



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)

National Highways Authority of India

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

क्षेत्रीय कार्यालय, ओडिशा / Regional Office, Odisha

३०१-ए, तीसरी मंजिल, पाल हाईट्स, प्लाट नं जे/७, जयदेव विहार, भुवनेश्वर-७५१०१३, ओडिशा
301-A, 3rd Floor, Pal Heights, Plot No : J7, Jayadev Vihar, Bhubaneswar-751013, Odisha

दूरभाष / Ph.: 0674- 2361470/670

ई-मेल/ e-mail: roodisha@nhai.org, ronhaiodisha@gmail.com, वेबसाइट / Web : www : www.ahai.gov.in



NHAI/13011/54/RO/OD/ 166 /2026

23.01.2026

To

The Sr. Technical Director,
NIC Centre at MoRTH,
Transport Bhawan,
New Delhi 110001

Sub: Pallahara Pitiri section of NH-149: Proposal for permission of crossing of 11 KV electrical power cable at Km. 62.330 at Kualo-Basulie, District Dhenkanal Distt-Dhenkanal, in the state of Odisha - Reg.

Ref: PD, PIU - Dhenkanal vide letter no. 2257 dated 22.12.2025

Sir,

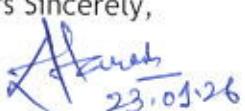
Please find enclosed herewith proposal of M/s TPCODL for crossing of 11 KV electrical power cable at Km. 62.330 Kualo-Basulie, District Dhenkanal Distt-Dhenkanal, in the state of Odisha. The details are as under:

Sr. No.	Chainages	Along/ across	Dia (Casing/ electrical cable) in mm	Remarks			
1	Km. 62.330	Across	160mm/ 40mm	Through overhead	HDD line	only. will	No be permitted.

2. Accordingly, as per guidelines issued by MoRTH vide F. No. RW/NH-33044/29/2015/S&R(R) dt. 22.11.2016, the application along with the recommendations of concerned PD/Consultants are enclosed herewith with request to hoist the same in the Ministry's Website for public comments within 30 days of uploading on the website.

This is issued with the approval of Regional Officer, Odisha.

Yours Sincerely,


23.01.26
(Abinash Behera)
Manager (Tech)



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

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301-A, 3rd Floor, Pal Heights, Plot No : J7, Jayadev Vihar, Bhubaneswar-751013, Odisha

हरभाष / Ph.: ०६७४- २३६१४७०/६७०

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NHAI/13011/54/RO/OD/ 166 /2026

23.01.2026

INVITATION OF PUBLIC COMMENTS

Sub: Pallahara Pitiri section of NH-149: Proposal for permission of crossing of 11 KV electrical power cable at Km. 62.330 at Kualo-Basulie, District Dhenkanal Distt-Dhenkanal, in the state of Odisha - Reg.

Applicant, M/s TPCODL has submitted the proposal for crossing of 11 KV electrical power cable at Km. 62.330 Kualo-Basulie, District Dhenkanal Distt-Dhenkanal, in the state of Odisha. The details are as under:

Sr. no.	Chainages	Along/ across	Dia (Casing/ electrical cable) in mm	Remarks
1	Km. 62.330	Across	160mm/ 40mm	Through HDD only. No overhead line will be permitted.

2. As per guidelines issued by MoRT&H vide F. No. RW/NH-33044/29/2015/S&R(R) dated 22.11.2016, the Highway Administration will put out the application in the public domain for 30 days for seeking claims and objections on grounds of public inconvenience, safety and general public interest.

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

The Regional Officer,
National Highways Authority of India,
Regional Office, Odisha
301-A, 3rd Floor, Pal Heights,
J/7, Jayadev Vihar, Bhubaneswar 751013, Odisha
e-mail: roodisha@nhai.org

This is issued with the approval of RO, Odisha.

23.01.26

Manager (Tech)
National Highways Authority of India,
Regional Office, Odisha
301-A, 3rd Floor, Pal Heights,
J/7, Jayadev Vihar, Bhubaneswar 751013



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)

National Highways Authority of India

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



सत्यमेव जयते

परियोजना क्रियान्वयन इकाई - डेंकानाल /Project Implementation Unit - Dhenkanal
प्लॉट नं-1768, कलिंग आंखो के अस्पताल के समीप, दक्षिणकाली मार्ग, डेंकानाल -759001, (ओडिशा)

Plot No. : 1768, Near Kalinga Eye Hospital, Dakkhinkali Road, Dhenkanal-759001 (Odisha)

दुरभाष / Ph. : 06762 - 796579 (का / O)

ई-मेल / E-mail : piudhenkanal@nhai.org, nhaidhenkanal@gmail.com

No. 20010/134/Kualo/Basulei/NH-149/2025/ २२५७

Date: 22.12.2025

Regional Officer,
National Highways Authority of India.
RO office, Odisha. 301-A, 3rd Floor,
Pal Heights, J/7, Jaydev Vihar,
Bhubaneswar-751013

Sub: Rehabilitation and Upgradation of NH-149 from Km.0.000 to Km.68.280 (Pallahara to Pitiri section) to 2-lanes with paved shoulders under NHDP-IV in the state of Odisha on EPC Mode:- Proposal of permission for laying of 11 KV Electrical Power Cable Chainage at Km.62+330 with one UG Cable crossing at Ch. Km. 62.330 on NH-149 at Kualo-Basulei, District- Dhenkanal, State - Odisha.- Grant of NOC.-Reg.

Ref: (i) TPCODL letter no. 6915 dated 17.10.2025
(ii) This office letter no. 1917 dated 03.11.2025
(iii) AE letter no. 516 dated 11.12.2025

Sir,

In reference to subject matter, M/s. TPCODL vide letter no. 6915 dated 17.10.2025 has submitted proposal of permission for laying of 11 KV Electrical Power Cable Chainage at Km.62+330 with one UG Cable crossing at Ch. Km. 62.330 on NH-149 at Kualo-Basulei, District- Dhenkanal, State - Odisha. - Grant of NOC.

Further, this office vide letter no. 1917 dated 03.11.2025 has requested AE to examine the proposal w.r.t. MoRTH guidelines dated 22.11.2016 & subsequent amendments. Subsequently, AE has visited the site on dated 10.12.2025 and submitted recommendations vide letter no. 1053 dated 27.10.2025 (Site Inspection Note attached).

In view of the above & based on the recommendation of AE, the subjected proposal is recommended for approval of Competent Authority, NHAI.

Yours faithfully,

Kuldeep Songara
Project Director

Encl: As above

MSV INTERNATIONAL INC.

In Association with

ARTEFACT PROJECTS LIMITED

DNC

In Association with

DN CONSULTANT & SERVICE PVT. LTD.

Joint Venture (JV) with
ARTEFACT PROJECTS LIMITED
DN CONSULTANT & SERVICE PVT. LTD.
DN CONSULTANT & SERVICE PVT. LTD.

Subject: Rehabilitation and Up-gradation of NH-149 from Km. 0.000 to Km. 68.280 (Pallahara to Pitiri Section) to two lanes with paved shoulder under NHDP-IV on EPC Mode in the state of Odisha - Grant of NOC for permission for laying Electrical Power Cable at Km. 62.330 with crossing at Km. 62.330 of NH-149 at KUALO-BASULEI, District - Dhenkanal under NHAI, PIU- Dhenkanal(Odisha).

Letter. no.: MSV-DNC/Duburi - Chandikhole/2025-26/516

Date: 11 December, 2025

To,
The Project Director,
PIU - Dhenkanal, National Highways Authority of India,
Plot No. 1768, Near Kalinga Eye Hospital,
Dakhinakali Road, Dhenkanal-759001

Dy M/DM

J
11/12

Subject: Rehabilitation and Up-gradation of NH-149 from Km. 0.000 to Km. 68.280 (Pallahara to Pitiri Section) to two lanes with Paved shoulder under NHDP-IV on EPC Mode in the state of Odisha - **Grant of NOC for permission for laying Electrical Power Cable at Km. 62.330 with crossing at Km. 62.330 of NH-149 at KUALO-BASULEI, District - Dhenkanal under NHAI, PIU- Dhenkanal(Odisha).**

Reference: TPCODL letter no. 6915 dated 17 October, 2025

Dear sir,

In reference to above subject matter and reference letter, authority engineer(AE) has visited the site on 10th December, 2025, and has examined this proposal, in accordance with MORT&H guidelines no. RW/NH-33044/29/2015/S&R dated(R) 22.11.2016 and it's subsequent amendment, at Km. 62.330(BANARPAL PSS). Subsequently, the following points are noted:

1. Checklist provided in this proposal is confirming to MORT&H guidelines.
2. Safety norms must be followed during the construction of 11 KV transmission line crossing, and after the completion of construction.

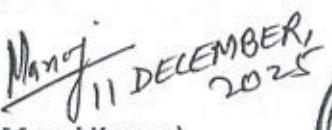
Accordingly, the submitted proposal of applicant (M/s- TPCODL) is eligible for getting NOC for laying Electrical Power Cable at Km. 62.330, and with crossing at Km. 62.330 of NH-149 at KUALO-BASULEI, District - Dhenkanal under NHAI, PIU- Dhenkanal(Odisha), and we hereby recommend for approval of this proposal from the competent authority/NHAI.

This is for kind information and needful please.

Best regards.

We assure our best services all the time.

For MSV International Inc - Artefact Projects Limited (JV)
In association with D N Consultant & Services Pvt. Ltd


(Manoj Kumar)
Team Leader

Encl.: As above.



MSV INTERNATIONAL INC., Dhenkanal
NH A.I., PIU, Dhenkanal
Sl. No.....
By No. 2792
Date..... 16/12/25

Site Inspection Note

Subject: Grant of NOC for permission for laying Electrical Power Cable at Km. 62.330 with crossing at Km. 62.330 of NH-149 at KUALO-BASULEI, District – Dhenkanal under NHAI, PIU-Dhenkanal(Odisha).

The proposal submitted by TPCODL for laying Electrical Power Cable at Km. 62.330 with crossing at Km. 62.330 of NH-149 at KUALO-BASULEI, District – Dhenkanal under NHAI, PIU-Dhenkanal(Odisha), has been inspected on 10th December, 2025 by the authority engineer(AE), in accordance with MORT&H guidelines no. RW/NH-33044/29/2015/S&R dated(R)22.11.2016 and it's subsequent amendment. The following points noted:

1. The ROW of 22.5 mtrs. on either side of the centre line is available at proposed location (Total ROW width = 45.00 mtrs.).
2. The proposed location found satisfactory to lay and cross the 11 KV Electrical Power Cable.
3. All applicable safety norms must be implemented for any existing Live Electrical line at the proposed location.
4. Necessary 'Undertakings', drawings have been submitted by the applicant.
5. The submitted drawings and checklist have been verified, and found in order.
6. In case of any expansion of existing road in future, the relocation of proposed electrical line will be done at the cost of M/s - TPCODL.
7. Environment must be preserved (like, existing trees must not cut or damaged, etc.) as per the norms.

In view of the above, the proposed location found suitable for laying Electrical Power Cable at Km. 62.330 with crossing at Km. 62.330 of NH-149 at KUALO-BASULEI, District – Dhenkanal under NHAI, PIU-Dhenkanal(Odisha), and confirms to MORT&H guidelines no. RW/NH-33044/29/2015/S&R dated(R) 22.11.2016 and it's subsequent amendment, and subsequently, applicant is eligible for getting NOC.

Utpal Mondal
Site Engineer
National Highways Authority of India
Project Implementation Unit-Dhenkanal

Dy. Manager
उप प्रबंधक (तकनीक)
Dy. Manager (Tech.)
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
National Highways Authority of India
प.का.इ., डेकानाल/ P.I.U. Dhenkanal



Prayag
परियोजना निदेशक
PROJECT DIRECTOR
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
National Highways Authority of India
प.का.इ., डेकानाल/ P.I.U., Dhenkanal

National Highways Authority of India

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

राज्यसंस्था कार्यालय इकाई / Project Implementation Unit - Dhenkanal

प्लॉट नं-1766, कलिंग अंतर्यो के अम्बताल के ननीप, दक्खिणकाली मार्ग, डेकानाल -759001, (ओडिशा)

Plot No. : 1766, Near Kalinga Eye Hospital, Dakkhinkali Road, Dhenkanal-759001 (Odisha)

दूरभाष / Ph. : 06762 - 796579 (का/ओ)

ई-मेल / E-mail : piudhenkanal@nhai.org, nhaidhenkanal@gmail.com

No. 20010/134/Kualo/TPCODL/NH-149/1917

Date: 03.11.2025

The Team Leader,
M/s MSV International INC.
(JV) with Artefact projects Ltd & in association with
DN Consultant & Services Pvt Ltd,
Pitiri- Pallahara, NH-149

Sub: - Pallahara to Pitiri section of NH-149 from Km.0.000 to 68.280 : Proposal of permission for laying of 11 Kv Electrical Power Cable Chainage at Km 62+330 with one UG Cable Crossing at Chainage Km-62+330 on NH-149 at Kualo-Basulei, District- Dhenkanal, State- Odisha- Grant of NOC-Reg.

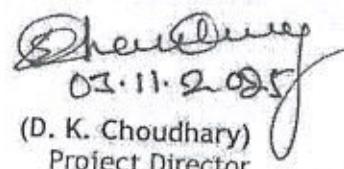
Ref.: TPCODL letter no 6915 dated 17.10.2025

Sir,

In reference to subject matter, TPCODL vide letter no 6915 dated 17.10.2025 have submitted Proposal of permission for laying of 11 Kv Electrical Power Cable Chainage at Km 62+330 with one UG Cable Crossing at Chainage Km-62+330 on NH-149 at Kualo-Basulei, District- Dhenkanal, State- Odisha- Grant of NOC.

In view of the above, you are advised to examine the proposal w.r.t MORTH guidelines dated 22.11.2016 & subsequent amendments and submit your comments within stipulated time limit to this office for further needful action in the matter.

Yours faithfully,


03.11.2025
(D. K. Choudhary)
Project Director

Encl: 3 sets of Proposal.

TPCODL

Ref No: 6915

Date: 16/10/2025

17 OCT 2025

To,

The DGM & Project Director,
National Highway Authority of India,
PIU- Dhenkanal(Odisha).

Dear Sir,

Reg.- Access permission for laying of Electrical Power Cable Chainage KM- 62/330 with one crossing at Chainage KM-62/330 of NH-149 at KUALO- BASULEI, District-Dhenkanal under NHAI, PIU- Dhenkanal(Odisha)- **Grant of N O C.**

With reference to the subject cited above, we are submitting the proposal with all relevant documents in terms of Ministry of Road Transport & Highways vide their guidelines No.RW-33044/29/2015-SER(R) dated-22.11.2016 for favour of your consideration and grant of **NOC**, so that we can start execution of the project.

We are hereby submitting the proposal online through our consultant M/s. Peetch Infotech Private Limited, Bhubaneswar for your kind consideration and obtaining necessary access permission.

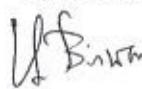
We shall deposit the necessary fees as per rules on raising a demand.

Since there is tremendous pressure from Govt of Odisha for time bound completion of the project, you are requested to please consider the matter expeditiously.

Please acknowledge receipt.

Thanking you,

Yours sincerely.


Sourav Biswas
Authorised Signatory Project Head
TP Central Odisha Distribution Limited
Bhubaneswar (Odisha).

Encl: Four (4) sets of complete proposal for online application.

Copy: M/s. Peetch Infotech Private Limited, Bhubaneswar for online submission and hard copy submission to
NHAI PIU-Dhenkanal

ମୁଖ୍ୟମନ୍ୟା; ପକ୍ଷକୁ, ଦେଖାଳା;

N.H.A.I., P.I.U, Dhenkanal

ଡା. ୧.....

IDy No.... 22057.....

ବିନ୍ଦୁ.....

Date..... 27/10/2025.....

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C H E C K - L I S T

Check list for getting approval for laying of Electric Power Transmission Line on NH-149 land

SI No.	Item	Measurement, Observation as per site conditions	MORTH Norms	Whether complying with MORTH Norms
1	General Information	Laying of 11 KV Electrical Power Cable supply alongside of NH-149 Crossing at Chainage KM- 62/330	Public Utility	YES
1.1	Name and Address of the Applicant	TP Central Odisha Distribution Limited Corporate Office- IDCO Towers, 2 nd Floor, Janpath, Bhubaneswar 751022 (Odisha)	Public Utility	YES
1.2	National Highway	NH-149	NA	NA
1.3	State	ODISHA	NA	NA
1.4	Location	Crossing NH-149at KM- 62/330 near from Kualo- Basulei Overhead and Underground Transmission of Electric Cable on the road from KM- 62/330	Public Utility	YES
1.5	(Chainage in K.M)	62/330 KM	YES	YES
1.6	Length in Meter	2.11KM	YES	YES
1.7	Width of Available RoW			
	a) Left side from centrelne towards increasing chainage/km direction	<i>30M HJ 22.5 MTRS.</i>	Utility Corridor available	YES
	b) Right side from centre line towards increasing chainage/km direction	<i>30M HJ 22.5 MTRS.</i>	Utility Corridor available	YES
1.8	Side of NH			
	a) Left side of NH towards increasing chainage/km direction)	NA	ANY SIDE	YES
	b) Right side of NH towards increasing chainage/km direction)	NA	ANY SIDE	YES
1.9	Name of Highway Authority of NHAI/PWD/BRO	National Highway Authority of India		YES
1.10	Highway Administration address	PIU-Dhenkanal		YES
2	Details of already laid utility service if any	Nil	NIL	NA
3	Whether upgradation of the stretch in near future is proposed or not	No	NA	NA

W. B. S.
Site Engineer
National Highways Authority of India
Project Implementation Unit-Dhenkanal

W. B. S.
National Highways Authority of India
प.का.इ. देंकनाल/ P.I.U. Dhenkanal
PROJECT DIRECTOR
परियोग राजमार्ग प्राधिकरण
National Highways Authority of India

Sourav Biswas
Head Project
TBCONI

W. B. S.
MSVARTAP- D.N.C.(ASSO)
NH-53

	a) If yes, provision of utility adversely affect the plan of upgradation	NA	Not affect plan of up-gradation	YES
4	Laying of the utility service along the National Highways.	Electric Cable		
4.1	Location of proposed utility service along the stretch.	Kualo- Basulei	Utility Duct/beyond the toe line of the embankment and drains and close to the extreme edge of the RoW.	YES
4.2	Depth of top of utility service from ground level	3 MTR	D.G Meter	YES
4.3	Mechanism for crossing water channel	NA	Through utility duct(if provision exists) or beneath the bed of water channel.	YES
4.4	Whether RoW is restricted in this stretch?	No		YES
4.4.1	If yes, whether provision of land acquisition is required to lay utility	NA	NA	YES
	a) If yes, whether undertaking for land acquisition along with relevant L.A details has been furnished.	NA	NA	YES
4.4.2	Width of concrete duct. If utility services are proposed to be laid in concrete ducts.	NA	Not less than one lane	YES
5	Laying of utility services across the NH	YES	IIDD Method	YES
5.1	Whether Existing drainage structures is allowed to carry the utility lines.	No	Not to be allowed	YES
5.2	Proposed crossing of utility service	Perpendicular to NH	Perpendicular to NH	YES
5.3	Type of casing pipe/Conduit carrying the utility line.	HIGH DENSITY POLYETHYLENE	Steel ,cast iron or reinforced cement concrete and have adequate strength	YES पारवाजना नियंत्रण PROJECT DIRECTOR भारतीय राष्ट्रीय राजमार्ग प्राधिक National Highways Authority of India प.का.इ., लैकनाल/PI.U., Dhenkanal
5.4	Whether ends of the casing/conduit pipe are sealed from the outside	YES	Sealed	YES
5.5	Length of top of the casing/conduit pipe crossing NH	60 MTR 45.0 MTR	Extend from drain to drain in cuts and toe to	YES

Devi
Site Engineer
National Highways Authority of India
Project Implementation Unit-Dhenkanal

Dy. Manager
Dy. Manager (Tech.)
भारतीय राष्ट्रीय राजमार्ग प्राधिक
National Highways Authority of India

Sourav Biswas
Head Project
TPC-001



			toe of slope in the fills,	
5.6	Depth of top of the casing /conduit pipe	1.2 MTR	At least 1.2m below the top of subgrade	YES
5.7	Crossing method to case of CC payment.	HDD METHOD	Only boring method (HDD)	YES
5.8	Horizontal and vertical clearance in case utilities are allowed overhead.	NA	In accordance with IRC codes.	YES
6	Document/Drawings enclosed with the proposal.	YES		YES
6.1	Cross-Section showing the size of trench for open trenching method	NA	Enclosed if applicable.	NA
	a) Trench width	300MM	More than 30cm and less than 60cm wider than the outer diameter of the utility pipe.	NA
	b) Filling of trench	1.25MTR	as per Ministry guidelines vide letter No.RW/NH-34044/29/2015/S&R (R) dated 22.11.2016	NA
	c) Location of trench	KM- 62/330	Extreme edge of the RoW.	YES
6.2	Cross section showing the size of pit and location of conduit for HDD method.	2 X 1 X 1.5 (Length*Width*Depth), Location-AT Km 62/330	Enclosed, if applicable	YES
6.3	Strip plan/Route plan showing utility line, chainage, width of RoW distance of proposed utility from the edge of RoW, important milestone intersections, cross drainage works etc.	YES	Enclosed	YES
6.4	Plan and profile drawing of stretch showing cross section of road at 20M distance along with RoW and proposed utility.	YES	Enclosed.	YES
7	Methodology for laying of utility line.	HDD	Enclosed	PROVES DIRECTOR भारतीय राष्ट्रीय राजमार्ग प्रशिक्षण National Highways Authority of India प.का.इ., डेक्कनाल/प.इ. फेनका
8	Draft License Agreement is as per Ministry guidelines vide letter No. RW/NH-34044/29/2015/S&R (R) dated 22.11.2016 and signed by two witnesses.	YES	Enclosed	YES प.का.इ., डेक्कनाल/प.इ. फेनका
9	License fees in favour of MoRTH RPAO	ON DEMAND	As per Ministry vide circular no. RE/NH-	YES

Engineer
National Highways Authority of India
Project Implementation Unit-Dhenkanal

Sourav Biswas
Dy. Manager (Tech.)
भारतीय राष्ट्रीय राजमार्ग प्रशिक्षण
National Highways Authority of India
Head Project
TDC001



			33044/29/2015/ S&R (R) dated 22.11.2016.	
10	Whether Bank Guarantee has been obtained	ON DEMAND	As per Ministry vide circular no. RE/NH-33044/29/2015/S&R (R) dated 22.11.2016.	YES
	a) If yes, whether Confirmation of BG has been obtained as per MoRTH/NH/NHAI guidelines.	NA		NA
11	Affidavit/Undertaking from the Applicant for			
11.1	Undertaking for not to damage other existing utility, if damaged then to pay the losses to either to MoRTH/NHAI or to the concerned agency.	YES	Enclosed	YES
11.2	Undertaking for renewal of Bank Guarantees and when asked by NHAI/MoRTH	YES	Enclosed	YES
11.3	Undertaking for confirming all standard condition of MoRTH/NHAI guidelines.	YES	Enclosed	YES
11.4	Undertaking for shifting of utility as and when asked by MoRTH/NHAI within a month at their own cost.	YES	Enclosed	YES
11.5	Undertaking for Indemnity against all damages and claims.	YES	Enclosed	YES
11.6	Undertaking for management of traffic movement during laying of utility line without hampering the traffic,	YES	Enclosed	YES
11.7	Undertaking that if any claim is raised by the Concessionaire /Contractor then the same has to be paid by the applicant.	YES	Enclosed	YES
11.8	Undertaking that the applicant has obtained various safety clearance from the representative authorities such as directorate of Electricity, Chief Controller of Explosives Petroleum and Explosives, Petroleum and Explosives safety Organisation oil Industry Safety Directorate. State / central Pollution Control Board and any other statutory clearances applicable, before applying to Highway Administration.	YES	Enclosed	YES

परियोजना निवेशक
PROJECT DIRECTOR
भारतीय राष्ट्रीय राजमार्ग परिवहन
National Highways Authority of India
उत्काश



W. B. N. A. N.
Sourav Biswas
Head Project
TPCCPL
National Highways Authority of India
Project Implementation Unit-Dhenkanal
National Highways Authority of India
Dhenkanal P.I.U. Dhenkanal
Sourav Biswas
Head Project
TPCCPL

The Right of the Way(RoW) of the National Highway available at the proposed location from the center line of divided carriageway is (30.00)m (from center of RoW to edge of RoW to edge of RoW towards proposed utility).

The above particulars along with the drawings and documents have been verified and certified as correct as per prevailing site conditions.

Regional Officer
NHAI- Bhubaneswar
Bhubaneswar (Odisha)

परियोजना निदेशक
PROJECT DIRECTOR
भारतीय राष्ट्रीय राजमार्ग प्रशिकरण
NHAI- Bhubaneswar
National Highways Authority of India
प.का.इ., देंकनाल/ P.I.U. Dhenkanal

Wenil
Site Engineer
National Highways Authority of India
Project Implementation Unit-Dhenkanal



Dy. Manager
उप प्रबंधक (तकनीक)
भारतीय राष्ट्रीय राजमार्ग प्रशिकरण
National Highways Authority of India
प.का.इ., देंकनाल/ P.I.U. Dhenkanal

Sourav Biswas
Head Project
TPCODL

Authorised Signatory
TPCODL
Bhubaneswar (Odisha)

Methodology of Execution of laying Underground and Overhead Cable NH crossing at Chainage KM- 62/330 of NH-149.

In the context of 11KV, Underground and Overhead Cable crossing Chainage KM- 62/330 on NH- 149 required for **TP Central Odisha Distribution Limited, Bhubaneswar (Odisha).**

The following steps will be followed during the execution of work at site.

(1) Requirement before Execution Start

All below mentioned should be present before execution of work i.e.;

- (a) Approved Construction drawing & related documents from NHAI.
- (b) Permit to work in the mentioned area as per drawing from Authorised/ Concerned person if any.
- (c) Availability of all materials & related documents for execution at site as per BOQ approved.
- (d) Availability of plant & machinery and tools for execution at site.

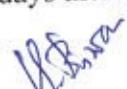
(2) From the point of safety & easy working, the entire job as per drawing has been segregated in to following steps which will be executed sequentially as:

- a) Laying of Under Ground Cable below NH.
- b) Structure Erection work with all its accessories.
- c) Cable termination, stringing of conductor & erection of all others as per drawing.
- d) Charging & Commissioning.

(A) Laying of Under Ground Cable below NH

As two circuits, power flow is required, so 1nos of cable in total of size 3C X 400 Sq.m will be laid. Out of 2nos of cable ,1 no of cable will be in working condition where as another cable will be for standby. All cables will be laid in HDPE casing pipe of size 160 mm dia as per drawing. HDPE casing pipe will be inserted through HDD method, 1500 mm below from ground level. After this cable will be pulled through the Casing Pipe. Additional length of cable will have left outside each pipe for jointing at DP Structure at both end. Laying of cable will be followed as per below mentioned procedure:-

- i) Drive Pit & reception pit for cable as per drawing will be done for horizontal drilling below NH.
- ii) The horizontal boring equipment is lowered in to the drive pit.
- iii) An Earth hole is bored along the proposed alignment with a back reamer. The hole is enlarged with required size to accommodate the casing pipe.
- iv) The casing pipe of required length is installed in the bore from one end. The pushing should be started with hydraulic jack using any trenchless technology like pushing technique / auger boring technique etc.
- v) After placing the casing pipe, cables are to be laid through drive pit & reception pit. Road should be kept under careful observation for few days after crossing.



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Head Project
TPCSDL

(B) Structure Erection work with all accessories.

After laying of cable, pole structure will be installed with all its accessories as per drawing shown. All its accessories will be earthed through pipe earthing. Connection between equipments & Earth pit will be done by Earthing strip of size 40x6 MM GI Flat. pipe earthing will be prepared for individual pole Support as per specified by NH standard. Details of pipe earthing are shown in Drawing. Pipe for cable support will be fixed with pole structure with clamps & Nut bolts.

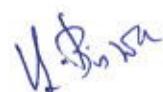
(C) Cable termination, Stringing of conductors & erection of all others as per drawings

Conductor stringing will be done to the pole structure from contiguous pole & all jumpers will be connected. Cable end termination will be done for each cable at each end. Danger boards, Route makers, Anti-climbing device for Structures & etc will be erected as per drawing.

(D) Charging & Commissioning

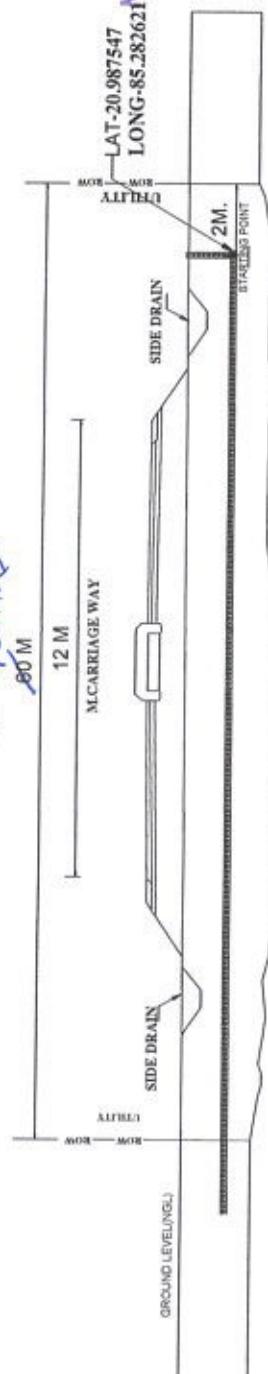
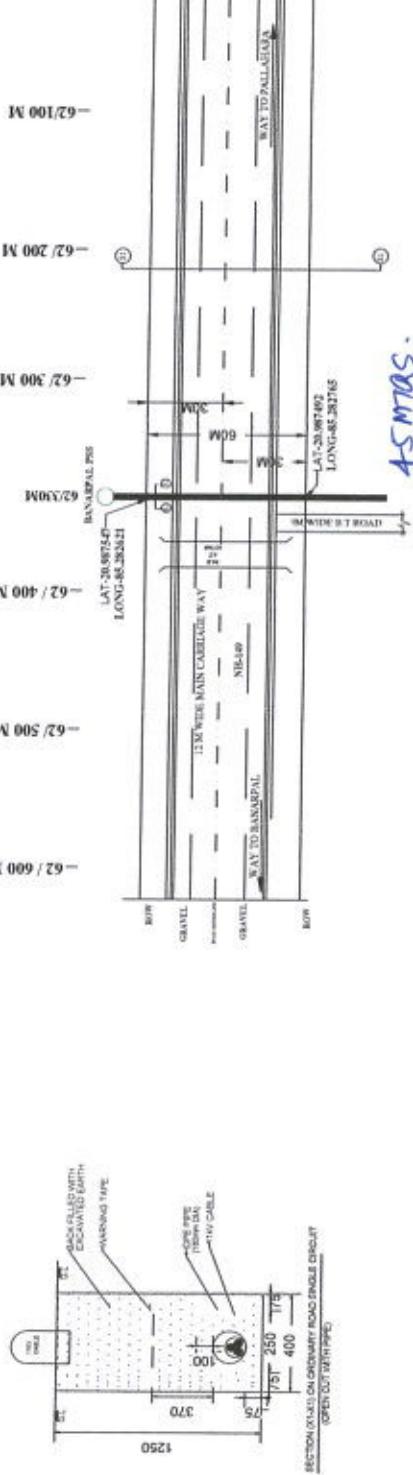
Required site testing of cables will be done & recorded. Measure of earthing resistance at all individual earth pit & combined earthing circuit will be done. Complete verification of the installed will be done as per drawing and will conform to meet as specified. Necessary approvals, Protocols & legal compliances will be prepared & achieve from Authorized of all involved Department as applicant, approver, legal authorities and any other as advised.

The Execution of work shall be commenced only after getting approval of the competent Authority, before start of Execution of the work all the concerned department of NH will be intimated to be present at site and shall not be executed in the absence any.



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Head Project
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Authorised Signatory
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Bhubaneswar (Odisha).



Site Engineer
Highways Authority of India
Implementation Unit-Dhenkanal

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—
Fischer

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Authorized Signatory
TPCOPD
PROJECT DIRECTOR
PROJEKTLEITER

National Highways Authority of India
Tata Consultancy Services Ltd
National Highways Authority of India

DRAWING NO- TPCSDL/PIPL/NHAI/149	11 KV CABLE CROSSING AT CH-62/330 ON NH-149 AT KUALO FEEDER WITH BASULEI FEEDER	PREPARED BY- 	Er. A.SWAN Seal & Signature of Consultant
LEGEND-	— PROPOSED HDD CABLE — — — ROAD		
PAGE NO - 01			DATE - 13/10/2025

DRAWING NO.
TPC001/PIPL/NHAI/149
LEGEND-