



# 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

301-ए, तीसरी मंजिल, पाल हाईट्स, प्लॉट नं. जे/7, जयदेव विहार, भुवनेश्वर-751013, ओडिशा  
301-A, 3rd Floor, Pal Heights, Plot No : J7, Jayadev Vihar, Bhubaneswar-751013, Odisha

दूरभाष / Ph.: 0674 - 2361470/ 570/ 670 (का/ओ)

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



NHAI/13011/54/RO/OD/ 1891 /2025

22.08.2025

To

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

Sub: Angul Sambalpur Section of NH-55: Permission for proposal of M/s TPWODL for underground crossing of 11 KV electrical line (3c x 400 sqmm (2Runs)) near Charmal at Km. 216+680 in Dist. Sambalpur, Odisha. - Reg

Ref: PD, PIU- Sambalpur letter no. 1112 dated 21.08.2025

Sir,

Please find enclosed herewith proposal of proposal of M/s TPWODL for underground crossing of 11 KV electrical line (3c x 400 sqmm (2Runs)) near Charmal at Km. 216+680 in Dist. Sambalpur, in the state of Odisha. The details are as under:

| Sr. No. | Along / Across | Chainage    | Details of Power cable | Remarks       |
|---------|----------------|-------------|------------------------|---------------|
| 1       | Across         | Km. 216+680 | 3c x 400 sqmm (2Runs)  | By HDD method |

2. Accordingly, as per guidelines issued by MoRT&H 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,

*Abinash*  
22.08.25

(Abinash Behera)  
Manager (Tech)



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NHAI/13011/54/RO/OD/ 1891 /2025

22.08.2025

### INVITATION OF PUBLIC COMMENTS

Sub: Angul Sambalpur Section of NH-55: Permission for proposal of M/s TPWODL for underground crossing of 11 KV electrical line (3c x 400 sqmm (2Runs)) near Charmal at Km. 216+680 in Dist. Sambalpur, Odisha. - Reg

M/s TPDOWL has submitted a proposal for underground crossing of 11 KV electrical line (3c x 400 sqmm (2Runs)) near Charmal at Km. 216+680 in Dist. Sambalpur, in the state of Odisha. The details are as under:

| Sr. No. | Along / Across | Chainage    | Details of Power cable | Remarks       |
|---------|----------------|-------------|------------------------|---------------|
| 1       | Across         | Km. 216+680 | 3c x 400 sqmm (2Runs)  | By HDD method |

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.

*[Signature]*  
22.08.25

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

To,  
Project Director,  
NHAI, Sambalpur

Sub: Submission of Check list for getting approval for Crossing of underground Electrical Power cable line on NH 55 for New 11kv Line from Charmal PSS to Sahidola.

Dear Sir,

With reference to above, we are submitting the check list duly fill up for laying of underground Electrical cable on NH 55 land for & necessary approval at your end.

#### CHECK LIST

| Sl.no | ITEM  | Information/Status   | Remarks |
|-------|---|--|---------|
| 1     | General information   | ODSSP PHASE-IV   |         |
| 1.1   | Name &Address of the Applicant/Agency                                   | TPWODL<br>SEED, Sambalpur                                    |         |
| 1.2   | National Authority number   | NH-55  |         |
| 1.3   | State   | ODISHA   |         |
| 1.4   | Location  | Near Charmal Village   |         |
| 1.5   | Chainage in km  | 216+680  |         |
| 1.6   | Length in meters  | Crossing of XLPE Cable<br>1No Location<br>(3CX400sqmm)x2Runs |         |
| 1.7   | Width of available ROW  | 60M  |         |
|       | a) Left side from center line towards increasing chainage/km direction  | 30M  |         |
|       | b) Right side from center line towards increasing chainage/km direction | 30M  |         |
| 1.8   | Proposal to lay underground electrical cable                            | Yes Crossing   |         |
|       | a) Left side from center line towards increasing chainage/km direction  | 30M  |         |
|       | b) Right side from center line towards increasing chainage/km direction | 30M  |         |
| 1.9   | Proposal to acquire land  | No it is a Crossing Proposed                                 |         |
|       | a)Left side from center line  | 30   |         |
|       | b) Right side from center line  | 30   |         |
| 1.10  | Whether proposal is in the same side where land is nor to be acquired   | yes  |         |
|       | If not then where to lay the cable                                      |  |         |
| 1.11  | Details of already laid services ,if any along the proposed route       | NA   |         |
| 1.12  | Number of lanes existing  | 4Lanes   |         |
| 1.13  | Proposed number of lanes(2 lane with paved shoulders                    | NA   |         |
| 1.14  | Service road existing or not  | NA   |         |
|       | If yes then which side  | NA   |         |
|       | a)Left side from center line  | NA   |         |
|       | b) Right side from center line  | NA   |         |
| 1.15  | Proposed service road   | NA   |         |

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National Highways Authority of India  
राजमार्ग विभाग / NH, Sambalpur Division


परियोजना निदेशक / Project Director  
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण विभाग  
National Highways Authority of India  
राजमार्ग विभाग / NH, Sambalpur Division


| S.no | ITEM   | Information/Status  | Remarks |
|------|--|---|---------|
|      | a) Left side from center line  | NA  |         |
|      | b) Right side from center line   | NA  |         |
| 1.16 | Whether proposal to lay water supply Pipe line/Electrical Cable is after the service road or between the service road and main carriageway   | Cable will laid crossing the main carriageway and service road. |         |
| 1.17 | The permission for laying of water supply pipe line/Electrical cable Shall be considered for approval/rejection based on the Ministry Circulars mentioned as above   |   |         |
|      | a) Carrying of sewage/gas pipelines on highway bridges shall not be permitted as fumes/gases pipes can accelerate the process of corrosion or may cause explosions thus being much more injurious than leakage of water  | No Sewage/Gas pipe lines on highway bridge will be carried.     |         |
|      | b) Carrying of water pipes on bridges shall also be discouraged. However, if the water supply authorities seem to have no other viable alternative and approach the highway authority well in line before the design of the bridge is finalized they may be permitted to carry the pipeline on independent superstructure supported on extended portions of piers and abutments in such a manner that in the final arrangement enough free space around the superstructure of the bridge remains available for inspection and repairs..etc | No water pipe lines on the bridge shall be carried.             |         |
|      | c) Services are not being allowed indiscriminate on the parapet/any part of the bridges. Safety of the bridges has to be kept in view while permitting various services along bridge. Approvals are to be accorded in this regard with the concurrence of the Ministry's Project Chief Engineers only.   | Not Applicable  |         |
| 1.18 | If crossing of the road involved<br>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.   | YES, The Cables will be encased in HDPE pipes.                  |         |
|      | a) Existing drainage structures not be allowed to carry the line.  | YES, The existing structure will not be used to carry the line  |         |
|      | b) Is it on a line normal NH   | YES   |         |
|      | c) Crossing Shall not be too near the existing structures on the National Highway, the minimum distance being 15 meters. What is the distance from the existing structures   | More than 15mtrs  |         |
|      | 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.   | Casing pipe will be HDPE Pipe of 160mm dia.                     |         |
|      | e) Ends of the casing/Conduit pipe should be sealed from the outside, so that it does not act as a slope of the fills  | Yes, It will be sealed on both side.                            |         |
|      | f) The casing/conduit pipe should be as minimum extend from drain to drain in cuts and toe slope in the fills  | Yes, will be followed.  |         |

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 National Highways Authority of India  
 प.का.उ. संभलपुर/PIU, Sambalpur

परियोजना निदेशक / Project Director  
 भारतीय राष्ट्रीय राजमार्ग प्राधिकरण विभाग  
 National Highways Authority of India  
 प.का.उ. संभलपुर, उड़िसा / PIU, Sambalpur, Odisha

| S.no  | ITEM   | Information/Status             | Remarks |
|-------|--|--------------------------------|---------|
|       | 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.  | From it will be below 1.5mtr   |         |
|       | h) Crossing shall be by boring method (HDD) especially where the existing road pavement is of cement concrete or dense bituminous concrete type.   | Crossing by HDD Method         |         |
|       | 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 waterway along it.  | Yes                            |         |
| 2     | Document/Drawing enclosed with the proposal  | Yes,3sets                      |         |
| 2.1   | Cross section showing the size of trench for open trenching method (Is it normal size of 1.2 m depth/0.3m wide)  | NA                             |         |
|       | I) Should not be greater than 60 cm wider than the outer diameter of the pipe.   | NA                             |         |
|       | II) Location as closer to the extreme edge of the right-of-way as possible but not less than 15 meter from the center lines of the nearest carriageway.  | NA                             |         |
|       | III) Shall not be permitted to run along the National Highways when the road formation is situated in double cutting. Nor shall these be laid over the existing culverts and bridges.                        | NA                             |         |
|       | 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 of the road land.   | NA                             |         |
| 2.2   | Cross section showing the size of pit and location of cable for HDD method   | Shown in the Enclosed drawing. |         |
| 2.3   | Strip plan/Route plan showing Water supply pipe line/Electrical Cable Chainage, width of ROW, distance of proposed cable from the edge of ROW, important mile stone, intersecting, cross drainage works etc. | As per the Drawing enclosed.   |         |
| 2.4   | Methodology for laying of showing water supply pipe etc.   | NA                             |         |
| 2.4.1 | Open trenching methods (May be allowed in utility corridor only where pavement is neither cement concrete type. If yes, Methodology of refilling of trench.  | NA                             |         |
|       | a) The trench width should be at least 30cm, but not more than 60cm wider than the outer diameter of the pipe.   | Yes                            |         |
|       | b) For filling of the trench, Bedding shall be to depth of not less than 30cm it shall consist granular material unsuitable soil and rock edge should be excavated and replaced by selected material.        | yes                            |         |
|       | c)The back shall be completed two stages (I) Side-fill to the level of the top of the pipe and (II) overfill to the bottom of the road crust.  | Ok                             |         |

  
 उप-प्रबंधक (तकनीकी) / Sub Engineer (Tech.)  
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 National Highways Authority of India  
 प. को. ई. सम्वलपुर / PIU, Sambalpur


  
 परियोजना निदेशक / Project Director  
 भारतीय राष्ट्रीय राजमार्ग प्राधिकरण विभाग  
 National Highways Authority of India  
 प. को. ई. सम्वलपुर, उडिशा / PIU, Sambalpur, Odisha

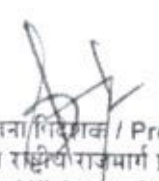
| S.no  | ITEM  | Information/Status   | Remarks |
|-------|---|--|---------|
|       | d) 95% of the proctors Density. Overfill shall be connected to the same density as the material that had been removed consolidation by saturation or ponding will not be permitted.   | Ok   |         |
|       | e) The road crust shall be built to the same strength as the existing crust on either side of the trench. Care shall be taken to avoid the formation of a clip at the trench.   | Ok   |         |
|       | f) The excavation shall be protected by flagman, signs and barricades and red lights curing night hours.  | Ok   |         |
|       | g) If required, a diversion shall be constructed at the expense of agency owning the utility line.  | Ok   |         |
| 2.4.2 | Horizontal Directional Drilling(HDD) Method   | Cable laying by HDD Method only.                               |         |
| 2.4.3 | Laying of Water Supply Pipe line/Electrical Cable through HD Works and method of laying.  | NA   |         |
|       | a)On Approaches the water mains/cables shall be carried along a line as close to the right way as possible up to a distance of 30m from the bridge and subject to all other stipulations in this Ministry's guidelines issued with letter no NH-HI/P/66/76 dated 19.11.197  | Yes, Will be followed.   |         |
| 3     | Draft license agreement signed by two witnesses.  | Enclosed   |         |
| 4     | Performance Bank Guarantee in favour of NHAI submitted @Rs.50/- per running meter (Parallel to NH) and Rs.1, 00,000/- per crossing of NH, for a period of one year initially (Extendable if required till satisfactory completion laying the cables /ducts by proper filling and compaction, clearing debris/loose earth produced due to execution trenching at least 50m away from the edge of the right of way. No payment shall be payable by the NHAI to the license of clearing debris/loose earth | Enclosed, Shall be deposit after obtaining permission/advised. |         |
| 4.1   | Performance BG as per above obtained  | In Conformity with NHAI  |         |
| 4.2   | Confirmation of BG has been obtained as per NHAI guidelines.  | Yes  |         |
| 5     | Affidavit/Undertaking from the applicant for carrying out the work.   | Yes  |         |
| 5.1   | Not to damage other utility, If damaged then to pay losses either to NHAI or to the concerned agency  | Yes  |         |
| 5.2   | Renewal of Bank Guarantee.  | Renewal to be done after its validity lapses                   |         |
| 5.3   | Confirming all standard condition of NHAI guidelines  | Yes  |         |
| 5.4   | Shifting of water supply pipe line/Electrical cable as and when required.   | Yes, It will be carried out if required.                       |         |
| 5.5   | Shifting due to 6 lanning/widening of NH.   | Yes  |         |
| 5.6   | Indemnity against all damages and claims clause(XXLV)   | Yes  |         |
| 5.7   | Traffic movement during laying of Water Supply pipe line/Electrical cable to manage by the applicant.   | Yes, The same will be managed at the time of work execution.   |         |
| 5.8   | If any claim is raised by the concessionaire then the same has to be paid by the applicant.   | Yes  |         |

उप-प्रबंधक (तकनीकी) (UP Manager (Tech.)  
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 National Highways Authority of India  
 प्लॉट नं. ३, सम्बलपुर/PIU, Sambalpur

परियोजना निदेशक (Project Director  
 भारतीय राष्ट्रीय राजमार्ग प्राधिकरण विभाग  
 National Highways Authority of India  
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| S.no | ITEM  | Information/Status  | Remarks |
|------|---|---|---------|
| 5.9  | Prior approval of the NHAI shall be obtained before undertaking any work of installation, shifting or repairs or alternations to the showing water supply pipe line/Electrical cable located in the National Highway right of ways.   | Yes, Necessary permission to be taken before starting the work.           |         |
| 5.10 | Expenditure ,if any incurred by NHAI for repairing and damage caused to the National Highway by the laying maintenance or shifting of the water supply pipe line/Electrical Cable will be borne by the agency owning the line.  | Yes   |         |
| 5.11 | If the 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 NHAI at the agency owning the utility line within a reasonable time (not exceeding 60 days) of the intimation given.   | Yes   |         |
| 5.12 | Certificate from the applicant in the following format.   |   |         |
|      | I) Laying of Electrical cable line will not have any deleterious effects on any of the bridge components and road way safety for traffic.   | Yes   |         |
|      | II) For 6 lanning we do undertake that I will reinstate service road/approach road/utilities at our own cost not standing the permission granted within such time as will be stipulated by NHAI for future six-lanning or any other development.  | Yes, It will be certified.  |         |
| 6    | Who will sign the agreement   | Executive Engineer, TPWODL, Sambalpur East Electrical Division, Sambalpur |         |
| 7    | Certificate from the Project Director.  | NA  |         |
| 7.1  | Certificate for confirming of all standard condition issued vide ministry Circular No NH-41(581/68 dated 31.01.4969, Ministry circular no NH-III/P/66/76 dated 18/19.11.1976, Ministry circular no RW/NH-III/P/66/76 dated 11.05.1982' Ministry circular no RW/NH-11037/1/86/DOI dated 19.01.1995, Ministry circular no RW/NH-34066/2/95/S&R dated 25.10.1999 & Ministry circular no RW/NH-34066/7/2003 S&R (B) dated 17.09.2003. | Enclosed  |         |
| 7.2  | Certificate from PD in the following format.  |   |         |
|      | I) It is certified that any other location of the electrical cable would be extremely difficult unreasonable costly and the installation of Water Supply pipe line/Electrical Cable within ROW will not adversely affect the design, stability & traffic safety such as widening of the carriageway, easing of curve etc.   | Enclosed  |         |
|      | II) For 6-Lanning.  | NA  |         |
|      | a) Where feasibility is available I do certify, that there will be no hindrance to proposed six-lanning structures at the said location.  |   |         |


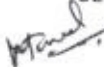
  
 प्र. निदेशक (तकनिकी) / Project Director (Tech.)  
 भारतीय राष्ट्रीय राजमार्ग प्राधिकरण  
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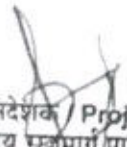
  
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| S.no | ITEM  | Information/Status   | Remarks |
|------|---|--|---------|
|      | b) In case feasibility report is not available I do certify that sufficient ROW is available site for accommodating proposed six lanning.   |  |         |
| 8    | If NH section proposed to be taken up by NHAI on BOT basis a clause is to be inserted in the agreement." The permitted Highway on which licensee has been granted the right to pay cable/duct has also been granted as right of way to the concessionaire the concession agreement for up-gradation of... NH no 55 on bide, operate and transfer basis and therefore, the licensee shall honour the same. | We will honour NHAI Guidelines   |         |
| 9    | Who will supervise the work of laying of UG Electrical cable use.   | Executive Engineer,TPWODL, Sambalpur East Electrical Division, Sambalpur |         |
| 10   | Who will ensure that the defects in road portion after laying of Electrical cable line are corrected and if not corrected then what action will be taken.   | Executive Engineer,TPWODL, Sambalpur East Electrical Division, Sambalpur |         |
| 11   | Who will pay the claims for damages done/disruption permission in the concessionaire if asked by the concessionaire?  | Executive Engineer,TPWODL, Sambalpur East Electrical Division, Sambalpur |         |
| 12   | A certificate form PD that he will enter the proposed permission in the register of records of the permissions in the register of the permissions in the prescribed proforma (copy enclosed)  | Enclosed   |         |
| 13   | If any previous approval is accorded for laying of underground water supply pipe line/Electrical Cable then Photocopy of register of records of permissions accorded as maintained by PD then copy be enclosed.   | NA   |         |

Thanking you.

Yours Faithfully,

  
 Executive Engineer (Electrical)  
 SEED, Sambalpur, TPWODL  
  
 Executive Engineer,  
 Sambalpur East Electrical  
 TPWODL, Sambalpur

  
 परियोजना निदेशक / Project Director  
 भारतीय राष्ट्रीय राजमार्ग प्राधिकरण विभाग  
 National Highways Authority of India  
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 उप-प्रबंधक (तकनीकी) / Dy. Manager (Tech.)  
 भारतीय राष्ट्रीय राजमार्ग प्राधिकरण  
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