal District overhead crossing of National Highway NH-44 (Kadapa to Tadipatri section) near Bugga village, Tadipatri Mandai at Km.66.783 i.e., between the KM stones from Km.66+700 to Km.66+800, 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.
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.

Dr. Venkatar

HOFF 0013590672

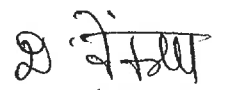
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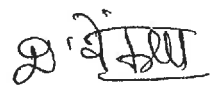
verkadina Chittaloori
అధికారి (టీ ఎల్ సి) / DGM (TLC)
పవర్ గ్రిడ్ / POWERGRID
గుర్రీ (సీ ఎ ఆ) / Goory (CAO)

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 bear 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.
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.



वेंक. न. चित्तलूरी/Venkanna Chittaloori
उप महाप्रबंधक (टी एल सी) / DGM (TLC)
पावरग्रिड / POWERGRID
गुत्ती (सी ए ओ) / Gooty (CAO)

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.
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.



केंद्र प्रमुख, ना चित्तौरी
उप महाप्रबंधक (टा एल सी) / DGM (ILC)
पावरग्रिड/POWERGRID
गुली (सी ए ओ) / Gooty (CAO)



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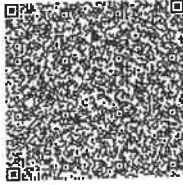
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Certificate No. : IN-AP08839031633383W
Certificate Issued Date : 03-Aug-2024 05:08 PM
Account Reference : NEWIMPACC (CR)/ apgnetr10/ AP-ATP/ AP-ANR/apharsinu
DDO Code : 27002308001 O/o IG R
Unique Doc. Reference : SUBIN-APAPGNETR1005651324251415W
Purchased by : PAKTL
Description of Document : Article 6(C) Agreement In any other case
Property Description : AGREEMENT WITH NHAI
Consideration Price (Rs.) : 0
(Zero)
First Party : PAKTL
Second Party : NHAI
Paid By (For Whom) : PAKTL
Stamp Duty Amount(Rs.) : 50
(Fifty only)



Please write or type below this line

UNDERTAKING

It is proposed to carryout stringing activity of 400 KV D/C Transmission Line from Anantapur PS at Thimmapuram Village, Guntakal mandal, Ananthapur District to Kurnool III (PS) at Nandipadu village, Kolimigundla Mandal, Nandyal District.

This Section is crossing National highway NH-544D (Kadapa to Tadipatri Section) near Bugga village, Tadipatri Mandal at Km 66.783 i.e., between the KM stones from Km 66.700 to Km 66.800 Km towards Tadipatri. This Section of the National Highway is under the control of Project Director, Project Implementation Unit, NHAI, Ananthapur.

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

In this context, I (Ch Venkanna, DGM, Gooty CAO, on behalf of Power grid Corporation of India Limited), hereby undertake that,

Ch Venkanna

HHF 0013590674

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चिन्नलूरी/Venkanna Chittaloor
उप महाप्रबंधक (टी एल सी)/DGM (TLC)
पावरग्रिड/POWERGRID
गुडी (सी ए ओ)/Gooty (CAO)

- a) We would pay or compensate for any damage caused to the NHAI property as per the direction of the PD, PIU, NHAI, Ananthapur on Highway at Km.66.783 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 66.783 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 2 laning or further development works of the National Highway-544D (Kadapa to Tadipatri 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 400 KV D/C (Quad Moose) from Ananthpur PS at Thimmapuram Village, Guntakal mandal, Ananthapur District to Kurnool III (PS) Transmission Line at Nandipadu village, Kolimigundla mandal, Nandyal 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.



(कन्सल्टिंग/वेनकाटा)
उप महाप्रबंधक (टी एल सी) / DGM (TLC)
पावरग्रिड / POWERGRID
गुट्टी (सी ए ओ) / Gooty (CAO)



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Certificate Issued Date : 03-Aug-2024 05:07 PM
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DDO Code : 27002308001 O/o IG R
Unique Doc. Reference : SUBIN-APAPGNETR1005650357568455W
Purchased by : PAKTL
Description of Document : Article 6(C) Agreement In any other case
Property Description : AGREEMENT WITH NHAI
Consideration Price (Rs.) : 0
(Zero)
First Party : PAKTL
Second Party : NHAI
Paid By (For Whom) : PAKTL
Stamp Duty Amount(Rs.) : 50
(Fifty only)



Please write or type below this line

CERTIFICATE

1. The work of Erection of 400 KV D/C (Quad Moose) at Thimmapuram Village, Guntakal mandal, Ananthapur District from Anantapur PS Kurnool III (PS) Transmission Line at Nandipadu village, Kolimigundla mandal, Nandyal District crossing of National Highway NH-544D (Kadapa to Tadipatri section) near Bugga village, Tadipatri Mandal at Km.66.783 i.e., between the KM stones from Km.66.700.00 to Km.66.800 Km towards Anantapur.

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.

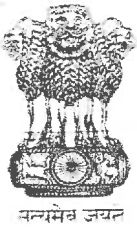
वेकन चित्तलूरी/Venkanna Chittaloori
उप महामंडल (टी एल सी)/DGM (TLC)
पावरग्रिड/POWERGRID
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0013590673

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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 - अनंतपुर

6-4-239, 3rd क्रॉस, मारुति नगर, अनंतपुर

PROJECT IMPLEMENTATION UNIT - ANANTHAPUR

6-4-239, 3rd Cross, Maruthi Nagar, Ananthapur - 515 004.

टेली / Tele : 91-8554-275599 ई-मेल / Email : anantapur@nhai.org, nhaiuiatp@gmail.com



0/c

NHAI/PIU-ATP/11021/25/NOC/1093

05.08.2025

Authorized Signatory

M/s SATRA Services and Solutions Pvt. Ltd.

in JV with K&J Projects Pvt. Ltd.

401, Capital Park, Image Garden Lane

Hi-Tech City, Madhapur

HYDERABAD -500 081

Email ID: pms@satragroup.in

Sub: 4 Laning of NH 544D from existing km 346.300 of NH 44 (Design Chainage km 0.000) to km 39.380 (Design Chainage km 37.000) of Anantapur-Muchukota section on Hybrid Annuity Mode under NH (O) in the state of Andhra Pradesh-construction of Transmission Line package - TL01 for 400 kV D/C (Quad Moose) Ananthapuram PS -Kurnool-III PS Transmission line associated with "Transmission Scheme for Solar Energy Zone in Ananthapuram (Ananthapur) (2500 MW) and Kurnool (1000 MW), Andhra Pradesh" under TBCB-Submission of Revised documents for overhead power line crossing with NH-544D - Approval- Requested reg.,

Ref: The DGM, Gooty CAO, POWERGRID ANANTHAPURAM KURNOOL TRANSMISSION LIMITED letter dtd 28.07.2025.

Sir,

The DGM, Gooty CAO, PATKL vide letter cited under reference above has submitted the proposal for construction of Transmission Line package - TL01 for 400 kV D/C (Quad Moose) Ananthapuram PS -Kurnool-III PS Transmission line associated with "Transmission Scheme for Solar Energy Zone in Ananthapuram (Ananthapur) (2500 MW) and Kurnool (1000 MW), Andhra Pradesh" under TBCB at location of Muchukota - Bugga Section of NH 544D and sought the approval.

2. It is requested to inspect the site and furnish your comments/observations in respect of the above by duly signing the drawings/checklist submitted by the DGM, Gooty CAO, PATKL & keeping in view of all the standard conditions issued vide Ministry/NHAI Circulars, at the earliest for further necessary action.

Yours truly

Encl: As above

P. Tarun
Sector - AHE

A. Tarun Kumar
05/08/25.

DGM (Tech.) & Project Director

Copy to:

The DGM, Gooty CAO, PATKL.

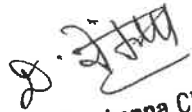
Building a Nation, Not Just Roads

CONDUCTOR PROPERTIES & INITIAL COMBINATION		
	PROPERTIES	
1	CONDUCTOR NAME	AL59 Moose
2	UTS....(KG)	12716
3	AREA OF CONDUCTOR...(SQ.CM)	5.25
4	WEIGHT OF CONDUCTOR....(Kg/M)	1.449
5	DIAMETER OF CONDUCTOR....(Cm)	2.979
6	MODULUS OF ELASTICITY.....(Kg/Sq.CM)	560800
7	COEFF.OF LINEAR EXPANSION.....Per Deg C	0.000023
	INITIAL COMBINATION	
1	WIND PRESSURE ON CONDUCTOR....(Kg/Sq.m)	133
2	INITIAL CONDUCTOR TEMP.....(DEG C)	32
3	INITIAL WIND.....%	0
4	RESULTANT TENSION(Kg) AT 32 DEG C & NO WIND	2798
5	NORMAL SPAN	400


 वे.प्र. न. चिंतपूर/ Verikanna Chintapur
 उप महाप्रबंधक (टी एल सी) / DGM (TLC)
 पावरग्रिड / POWERGRID
 गुटी (सी ए ओ) / Gooty (CAO)

EARTHWIRE PROPERTIES & INITIAL COMBINATION

	PROPERTIES	
1	CONDUCTOR NAME	EARTHWIRE(3.66)
2	UTS....(KG)	6934
3	AREA OF CONDUCTOR...(SQ.CM)	0.7365
4	WEIGHT OF CONDUCTOR....(Kg/M)	0.583
5	DIAMETER OF CONDUCTOR....(Cm)	1.098
6	MODULUS OF ELASTICITY.....(Kg/Sq.CM)	1936100
7	COEFF.OF LINEAR EXPANSION.....Per Deg C	0.0000115
	INITIAL COMBINATION	
1	WIND PRESSURE ON CONDUCTOR....(Kg/Sq.m)	164.5
2	INITIAL CONDUCTOR TEMP.....(DEG C)	32
3	INITIAL WIND.....%	0
4	RESULTANT TENSION(Kg) AT 32 DEG C & NO WIND	1341
5	NORMAL SPAN	400


 वेंकन्न चित्तलूरी/Vankanna Chittaloori
 उप महाप्रबंधक(टी एल सी) / DGM (TLC)
 पावरग्रिड / POWERGRID
 गुन्टी (सी ए ओ) / Gooty (CAO)



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Certificate Issued Date	: 20-Jun-2025 06:19 PM
Account Reference	: NEWIMPACC (SV)/ ap18082104/ AP-ATP/ AP-APR1/apvsarisu
DDO Code	: 27002308001 O/o IG R
Unique Doc. Reference	: SUBIN-APAP1808210488038948556647X
Purchased by	: PAKIL GOOTY CAO
Description of Document	: Article 6(C) Agreement In any other case
Property Description	: AGREEMENT
Consideration Price (Rs.)	: 0 (Zero)
First Party	: PAKIL GOOTY CAO
Second Party	: NHAI ANANTAPUR
Paid By (For Whom)	: PAKIL GOOTY CAO
Stamp Duty Amount(Rs.)	: 100 (One Hundred only)



Please write or type below this line

UNDERTAKING

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GG 0013005273

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पावरग्रिड / POWERGRID
गुती (सी ए ओ) / Gooty (CAO)


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.
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वेकन विमर्श/Verkanna Chittaloori
उप महाप्रबंधक (टी एल सी) / DGM (TLC)
पावरग्रिड / POWERGRID
ती (सी ए ओ) / Gooty (CAO)

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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, if will carried out as desired by the MoRTH/NHAI at our own cost within the reasonable time (not exceeding 60 days) of the intimation given.


वेंकन्न चित्तलूरी/Venkanna Chittaloori
उप महाप्रबंधक (टी एन ग्रीड) / UPM (TLC)
पावरलिंक/PLC - nGRID
गुत्ती (सी ए ओ) / Gooty (CAO)

- a) We would pay or compensate for any damage caused to the NHAI property as per the direction of the PD, PIU, NHAI, Ananthapur on Highway at Km.66.783 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 66.783 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.
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वेंकन्न चित्तलूरी/Venkanna Chittaloori
उप महाप्रबंधक (टी एल सी) / DGM (TLC)
पावरग्रिड / POWERGRID
गुन्ती (सी ए ओ) / Gooty (CAO)



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Government of Andhra Pradesh

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Unique Doc. Reference : SUBIN-APAP1808210488042511069003X
Purchased by : PAKIL GOOTY CAO
Description of Document : Article 6(C) Agreement In any other case
Property Description : AGREEMENT
Consideration Price (Rs.) : 0
 (Zero)
First Party : PAKIL GOOTY CAO
Second Party : NHAI ANANTAPUR
Paid By (For Whom) : PAKIL GOOTY CAO
Stamp Duty Amount(Rs.) : 100
 (One Hundred only)



Please write or type below this line

CERTIFICATE

- The work of Erection of 400 KV D/C (Quad Moose) at Thimmapuram Village, Guntakal mandal, Ananthapur District from Anantapur PS to Kurnool III (PS) Transmission Line at Nandipadu village, Kolimigundla mandal, Nandyal District crossing of National Highway NH-544D (Kadapa to Tadipatri section) near Bugga village, Tadipatri Mandal at Km.66.783 i.e., between the KM stones from Km.66.700.00 to Km.66.800 Km towards Tadipatri.

We hereby certify that,

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

Statutory Alert:

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- The onus of checking the legitimacy is on the users of the certificate.
- In case of any discrepancy please inform the Competent Authority.


GG 0013005274

వేంకన్న చిత్తలూరి/Venkanna Chittaloori
 డి.ఎం.రెడ్డి ప్రమేలా (టీ ఎల్ సి) / DGM (TLC)
 పావరగిడ్ / POWERGRID
 గుత్తి (సి ఎ ఆ) / Gooty (CAO)


M/s POWERGRID ANANTHPURAM KURNOOL TRANSMISSION LIMITED
(A whole subsidiary of POWER GRID CORPORATION OF INDIA LTD)
Proposed National Highway No:544D Crossing of 400KV D/C Transmission Line
from Ananthapur PS (Thimmapuram Village, Guntakal mandal, Ananthapur
District) to Kurnool III (PS) (Nandipadu Village at Kolimigundla Mandal,
Nandyal District).

Methodology of carrying out the Stringing activities

1. The aim of this exercise is to carry out the stringing of 400KV powerline across the National Highway no.544D between the tower AP 51 and AP 52 with the span of 248 metres. The distance of the tower AP 51 from centre line of the road is 112 metres and of AP 52 is 136 metres. After the stringing a clearance of 16.5 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 544D. 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 earth wire 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*4 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 four 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.


वेंकन्न चित्तलूरी/Venkanna Chittaloori
उप महाप्रबंधक (टी एल सी) / DGM (TLC)
पावरग्रिड / POWERGRID
गुत्ती (सी ए ओ) / Gooty (CAO)

POWERGRID CORPORATION OF INDIA LIMITED		
400 KV D/C (Quad Moose) Anantapur PS to KURNOOL III PS TRANSMISSION LINE		
NH-544D CROSSING DETAILS (AT KM CHAINAGE 66.783 KM ,BETWEEN STONE NUMBERS 66.7 & 66.8		
SL.NO.	PARTICULARS	
1	NAME OF THE PROPOSED LINE	TL01 :400KV DC (QUAD MOOSE) Ananthapur PS to Kurnool III PS TL
2	NAME OF THE HIGHWAY	Kadapa-Tadipatri HIGHWAY NH-544D
3	CROSSING BETWEEN TOWER LOC NOS.	TOWER LOC.No. AP51-AP52
4	CROSSING BETWEEN TWO KM STONE NOS	EXISTING STONE No. 66/7 & 66/8
5	CROSSING AT KM CHAINAGE	66.783
6	CROSSING NEAREST VILLAGE	Bugga
7	CROSSING ANGLE	71°00'00"
8	CROSSING SPAN	248.0 m
9	MINIMUM GROUND CLEARANCE REQUIRED FROM BOTTOM CONDUCTOR TO TOP OF THE ROAD	14 m
10	GROUND CLEARANCE AVAILABLE FROM BOTTOM CONDUCTOR TO TOP OF THE ROAD	16.5 m
TOWER DETAILS:-		
11	Structures used to cross NH-44 and their deviation angles	AP51-DB2+3 (09°57'15" RT) AP52-DB2+0 (14°02'29" LT)
12	DISTANCE FROM LOC.No.AP51 TO NH-544D (Tower Leg/Nearerst Point of Tower with NH centre)	112.0 m
13	DISTANCE FROM LOC.No.AP52 TO NH-544D (Tower Leg/Nearerst Point of Tower with NH centre)	136.0 m
14	DISTANCE FROM LOC.No.AP51 TO NH-544D BOUNDARY	81.5.0m
15	DISTANCE FROM LOC.No.AP52 TO NH-544D BOUNDARY	106.5m
16	HEIGHT OF THE LOC.No.AP51 (DB2+03)	50.73 m
17	HEIGHT OF THE LOC.No.AP52 (DB2+00)	47.73 m
18	CO-ORDINATES OF LOC.No. AP51	179095.00 E 1660562.00 N
19	CO-ORDINATES OF LOC.No. AP52	179325.99 E 1660471.41 N



 वेंकन्न चित्तलूरी/Venkanna Chittaloori
 उप महाप्रबंधक (टी एल सी) / DGM (TLC)
 पावरग्रिड / POWERGRID
 गुट्टी (सी ए ओ) / Gooty (CAO)

CONDUCTOR PROPERTIES & INITIAL COMBINATION		
	PROPERTIES	
1	CONDUCTOR NAME	AL59 Moose
2	UTS....(KG)	12716
3	AREA OF CONDUCTOR...(SQ.CM)	5.25
4	WEIGHT OF CONDUCTOR....(Kg/M)	1.449
5	DIAMETER OF CONDUCTOR....(Cm)	2.979
6	MODULUS OF ELASTICITY.....(Kg/Sq.CM)	560800
7	COEFF.OF LINEAR EXPANSION.....Per Deg C	0.000023
	INITIAL COMBINATION	
1	WIND PRESSURE ON CONDUCTOR....(Kg/Sq.m)	133
2	INITIAL CONDUCTOR TEMP.....(DEG C)	32
3	INITIAL WIND.....%	0
4	RESULTANT TENSION(Kg) AT 32 DEG C & NO WIND	2798
5	NORMAL SPAN	400


 वेंकन्न चित्तलूरी/Venkanna Chittaloori
 उप महाप्रबंधक (टी एल सी) / DGM (TLC)
 पावरग्रिड / POWERGRID
 गुन्ती (सी ए ओ) / Gooty (CAO)

EARTHWIRE PROPERTIES & INITIAL COMBINATION

	PROPERTIES	
1	CONDUCTOR NAME	EARTHWIRE(3.66)
2	UTS....(KG)	6934
3	AREA OF CONDUCTOR...(SQ.CM)	0.7365
4	WEIGHT OF CONDUCTOR....(Kg/M)	0.583
5	DIAMETER OF CONDUCTOR....(Cm)	1.098
6	MODULUS OF ELASTICITY.....(Kg/Sq.CM)	1936100
7	COEFF.OF LINEAR EXPANSION.....Per Deg C	0.0000115
	INITIAL COMBINATION	
1	WIND PRESSURE ON CONDUCTOR....(Kg/Sq.m)	164.57
2	INITIAL CONDUCTOR TEMP.....(DEG C)	32
3	INITIAL WIND.....%	0
4	RESULTANT TENSION(Kg) AT 32 DEG C & NO WIND	1341
5	NORMAL SPAN	400


वेंकन्न चित्तलूरी/Venkanna Chittaloori
उप महाप्रबंधक (टी एल सी) / DGM (TLC)
पावरग्रिड / POWERGRID
गुत्ती (सी ए ओ) / Gooty (CAO)

पावर ग्रिड अनंतपुरम कुरनूल ट्रान्समिशन लिमिटेड

(पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड की पूर्ण स्वामित्व वाली सहायक कंपनी)

POWERGRID ANANTHPURAM KURNOOL TRANSMISSION LIMITED

(A Wholly Owned Subsidiary of Power Grid Corporation of India Limited)

Ref: PAKTL/TL-01/Rev-Prop/AP51-AP52/

Date: 28.07.2025

To
The Project Director,
National Highway Authority of India -PIU,
Ananthapuramu Dist.,
Andhra Pradesh-515004.

NHAI.PIU., Anantapur	
Inward No :	2875
E-mail Date :	
Original Date :	29/7/24

Manager (Tech)	S.E.-1
S.E.-2	S.E.-3
Rt. Insular	Accountant
IT Expert	Goods Clerk

Respected sir,

Subject: construction of Transmission Line package - TL01 for 400 kV D/C (Quad Moose) Ananthapuram PS -Kurnool-III PS Transmission line associated with "Transmission Scheme for Solar Energy Zone in Ananthapuram (Ananthapur) (2500 MW) and Kurnool (1000 MW), Andhra Pradesh" under TBCB-Submission of Revised documents for overhead power line crossing with NH-544D -Reg.

Ref: PAKTL/SR-01/NHAI/TL-01/24-25 dated 26.08.2024

With reference to the subject mentioned above and the observations raised by NHAI-PIU regarding the proposed overhead power line crossing with NH-44, as communicated via letter reference NHAI/PIU-ATP/11021/24/NOC/1072 dated 03.09.2024, we hereby submit the revised documents. The proposal has been revised to incorporate all the necessary changes addressing the observations raised

We kindly request you to review the revised documents and process our application for approval of overhead powerline crossing on national highway NH-544D at Chainage 66.783 between KM stone 66/7 & 66 /8.

For and behalf PAKTL,



Venkanna Chittaloori,
DGM/Gooty CAO.

निर्माण क्षेत्र कार्यालय, 400kV गुत्ती सबस्टेशन, कुरनूल रोड, गुत्ती, अनंतपुर जिला. आंध्र प्रदेश, पिन: 515402

Construction Area Office, 400kV Gooty Substation, Kurnool Road, Gooty, Anantapur Dist. A.P. PIN: 515402

केन्द्रीय कार्यालय: "क्षेत्रीय मुख्यालय", कवाडीगुडा मेन रोड, सिकंदराबाद -500080, दूरभाष: 040-27546638

Corporate Office: "Regional Head Quarters", Kavadiiguda Main Road, Secunderabad- 500080 Tel.: 040-27546638

पंजीकृत कार्यालय: बी -9, कुतुब इंस्टीट्यूशनल एरिया, कटवारिया सराय, नई दिल्ली -110 016. दूरभाष: 011-26560112, 26560121, 26564812, 26564892, CIN: U40106DL2020GOI363683

Registered Office: B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi-110 016. Tel: 011-26560112, 26560121, 26564812, 26564892, CIN: U40106DL2020GOI363683

Website: www.powergrid.in

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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.

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Whereas the Authority is responsible, inter-alia, for development and maintenance of Lands in Km 0.000 to Km 69.000 of NH 544D Row.

Whereas the Licensee proposes to lay Overhead Electrical Line /Overhead High-Tension line TL01 400kV DC (Quad Moose) Anantapur PS to Kurnool III PS transmission line referred to as utility services in subsequent paras.

Whereas the Licensee has applied to the Authority for permission to lay Overhead electrical line/ overhead high-tension line TL01 400kV DC (Quad Moose) Anantapur PS to Kurnool III PS transmission line Transmission Line in between km 66/7 & 66 /8 Across National Highway no. 544D Chainage 66.783 KM at Village Bugga of Anantapur district in the state of Andhra Pradesh.

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

Now this agreement witnessed 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 TL01 400kV DC (Quad Moose) Anantapur PS to Kurnool III PS transmission line 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 registered 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 clearance, 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 / individual infrastructure facilities.
4. The licensee shall pay license fee @ Rs. NA to the Authority. The license fee shall become payable from the date of handing over of RoW land to the licensee, for lying 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 license agreement. 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.
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 spare 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, drain, other roadside furniture etc. the utility services, shall be laid beyond the toe line of the embankments and clear of the drain.
8. The licensee shall make his own arrangement for crossing of cross drainage structure, river, 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 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 the 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 meters 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 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 specification of the Ministry.
12. Existing drainage structure shall not be allowed to carry the line/ lines across.
13. The top of the casing/conduit pipe containing the utility services to cross the road shall be at least 1.2m below the top of the sub grade or the existing ground level whichever is

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lower, subject to being at least 0.3m below the drain inverts. A typical sketch showing the clearances given in Attachment-I (NA).

14. The utility services shall cross the National Highway, 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.
16. In case of trenching, the sides of the trench should be done as nearly vertically 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 herein below or as supplied by Highway Authority.
 - a) Bedding shall be 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.
 - b) 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.
 - c) The side fill shall consist of granular material laid in 15 cm. Layers each consolidated by mechanical tamping and controlled addition of moisture to 90 % 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.
 - d) The road crust shall be built to the same strength as the existing crust on either side of the trench or to thickness and specification 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 the restore the land in the same condition as it is to be was before digging the trench, clearing debris/loose earth produced due to execution of trenching at least 50m away from the edge of the right of way.
18. All required restoration works subsequent to laying of overhead Electric Power Transmission line across national highway No. 544D at KM 66/7 to 66/8 near Bugga village, Tadipatri mandal of Anantapur District, Andhra Pradesh, 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 NA with a validity of one meter initially (extendable if required to the 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 and 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 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 permission, within the period a period 11 month 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. 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 for ascertaining 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 damage 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 replacement sought format the cost and risk of the Licensee. The concerned agency in coordination with authority shall have the right make good such damage/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 subjected to the licensee satisfying (a) minimum disruption of traffic and (b) no damage to the highway, 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 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 restorations work, the authority shall have a right to make good the damage caused by excavation, at the cost of the Licensee and recover the amount by forfeiture of the Bank Guarantee.

26. The Licensee shall inform/give a notice to the concerned agency designated by the authority at least 15 days in advance with route details prior to digging trenches, for fresh or maintenance /repair works. A separate performance Bank Guarantee for maintenance /repair works shall have to be furnished by the Licensee.
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 agency concerned designated by the authority.
28. The licensee shall indemnify the concerned agency in co-ordination with authority, against all damages and claims, if any due to the digging of trenches for laying cables/ducts.
29. The permission for laying utility services is granted maximum for 5 years at a time, which can thereafter be considered for renewal. On payment of additional fee at the time of renewal, the permission shall automatically be renewed unless defaults exist. In case of renewal, rate prevailing at the time of renewal shall be charged. Delay in deposition of fee shall attract interest @ 15% per annum compounded annually.
30. The permission shall be valid only for the period it is issued and fee deposited. However, the authority also has a right to terminate the permission or to extend the period of agreement.
31. That the Licensee does not undertake any work of shifting, repairs or alteration to the utility services without prior written permission of the concerned agency in co-ordination 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. Three copies of 'as laid drawings' of utilities (hard and soft copies) with geotagged photographs and geo-tagged video recordings of laying of overhead Electric Power Transmission line across national highway No. 544D at KM 66/7 66/8 to near Bugga village, Tadipatri mandal of Anantapur District, Andhra Pradesh (with respect to the NH) and after complete restoration shall be submitted to the authority for verification and record within a month of completion of works.
36. The Licensee shall allow free access to the site at all times to the authorized representatives of authority to inspect the project Facilities and investigate any matter within their Authority, and 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 approval specifications and the 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 the 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 standards and follow best industry practices, methods and standards for the purpose of ensuring the safe, efficient and economic design, construction, commissioning, operation, repair and maintenance of any part of the utility lines/industrial infrastructure facilities and which practices, methods and standards shall be adjusted as necessary, to take account of
- a. Operation, repair and maintenance guidelines given by the manufacturers,
 - b. The requirements of the 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 road. 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 50 m 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 AND THE YEAR FIRST ABOVE WRITTEN.

SIGNED SEALED AND DELIVERED FOR AND ON BEHALF OF AUTHORITY.

Signed by Sri Venkanna Chittaloori
वेंकन्न चित्तलूरी/Venkanna Chittaloori
उप महाप्रबंधक (टीएलसी) / DGM (TLC)
For Powergrid Anantapuram
गुटी (सीएओ) / Gooty (CAO)
Kurnool Transmission Limited

Signed by Sri _____

National Highway Authority of India
(For and on behalf of President of India)

IN THE PRESENCE OF (WITNESSES):

1. P. Lakshman Jr. technician
Name in full (Signature)
Panithi Lakshman
with designation (Gooty CAO)

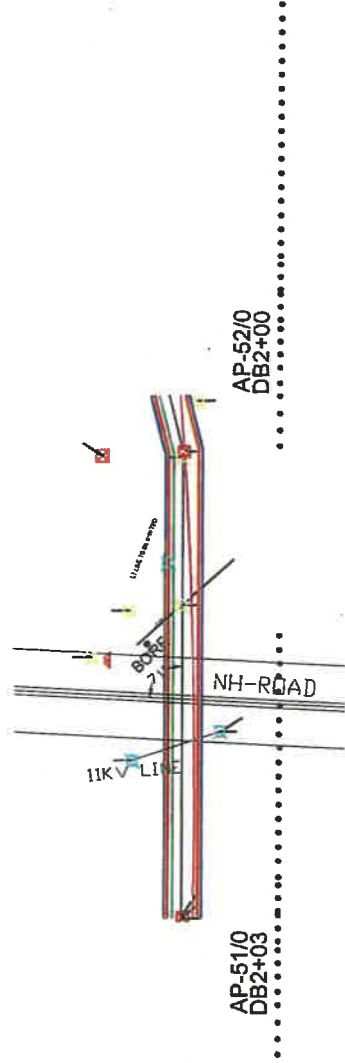
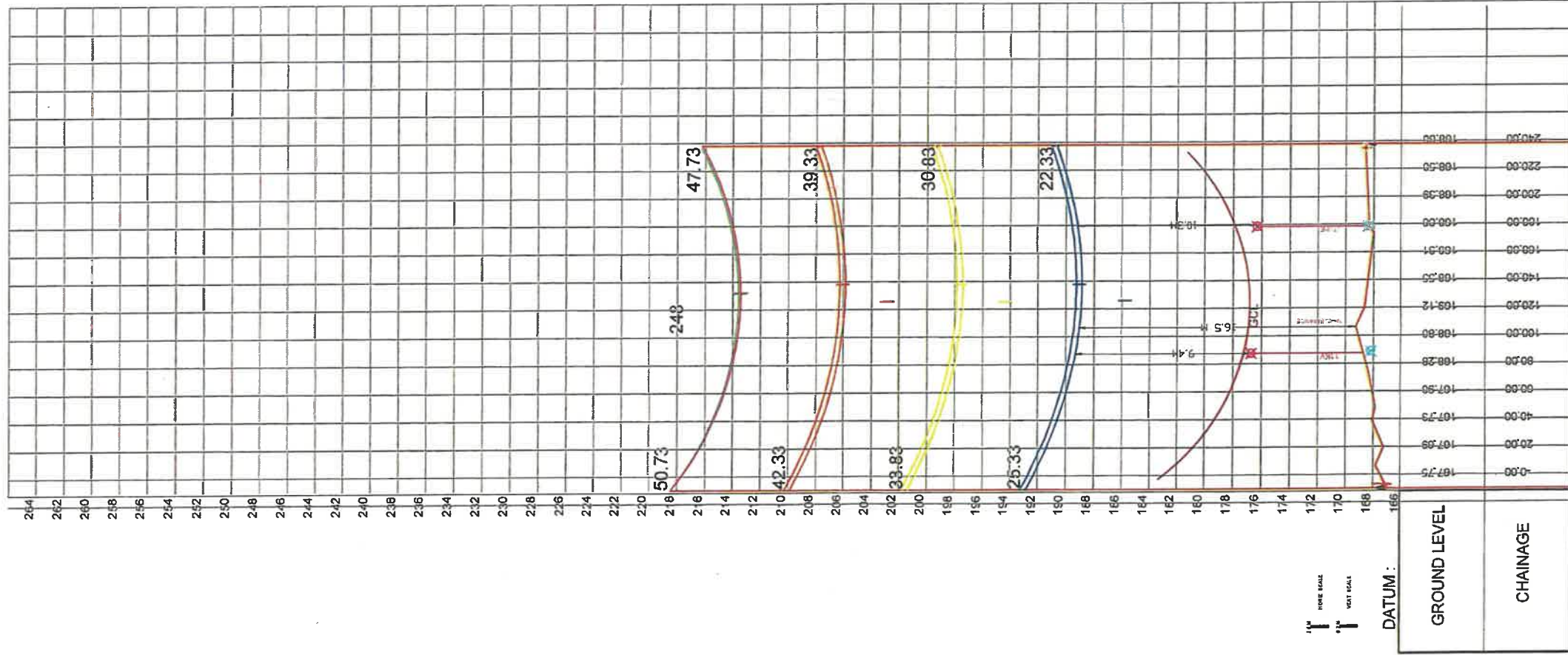
1. _____
Name in full (Signature)
with designation

2. P. S. S. V. Prasada
Name in full (Signature)
with designation

2. _____
Name in full (Signature)
with designation

Table with 2 columns: Item No., Description. Rows include Conductor, Cable Diameter, Area of Conductor, Unit Weight of Conductor, Ultimate Tension Strength, Normal Span (Hanging Span), Ground Clearance (Bag error of 0.15m), and Sag Tension Data for 400kV D/C TL.

DB2+03.STK
STA=0.00
AP-51/0
DB2+03
W.T.S.H.:0(L)+136(R)=136
W.T.S.C.:0(L)+149(R)=149
WIND SPAN : 125
HT=50.73 ELE=167.75
E=178095.00
N=1660562.00



Project Director
NHAI P.I.U., Anantapur



Project Engineer
NHAI P.I.U., Anantapur

Table with 4 columns: Item No., Description, Quantity, Unit. Rows include Conductor, Cable Diameter, Area of Conductor, Unit Weight of Conductor, Ultimate Tension Strength, Normal Span (Hanging Span), Ground Clearance (Bag error of 0.15m), and Sag Tension Data for 400kV D/C TL.