



# भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय)

## National Highways Authority of India

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

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

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

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



Lr.No. NHA/RO-VJA/PIU-ONG/NH-16/C-N/ NOC/2024/1721

Dt.10.06.2024

### INVITATION OF PUBLIC COMMENTS

**Sub:** NHAI, RO - Vijayawada - UPC Code: N/02004/28001/AP - RCW - Application from APCPDCL, Government of Andhra Pradesh - Operation Circle, Ongole - Requested Permission for laying of 33KV DC 60 Angle and Dead-End Tower Type "M" (NT & +6M Body Extns.) & 33KV DC 60 Angle and Dead-End Tower Type "M" (NT & +9M Body Extns.) along NH-16 (Chilakaluripet to Nellore section) from Km.1285+915 to Km.1306+670 & crossing at Km.1306+670 (RHS to LHS) at Nellore District of Andhra Pradesh for a total length of 20821m - Public comments - Reg.

\*\*\*\*\*

The Project Director, PIU - Ongole submitted a proposal APCPDCL, Operation Circle, Ongole for for laying of 33KV DC 60 Angle and Dead-End Tower Type "M" (NT & +6M Body Extns.) & 33KV DC 60 Angle and Dead-End Tower Type "M" (NT & +9M Body Extns.) along NH-16 (Chilakaluripet to Nellore section) from Km.1285+915 to Km.1306+670 & crossing at Km.1306+670 (RHS to LHS) at Nellore District of Andhra Pradesh for a total length of 20821m.

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

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

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

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



# भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय)

## National Highways Authority of India

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

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

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

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



Lr.No. NHAI/RO-VJA/PIU-ONG/NH-16/C-N/ NOC/2024/1720  
To

Dt.10.06.2024

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

**Sub:** NHAI, RO - Vijayawada - UPC Code: N/02004/28001/AP - RCW - Application from APCPDCL, Government of Andhra Pradesh - Operation Circle, Ongole - Requested Permission for laying of 33KV DC 60 Angle and Dead-End Tower Type "M" (NT & +6M Body Extns.) & 33KV DC 60 Angle and Dead-End Tower Type "M" (NT & +9M Body Extns.) along NH-16 (Chilakaluripet to Nellore section) from Km.1285+915 to Km.1306+670 & crossing at Km.1306+670 (RHS to LHS) at Nellore District of Andhra Pradesh for a total length of 20821m - Public comments - Reg.

\*\*\*\*\*

Sir,

Please find enclosed herewith a proposal submitted by APCPDCL, Operation Circle, Ongole for laying of 33KV DC 60 Angle and Dead-End Tower Type "M" (NT & +6M Body Extns.) & 33KV DC 60 Angle and Dead-End Tower Type "M" (NT & +9M Body Extns.) along NH-16 (Chilakaluripet to Nellore section) from Km.1285+915 to Km.1306+670 & crossing at Km.1306+670 (RHS to LHS) at Nellore District of Andhra Pradesh for a total length of 20821m.

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

Yours faithfully,

(R.K. Singh, IES),

CGM (Tech.) & Regional Officer

Encl: As above

**Copy to:**

- PD, PIU - Ongole
- Superintending Engineer, Operation Circle, APCPDCL



**National Highways Authority of India**  
(Ministry of Road Transport and Highways, Government of India)  
Project Implementation Unit, ONGOLE,  
Andhra Pradesh  
E-mail : [piuongole@nhai.org](mailto:piuongole@nhai.org), [nhaipiuongole@gmail.com](mailto:nhaipiuongole@gmail.com)



Lr. No. NHAI/PIU-ONGL/CN-16/2024-25/189

Dt.05.06.2024

To

**The Regional Officer,**  
National Highway Authority of India,  
D.No.41-29-45A, RS No.373/2a,  
Kondadaramalayam, Chalasani Nagar,  
Ranigarithota, Krishnalanka,  
Vijaywada-520013.

Sub: NHAI, PIU, Ongole - Six Laning of Chilakaluripet to Nellore section of NH-16 from Km.1182.802 to Km. 1366.547 (length 183.620) in the state of Andhra Pradesh - Permission for laying of 33KV DC 60 Angle and Dead-End Tower Type "M" (NT & +6M Body Extns.) & 33KV DC 60 Angle and Dead-End Tower Type "M" (NT & +9M Body Extns.) along NH-16 (Chilakaluripet to Nellore section) from Km 1285/915 to Km 1306/670 & crossing at Km 1306/670 (RHS to LHS) for a total length of 20821m at Nellore District of Andhra Pradesh- **Request for Provisional Permission -Reg.**

Ref: (i) Lr. No.Nil dated 07.05.2024 received from the Executive Engineer, APCPDCL, Operation Division, Kandukur, SPSR Nellore District  
(ii) T/o Lr. No.11011/19/Vol.1/NHAI/PIU-Ogl/CN-16/NOC/2024/162 dated 15.05.2024.  
(iii) IE letter No.AA/TL/CN/NH-16/PIU/2191/24-25/933 dated 24.05.2024  
(iv) Concessionaire Lr. No. SEL/O&M/NHAI/05/2024/5850 dated 25.05.2024.

\*\*\*\*\*

Sir,

It is to submit that M/s. Executive Engineer, Operation Division, Kandukur, ongole, A.P vide letter cited under reference (i) above requested for Grant of No Objection Certificate for laying of 33KV DC 60 Angle and Dead-End Tower Type "M" (NT & +6M Body Extns.) & 33KV DC 60 Angle and Dead-End Tower Type "M" (NT & +9M Body Extns.) along NH-16 (Chilakaluripet to Nellore section) from Km 1285/915 to Km 1306/670 & crossing at Km 1306/670 (RHS to LHS) for a total length of 20821m at Nellore District of Andhra Pradesh.

2. The proposal forwarded to IE M/s. Aarvee Associates Pvt Ltd., Singarayakonda and Concessionaire M/s Simhapuri Expressway Ltd., Tangutur letter cited (ii) for review and recommendation as per NHAI /MoRTH guidelines.

3. In this regard, IE vide letter cited (iii) above has submitted report along with detailed checklist and informed that the proposal submitted for approval of laying of 33KV D.C Utility line on NH land in order and is in accordance with MoRT&H Circulars dt.22.11.2016. and dated 17.04.2023.

4. The Concessionaire M/s Simhapuri Expressway Ltd., Tangutur vide letter cited (iv) above submitted report along with signed checklist.

5. The proposal submitted by M/s. Executive Engineer, Operation Division, Kandukuru, Ongole, A.P and report submitted by IE & Concessionaire has been examined and the following is submitted:

5.1 The subject from Km 1285+915 to Km 1306+670 & crossing at Km 1306+670 (RHS to LHS) for a total length of 20821m at Nellore District of Andhra Pradesh.

5.2 The proposal has been checked as per the checklist, drawings and other documents submitted by the applicant and all the items in the checklist are satisfying the guidelines of MoRT&H circular No.RW/NH- 33044/29/2015/S&R (R) dated 22.11.2016.

6. The applicant has submitted the following undertakings:

6.1 The owner will pay all the necessary fee for the use of National Highway land whenever the fee is demanded by the highway authorities in future.

6.2 The owner will make all the necessary alteration including complete removal or shifting of the approach roads at its own cost if so, required by Ministry, for the development of National Highway or in the interest of safety in this section.

6.3 The owner shall take all actions as prescribed in the Appendix I of the MORTH norms issued vide letter No. RW/NH- 33044/29/2015/S&R (R) dated 22.11.2016 to ensure conformity of these norms.

6.5 The text of license deed has been compared verbatim with the Ministry's format issued vide letter dated 22.11.2016 and is found to be correct.

6.6 That they will arrange the Bank Guarantee for Rs 72,225/- (Rupees Seventy-two thousand two hundred twenty-five rupees only) towards successful completion of access as per the prescribed norms/specification before final approval is obtained.

6.7 The applicant shall strictly lay the electrical line at the edge of the ROW i.e, in the utility corridor of the Project highway only.

6.8 The vertical & horizontal clearances in accordance to the IRC shall be maintained.

6.9 The pits excavated for the foundation works of the towers shall be filled up with suitable soil properly and compacted to density.

6.10 Debris/loose earth produced due to execution of pits shall be cleared at least 50m away from the edge of the ROW of the Project highway.

6.11 Applicant has to take care the safety and security of the already installed utilities such as project OFC cable, Telecom OFC cables, water pipeline etc. while executing works.

6.12 All required restoration, maintenance work subsequent to laying electrical lines shall be undertaken by the applicant at his own cost.

6.13 The damages to the project highway and its assets by the applicant any the same shall be restored/reimbursed by the applicant at their risk& cost.

6.14 It is observed that the proposed electrical line passing through habitation areas at service road locations, Irrigation Pond covering a length of 800 Rm, Forest area covering a length of 4.165Kms and Railways crossing at Km. 1305.500.

6.15 Hence, the applicant shall arrange all applicable permits and clearances including Forest clearance, for laying of electrical line in such locations at his own risk & cost as per norms of the concerned departments.

6.16 That they will carry out the necessary alterations including complete removal/shifting of approach roads at our own cost if so, required by Ministry for development of National Highway or in the interest of safety in this section.

6.17 That they are sole responsible to pay or restore in case of any damages occurred to National Highway and utility properties during the execution of works.

6.18 That they shall take all action as prescribed in Appendix II to ensure conformity of these norms. "Guidelines/Norms for grand of permission for construction of access to the proposed property, issued by Ministry of Road Transport & Highways letter circulars dated 22.11.2016. and dated 17.04.2023.

6.19 That they will pay rent and other charges for granting lease or license whenever charged by the Highway Administration as per the control of National Highways (Land & Traffic) Act, 2002.

7. The site inspection has been conducted on 01.06.2024 (detailed inspection report is attached) and it is recommended that the Provisional permission may be granted to the applicant since it is complying with all criteria as per MoRT&H circulars dated 22.11.2016. and dated 17.04.2023.

8. In view of the above, it is recommended that the approval for the provisional access permission may please be accorded for the proposed by the applicant for Permission for laying of 33KV DC 60 Angle and Dead-End Tower Type "M" (NT & +6M Body Extns.) & 33KV DC 60 Angle and Dead-End Tower Type "M" (NT & +9M Body Extns.) along NH-16 (Chilakaluripet to Nellore section) from Km 1285+915 to Km 1306+670 & crossing at Km 1306+670 (RHS to LHS) for a total length of 20821m at Nellore District of Andhra Pradesh from the Regional Officer, NHAI, RO, Vijayawada being the Highway Administrator as per MoRT&H Circular dt.22.11.2016.

Yours faithfully,

Encl: As above

  
(M. Vidyasagar)  
Project Director  
NHAI, PIU-Ongole 9/6/24

CERTIFICATE

1. Undersigned has examined the proposal of the applicant for laying of 33KV DC 60 Angle and Dead -End Tower Type "M" (NT & +6M Body Extns.) & 33KV DC 60 Angle and Dead -End Tower Type "M" (NT & +9M Body Extns.) along NH-16 (Chilakaluripeta to Nellore Section) from Km 1285/915 to Km 1306/670 & crossing at Km 1306/670 (RHS to LHS) for a total length of 20821m at Nellore District of Andhra Pradesh is conforming to the norms given in the MoRTH Circular No.RW/NH-33044/29/2015/S&R (R) dated 22.11.2016 and subsequent amendment dated 17.04.2023.
2. It will be ensured that supervision of the work of laying utility and the defects in road portion after laying of utility are corrected.
3. It will be notified to forfeit the BG for claims for damages done/disruption in working, if any.
4. It is to certify that upon of approval for the above proposal, the same will be entered in the Register of Records of the permission in the prescribed Proforma.



(M. Vidyasagar)  
Project Director  
NHAI, PIU-Ongole

5/6/24

(Byhand)

NHAI, PIU-Ongole (Inward)			
No.	1086	Date	27/5/24
M (T)	<input checked="" type="checkbox"/>	Acct	
DM (T)		DLO	
PA		LAO	
SE	<input checked="" type="checkbox"/>	YHE	

Letter no. AA/TL/CN/NH-16/PIU/2191/24-25/933  
Date: 24<sup>th</sup> May 2024

To  
The Project Director,  
Project Implementation Unit,  
National Highways Authority of India,  
Ongole, Andhra Pradesh.

**Sub:** Six laning of Chilakaluripet – Nellore section of NH-5 from Km 1182.802 to Km 1366.547 (length 183.620 km) in the State of Andhra Pradesh under NHDP Phase V to be executed as BOT (Toll) project on DBFOT pattern – **Permission for laying of 33KV DC 60° angle and dead end tower type "M" (N.T & +6M body Extns.) and 33KV DC 60° angle and dead end tower type "M" (N.T & +9M body Extns.) along NH-16 (Chilakaluripet to Nellore section) from Km.1285/915 to Km.1306/670 & crossing at Km.1306/670 (RHS to LHS) for a total length of 20821m at Nellore district of Andhra Pradesh – I.E report - Reg.**

**Ref :** 1. PD, NHAI's Lr. No. 11011/19/Vol.1/NHAI/PIU-Ogl/CN-16/NOC/2024-162 dated 15.05.2024  
2. Executive Engineer, Operation Division, APCPDL, Kandukuru's Lr. No Nil dated 07.05.2024

Dear Sir,

With reference to the above cited letter ref (1), we have been asked to examine and furnish a report on the proposal for laying 33 KV DC electrical utility line in the Project reach.

The applicant has proposed to lay 33 KV DC electrical utility line from Km.1285+915 to Km.1306+670 on RHS of the Project Highway and crossing at Km.1306+670 over type "M" (N.T+6m) & type "M" (N.T+9m) towers.

In this regard, the IE has inspected the site with the applicant's representatives. The proposal has been reviewed and found to be in order as per Guidelines for Accommodation of Public & Industrial Utility Services along and across National Highways, vide MoRTH circular nos. RW/NH-33044/29/2015/S&R(R) dated 22.11.2016 and NH-36094/01/2022-S&R (P&B) dated 17.04.2023 and as per the site conditions. Hence, we hereby recommend to grant Initial permission (NOC) subject to the following conditions:

- 1) The applicant shall strictly lay the electrical line at the edge of the ROW i.e. in the Utility corridor of the Project highway only.
- 2) The vertical & horizontal clearances in accordance to the IRC shall be maintained.
- 3) The pits excavated for the foundation works of the towers shall be filled up with the suitable soil properly and compacted to density.
- 4) Debris/loose earth produced due to execution of pits shall be cleared at least 50m away from the edge of the ROW of the Project highway.
- 5) All required restoration, maintenance work subsequent to laying electrical line shall be undertaken by the applicant at his own cost.
- 6) The applicant shall adhere to the proposed alignment and methodology.
- 7) Existing bridges and CD works shall not be used for laying the said electrical line.
- 8) Due care shall be taken not to damage the project facilities/furniture, avenue plantation etc.
- 9) Applicant has to take care the safety and security of the already installed utilities such as Project OFC cable, Telecom OFC cables, water pipelines etc. while executing the works.



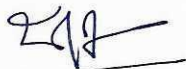
Project Office : C/o. NHAI Office, R&B Bungalow, Kandukur Road, Near Fish Market, Singarayakonda - 523101, Andhra Pradesh. Tel: 08598 - 237237/238238; e-mail ID: OM2191singarayakonda@aarvee.net

Head Office : Ravula Residency, Srinagar Colony Main Rd., Hyderabad - 500 082, India. CIN: U74200TG2005PTC045491  
Tel: +91-40-48483456, 23737633; Fax: +91-40-23736277; e-mail: aarvee@aarvee.net; web: www.aarvee.com

- 10) The damages to the Project Highway and its assets by the applicant, if any, the same shall be restored/reimbursed by the applicant at their risk & cost.
- 11) It is observed that the proposed electrical line has to be passing through habitation areas at service road locations, Irrigation pond covering a length of 800Rm, Forest area covering a length of 4.615Kms and Railway crossing at Km.1305.500.
- 12) Hence, the applicant shall arrange all applicable permits and clearances including **Forest clearance**, for laying of electrical line in such locations at his own risk & cost. The applicant shall also arrange for the shifting of existing utilities, if required, at his own cost as per the norms of the concerned departments.
- 13) Prior to the commencement of work, the applicant must take safety clearances from the respective Authorities such as Directorate of Electricity, Irrigation department, Railway department and Forest department.
- 14) The applicant should take necessary safety measures/precautions (like barricading, caution boards, danger lighting etc.) while executing the works within the Project highway.
- 15) The Labour Laws shall be followed.
- 16) As the project stretch is under Concession (BOT (Toll)) with the Concessionaire, M/s Simhapuri Expressway Limited from Km.1182+802 to Km.1366+547 of six laning of Chilakaluripet – Nellore section of NH-5, the applicant shall honor the Concessionaire, as per relevant provision of the Concession Agreement, while executing their works. With regard to the execution of works, prior intimation (15 days in advance) has to be given by the applicant to the Concessionaire and Independent Engineer / NHAI for safe execution of works.
- 17) The period of validity of ROW permission shall be co-terminus with the validity of license.
- 18) The work shall be carried out strictly in accordance with MoRTH guidelines issued vide MoRTH circular nos. RW/NH-33044/29/2015 /S&R (R) dated 22.11.2016, NH-36094/01/2022-S&R (P&B) dated 17.04.2023 and relevant NHAI circulars.
- 19) The applicant shall submit 3 copies of "As-laid drawings" of utilities (Hard & Soft copies) with Geo-tagged photographs & Geo-tagged videos to the Authority within a month of completion of works.

With best regards

For Aarvee Associates Architects Engineers & Consultants Pvt. Ltd.



24/05/2024  
B. Chandra Sekhar

Team Leader cum Highway Engineer  
Chilakaluripet-Nellore section, NH-16

Encl: Site Photographs & Checklist & Licence fee statement

Copy to:

1. Project In-charge, SEL, Tangutur -for information
2. The I.E. HO, Aarvee Associates – for information



33 KV DC electrical utility line from Km.1285+915 to Km.1306+670 RHS & crossing at Km.1306+670 - License Fee Calculations

As per amendments made to clause 5 & 5.1 of vide MoRTH Circular No.36094/01/2022-S&R (P&B) dated 17.04.2023 to MoRTH circular No. RW/NH-33044/29/2015/S&R(R) dated 23.11.2016, License fee has to be calculated as below

S. No	Name of the village	Location		Length of the foundation (Mts)	Width of the foundation (Mts)	Proposed land area (Sqgm)	Prevailing circle rate of land (Rs. per Acre)	Prevailing circle rate of land (Rs. per Sqgm)	License fee per annum (Rs) @ 1.5% per annum	Remarks
		From	To							
	(1)	(2)	(3)	(5)	(6)	(7) = (4)X(5)X(6)	(8)	(9)	(10) =(7)X(9)X1.5/ 100	
1.	Mannetikota	1285+915	1286+650	1.50	1.50	24.75	18,90,000	467.03	173.38	Open trench
	Ulavapadu	1286+650	1290+420	1.50	1.50	130.50	18,90,000	467.03	914.21	
	Rajupalem	1290+420	1293+800	1.50	1.50	117.00	32,00,000	790.74	1387.75	
	Chakicherla	1293+800	1295+490	1.50	1.50	58.50	7,70,000	190.27	166.96	
	Chagallu	1295+490	1297+440	1.50	1.50	67.50	19,00,000	469.50	475.37	
	Veerepalli	1297+440	1300+690	1.50	1.50	112.50	3,89,000	96.12	162.20	
	Mocherla	1300+690	1301+665	1.50	1.50	33.75	18,70,000	462.09	233.93	
	Tettu	1301+665	1303+095	1.50	1.50	49.50	7,70,000	190.27	141.28	
	Santhi nagar	1303+095	1305+370	1.50	1.50	78.75	7,70,000	190.27	224.76	
	Elurupadu	1305+370	1305+910	1.50	1.50	20.25	7,70,000	190.27	57.79	
	Chevuru	1305+910	1306+670	1.50	1.50	27.00	7,70,000	190.27	77.06	
	Chevuru	Crossing at	1306+670	1.50	1.50	2.25	7,70,000	190.27	6.42	



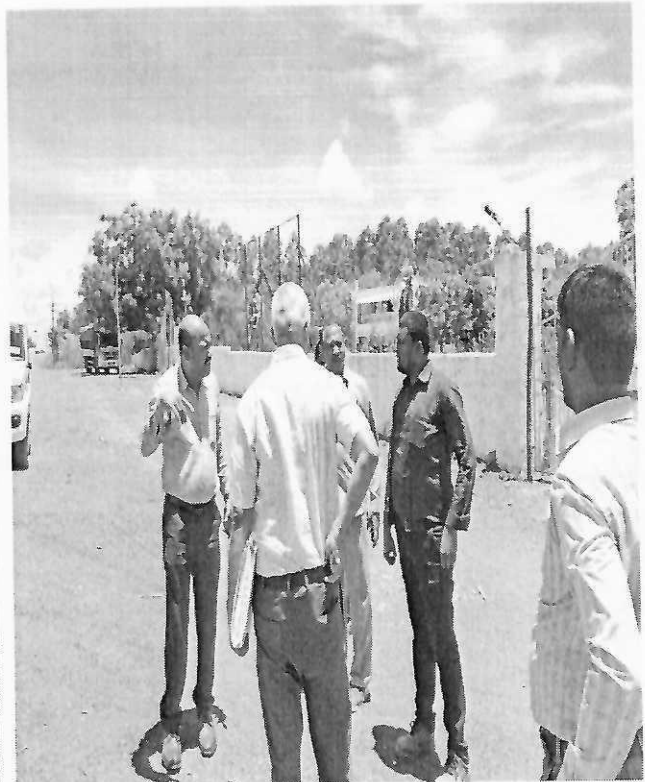
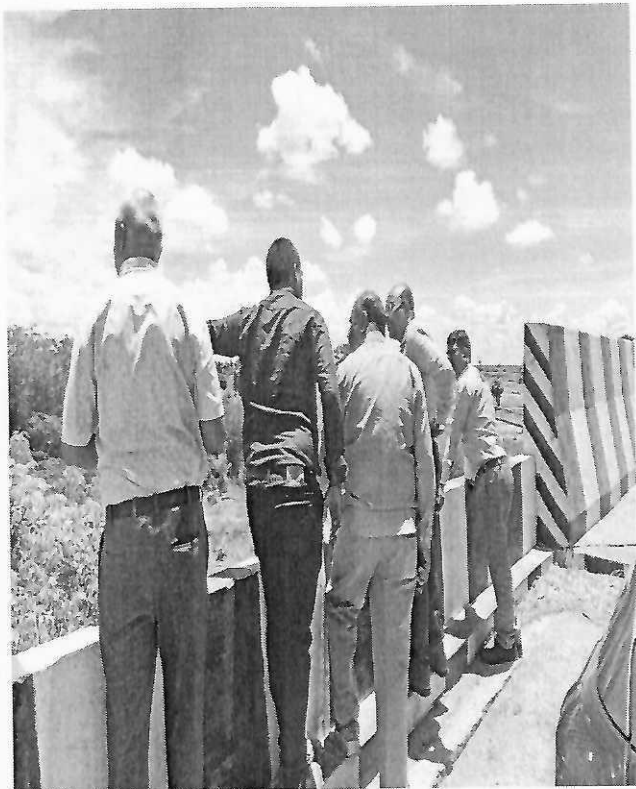
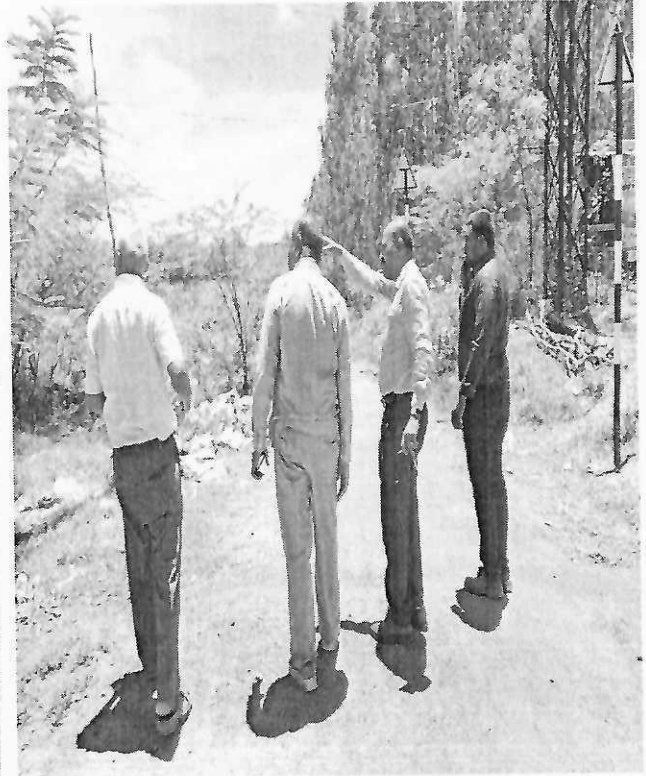
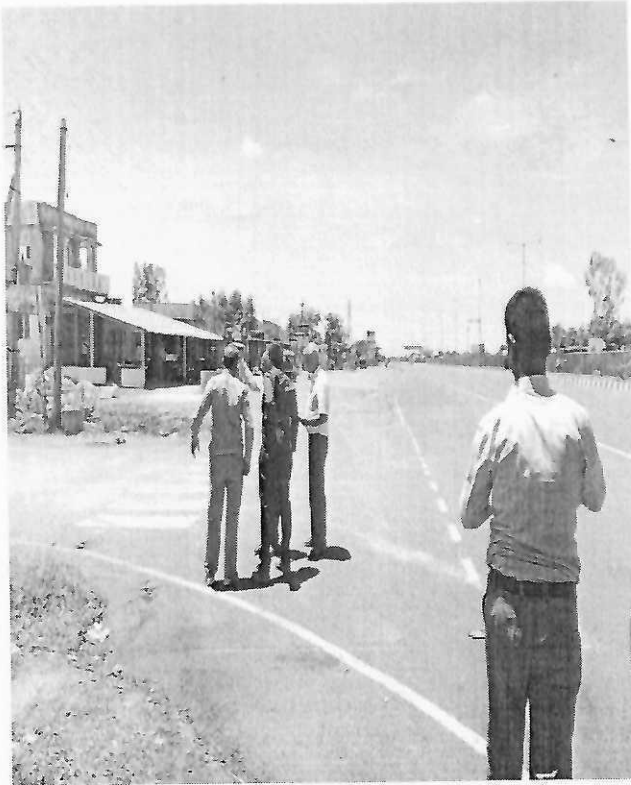
Total	4021.11
License fee for 1st year (Min. fee)	10,000.00
License fee for 2nd year (with 6% annual increment)	10,600.00
License fee for 3rd year (with 12% annual increment)	11,236.00
License fee for 4th year (with 18% annual increment)	11,910.16
License fee for 5th year (with 24% annual increment)	12,624.77
License fee for total term of license (Up to 5 years)	56,370.93

The Performance Bank Guarantee calculations;

S. No	Chainage (In KM)			Area of foundations (Sqm)	Rate per meter (Rs)	Performance Bank Guarantee (Rs)	Remarks
	From	To	Side				
1.	1285+915	1306+670	RHS	720	100	72,000.00	
2.	Crossings at	1306+670		2.25	100	225.00	
					Total	72,225.00	



Site Photographs



S.No.	Item	Informant's submission / Status (Applicant's submission)	Remarks	IE's observations
1.	General Information	Permission for laying of 33KV DC 60° angle and dead end tower type "M" (N.T & +6M body Extns.) and 33KV DC 60° angle and dead end tower type "M" (N.T & +9M body Extns.) along NH-16 (Chilakaluripet to Nellore section) from Km.1285/915 to Km.1306/670 & crossing at Km.1306/670 (RHS to LHS) i.e. total length of 20755.0M +66.0M = 20821.0M at Nellore district, Andhra Pradesh state		---
1.1	Name and Address of the Applicant/ Agency	<b>Executive Engineer,</b> Operation Division, Kandukururu, Ongole, A.P-523105		---
1.2	National Highway Number	NH-16		NH-16
1.3	State	Andhra Pradesh		Andhra Pradesh
1.4	Location	Chevuru, Elurupadu, Shanti nagar, Tettu, Mocherla, Veerapalli, Chagallu, Chakicherla, Rajupalem, Ulavapadu, & Mannetikota Villages, SPSR Nellore District, Andhra Pradesh state.		Chevuru, Elurupadu, Shanti nagar, Tettu, Mocherla, Veerapalli, Chagallu, Chakicherla, Rajupalem, Ulavapadu, & Mannetikota Villages of SPSR Nellore District, Andhra Pradesh state.
1.5	(Chainage in Km)	Km.1285/915 to to Km.1306/670 and crossing at Km.1306/670		Km.1285+915 to Km.1306+670 and crossing at Km.1306+670
1.6	Length in Meters	20755.0 + 66.0 = 20821.0M		20821m (20755m + 66m (Road Crossing))
1.7	Width of available ROW (a) Left side from center line towards increasing chainage/Km direction (b) Right side from center line towards increasing chainage/Km direction	Varying from 25.80M to 33.0M  Varying from 25.80M to 33.0M		Varies from 25.80m to 33.0m  Varies from 25.80m to 33.0m
1.8	Proposal to lay the Utility (a) Left side from center line	---		---



	towards increasing chainage/Km direction					
	(b) Right side from center line towards increasing chainage/Km direction	Yes, as per Drawings attached				Km.1285+915 to Km.1306+670 and crossing at Km.1306+670
1.9	Proposal to acquire land	Right to use the NH ROW is required for laying the Electrical poles along the NH ROW as per circular				
	(a) Left side from center line	NA				NA
	(b) Right side from center line	NA				NA
1.10	Whether proposal is in the same side where land is not to be acquired	Yes				Yes
	If not then where to lay the cable	NA				NA
1.11	Details of already laid services, if any, along the proposed route	Airtel, BSNL & Reliance JIO				OFC cables of various agencies
1.12	Number of existing lanes (2/4/6/8 lanes)	6 Lanes				6 lanes
1.13	Proposed Number of lanes (2 lane with paved shoulders/4/6/8 lanes)	NA				NA
1.14	Service road existing or not	YES (as shown in the drawing)				YES (as shown in the strip plan)
	If yes then which side	Both sides				Both sides
	(a) Left side from center line	Both sides				Both sides
	(b) Right side from Center line	NO				
1.15	Proposed Service road	NA				NA
	(a) Left side from center line	NA				NA
	(b) Right side from center line	NA				NA
1.16	Whether proposal to lay utility is after the service road or between the service road and main carriage way	After service road As shown in the drawing				After service road
1.17	Whether carrying of Electrical poles line has been proposed on highway Bridges. If Yes, then mention the methodology proposed for the same	No				No
1.18	Whether carrying of Electrical	No				No



	poles line has been proposed on parapet/any part of the bridges. If Yes, the mention the methodology proposed for the same				
1.19	If crossings of the road involved If Yes, it shall be either encased in pipes or through structure or conduits specially built for that purpose at the expenses of the agency owning the line. a) Whether existing drainage structure allowed carrying utility electrical line. b) Is it on a line normal to NH	Yes Through overhead lines  No	Yes, at Km.1306+670 (by overhead lines)  No		
	c) What is the distance of crossing the utility electrical poles line from the existing structures. Crossings shall not be too near the existing structures on the National Highway, the minimum distance being 15 meter.	Yes Km.1285/915 to Km.1306/670 (RHS) & crossing at Km.1306/670 on NH-16 of Chilakaluripet to Nellore district section	Yes		
	d) The casing pipe (or conduit pipe in the case of electric cable) carrying the utility line shall be of steel, cast iron, or reinforced cement concrete and have adequate strength and be large enough to permit ready withdrawal of the carrier pipe / cable. Mention type of casing.	No structures available	More than 15m		
	e) Ends of the casing / conduit pipe shall be sealed from the outside, so that it does not act as	NA	NA		
		NA	NA		



	a drainage path.				
	f) The casing / conduit pipe should, as minimum extend from drain to drain in cuts and toe of slope in the fills.	NA			NA
	g) The top of the casing/conduit pipe should be at least 1.2 meter below the surface of the road subject to being at least 0.3 m below the drain inverts.	NA			NA
	h) Mention the methodology proposed for crossing of road for the proposed ELECTRICAL POLES LINE. Crossing shall be by boring method (HDD) (Trenchless Technology), especially where the existing road pavement is of cement concrete or dense bituminous concrete type.	NA			By overhead lines
	i) The casing / Conduit pipe shall be installed with an even bearing throughout its length and in such a manner as to prevent the formation of a waterway along it.	NA			NA
2	Document / drawing enclosed with the proposal	Yes, Enclosed			Enclosed
2.1	Cross section showing the size of the trench for open trenching method. (Is it normal size of 1.2m deepX0.3 wide)				
	i) Should not be greater than 60 cm wider than the outer diameter of the pipe.	NA			NA
	ii) Located as close to the extreme edge of the right-of-way as possible but not less than 15	NA			



	meter from the centre-line 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 these be laid over the existing culverts and bridges. iv) These should be so laid that their top is at least 0.6 meter below the ground level so as not to obstruct drainage the road land.	NA  NA			
2.2	Cross section showing the size of pit and location of line for HDD method.	Cross section showing the tower foundation details enclosed and HDD method where as critical for foundation			Enclosed
2.3	Strip plan / Route plan showing the Electrical pole line. chainage, width of ROW, distance of proposed, Electrical line from the edge of ROW, important mile stone, intersections, cross drawings work etc.	Enclosed			Enclosed
2.4	Methodology for laying of the utility Electrical line	Methodology for laying of overhead electrical lines is enclosed			Enclosed
2.4.1	Open trenching method. (May be allowed in utility corridor only where pavement is neither cement concrete nor dense bituminous concrete type.) If yes, methodology of refilling of trench.	---			NA
	(a) The trench width should be at least 30 cm but not more than 60cm wider than the outer diameter of the pipe.	NA			NA
	(b) For filling of the trench,	NA			NA





	bedding shall be to a depth of 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 edged should be excavated and replaced by replaced by selected material			
	(c) The backfill shall be completed in two stages (1) side-fill to the level of the top of the pipe and (ii) overfill to the bottom of the road crust.	NA		NA
	d) The side fill shall consist of granular material 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 been removed. Consolidation by saturation or ponding will not be permitted.	NA		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		NA
	f) The excavation shall be protected by flagman, signs and barricades and red lights during night hours.	NA		NA
	g) If required, a diversion shall be constructed at the expense of agency owning the utility line	NA		NA



2.4.2	Horizontal Directional Drilling (HDD) method.	NA	NA	NA
2.4.3	Methodology for laying of Electrical line through CD works and method of Laying. In cases where the carrying of Electrical line on the bridge becomes inescapable.	NA	NA	NA
3	Draft License agreement signed by two witnesses.	Yes	Enclosed	Yes
3.1	The License fee estimate as per Ministry's guidelines issued vide circular No. RW/NH-33044/29/2015/S&R (R) dated 22.11.2016	Enclosed	Undertaking enclosed	Enclosed
4	Whether Performance Bank Guarantee as Ministry's guidelines issued vide circular No. RW/NH-33044/29/2015/S&R (R) dated 22.11.2016 is obtained.	Enclosed	Undertaking enclosed	An undertaking enclosed for furnishing for Rs.72,225/- as performance bank guarantee as per MORTH guidelines.
4.1	Confirmation of BG has been obtained or not as per MoRTH/NHAI guidelines.	Yes		To be obtained.
5	Affidavit / undertaking from the Applicant for the following is to be furnished	Yes, enclosed		
5.1	Undertaking for not to damage any other utility. If damaged, then to pay the losses either to NHAI or to the concerned agency.	Yes, enclosed		Enclosed
5.2	Undertaking for Renewal of Bank Guarantee as and when asked by MoRTH/NHAI.	Yes, Undertaking enclosed		Enclosed
5.3	Undertaking for Confirming all standard conditions of Ministry Circulars and NHAI's guideline	Yes, enclosed		Enclosed
5.4	Undertaking for Indemnity against all damages and claims.	Yes, enclosed		Enclosed



5.5	Undertaking for management of traffic movement during laying of electrical pole line without hampering the traffic.	Yes, enclosed	Enclosed
5.6	Undertaking that if any claim is raised by the concessionaire/contractor then the same has to be paid by the applicant.	Yes, enclosed	Enclosed
5.7	Undertaking that prior approval of the NHAI shall be obtained before undertaking any work of the installation, shifting or repairs or alterations to the utility located in the National Highway right of ways.	Yes, enclosed	Enclosed
5.8	Undertaking that expenditure, if any, incurred by NHAI for repairing any damage caused to the National Highway by the laying, maintenance or shifting of the utility line will be borne by the applicant agency owning the line.	Yes, enclosed	Enclosed
5.9	Undertaking that 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 (R) dated 22.11.2016.	Yes, enclosed	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	Yes, enclosed	Enclosed



	statutory clearance's applicable. before applying to Highway Administration.			
5.11	If the MoRTH/NHAI considers it 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 MoRTH/NHAI at the cost of the agency owning the utility line within a reasonable time (not exceeding 60 days) of the intimation given.	Yes, enclosed		Enclosed
5.12	Certificate from the applicant in the following format i) Laying of electrical line will not have any deleterious effects on any of the bridge components and roadway safety for traffic. ii) for 6 laning "we do undertake that I will relocate services road / approach road / utilities at my own cost notwithstanding the permission granted within such time as will be stipulated by NHAI for future six laning or any other development."	Yes, enclosed		Enclosed
6	Who will sign the agreement on behalf of laying of 33KV DC Utility line agency	Executive Engineer, Operation Division, Kandukurru, Ongole, A.P-523105		---
7	Power of Attorney to sign the agreement is available or not The Project Director, will submit the following Certificates.	Available, enclosed		Enclosed
7.1	Certificate for confirming of all standard condition issued vide Ministry Circular No.NH-41 (58)/68 dated 31.01.1969, Ministry Circular	PD, PIU-Ongole		---



	No. RW/NH-33044/29/2015/S&R (R) dated 22.11.2016.			
7.2	<p>Certificate from PD in the following format</p> <p>(i) "It is certified that any other location of the electrical line would be extremely difficult and unreasonable costly and the installation of electrical line within ROW will not adversely affect the design, stability &amp; traffic safety of the highway nor the likely future improvement such as widening of the carriageway, easing of Curve etc".</p>	PD, PIU-Ongole	---	
	<p>(ii) for 6-lanning</p> <p>(a) Where feasibility is available "I do certify that there will be no hindrance to proposed six-lanning based on the feasibility report considering proposed structures at the said location".</p> <p>(b) In case feasibility report is not available "I do certify that sufficient ROW is available at site for accommodation proposed six-lanning".</p>	PD, PIU-Ongole	---	
	<p>If NH section proposed to be taken up by NHAI on BOT basis a clause in para 9 to be inserted in the agreement. "The permitted Highway on which license has been granted as a right to lay electrical line has also been granted as a right of the way to be concessionaire under the concession agreement for up-gradation of (Chilakaluripet to Nellore section of NH-16 on build,</p>	Standard license deed as per Ministry Guidelines issued vide letter No. RW/NH-33044/29/2015/S&R (R), Dt. 22.11.2016		Clause inserted





	operate and transfer basis) and therefore, the license shall honor the same".				
8.	Who will supervise the work of laying of electrical poles line				
	(a) On behalf of the Applicant	Executive Engineer, Operation Division, Kandukuru, Ongole, A.P-523105		Executive Engineer, Operation Division, Kandukuru, Ongole, A.P-523105	
	(b) On behalf of NHAI	NHAI / IE		NHAI / Independent Engineer	
9.	Who will ensure that the defects in road portion after laying of over Head electrical line are corrected and if not corrected then what action will be taken.				
	(a) On behalf of the Applicant	Executive Engineer, Operation Division, Kandukuru, Ongole, A.P-523105		Executive Engineer, Operation Division, Kandukuru, Ongole, A.P-523105	
	(b) On behalf of NHAI	NHAI / IE		PD, NHAI, Ongole	
11	Who will pay the claims for damages done / disruption in working of concessionaire if asked by the concessionaire				
	On behalf of the Applicant	Executive Engineer, Operation Division, Kandukuru, Ongole, A.P-523105		Executive Engineer, Operation Division, Kandukuru, Ongole, A.P-523105	
12	A certificate from Project Director that he will enter the proposed permission in the register of records of the permission in the prescribed proforma (copy enclosed).	Enclosed		Draft enclosed	
13	If any previous approval is accorded for laying of electrical poles, then photocopy of register of records of permissions accorded as maintained by Project Director may be enclosed.	No		---	

# SIMHAPURI EXPRESSWAY LTD.

A Portfolio Company of Interise Trust

Ref: SEL/O&M/NHAI/05/2024/5850

To,  
Project Director,  
National Highways Authority of India,  
Ongole, Andhra Pradesh  
Pin – 523001  
Email: nhaipiuongole@gmail.com

Date: 25<sup>th</sup> May 2024 *Canter*

NHAI, PIU-Ongole (Inward)			
No.	1106	Date	28/5/24
M (T)	<input checked="" type="checkbox"/>	Acct	
DM (T)		DLO	
PA		LAO	
SE	<input checked="" type="checkbox"/>	YHE	

Kind Attn: Shri.M. Vidya Sagar, Project Director, NHAI, PIU-Ongole

**Sub:** Six Laning of Chilakaluripet – Nellore Section of NH-16 from Km 1182.802 to 1366.547 (Length – 183.620) in the State of Andhra Pradesh under NHDP Phase V to be executed as BOT (Toll) Project on DBFOT Pattern- **Permission for laying of 33KV DC 60 angle and dead-end tower type "M" (NT & 6M Body extns.) & 33KV DC 60A angle and Dead-end tower type "M" (NT & +9M Body Extns.) along NH-16 (Chilakaluripet to Nellore section) from Km 1285/915 to Km 1306/670 & crossing at Km 1306/670 (RHS to LHS) for total length of 20821 m at Nellore District of Andhra Pradesh- Report-Reg**

**Ref:** 1. PD, NHAI's Lr.No11011/19/NOC/NHAI/PIU/Ongole/CN-16/2024-162 dated 15.05.2024

2. From the Executive Engineer, APCPDCL, Operation Division, Kandukur, SPSR Nellore District received Lr no. Nil dated 07.05. 2024.

Dear Sir,

With reference to the above cited letter ref (1), where in it was requested to examine the proposal submitted by Executive Engineer, Construction Division, APCPDCL, Kandukur seeking permission for laying of 33KV D.C 60 Angle and Dead End Tower Type "M" (N.T +6M Body Extns) & 33 KV D.C 60 Angle Dead End Tower type "M" (N.T +9M Body Extns) along the NH-16, the following locations are inspected:

1. KM.1285.915 to KM.1306.670

In this regard would like to submit the observations here under:

The existing project assets at the proposed work locations are as below:

S. No.	Name of the Item	UOM	Quantity	Remarks
1	OFC Cable	Km.	18.3	Details enclosed
2	Chain Link Fencing	Mts.	9020	
3	Avenue Tress (07 years old)	No's	179	
4	Street light poles	No's	30	Single Arm

Tangutur Toll Plaza, KM 1264, National Highway - 16, Tangutur (M), Prakasam Dist, Andhra Pradesh 523274

Registered Office: Door No. 1-80/40/SP/58-65, Shilpa Homes Layout, Gachibowli, Hyderabad, Telangana - 500032.

CIN : U45203TG2010PLC068791 • Tel: +91 44 4398 6000 • E-mail: sel.ph@interiseroads.com • Website: www.interiseworld.com

- 13) As per CEA regulation where an overhead line cross is in proximity to another overhead line, guarding arrangement shall be provided to safeguard against the possibility of their coming into contact with each other. In such case minimum clearance shall be followed.
- 14) Guarding Arrangement shall be provided where a line cross a Road.
- 15) Prior to the commencement of work, the applicant must take safety clearance from the respective authorities such as directorate of electricity, Irrigation department, Railway department and forest department.

Thanking you and always assuring you of our best services.

Yours faithfully,  
For **Simhapuri Expressway Limited**



**K. Siva Kumar**  
Project Head  
Simhapuri Expressway Limited

CC: 1. Shri. B. Chandra Shekar, Team Leader, Aarvee Associates, Singarayakonda -  
For information



## SIMHAPURI EXPRESSWAY LIMITED

## OFC OFFSET DETAILS

## Annexure-I

S.NO	FROM CHAINAGE	TO CHAINAGE	LENGTH	OFC-DUCT LAID DEPTH IN MTRS	OFC route Offset from median	Direction	Remarks
4	1285.900	1286.000	100.000	1.65	30.000	RHS	
5	1286.000	1286.100	100.000	1.65	33.000	RHS	
6	1286.450	1286.500	50.000	2.65	34.400	RHS	
7	1286.500	1286.600	100.000	1.65	34.500	RHS	
8	1286.600	1286.700	100.000	1.65	34.500	RHS	
9	1286.700	1286.800	100.000	1.65	32.400	RHS	
10	1286.800	1286.900	100.000	1.65	32.000	RHS	
11	1286.900	1287.000	100.000	1.65	33.000	RHS	
12	1287.000	1287.100	100.000	1.65	25.200	RHS	
13	1287.100	1287.200	100.000	1.65	28.800	RHS	
14	1287.200	1287.300	100.000	1.65	28.300	RHS	
15	1287.300	1287.400	100.000	1.65	30.000	RHS	
16	1287.300	1287.500	200.000	1.65	32.000	RHS	
17	1287.500	1287.600	100.000	1.65	36.000	RHS	
18	1287.600	1287.700	100.000	1.65	35.000	RHS	
19	1287.700	1287.800	100.000	1.65	35.000	RHS	
20	1287.800	1287.900	100.000	1.65	33.000	RHS	
21	1287.900	1288.000	100.000	1.65	34.600	RHS	
22	1288.000	1288.100	100.000	1.65	33.500	RHS	
23	1288.100	1288.200	100.000	1.65	42.500	RHS	
24	1288.200	1288.300	100.000	1.65	32.500	RHS	
25	1288.300	1288.400	100.000	1.65	32.800	RHS	
26	1288.400	1288.500	100.000	1.65	30.800	RHS	
27	1288.500	1288.600	100.000	1.65	28.200	RHS	
28	1288.600	1288.700	100.000	1.65	26.800	RHS	
29	1288.700	1288.800	100.000	1.65	32.600	RHS	
30	1288.800	1288.900	100.000	1.65	32.25.2	RHS	
31	1288.900	1289.000	100.000	1.65	24.000	RHS	
32	1289.000	1289.100	100.000	1.65	25.500	RHS	
33	1289.100	1289.200	100.000	1.65	26.000	RHS	
34	1289.200	1289.300	100.000	1.65	25.500	RHS	
35	1289.300	1289.400	100.000	1.65	25.300	RHS	
36	1289.480	1289.600	120.000	1.65	25.800	RHS	
37	1289.600	1289.700	100.000	1.65	24.400	RHS	
38	1289.700	1289.800	100.000	1.65	24.500	RHS	
39	1289.800	1289.900	100.000	1.65	28.500	RHS	
40	1289.900	1290.000	100.000	1.65	28.000	RHS	
41	1290.000	1290.100	100.000	1.65	24.300	RHS	
42	1290.100	1290.200	100.000	1.65	27.200	RHS	
43	1290.200	1290.300	100.000	1.65	25.800	RHS	
44	1290.300	1290.400	100.000	1.65	27.900	RHS	
45	1290.400	1290.500	100.000	1.65	29.000	RHS	
46	1290.500	1290.600	100.000	1.65	30.500	RHS	
47	1290.600	1290.700	100.000	1.65	28.500	RHS	
48	1290.700	1290.800	100.000	1.65	24.600	RHS	
49	1290.800	1290.900	100.000	1.65	29.300	RHS	
50	1290.900	1291.000	100.000	1.65	39.000	RHS	
51	1291.000	1291.100	100.000	1.65	27.800	RHS	
52	1291.100	1291.200	100.000	1.65	26.200	RHS	
53	1291.200	1291.300	100.000	1.65	26.300	RHS	
54	1291.300	1291.400	100.000	1.65	25.200	RHS	
55	1291.400	1291.500	100.000	1.65	29.300	RHS	
56	1291.500	1291.620	120.000	1.65	25.000	RHS	
57	1291.630	1291.700	70.000	1.65	24.300	RHS	
58	1291.700	1291.800	100.000	1.65	28.000	RHS	
59	1291.800	1291.900	100.000	1.65	24.300	RHS	
60	1291.900	1292.000	100.000	1.65	21.300	RHS	
61	1292.000	1292.100	100.000	1.65	20.300	RHS	
62	1292.100	1292.200	100.000	1.65	24.500	RHS	
63	1292.200	1292.300	100.000	1.65	26.200	RHS	
64	1292.300	1292.400	100.000	1.65	26.500	RHS	
65	1292.400	1292.500	100.000	1.65	26.700	RHS	
66	1292.500	1292.600	100.000	1.65	24.000	RHS	
67	1292.600	1292.700	100.000	1.65	22.500	RHS	
68	1292.700	1292.800	100.000	1.65	22.000	RHS	
69	1292.800	1292.900	100.000	1.65	17.500	RHS	
70	1292.900	1293.000	100.000	1.65	18.000	RHS	
71	1293.000	1293.100	100.000	1.65	18.500	RHS	



## SIMHAPURI EXPRESSWAY LIMITED

## OFC OFFSET DETAILS

## Annexure-I

S.NO	FROM CHAINAGE	TO CHAINAGE	LENGTH	OFC-DUCT LAID DEPTH IN MTRS	OFC route Offset from median	Direction	Remarks
136	1300.100	1300.200	100.000	1.65	28.900	RHS	
137	1300.200	1300.300	100.000	1.65	28.900	RHS	
138	1300.300	1300.400	100.000	1.65	27.800	RHS	
139	1300.400	1300.500	100.000	1.65	27.500	RHS	
140	1300.500	1300.600	100.000	1.65	27.400	RHS	
141	1300.600	1300.700	100.000	1.65	26.500	RHS	
142	1300.700	1300.800	100.000	1.65	27.000	RHS	
143	1300.800	1300.900	100.000	1.65	27.500	RHS	
144	1300.900	1301.000	100.000	1.65	27.500	RHS	
145	1302.165	1302.250	85.000	1.65	25.500	RHS	
146	1302.250	1302.300	50.000	1.65	25.500	RHS	
147	1302.300	1302.400	100.000	1.65	19.200	RHS	
148	1302.400	1302.500	100.000	1.65	21.000	RHS	
149	1302.500	1302.600	100.000	1.65	21.500	RHS	
150	1302.600	1302.700	100.000	1.65	22.000	RHS	
151	1302.700	1302.800	100.000	1.65	20.500	RHS	
152	1302.800	1302.900	100.000	1.65	20.500	RHS	
153	1302.900	1303.000	100.000	1.65	20.800	RHS	
154	1303.000	1303.100	100.000	1.65	19.400	RHS	
155	1303.100	1303.200	100.000	1.65	19.800	RHS	
156	1303.200	1303.300	100.000	1.65	19.700	RHS	
157	1303.300	1303.400	100.000	1.65	18.600	RHS	
158	1303.400	1303.500	100.000	1.65	18.700	RHS	
159	1303.500	1303.600	100.000	1.65	18.000	RHS	
160	1303.600	1303.700	100.000	1.65	18.000	RHS	
161	1303.700	1303.800	100.000	1.65	18.800	RHS	
162	1303.800	1303.900	100.000	1.65	19.300	RHS	
163	1303.900	1304.000	100.000	1.65	19.000	RHS	
164	1304.000	1304.100	100.000	1.65	24.3	RHS	
165	1304.100	1304.200	100.000	1.65	25.6	RHS	
166	1304.200	1304.300	40	1.65	27.2	RHS	
167	1304.300	1304.400	100	1.65	28	RHS	
168	1304.400	1304.500	80	1.65	30	RHS	
169	1304.500	1304.600	60	1.65	29.8	RHS	
170	1304.600	1304.700	100	1.65	30.2	RHS	
171	1304.700	1304.800	100	1.65	31.5	RHS	
172	1304.800	1304.900	100	1.65	32.8	RHS	
173	1304.900	1305.000	100	1.65	31.5	RHS	
174	1305.000	1305.100	80	1.65	31.5	RHS	
175	1305.100	1305.200	80	1.65	32.2	RHS	
176	1305.200	1305.300	100	1.65	31.5	RHS	
177	1305.300	1305.400	100	1.65	32	RHS	
178	1305.400	1305.460	100	1.65	32	RHS	
179	1305.620	1305.700	100	1.65	34.2	RHS	
180	1305.700	1305.800	100	1.65	33.5	RHS	
181	1305.800	1305.900	100	1.65	33.2	RHS	
182	1305.900	1306	100	1.65	30	RHS	
183	1306.000	1306.100	100	1.65	33.5	RHS	
184	1306.100	1306.200	100	1.65	31.4	RHS	
185	1306.200	1306.300	100	1.65	32	RHS	
186	1306.300	1306.400	100	1.65	32.6	RHS	
187	1306.400	1306.500	100	1.65	28.6	RHS	
188	1306.500	1306.600	100	1.65	24.6	RHS	
189	1306.600	1306.700	100	1.65	19.7	RHS	

