



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)
National Highways Authority of India
(Ministry of Road Transport & Highways, Government of India)
क्षेत्रीय कार्यालय, मदुरै / **Regional Office, Madurai**

दूसरा व तीसरी तल, विजय कृष्ण प्लाज़ा, संख्या-1, लेक एरिया, मेलूर मेन रोड, माट्टुतावनी, मदुरै-625 007
2nd & 3rd Floor, Vijay Krishna Plaza, No.1, Lake Area, Melur Main Road, Mattuthavani, Madurai-625 107
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NHAI/15018/3.3/03/2023/RO Madurai/E: 113177 / 906

07th June, 2023

INVITATION OF PUBLIC COMMENTS

Sub: NHAI - PIU, Karaikudi - Erection of 22KV Electrical Over Head Transmission line with poles along the road from Km.148/400 to Km.152/000 (RHS) and across @ Km.152/000 in Thirumayam - Manamadurai section of NH 226 (New NH 36) - Public Comments Invited - Reg.

Ref: PD, Karaikudi Lr.No.NHAI/PIU/Karaikudi/11034-2/EB/2023/449 dt 30.03.2023.

The proposal received from PD, Karaikudi vide letter no. NHAI/PIU/Karaikudi/11034-2/EB/2023/449 dt 30.03.2023 there by requesting permission for permission for Erection of 22KV Electrical Over Head Transmission line with poles along the road from Km.148/400 to Km.152/000 (RHS) and across @ Km.152/000 in Thirumayam - Manamadurai section of NH 226 (New NH 36) in the State of Tamil Nadu proposed by M/s. Sree Jayamurugan Alloys Pvt. Ltd.

Accordingly, as per Policy Guidelines issued by Ministry vide letter No. RW/NH-33044/29/2015/S&R(R) dated 22.11.2016 and subsequent amendment dated 17.04.2023, the application is being uploaded on public domain for 30 days for seeking claims and objections (on grounds of public inconvenience, safety and general public interest).

National Highways Authority of India

NHAI/15018/3.3/03/2023/RO Madurai/E:18179 /906

07th June, 2023

In view of the above, comments of the public on the above proposal is invited to the below mentioned address:

Regional Officer,
National Highways Authority of India,
No.2nd & 3rd Floor, Vijay Krishna Plaza,
No.1, Lake Area, Melur Main Road, Mattuthavani,
Madurai - 625 007.

Yours Faithfully,



(P.Selva Kumar),

General Manager (Tech.,)

Copy to:

1. The NIC, New Delhi - for uploading in the Ministry's website.
2. The PD, Karaikudi - for information.



MoRTH Utility Portal

Ministry of Road Transport & Highways, Government of India

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My Applications

Sno	Application Ref. No	State/District/Highway	Application Category/items (Click on Category Name to Add/Edit Locations)	Stage	Approvals Accorded	Add New (applications.cshhtml? nid=1&EncHid=259203574)
1	20230308/1/11/18782/2276 [New]	TAMIL NADU SIVAGANGA NH226 [NH226]	<ul style="list-style-type: none">Industrial Utility [Power Cables]<ul style="list-style-type: none">DetailsFee	Application Submitted on: 08/03/2023	--	Application Submitted Successfully

Application Details [20230308/1/11/18782/2276]

Highway	NH226 [NH226]
Name of Highway Authority	
Highway Administration Address	
Name of Applicant/Oil Company	SREE JAYAMURUGAN ALLOYS PRIVATE LIMITED Address: SF No 329 3 4 5 Ganapathy Nagar Vellalagundam Salem 635111 Tamilnadu State , SALEM (TAMIL NADU), PIN: 635111 Phn: 9585508467 Email: mail@addpower.in
Application Category	Industrial Utility
Utility	Other Power Cable
State	TAMIL NADU
Type	New
Remarks	NH-226(New No.NH-36) of (Thirumayam to Manamadurai Section) Km.148/400 to Km.152/000 (RHS) and Across @ Km.152/000
Submitted On	08 Mar 2023 17:40:59

Details	
1. Length in Meters *	3600 meters
2. Width of available ROW	
I. Left side from center line towards increasing chainage OR km direction *	Maximum:17.00 Meter Minimum:15.00 Meters
II. Right side from center line towards increasing chainage OR km direction *	Maximum:28.00 Meter Minimum:15.00 Meters
3. Proposal to lay the utility	
I. Left side from center line towards increasing chainage OR km direction *	0
II. Right side from center line towards increasing chainage OR km direction *	Maximum:27.00 Meter Minimum:14.00 Meters
4. Proposal to acquire the land	
I. Left side from center line *	-NA-
II. Right side from center line *	-NA-
5. Whether proposal is in the same side where land is not to be acquired *	No
If not then where to lay the cable *	The pole shall be laid at the extreme edge of ROW.
6. Details of already laid services if any along the proposed route *	Nil
7. Number of Existing lanes *	2 Lane
8. Proposed number of lanes *	2 Lane
9. Service road Exists *	No

10. Proposed Service road		
Left side from center line		-NA-
Right side from center line		-NA-
11. Whether proposal to lay cable is after the service road or between the service road and main carriageway *		N/A
12. Whether carrying OFC Cable has been proposed on highway /bridges, If yes then mention the methodology proposed for the same *		Will be laid at the extreme edge of ROW Along utility corridor at ROW edge
13. Is crossing of the road involved? If Yes, is shall be either encased in pipes or through structure of conduits specially built for the purpose at the expense of the agency owing the line *		Yes
I. Whether the existing drainage structures are allowed to carry utility pipeline. *		NA
II. Is it on a line normal to NH? *		Yes
III. What is the distance of crossing the utility pipelines from the existing structure? Crossings shall not be too near the existing structures on the National Highway, the minimum distance being 15 mtrs. *		0.00

IV. The casing pipe (or conduit pipe in the case of electric cable) line carrying the utility line shall be of steel, cast iron or reinforced concrete and have adequate strength and be large enough to permit ready withdrawal of carrier pipe/cable Mention type of casting. *

NA

V. Ends of the casing/conduit pipe shall be sealed from outside, so that is does not act as a drainage path *

NA

VI. The casing/conduit pipe should be as minimum extend from drain in cuts toe of slope in fills. *

NA

VII. The installation of Casing pipe shall be as per attachment-1 of Ministry's Guidelines dated 22.11.2016 *

NA

VIII. Mention the methodology proposed for crossing of road for the proposed sewerage / gas pipeline crossing shall be boring method (HDD) (Trenchless Technology) specially where the existing road pavement is of cement concrete of dense bituminous concrete type. *

NA

14. Whether the proposal satisfies the following:

I. Where the ROW is more than 45 M then the duct cable shall be laid at the edge of right of way within the utility corridor of 2 M width, duly keeping in view the future widening. *

YES

II. Where land is yet to be acquired for 4 laning and the position of new carriageway has been decided then the cable shall be laid at the edge of right of way within the utility corridor of 2 M width, on that side of existing carriageway where extra land is not proposed to be acquired for 4 laning. *

YES

III. Where the widening plan for 4 laning is not yet decided and available ROW is around 30 M or less, a judicious decision would need to be taken for permitting the laying of cable/duct. This could be within 1.5 M to 2m of utility corridor at the edge of existing ROW, duly keeping in view the possible widening plans. *

YES

IV. Where ROW is restricted and adequate only to accommodate the carriageway, central verge, shoulders and drains (e.g. Highways in cutting through hilly/rolling terrain), the cable shall be laid clear of the drain. *

YES

V. Where land strip for utility corridor can't be conveniently earmarked (available ROW restricted to the toe of the embankment) for laying of cable/ducts, the permission may be refused. *

YES

15. Document/Drawings enclosed with the proposal *

Yes

I. Cross section showing the size of trench for open trenching method (is it normal size of 1.2m (min.) deep x 0.3 wide) *

NA

II. Cross section showing the size of pit and location of cable for HDD method *

NA

III. Strip plan/ Route plan showing the OFC, Chainage width of ROW, distance of proposed, cable from the edge of ROW, important mile stone, intersections, cross drainage works etc. *

NA

IV. Methodology of laying of the Utility Pipeline/OFC *

22kv Over Head for providing uninterrupted power supply-construction of 22kv double circuit transmission line on double circuit tower from the proposed pooling substation

V. Open trenching method (may be allowed in utility corridor only where pavement is neither cement concrete nor dense bituminous concrete type) If yes what is the Methodology of refilling of trench *

NA

(a) The trench width should be at least 30 cms but not more than 60 cms wider than the outer diameter of the pipe *

NA

(b) For filling of the trench, bedding shall be to a depth of not less than 30 cms. It shall consist of granular material, free of lumps, clods, cobbles and graded to yiled firm surface without sudden change in the bearing value, unsuitable soil and rock edges should be excavated and replaced by selected material *

NA

(c) The backfill shall be completed in two stages, i) Side fill to the level of the top of the pipe and ii) Overfill to the bottom of the road crust *

NA

(d) The side fill shall consist of granular material laid in 15 cms, layers each consolidated by mechanical tampering and controlled addition of moisture to 95% of the proctor density. Overfill shall be compacted to the same density as the material that has been removed. *

NA

(e) The road crust shall be built to the same strength as existing crust on either side of the trench. Care shall be taken to avoid the formation of a dip at the trench. *

NA

(f) The excavation shall be protected by flagman, signs and barricades and red lights during night hours. *

NA

(g) If required, a diversion shall be constructed at the expense of agency owing the utility line. *

NA

VI. Horizontal Directional Drilling (HDD) Method *

NA

VII. Laying OFC through CD Works and Method of laying (Whether to be hung outside parapet). *

NA

16. Draft license Agreement signed by two witnesses. *

Yes, Signed

I. The license fee estimate as per Ministry's guidelines issued vide circular no. RW/NH/33044/29/2015/S&R dated 22.11.2016. *

Yes

17. Whether Performance Bank Guarantee is as per Ministry's guidelines issued vide circular no. RW/NH/33044/29/2015/S&R, dated 22.11.2016. *

Yes

I. Confirmation of BG has been obtained as per MoRTH guidelines *

Yes

18. Affidavit/Undertaking from the Applicant for following is to be furnished

a) Undertaking not to Damage to other utility, if damage then to pay the losses either to NHAI or the concerned agency. *

Yes

b) Undertaking Renewal of Bank Guarantee as and when asked by MoRTH. *

Yes

c) Undertaking Confirming all standard condition of Ministry's guidelines. *

Yes

d) Undertaking for indemnity against all damages and claims *

Yes

e) Undertaking for management of traffic movement during laying of utility line without hampering the traffic *

Yes

f) Undertaking that if any claim is raised by the concessionaire/ contractor then the same has to be paid by the applicant. *

Yes

g) Undertaking that prior approval of the NHAI shall be obtained before undertaking any work of installation, shifting or repairs, or alteration to the utility located in the National Highway Right of Ways. *

Yes

h) Undertaking that expenditure is any incurred by NHAI for repairing any damage cause to the NH by laying, maintenance of shifting of the utility line will be borne by the applicant agency owing the line. *

Yes

i) Undertaking that text of the license deal is as per verbatim of format issued by MoRTH vide circular no. RW/NH/33044/29/2015/S&R dated 22.11.2016 *

Yes

j) Undertaking for shifting of utility as and when asked by MoRTH/ NHAI. *

Yes

k) Certificate from the applicant in the following format

l) We do undertake that I/we will relocate service road/approach road/utilities at my/our own cost not withstanding the permission granted within such time as will be stipulated by NHAI for future six laning or/any other development

19. Who will sign the agreement on behalf of Applicant agency? Power of Attorney to sign the agreement is available or not. *

The director, Sree Jayamurugan Alloys Private Limited,

20. The Power of Attorney is in favour of authorized signatory? *

Yes

Locations

Sno	State	District	Highway /Stretch	Start Point	End Point	View
1	TAMIL NADU	SIVAGANGA	NH226 [NH226] (18.00-144.00) From Km: 18 To Km: 144	Chainage Point: 148.4 Lat: 9.750 Lng: 78.459	Chainage Point: 152 Lat: 9.719 Lng: 78.460	View

Documents

Sno	Stage	Document	Mandatory	Action
1	Under Submission	Layout and Drawings	Yes	View
2	Under Submission	Any Other Supporting Document	No	View
3	Under Submission	Any Document to indicate commercial activities are allowed on the land.	No	--
4	Under Submission	Safety Clearance from Directorate of Electricity	No	View
5	Under Submission	Safety Clearance from Chief Controller of Explosives	No	--
6	Under Submission	Safety Clearance from Petroleum and Explosives Safety Organisation	No	--
7	Under Submission	Safety Clearance from Oil Industry Safety Directorate	No	--
8	Under Submission	Safety Clearance from State/Central Pollution Control Board	No	--
9	Under Submission	Any Other Statutory Clearance as applicable	No	--

Applicable Fee Details

Sno	Fee Head	Stage	Fee	Amount	Status
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**ERECTION OF 22 KV ELECTRICAL OVER HEAD TRANSMISSION
LINE WITH POLE ROUTE DIAGRAM**

SECTION

NH-226(New No.NH-36)

(Thirumayam to Manamadurai Section) Along the Road From
Km.148/400 to Km.152/000 (RHS) and Across @ Km.152/000

Total Length of 3600 meters.

APPLICANT:

M/s. SREE JAYAMURUGAN ALLOYS PRIVATE LIMITED,

SF No.329/3,4,5 Ganapathy Nagar,,

Vellalagundam, Salem-635111,

Tamilnadu State

**The Project Director,
National Highways Authority of India
Karaikudi.**

CHECK - LIST

Guidelines for Project Directors for processing the proposal for erection of 22 KV Electrical Over Head Transmission line with Poles in the land across National Highways vested with NHAI.

• **Relevant circulars**

- 1) Ministry Circular No. NH-III/P/66/76 dated 19.11.1976
- 2) Ministry Circular No. RW/NH-III/P/66/76 dated 11.5.1982
- 3) Ministry Circular No. RW/NH-11037/1/86/DOI dated 19.1.1995
- 4) Ministry Circular No. RW/NH-33044/29/2015-S&R (R) dated 22.11.2016

Check list for getting approval for erection of 22 KV Electrical Over Head Transmission line with Pole NH land

S.No.	Item	Information/ Status	Remarks
1	General Information	Erection of 22 KV Electrical Over Head Transmission Line with Pole in NH land	
1.1	Name and Address of the Applicant	M/s. Sree Jayamurugan Alloys Private Limited, SF No.329/3,4,5 Ganapathy Nagar,Vellalagundam, Salem-635111,Tamilnadu State	
1.2	National Highway Number	NH-226(New No.NH-36)	
1.3	State	TamilNadu	
1.4	Location	(Thirumayam to Manamadurai Section)	
1.5	(Chainage in km)	Along the road from Km.148/400 to Km.152/000 (RHS) and Across @ Km.152/000	
1.6	Length in Meter	3600 meters	
1.7	Width of available ROW		
	(a) Left side from center line towards increasing chainage/ km direction	Maximum:17.00 Meter Minimum:15.00 Meters	
	(b) Right side from center line towards increasing chainage/ km direction	Maximum:28.00 Meter Minimum:15.00 Meters	
1.8	Proposal to Electrical Over Head Transmission Line with Pole		
	(a) Left side from center line towards increasing chainage/ km direction	Nil	
	(b) Right side from center line towards increasing chainage/ km direction	Maximum:27.00 Meter Minimum:14.00 Meters	


B. ARUN PRASAD
DGM(T) & Project Director
National Highways Authority of India
PIU - KARAIKUDI

For SREE JAYAMURUGAN ALLOYS (P) LTD


Managing Director

1.9	Proposal to acquire land	-NA-	
	(a) Left side from center line	Nil	
	(b) Right side from center line		
1.10	Whether proposal is in the same side where land is not to be acquired	Land Acquired completed	
	If not then where to erection of Electrical Over Head Transmission Line with Pole	The pole shall be laid at the extreme edge of ROW.	
1.11	Details of already laid services, if any, along the proposed route	Nil	
1.12	Number of lanes (2/ 4/ 6/8 lanes) existing	2 lane with Paved shoulder	
1.13	Proposed Number of lanes (2 lane with paved shoulders/4 / 6/8 lanes)	-	
1.14	Service road existing or not	No	
	If yes then which side		
	(a) Left side from center line	Nil	
	(b) Right side from center line	Nil	
1.15	Proposed Service road	-NA-	
	(a) Left side from center line	-NA-	
	(b) Right side from center line	-NA-	
1.16	Whether proposal to erection of Electrical Over Head Transmission Line with Pole is after the service road or between the service road and main carriageway	Will be laid at the extreme edge of ROW Along utility corridor at ROW edge	
1.17	The permission for erection of Electrical Over Head Transmission Line with Pole shall be considered for approval / rejection based on the Ministry Circulars mentioned as above	Considered for approval based on the Ministries circular	
1.18	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	Yes	The pole shall be erect for overhead only
	(a) Existing drainage structures shall not be allowed to carry the lines.	NA	The pole shall be erect for overhead only
	(b) Is it on a line normal to NH	Yes	



B. ARUN PRASAD
 DGM(T) & Project Director
 National Highways Authority of India
 PIU - KARAIKUDI

(For SREE JAYAMURUGAN MOLES)


 Managing Director

	(c) Crossings shall not be too near the existing structures on the National Highway, the minimum distance being 15 meter. What is the distance from the existing structures	NA	The pole shall be erect for overhead only
	(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.	NA	The pole shall be erect for overhead only
	(e) Ends of the casing/conduit pipe shall be sealed from the outside, so that it does not act as a drainage path.	NA	The pole shall be erect for overhead only
	(f) The casing/conduit pipe should, as minimum extend from drain to drain in cuts and toe of slope toe of slope in the fills.	NA	The pole shall be erect for overhead only
	(g) The top pf 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	The pole shall be erect for overhead only
	(h) Crossing shall be by boring method (HDD) specially where the existing road pavement is of cement concrete or dense bituminous concrete type.	NA	The pole shall be erect for overhead only
	(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	The pole shall be erect for overhead only
2	Document / Drawings enclosed with the proposal	Yes	

For SREE JAYAMURUGAN ALLOYS (P) LTD


B. ARUN PRASAD
 DGM(T) & Project Director
 National Highways Authority of India
 PIU - KARAIKUDI


 Managing Director

2.1	<p>Cross section showing the size of trench for open trenching method (Is it normal size of 1.2m deepX 0.3m wide)</p> <p>(i) Should not be greater than 60 Cm wider than the outer diameter of the pipe</p> <p>(ii) located as close to the extreme edge of the right-of-way as possible but not less than 15 meter from the centre-lines of the nearest carriageway</p> <p>(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</p> <p>(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.</p>	NA	The pole shall be erect for overhead only
2.2	Cross section showing the size of pit and location of cable for HDD method	NA	The pole shall be erect for overhead only
2.3	Strip plan/ Route Plan showing erection of Electrical Over Head Transmission Line with Pole, Chainage, width of ROW, distance of proposed, pole from the edge of ROW, important mile stone, intersections, cross drainage works etc.	Yes	
2.4	Methodology for erection of Electrical Over Head Transmission Line with Pole	22kv Over Head for providing uninterrupted power supply- construction of 22kv double circuit transmission line on double circuit tower from the proposed pooling substation	
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	The pole shall be erect for overhead only
	(a) The trench width should be at least 30 cm, but not more than	NA	The pole shall be erect


BARUN PRASAD
 DGM(T) & Project Director
 National Highways Authority of India
 PIU - KARAUKUDI

For SREE JAYAMURUGAN ALLOYS (P) LTD


Managing Director

	60 cm wider than the outer diameter of the pipe		for overhead only
	(b) For filling of the trench, 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 selected material.	NA	The pole shall be erect for overhead only
	(c) The backfill shall be completed in two stages (i) side - fill to the level of the top of the pipe and (ii) overfill to the bottom of the road crust.	NA	The pole shall be erect for overhead only
	(d) The side fill shall consist of granular material laid in 15 cm layers each consolidated by mechanical tampering and controlled addition of moisture to 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. (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 dip at the trench.	NA	The pole shall be erect for overhead only
	(f) The excavation shall be protected by flagman, signs and barricades, and red lights during night hours.	NA	The pole shall be erect for overhead only
	(g) If required, a diversion shall be constructed at the expense of agency owning the utility line	NA	The pole shall be erect for overhead only
2.4.2	Horizontal Directional Drilling (HDD) Method	NA	The pole shall be erect for overhead only
2.4.3	Erection of Electrical Over Head Transmission Line with Pole through CD works and method of laying	No	



B. ARUN PRASAD
DGM(T) & Project Director
National Highways Authority of India

For SREE JAYAMURUGAN ALLOYS (P) LTD



Managing Director

3	Draft License Agreement signed by two witnesses	Yes,Signed	
4	Performance Bank Guarantee in favor of NHAI has to be obtained @ Rs. 100/- per running meter (parallel to NH) and Rs1,00,000/- per crossing of NH, for a period of one year initially (extendable if required till satisfactory completion of work) as a security for ensuring/making good the excavated trench for laying the cables/ducts by proper filling and compaction, clearing debris/loose earth produced due to execution of trenching at least 50m away from the edge of the right of way. No payment shall be payable by the NHAI to the licensee for clearing debris/loose earth.	Applicable at later date	
4.1	Performance BG as per above is to be obtained.	Applicable at later date	
4.2	Confirmation of BG has been obtained as per NHAI guidelines	To be obtained at the time of execution of agreement	
5	Affidavit / Undertaking from the Applicant for	Undertaking is enclosed herewith	
5.1	Not to Damage to other utility, if damaged then to pay the losses either to NHAI or to the concerned agency	Yes	
5.2	Renewal of Bank Guarantee	Yes will be obtained after submission of BG	
5.3	Confirming all standard condition of NHAI's guideline	Yes	
5.4	Shifting of erection of Electrical Over Head Transmission Line with Pole and 100KV Transformer as and when required by NHAI at their own cost	Yes	
5.5	Shifting due to 6 lanning / widening of NH	Yes	
5.6	Indemnity against all damages and claims clause (xxiv)	Yes	
5.7	Traffic movement during laying of erection of Electrical Over Head Transmission Line with Pole to be managed by the applicant	Yes	
5.8	If any claim is raised by the		


B. ARUN PRASAD
 DGM(T) & Project Director
 National Highways Authority of India
 BIL KAPAKUDI

For SREE JAYAMURUGAN ALLOYS (P) LTD 
Managing Director

	Concessionaire then the same has to be paid by the applicant	Yes	
5.9	Prior approval of the NHAI shall be obtained before undertaking any work of installation, shifting or repairs, or alterations to the erection of Electrical Over Head Transmission Line with Pole located in the National highway right-of-ways.	Yes	
5.10	Expenditure, if any, incurred by NHAI for repairing any damage caused to the National Highway by the laying, maintenance or shifting of the erection of 22 KV Electrical Over Head Transmission Line with Pole 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 cost of 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) <i>Laying of erection of Electrical Over Head Transmission Line with Pole will not have any deleterious effects on any of the bridge components and roadway safety for traffic.</i> (ii) for 4/6 -laning <i>"We do undertake that I will relocate service road/approach road/utilities at my own cost notwithstanding the permission granted within such time as will be stipulated by NHAI" for future four/six- laning or any other development."</i>	Yes	



B. ARUN PRASAD
DGM(T) & Project Director
National Highways Authority of India
PIU - KARAIKUDI


For SREE JAYAMURUGAN ALLOYS (P) LTD



Managing Director

	agreement. <i>"The permitted Highway on which Licensee has been granted the right to erection of Electrical Over Head Transmission Line with Pole has also been granted as a right of way to the concessionaire under the concession agreement for up-gradation of [Thirumayam to Manamadurai Section Km:148/4000 to Km:152/000 (RHS) and Across at Km:152/000 of NH No.226(New No.NH-36) on Build, Operate and Transfer Basis] and therefore, the licensee shall honour the same."</i>	Yes	
9	Who will supervise the work of erection of Electrical Over Head Transmission Line with Pole	Concessionaire/ Consultant/NHAI	
10	Who will ensure that the defects in road portion after laying of erection of Electrical Over Head Transmission Line with Pole are corrected and if not corrected then what action will be taken.	Concessionaire/ Consultant	
11	Who will pay the claims for damages done/disruption in working of Concessionaire if asked by the Concessionaire.	M/s. Sree Jayamurugan Alloys Private Limited, SF No.329/3,4,5 Ganapathy Nagar,Vellalagundam, Salem-635111,Tamilnadu State	
12	A certificate from PD that he will enter the proposed permission in the register of records of the permissions in the prescribed proforma (copy enclosed)	Yes	
13	If any previous approval is accorded for erection of Electrical Over Head Transmission Line with Pole then Photocopy of register of records of permissions accorded as maintained by PD may be enclosed.	Yes	

[For SREE JAYAMURUGAN ALLOYS (P) LTD


B. ARUN PRASAD
DGM(T) & Project Director
National Highways Authority of India
PIU - KARAUKUDI


Managing Director


Project Director
NHAI - PIU
National Highways Authority of India
PIU - KARAUKUDI

PROPOSED FOR ERECTION OF 22 KV ELECTRICAL OVER HEAD TRANSMISSION LINE
NH-226(NEW NO.NH-36)
(THIRUMAYAM TO MANAMADURAI SECTION) ALONG THE ROAD FROM
KM.148/400 TO KM.152/000 (RHS) AND ACROSS @ KM.152/000

GENERAL CHECK LIST


1	Whether the site plan is drawn to a scale of 1:2500 or 1:1000 and enclosed	:	N T S
2	Whether the details for 100m either side of the utility laying have been furnished	:	Yes
3	Does the plan is shown in full	:	Yes
	a. NH boundary line with distance from center line of the road marked at salient points where the land width is changing and also at 100m interval.	:	Marked in the plan
	b. The berm, line distance from center line at 100m intervals and also salient points of change of widths of NH land	:	Marked in the plan
	c. Center line of pavement and parent edger	:	Yes
	d. Median if any marked to scale	:	----
	e. The locations of the utility line of proposal with Change showing exact location and distance from NH center line	:	Yes
	f. The existing culverts / drainage works with Diversions	:	Yes
A	Purpose of the proposal in details	:	Erection of 22kv Over Head line for providing uninterrupted power supply for new solar powerplant
B	Exact location of the proposal	:	NH-226(New No.NH-36) Thirumayam to Manamadurai Section) Along the road from Km.148/400 to Km.152/000 (RHS) and Across @ Km.152/000
C	Whether the applicant is private agency or Govt. Agency	:	Private Agency
D	Any time schedule fixed for the completion of the proposal made	:	As quickly as possible
E	Reason why the proposal could not be accommodate outside	:	Not feasible to Lay the cable
F	Whether any other location other than this difficult or costly	:	Difficult and not possible

For SREE JAYAMURUGAN ALLOYS (P) LTD


BARUN PRASAD
DGM(T) & Project Director
National Highways Authority of India
PIU - KARAUKUDI


Managing Director

G	Whether the proposal, if implemented now will affect any likely future improvements, in this stretch of likely to be sanctioned in the near Future whether they will be affected by	:	No, it will not affect
H	Whether the proposal, if implemented, will affect the design stability and traffic safety of national Highways	:	No
I	Whether the proposal, if implemented now will affect any likely future improvement, such as improvements in geometric	:	NIL
J	If there any proposal for improvements, in this stretch of likely to be sanctioned in the near future where they will be affected by this	:	No


B. ARUN PRASAD
 DGM(T) & Project Director
 National Highways Authority of India
 PIU - KARAIKUDI

For SREE JAYAMURUGAN ALLOYS (P) LTD


Managing Director

CERTIFICATE

1. This proposal when implemented will not affect the design stability and Traffic Safety of Highways.
2. This proposal if implemented now will not affect any likely future improvements such as improvements to geometric.
3. The proposal is in accordance with the Government of India's specifications.
4. The Applicant is instructed to adopt trenchless technology method for laying the stretches where available ROW is less than 15 mtrs.
5. The Applicant has not laid the proposed XLPE UG Cable in the proposed stretches so far.
6. The proposal is in accordance with the specification laid down by the ministry of surface transport making any inconvenience for the traffic through the road.

For SREE JAYAMURUGAN ALLOYS (P) LTD

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Managing Director

Annexure-I

Conditions to be enclosed/incorporated in the approval letter for permission for erection of Electrical Over Head Transmission Line with Pole

1. The erection of 22 KV Electrical Over Head Transmission Line with Pole shall be located as close to the extreme edge of the right-of-way as possible but not less than 15 meter from the centre-lines of the nearest carriageway.
2. The erection of 22 KV Electrical Over Head Transmission Line with Pole 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 without the prior approval of NHAI/Government of India.
3. The erection of 22 KV Electrical Over Head Transmission Line with Pole shall be so placed that at no time there is interference with the maintenance of the National Highways.
4. These should be so erect that their top is at least 11 meter above the existing road.
5. The authority/ owner of the underground utility shall ensure that erect an eclectic cable carrying high tension lines should not have any deleterious effects on any of the bridge components and roadway safety for traffic.
6. The lines shall cross the National Highways preferably on a line normal to it or as nearly so as practicable.
7. Crossings shall not be too near the existing structures on the National Highway, the minimum distance being 15 meter.
8. The erection of 22 KV Electrical Over Head Transmission Line with Pole is permitted to cross the National Highway, either encased in pipes or through structure of conduits specially built for that purpose at the expense of the agency owning the line. Existing drainage structures shall not be allowed to carry the lines across.
9. The casing/conduit pipe should, as minimum extend from drain to drain in cuts and toe of slope toe of slope in the fills.
10. The top pf 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.
11. The casing/conduit pipe may be installed under the road embankment either by boring or digging a trench. Installation by boring method shall only be permitted where the existing road pavement is of cement concrete or dense bituminous concrete type.
12. 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.
13. Open trenching method. (May be allowed in utility corridor only where pavement is neither cement concrete nor dense bituminous concrete type)
 - (a) The sides of the trench should be done as nearly vertical as possible. The trench width should be at least 30 cm, but not more than 60 cm wider than the outer diameter of the pipe.
 - (b) Filling of the trench shall conform to the specifications contained herein below.

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- (c) 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 selected material.
- (d) The backfill shall be completed in two stages (i) side - fill to the level of the top of the pipe and (ii) overfill to the bottom of the road crust.
- (e) The side fill shall consist of granular material laid in 15 cm 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.
- (f) The road crust shall be built to the same strength as the existing crust on either side of the trench or to thickness and specifications stipulated by the Highways Authority. Care shall be taken to avoid the formation of a dip at the trench.
- (g) The excavation shall be protected by flagman, signs and barricades, and red lights during night hours.
14. If needed, a diversion shall be constructed at the expense of agency owning the erection of 33 KV Electrical Line with Pole.
15. Prior approval of the NHAI shall be obtained before undertaking any work of installation, shifting or repairs, or alterations to the erection of 22 KV Electrical Over Head Transmission Line with Pole located in the National highway right-of-ways.
16. Expenditure, if any, incurred by the Highway Authority for repairing any damage caused to the National Highway by the laying, maintenance or shifting of the erection of 22 KV Electrical Over Head Transmission Line with Pole will be borne by the agency owning the erection of 33 KV Electrical Line with Pole.
17. If the NHAI considers it necessary in future to move the erection of 22 KV Electrical Over Head Transmission Line with Pole for any work of improvement of repairs to the road, it will be carried out as desired by the Highway Authority at the cost of the agency owning the erection of 22 KV Electrical Over Head Transmission Line with Pole within a reasonable time (not exceeding 60 days) of the intimation given.
18. The licensee shall ensure making good the excavated trench for laying cables by proper filling and compaction, so as to restore the land in to the same conditions as it was before digging the trench, clearing debris/loose earth produced due to execution of trenching at least 50m away from the edge of the right of way.
19. The licensee shall furnish a Bank Guarantee to the NHAI @ Rs...../- per running meter (parallel to NH) and Rs1,00,000/- per crossing of NH, for a period of one year initially (extendable if required till satisfactory completion of work) as a security for ensuring/making good the excavated trench for laying the cables/ducts by proper filling and compaction, clearing debris/loose earth produced due to execution of trenching at least 50m away from the edge of the right of way. No payment shall be payable by the NHAI to the licensee for clearing debris/loose earth.
20. In case the work contemplated herewith is not completed to the satisfaction of the NHAI, which has granted the permission, within a period of 11 months from the date of issue of the bank guarantee, the licensee shall either furnish a fresh guarantee or extend the guarantee for a further period of one year. In

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case of the licensee failing to discharge the obligation of making good the excavated trench, the NHAI shall have a right to make good the damages caused by excavation, at the cost of the licensee and recover the amount by invoking the bank guarantee furnished by the licensee.

21. The licensee shall shift the cables/ducts within 60 days (or as specified by the respective agency/owner) from the date of issue of the notice by the NHAI, Govt. of India to shift/relocate the cables/ducts, in case it is so required for the purpose of improvement/widening of the road/route/highway or construction of flyover/bridges and restore the road/land to its original condition at his own cost and risk.
22. Regarding the location of other cables, underground installation/utilities etc, the licensee shall be responsible to ascertain from the respective agency in coordination with NHAI. The licensee shall ensure the safety and security of already existing cables/underground installation/utilities facilities etc. before commencement of the excavation.
23. The licensee shall be solely responsible/ liable for full compensation/indemnification of concerned agency/aggrieved owner for any direct, indirect or consequential damage caused to them/claims or replacement sought for, at the cost and risk of the licensee. The concerned agency in co-ordination with NHAI shall also have a right to make good such damages/recover the claims by way of invoking of Bank Guarantee furnished by the licensee.
24. If the licensee fails to comply with the condition 22 and 23 above to the satisfaction of the NHAI, the same shall be got executed by the NHAI at the risk and cost of the licensee.
25. The licensee shall procure insurance from reputed insurance company against damages to already existing cables/underground installation/utilities/facilities etc during trenching.
26. The licensee has to cross the NH by horizontal drilling method (trenchless technology only). In case any damage is caused to the road pavement in this process, the licensee will be required to restore the same to the original condition at his own cost.
27. No trenching will be done on pucca road, boring method will be used in pucca road and cable will be laid at the extreme edge of the road in the non-BT surface only.
28. The licensee shall inform/give a notice to the NHAI, Govt. of India or its authorized agency at least 15 days in advance with route details prior to digging trenches for fresh or maintenance/repair work. A separate work plan and a separate performance Bank Guarantee @ Rs...../- per meter length for maintenance/ repair work shall have to be furnished by the licensee.
29. Each day, the extent of digging the trenches should be strictly regulated so that cables are laid and trenches filled up before the close of the work that day. Filling should be completed to the satisfaction of the concerned agency designated by the NHAI.
30. The licensee shall indemnify the concerned agency in co-ordination with NHAI, against all damages and claims, if any, due to the digging of trenches for laying cables/ducts.

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31. The NHAI has a right to terminate the permission or to extend the period of agreement. In case the licensee wants shifting, repairs or alteration to telecom cables/ducts, he will have to furnish a separate bank guarantee.
32. The licensee shall not without prior permission in writing from the NHAI Govt. of India or its authorized agency undertake any work of shifting, repairs or alterations to the said telecom cables/ducts.
33. The permission granted shall not in any way be deemed to convey to the licensee any ownership right or any interest in route/road/highway/ land/ property, other than what is herein expressly granted.
34. During the subsistence of this agreement, the laying erection of 33 KV Electrical Line with Pole/ducts located in highway land/property shall be deemed to have been constructed and continued only by the consent and permission of the NHAI so that the right of the licensee to the use thereof shall not become absolute and indefeasible by laps of time.
35. The licensee shall bear the stamp duty charged for the agreement.
36. The erection of 22 KV Electrical Over Head Transmission Line with Pole shall not be brought in to use by the licensee unless a completion certificate to the effect that the erection of 22 KV Electrical Over Head Transmission Line with Pole has been laid in accordance with the approved specifications and drawings and the trenches have been filled up to the satisfactions of the concerned agency in co-ordination with the owner has been obtained.
37. Not with standing anything NHAI contained herein this agreement may be cancelled at any time by the or breach of any condition of the same and the licensee shall neither be entitled to any compensation for any loss caused to it by such cancellation nor shall it be absolved from any liability already incurred.
38. The licensee shall have to provide barricading, danger lighting and other necessary caution boards while executing the work and during maintenance.
39. If any traffic diversion works are found necessary during the working period such diversion shall be provided at the cost of licensee.
40. After the termination/expiry of the agreement, the licensee shall remove the cables/ducts within 60 days and the site shall be brought back to the original condition failing which the licensee will lose the right to remove the cables/ducts. However, before taking up the work of removal of cables the licensee shall furnish a bank guarantee to the owner for a period of one year for an amount assessed by the owner for making good the excavated trench by proper filling and compaction, clearing debris, loose earth produced due to excavation of trenching at least 50m away from the edge of the right of way.
41. If NHAI is required to do some emergent work the licensee will provide an observer within 24 hours. NHAI will not be responsible for any damage of any kind by what so ever means natural or otherwise.
42. The enforceability of the Right-of Way permission granted here in shall be restricted to the extent of provisions/scope of service contained/defined in the license agreement and for the purpose for which it is granted. Either by content or by intent, the purpose extending this Right-of Way facility is not to enhance the scope.
43. Strict compliance of the following by the Project Director:

For SREE JAYAMURUGAN ALLOYS (P) LTD


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- a) If the licensee fails to inform the commencement of laying of erection of 22 KV Electrical Over Head Transmission Line with Pole 15 days before the actual start of the work at site the agreement should be null and void.
- b) It is to be intimated to the HQ that, actual work has already been started at the site as per the provision of the agreement and the conditions stipulated in the Ministry Circular No. NH-III/P/66/76 dated 19.11.1976, Ministry Circular No. RW/NH-III/P/66/76 dated 11.5.1982 and Ministry Circular No. RW/NH-11037/1/86/DOI dated 19.1.1995 and Ministry Circular No. RW/NH-33044/29/2015-S&R (R) dated 22.11.2016.
- c) An interim execution progress report /status report shall be submitted to NHAI HQ after one month of the start of the work at site, regarding the satisfactory progress of the laying of erection of 33 KV Electrical Line with Pole, as per the specification/stipulation and the alignment as approved.
- d) The final completion certificate shall be issued/submitted by PD to the HQ to the effect that, the work has been completed to the entire satisfaction of the Project Director and there were no violation of any condition / stipulation contained in the agreement, Ministry Circular No. NH-III/P/66/76 dated 19.11.1976, Ministry Circular No. RW/NH-III/P/66/76 dated 11.5.1982 and Ministry Circular No. RW/NH-11037/1/86/DOI dated 19.1.1995, Ministry Circular No. RW/NH-33044/29/2015-S&R (R) dated 22.11.2016 and the approved plan.
- e) To obtain a performance bank guaranty @ Rs./- per running meter of NH and Rs.1,00,000/- per crossing of NH from the licensee to safe guard the interest of NHAI.
- f) Proposal for permission along NH Sections which are proposed to be taken up by NHAI for development through private sector participation on BOT basis, following clause should be inserted in the agreement.
- “ The permitted Highway on which Licensee has been granted the right to lay cable/duct has also been granted as a right of way to the concessionaire under the concession agreement for up-gradation of ----- section from Km -----to Km -----of NH No-----on Build, Operate and Transfer Basis and therefore, the licensee shall honour the same.”*
- g) A register of records of the permissions accorded has to be maintained by the PD in the prescribed proforma (copy enclosed)
- h) Project Director is authorized to sign an agreement (IN ACCORDANCE WITH THE MODEL AGREEMENT) with the applicant, on behalf of NHAI.

[For SREE JAYAMURUGAN ALLOYS (P) LTD


Managing Director



தமிழ்நாடு தமிழ்நாடு TAMILNADU

07-03-2013

DA 204203

M/s. Sree Jayamurugan
Alloys Private Ltd, Salem

மு.செந்தில, ஸ்டாம்பு வெண்டி,
தாலுக்கா ஆபிஸ் எதிரில், (குடலக் மாடிக்
37, கச்சேரி ரோடு, ஈரோடு -1.
தமிழ்நாடு.உரிமம் எண் : 4506/B1/91

AGREEMENT REGARDING GRANTING OF RIGHT OF WAY PERMISSIONS
FOR LAYING UTILITY SERVICES ON NATIONAL HIGHWAYS

Agreement to erection of 22 KV Electrical Over Head Transmission line with Poles in NH-226(New No.NH-36)along the road from Km.148/400 to Km.152/000 (RHS) and Across @ Km.152/000 for a total length of 3.60 Km of Thirumayam to Manamadurai Section in the state of Tamil Nadu, National Highways, Karaikudi.

This Agreement made this _____ day of _____ (month)_____ of (year) between _____ acting in his executive capacity through _____ (hereinafter referred to as the "Authority" which expression shall unless excluded by or repugnant to the context include his successors in office and assigns) on the one part, an M/s. Sree Jayamurugan Alloys Private Limited, SF No. 329/3,4,5 Ganapathy Nagar, Vellalagundam, Salem-635111, Tamilnadu State, (hereinafter called the "Licensee") which expression shall unless excluded by repugnant to the context, include his successors / administrator assignees on the second part.

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Whereas the Authority is responsible, inter-alia, for development and maintenance of lands in NH-226(New No.NH-36)along the road from Km.148/400 to Km.152/000 (RHS) and Across @ Km.152/000 for a total length of 3.60 Km of Thirumayam to Manamadurai Section in the state of Tamil Nadu, National Highways, Karaikudi.

Whereas the Licensee Proposes to lay Telecom cable / OFC cable / electrical cable Line / Pipe line / ducts etc., referred to as utility services in subsequent paras.

Whereas the Licensee has applied to the Authority for permission to lay utility services in NH-226(New No.NH-36)along the road from Km.148/400 to Km.152/000 (RHS) and Across @ Km.152/000 for a total length of 3.60 Km of Thirumayam to Manamadurai Section in the state of Tamil Nadu, National Highways, Karaikudi.

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

Now this agreement witnesseth that in consideration of the conditions hereinafter contained and on the part of the Licensee to be observed and performed, the Authority hereby grants to the Licensee permissions to lay utility services as per the approved drawing attached hereto subject to the following conditions, namely:

1. Row permissions are only enabling in nature. The purpose of extending the way leave facility on the National Highway. Row is not for enhancing the scope of activity of a utility service provider, either by content or by intent. Further, enforceability of the permission so granted shall be restricted only to the extent of provisions / scope of activities defined in the license agreement & for the purpose for which it is granted.
2. No Licensee shall claim exclusive right on the Row and any subsequent user will be permitted to use the Row, either above or below, or by the side of the utilities laid by the first user, subject to technical requirements being fulfilled, Decision of the Authority in relation to fulfilment of technical requirements shall be final and Binding on all concerned parties. In case any disruption / damage is caused to any existing user by the subsequent user, the Authority shall not be held accountable or liable in any manner.
3. The Licensee shall be responsible for undertaking all activities including, but not limited to site identification, survey, design, engineering, arranging, finance, project management, obtaining regulatory approvals & necessary clearances, supply of equipment material, construction, erection, testing and commissioning, maintenance and operation and all other activities essential or required for efficient functioning of their own utility industrial infrastructure facilities.
4. The Licensee shall pay license fees @ Rs./sq m/month to the Authority. The Licensee fee shall become payable from the date of handing over of Row land to the Licensee, for laying of utilities/electrical cables lines/conduits/pipelines for infrastructure/ service provider. As regards Tariff

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and Terms and conditions for providing common utility ducts along National Highways, there shall be a separate agreement regime.

5. Fee shall have to be paid in advance for the period for which permission is granted for entering into a license agreement. In case of renewal, rate prevailing at the time of renewal shall be charged. Delay in deposition of fee shall attract interest @15% per annum compounded annually.
6. Present policy of the MoRT&H is to provide a 2.00 m a wide utility corridor on either side of the extreme edge of Row. In cases where utility ducts with sufficient space are already available along NH, the utility services shall be laid in such ducts subject to technical requirements being fulfilled.
7. The Utility services shall be laid at the edge of the RoW. In case of restricted width of RoW, which may be adequate only to accommodate the carriageway, central verge, shoulders, slopes of embankment , drains, other road side furniture etc: the utility services shall be laid beyond the toe line of the embankments and clear of the drain.
8. The Licensee shall make his own arrangement for crossing of cross drainage structure, rivers, etc. below the bed. In case, this is not feasible, the utility services may be carried outside the railings/ parapets and the bridge superstructure. The fixing and supporting arrangement with all details shall be required to be approved in advance from the concerned Highway Administration. Additional cost on account of fixing and supporting arrangement as assessed by the authority shall be payable by the Licensee.
9. In exceptional cases, where RoW is restricted the utility services can be allowed beneath the carriageway of service road, if available, subject to the condition that the utility services be laid in concrete ducts, which will be designed to carry traffic on top. The width of the duct shall not be less than one lane. In such cases, it also needs to ensure that maintenance of the utility services shall not interfere with the safe and smooth flow of traffic. The cost of operation and maintenance will have to be borne by the Licensee.
10. It is to be ensured that at no time there is interference with the drainage of the road land and maintenance of the National Highways. Towards this, the top of the utility services shall be at least 0.6 metre below the ground level. However any structure above ground shall be aesthetically provided for / landscaped with required safety measures as directed by the concerned Authority.
11. The utility services shall be permitted to cross the National Highway either through structure or conduits specially built for that purpose. The casing /conduit pipe should, as minimum, extend from drain to drain in cuts and toe of slope to toe of slope in the fills and shall be designed in accordance with the provision of IRC and executed following the specifications of the Ministry.

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12. Existing drainage structures shall not be allowed to carry the lines across.
13. The top of the electrical cable line containing the utility services to cross the road shall be at least 11m top of the existing road level whichever is lower. A typical sketch showing the clearances is given in Attachment-I.
14. The utility services shall cross the National Highway preferable on a line normal to it or as nearly so as practicable.
15. The casing/conduit pipe for crossing the road may be installed under the road embankment either by boring or digging a trench. Installation by boring method shall be preferred.
16. In case of trenching, the sides of the trench should be done as nearly vertical as possible. The trench width should be at least 30cm. but not more than 60cms wider than the outer diameter of the pipe. Filling of the trench shall conform to the specifications contained here-in-below or as supplied by the Highway Authority.
- i. Bedding shall be to a depth not less than 30cm. it shall consist of granular material, free of lumps, clods and cobbles, and graded to yield a firm surface without sudden change in the bearing value. Unsuitable soil and rock edges should be excavated and replaced by selected material.
 - ii. The backfill shall be completed in two stages (i) side-fill to the level of the top of the pipe (ii) Overfill to the bottom of the road crust.
 - iii. The side fill shall consist of granular material laid in 15cm. Layers each consolidated by mechanical tamping and controlled addition of moisture to 95% of the Proctor's Density. Overfill shall be compacted to the same density as the material that has been removed. Consolidation by saturation or ponding will not be permitted.
 - iv. The road crust shall be built to the same strength as the existing crust on either side of the trench or to thickness and specifications stipulated by the highway Authority.
17. The Licensee shall ensure making good the excavated trench for laying utility services by proper filling and compaction, so as to restore the land in to the same condition as it was before digging the trench, clearing debris/loose earth produced due to execution of trenching at least 50m away from the edge of the right of way.

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18. All required restoration work subsequent to laying of the cable shall be required to be undertaken by the Licensee at its cost either by itself or through its authorized representative in consultation with the authority as per predetermined time schedule and quality standards.
19. Prior to commencement of any work on the ground, a performance Bank guarantee @Rs. Per route metre /Rs per sq m with a validity of one year initially (extendable if required till satisfactory completion of work) shall have to be furnished by the Licensee to the Authority its designated agency as a security against improper restoration of ground in terms of filling / unsatisfactory compaction damages caused to other underground installations utility services & interference, interruption, disruption, or failure caused thereof any services etc. in case of licensee failing to discharge the obligation of making good of the excavated trench/other restoration work, the Authority shall have a right to make good the damages caused by excavation, at the cost of the Licensee and recover the amount by forfeiture of the Bank Guarantee.
20. In case, the Performance Bank guarantee is invoked as mentioned above, the Licensee shall be required to replenish and reinstate the required Performance Bank Guarantee within one month of such invoking. In case the work contemplated herein is not completed to the satisfaction of the Authority, which has granted the permission, within a period of 11 months from the date of issue of the Bank Guarantee, the Licensee shall either furnish a fresh guarantee or extend the guarantee for a further period of one year. Notwithstanding this, the Licensee shall be liable to pay full compensation to the aggrieved Authority/its designated agency for any damage sustained by them by reason of the exercise of the RoW facility.
21. The Licensee shall shift the utility services within 90 days (or as specified by the respective authority) from the date of issue of the notice by the concerned authority to shift/relocate the utility services, in case it is so required for the purpose of improvement/widening of the road/route/highway or construction of flyover/bridge and restore the road/land to its original condition at his own cost and risk.
22. The Licensee shall be responsible to ascertain from the respective agency in co-ordination with Authority, regarding the location of other utilities/underground installations/facilities etc. The Licensee shall ensure the safety and security of already existing underground installations / utilities / facilities etc. before commencement of the excavation /using the existing cable ducts. The Licensee shall procure insurance from a reputed insurance company against damages to already existing underground installations/utilities/facilities etc.
23. The Licensee shall be solely responsible / liable for full compensation/indemnification of concerned agency / aggrieved Authority for

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any direct, indirect or consequential damage caused to them / claims or replacements sought for, at the cost and risk of the Licensee. The concerned agency in co-ordination with Authority shall also have a right make good such damages/recover the claims by forfeiture of Bank Guarantee.

24. If the licensee fails to comply with any condition to the satisfaction of the Authority, the same shall be executed by the Authority at the cost and risk of the Licensee.
25. Grant of Licensee is subject to the Licensee satisfying (a) minimum disruption of traffic and (b) no damage to the highways. As far as possible, the Licensee should avoid cutting of the road for crossing highway, and other roads and try to carry out the work by trenchless technology. In case any damage is caused to the road pavement in this process, the Licensee will be required to restore the road to the original condition at its cost. If due to unavoidable reasons the road needs to be cut for crossing or laying utility services, the Licensee has to execute the restoration work in a time bound manner at its cost either by itself or through its authorised representative in consultation with the Authority as per predetermined time schedule and quality standards. In case of the Licensee failing to discharge the obligation of making good of the excavated trench/other restoration work, the Authority shall have a right to make good the damages caused by excavation, at the cost of the Licensee and recover the amount by forfeiture of the Bank Guarantee.
26. The Licensee shall inform/give a notice to the concerned agency designated by the Authority at least 15 day in advance with route details prior to digging trenches, for fresh or maintenance/repair works. A separate performance Bank guarantee for maintenance/repair works shall have to be furnished by the Licensee.
27. Each day, the extent of digging the trenches should be strictly regulated so that utility services is laid and trenches filled up before the close of the work that day, filling should be completed to the satisfaction of the concerned agency designated by the Authority.
28. The Licensee shall indemnify the concerned agency in co- ordination with Authority, against all damages and claims, if any due to the digging of trenches for laying cables/ducts.
29. The permission for laying utility services is granted maximum for 5 years at a time, which can thereafter be considered for renewal. On payment of additional fee at the time of renewal, the permission shall automatically be renewed, unless defaults exist. In case of renewal, rate prevailing at the time of renewal shall be charged. Delay in deposition of fee shall attract interest @ 15% per annum compounded annually.

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30. The permission shall be valid only for it is issued and fee deposited. However, the Authority also has a right to terminate the permission or to extend the period of Agreement.
31. That the Licensee shall not undertake any work of shifting, repairs or alterations to the utility services without prior written permission of the concerned agency in co-ordination with the Authority.
32. The permission granted shall not in any way be deemed to convey to the Licensee any ownership right or any interest in route/road/highway/and/property. Other than what is herein expressly granted. No use of NHRoW will be permitted for any purpose other than that specified in the Agreement.
33. During the subsistence of this Agreement, the utility services located in highway land / property shall be deemed to have been constructed and continued only by the consent and permission of the Authority so that the right of the Licensee to the use thereof shall not become absolute and indefeasible by lapse of time.
34. The Licensee shall bear the Stamp Duty charged on this Agreement.
35. Three copies of 'as laid drawings' of utilities (hard and soft copies) with geo-tagged photographs and geo-tagged video recordings of laying of cables in the trench (with respect to the NH) and after complete restoration shall be submitted to the Authority for verification and record within a month of completion of works.
36. The Licensee shall allow free access to the Site at all times to the authorised representatives of Authority to inspect the Project Facilities and to investigate any matter within their Authority, and upon reasonable notice, shall provide reasonable assistance necessary to carry out their respective duties and functions.
37. The Utility services shall not be made operational by the Licensee unless a completion certificate to the effect that the utility services has been laid in accordance with the approved specifications and drawings and the trenches have been filled up to the satisfaction of the concerned agency in co-ordination with the Authority has been obtained. Notwithstanding anything contained herein, this Agreement may be cancelled at any time by Authority for breach of any condition of the same and the Licensee shall neither be entitled to any compensation for any loss caused to it by such cancellations nor shall it be absolved from any liability already incurred.
38. The Licensee shall ensure adherence to relevant Indian standards and follow best industry practices, methods and standards for the purpose of ensuring the safe, efficient and economic design, construction, commissioning, operation

For SREE JAYAMURUGAN ALLOYS (P) LTD


Managing Director

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

- a. Operation, repair and maintenance guidelines given by the manufacturers.
 - b. The requirements of Law.
 - c. The physical conditions at the Site, and
 - d. The safety of operating personnel and human beings.
39. The Licensee shall have to provide safety measures like barricading, danger lighting and other necessary caution boards while executing the work.
40. While laying utility services, at least one lane of road shall be kept open to traffic at all times. In case of single lane roads, a diversion shall be constructed. If any traffic diversion works are found necessary during the working period such diversion shall be provided at the cost of Licensee.
41. After the termination/expiry of the agreement, the Licensee shall remove the utility services within 90 days and the site shall be bought back to the original condition failing which the Licensee will lose the right to remove the utility services. However before taking up the work of removal of utility services the Licensee shall furnish a Bank Guarantee to the Authority for a period of one year for an amount assessed by the Authority as a security for making good the excavated trench by proper filling and compaction, clearing debris, loose earth produced due to excavation of trenching at least 50m away from the edge of the RoW.
42. Any disputes in interpretation of the terms and condition of this agreement or their implementation shall be referred to the redress mechanism prevailing in the ministry and the decision of the redress mechanism shall be final and binding on all.
43. For PPP Projects, in case of any financial loss incurred by the respective project concessionaires due to such laying/shifting of utility services by the Licensee, compensation for the same shall be required to be borne by the Licensee in Mutual agreement with the respective project concessionaires. MoRT&H/NHAI/implementing authorities for the project shall not be liable to the concessionaire in any way in this regard.

This agreement has been made in duplicate, each on a stamp paper, each Party to this Agreement has retained one stamped copy each.

For SREE JAYAMURUGAN ALLOYS (P) LTD


Managing Director

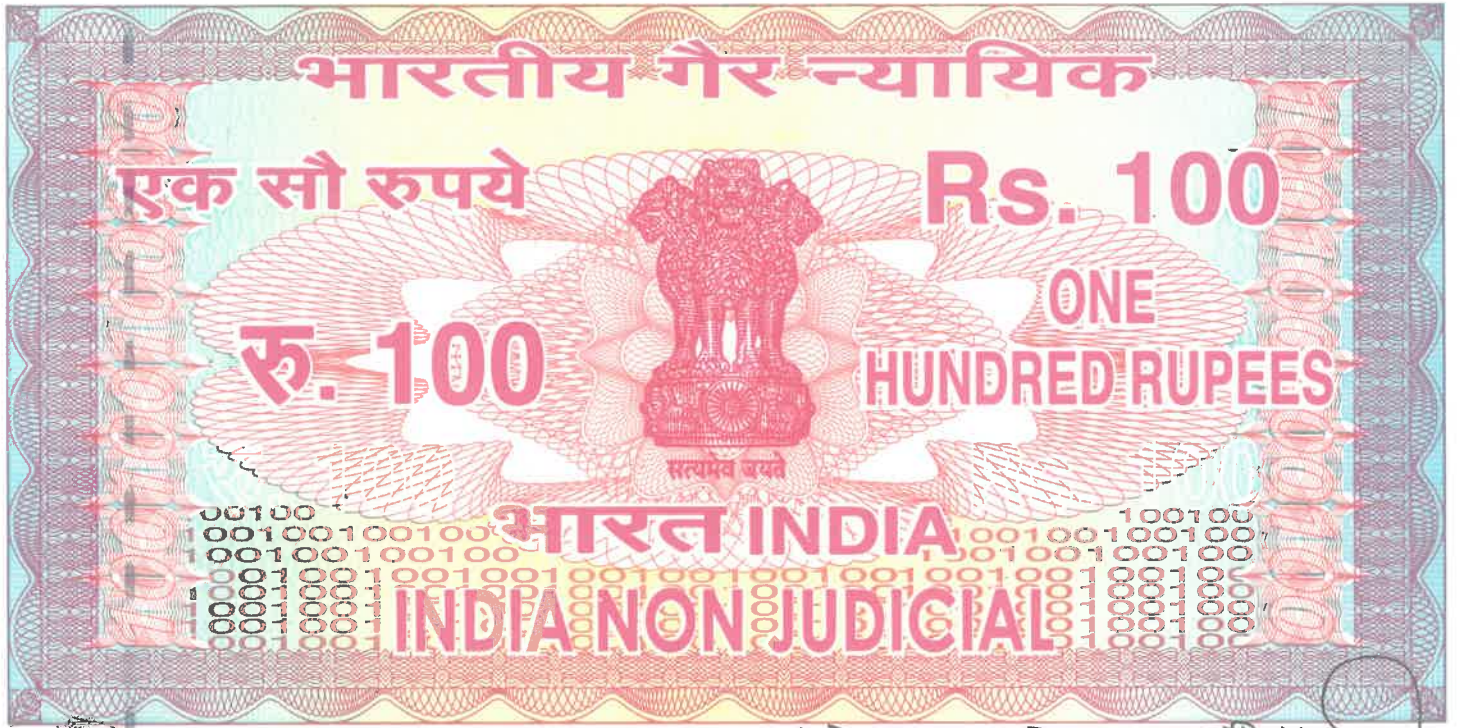
SIGNED SEALED AND DELIVERED FOR AND ON BEHALF OF AUTHORITY.

- SIGNED ON BEHALF OF M/S. SREE JAYAMURUGAN ALLOYS PRIVATE LIMITED, SF NO. 329/3,4,5 GANAPATHY NAGAR, VELLALAGUNDAM, SALEM-635111, TAMILNADU STATE, (LICENSEE)

BY SHRI _____
(Signature, name & address with stamp) _____
HOLDER OF GENERAL POWER OF ATTORNEY DATED _____ EXECUTED IN
ACCORDANCE WITH THE RESOLUTION NO. _____ DATED _____
PASSED BY THE BOARD OF DIRECTORS IN THE MEETING HELD ON _____
IN THE PRESENCE OF (WITNESSES)

Qunj -
 (P) Gr. Bharathi. S/o. Chanesun, 31/Viswanatha nagar.
 K. Puduk. Madurai - 625 007.

② M. M. K.
M. Marikandan S/o. Muthukarugy,
1/128 Kumaran St, Oomachikudam,
Madurai - 625014.



தமிழ்நாடு தமில்நாடு TAMILNADU

07-03-2013

DA 204205

M/S. Sree Jayamurugan
Alloys Private Ltd, Salem.

M. Sree Jayamurugan
மு.செந்தில், ஸ்டாம்பு வெண்டர்,
தாலுக்கா ஆபிஸ் எதிரில், (குடலக் மாடிக்
37, கச்சேரி ரோடு, சரோடு-1.
கச்சேரி உரிமம் எண்: 45/6/14/1/1

Annexure-V

UNDERTAKING

We, M/s. Sree Jayamurugan Alloys Private Limited, SF No. 329/3,4,5 Ganapathy Nagar, Vellalagundam, Salem-635111, Tamilnadu State. Erection of 22 KV Electrical Over Head Transmission line with Poles in NH-226(New No.NH-36) along the road from Km.148/400 to Km.152/000 (RHS) and Across @ Km.152/000 for a total length of 3.60 Km of Thirumayam to Manamadurai Section in the state of Tamil Nadu, National Highways, Karaikudi.

We hereby undertake the Standard Conditions of NHAI Guidelines:

1. Not to Damage to Other Utility, if damaged then to pay the losses either to NHAI or to the concerned agency: Regarding the location of other electrical cable line, underground installation/utilities etc, M/s. Sree Jayamurugan Alloys Private Limited shall be responsible to ascertain from the respective agency in coordination with NHAI. M/s. Sree Jayamurugan Alloys Private Limited shall ensure the safety and security of already existing cables/underground installation/utilities facilities etc. before commencement of the excavation.

For SREE JAYAMURUGAN ALLOYS (P) LTD


Managing Director

2. **Renewal of Bank Guarantee:** M/s. Sree Jayamurugan Alloys Private Limited shall furnish a Bank Guarantee @ Rs100/- per running meter to the NHAI, for a period of one year initially (extendable if required till satisfactory completion of work) as a security for ensuring/making good the excavated trench for erection of 22kv electrical cable with pole by proper filling and compaction, clearing debris/loose earth produced due to execution of trenching at least 50m away from the edge of the right of way. No payment shall be payable by the NHAI to M/s. Sree Jayamurugan Alloys Private Limited for clearing debris/loose earth. In case the work contemplated herewith is not completed to the satisfaction of the NHAI, which has granted the permission, within a period of 11 months from the date of issue of the bank guarantee M/s. Sree Jayamurugan Alloys Private Limited shall either furnish a fresh guarantee or extend the guarantee for a further period of one year. In case of M/s. Sree Jayamurugan Alloys Private Limited failing to discharge the obligation of making good the excavated trench, the NHAI shall have a right to make good the damages caused by excavation, at the cost of M/s. Sree Jayamurugan Alloys Private Limited and recover the amount by invoking the bank guarantee furnished by M/s. Sree Jayamurugan Alloys Private Limited.

3. **Confirming all standard conditions of NHAI:**

- (i) The period of validity of Way permission shall be co-terminus with the validity of licensee given by the Ministry of Communications / DoT.
- (ii) The 22kv electrical cable line with pole shall be laid at the edge of the right of way within 2m utility corridors.
- (iii) The top of the electrical cable line shall be at least 11m from existing road.
- (iv) The licensee has to cross the NH In case any damage is caused to the road pavement in this process, M/s. Sree Jayamurugan Alloys Private Limited will be required to restore the same to the original condition at his own cost.
- (v) No trenching will be done on link road, boring method will be used in link road and 22kv electrical cable line with pole will be laid at the extreme edge of the road in the non-BT surface only.
- (vi) The licensee shall inform/give a notice to the NHAI, Govt. of India or its authorized agency at least 15 days in advance with route details prior to digging trenches for fresh or maintenance/repair work. A separate work plan and a separate performance Bank Guarantee @ Rs100/- per meter length for maintenance/ repair work shall have to be furnished by M/s. Sree Jayamurugan Alloys Private Limited.
- (vii) Each day, the extent of erection of 22kv electrical cable line with pole should be strictly regulated so that cables are laid and trenches filled up

For SREE JAYAMURUGAN ALLOYS (P) LTD


Managing Director

before the close of the work that day. Filling should be completed to the satisfaction of the concerned agency designated by the NHAI.

- (viii) The Licensee shall indemnify the concerned agency in co-ordination with NHAI, against all damages and claims, if any, due to the erection of 22kv electrical cable line with pole.
- (ix) The NHAI has a right to terminate the permission or to extend the period of agreement. In case the M/s. Sree Jayamurugan Alloys Private Limited wants shifting, repairs or alteration to 22 kv electrical cable with pole, he will have to furnish a separate bank guarantee.
- (x) The Licensee shall not without prior permission in writing from the NHAI Govt. of India or its authorized agency undertake any work of shifting, repairs or alterations to the said 22kv electrical cable with pole.
- (xi) The permission granted shall not in any way be deemed to convey to M/s. Sree Jayamurugan Alloys Private Limited any ownership right or any interest in route/road/highway/ land/ property, other than what is herein expressly granted.
- (xii) During the subsistence of this agreement, the erection 22kv electrical cable with pole located in highway land/property shall be deemed to have been constructed and continued only by the consent and permission of the NHAI so that the right of M/s. Sree Jayamurugan Alloys Private Limited to the use thereof shall not become absolute and indefeasible by laps of time.
- (xiii) M/s. Sree Jayamurugan Alloys Private Limited shall bear the stamp duty charged for the agreement.
- (xiv) The 22kvelectrical cable with pole shall not be brought in to use by M/s. Sree Jayamurugan Alloys Private Limited unless a completion certificate to the effect that the erection of 22kv electrical cable with pole has been laid in accordance with the approved specifications and drawings and the trenches have been filled up to the satisfactions of the concerned agency in co-ordination with the owner has been obtained.
- (xv) Notwithstanding anything NHAI contained herein this agreement may be cancelled at any time by the for breach of any condition of the same and the M/s. Sree Jayamurugan Alloys Private Limiteds hall neither be entitled to any compensation for any loss caused to it by such cancellation nor shall it be absolved from any liability already incurred.
- (xvi) The licensee shall have to provide barricading, danger lighting and other necessary caution boards while executing the work and during maintenance. If NHAI is required to do some emergent work M/s. Sree Jayamurugan Alloys Private Limited will provide an observer within 24 hours. NHAI will not be

For SREE JAYAMURUGAN ALLOYS (P) LTD


Managing Director

responsible for any damage of any kind by what so ever means natural or otherwise.

(xvii) The enforceability of the Right-of Way permission granted here in shall be restricted to the extent of provisions/scope of service contained/defined in the license agreement of the License with Department of TNEB and for the purpose for which it is granted. Either by content or by intent, the purpose extending this Right-of Way facility is not to enhance the scope of M/s. Sree Jayamurugan Alloys Private Limited.

4. **Shifting of 22kv electrical cable with pole as and when required by NHAI:** M/s. Sree Jayamurugan Alloys Private Limited shall shift the 22kv electrical cable with pole within 90 days (or as specified by the respective agency/owner) from the date of issue of the notice by the NHAI, Govt. of India to shift/relocate the 22kv electrical cable with pole, in case it is so required for the purpose of improvement/widening of the road/route/highway or construction of flyover/bridges and restore the road/land to its original condition at his own cost and risk
5. **Shifting due to 6lining / widening of NH:** After the termination/expiry of the agreement, M/s. Sree Jayamurugan Alloys Private Limited shall remove the 22kv electrical cable with pole within 90 days and the site shall be brought back to the original condition failing which the M/s. Sree Jayamurugan Alloys Private Limited will lose the right to remove the 22kvelectrical cable with pole. However, before taking up the work of removal of 22kvelectrical cable with pole the M/s. Sree Jayamurugan Alloys Private Limited shall furnish a bank guarantee to the owner for a period of one year for an amount assessed by the owner for making good the excavated trench by proper filling and compaction, clearing debris, loose earth produced due to excavation of trenching at least 50m away from the edge of the right of way.
6. **Traffic movement during erection of 22kv electrical cable with pole to be managed by the applicant:** If any traffic diversion works are found necessary during the working period such diversion shall be provided at the cost of M/s. Sree Jayamurugan Alloys Private Limited.
7. **If any claim is raised by the concessionaire then the same has to be paid by the applicant:** M/s. Sree Jayamurugan Alloys Private Limited shall be solely responsible/ liable for full compensation/indemnification of concerned agency/aggrieved owner for any direct, indirect or consequential damage caused to them/claims or replacement sought for, at the cost and risk of M/s. Sree Jayamurugan Alloys Private Limited. The concerned agency in co-ordination with NHAI shall also have a right to make good such damages/recover the claims by way of invoking of Bank Guarantee furnished by M/s. Sree Jayamurugan Alloys Private Limited. If M/s. Sree Jayamurugan Alloys Private Limited fails to comply with the condition 5 and 6 above to the satisfaction of the NHAI, the same shall be got

For SREE JAYAMURUGAN ALLOYS (P) LTD

2


Managing Director

executed by the NHAI at the risk and cost of the M/s. Sree Jayamurugan Alloys Private Limited.

8. We, M/s. Sree Jayamurugan Alloys Private Limited, SF No. 329/3,4,5 Ganapathy Nagar, Vellalagundam, Salem-635111, Tamilnadu State, hereby do undertake to furnish a Performance Bank Guarantee @100/- per meter for a period of one year initially (extendable if required till satisfactory completion of work) as a security against improper restoration of ground in terms of filling/unsatisfactory compaction/damages caused to other underground installation utility services & interference interruption, disruption of failure caused thereof to any services etc. In case, M/s. Sree Jayamurugan Alloys Private Limited. Failing to discharge the obligation of making good the damages caused due to erection, the NHAI shall have a right to make good the damages caused due to erection at the cost of the M/s. Sree Jayamurugan Alloys Private Limited. And recover the amount by invoking the Bank Guarantee. In case the work contemplated is not completed to the satisfaction of NHAI, which has granted the permission, within a period of 11 months from the date of issue of the Bank Guarantee, M/s. Sree Jayamurugan Alloys Private Limited. Shall either furnish a fresh guarantee or extend the guarantee for a further period of one year.
9. Not to damage to other utility, if damaged, then to pay the losses either to NHAI or to the concerned agency.
10. In case the work contemplated is not completed to the satisfaction of NHAI, which has granted the permission within a period of 11 months from the date of issue of the Bank Guarantees, M/s. Sree Jayamurugan Alloys Private Limited shall either furnish a fresh guarantee or extend the guarantee for a further period of one year.
11. We will relocate Cable lines/Utilities at our own cost, notwithstanding the permission granted within such time as will be stipulated by NHAI "for future six-lining or any other development."
12. We, M/s. Sree Jayamurugan Alloys Private Limited, SF No. 329/3,4,5 Ganapathy Nagar, Vellalagundam, Salem-635111, Tamilnadu State, hereby undertake that "The existing avenue plantation is not affect due to the present proposed 22 KV Electrical Over Head Transmission line with Poles in NH-226(New No.NH-36) along the road from Km.148/400 to Km.152/000 (RHS) and Across @ Km.152/000 for a total length of 3.60 Km of Thirumayam to Manamadurai Section in the state of Tamil Nadu, National Highways".
13. We, M/s. Sree Jayamurugan Alloys Private Limited, SF No. 329/3,4,5 Ganapathy Nagar, Vellalagundam, Salem-635111, Tamilnadu State, hereby undertake that the pay the fee /rent as mentioned in the Ministry's Guidelines Lr. No. RW/NH-33044/29/2015-S&R (R) dated 22.11.2016 as and when asked by NHAI.

For SREE JAYAMURUGAN ALLOYS (P) LTD

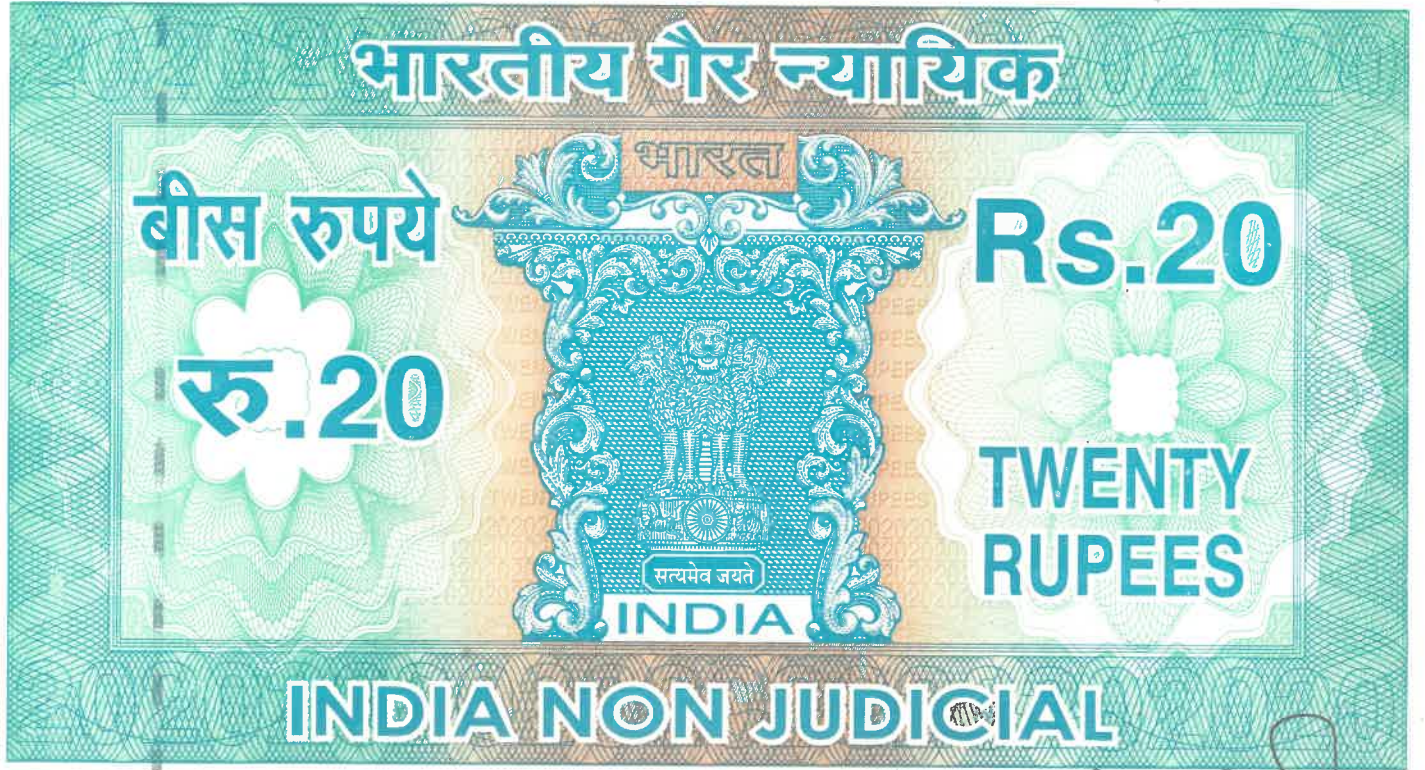

Managing Director

14. Lr. No. RW/NH-33044/29/2015-S&R (R) dated 22.11.2016 as and when asked by NHAI. Reference Circular issued by Ministry of Road Transport & Highways, GOI, Circular No. RW/NH-33044/29/2015-S&R (R) dated 22.11.2016. Where in, the last paragraph that "The Highway Administration Rules 2004 will be modified accordingly. This circular will come in to effect from the date of notification of the modified Highway Administration Rule" So we hereby give our constant to abide by the content of this circular from the date of its notification by MORTH, GOI and agree to pay the ground rent any other charges applicable for the section as applied by us.

Yours Faithfully,

For M/s. Sree Jayamurugan Alloys Private Limited


(Authorized Signatory)



தமிழ்நாடு தமில்நாடு TAMIL NADU

07-03-2023

22AC 193868

M/S. Sree Jayamurugan

Alloys Private Ltd, Salem

மு. செந்தில், ஸ்டாம்பு வெண்டர்.

தாதுக்கா ஆபீஸ் எதிரில், (முடலை மண்டபம்)

37, கரேனா ரோடு, கோட்டை-1.

Annexure-VI

தமிழ்நாடு உரிமம் எண்: 4506/B1/91

INDEMNITY BOND

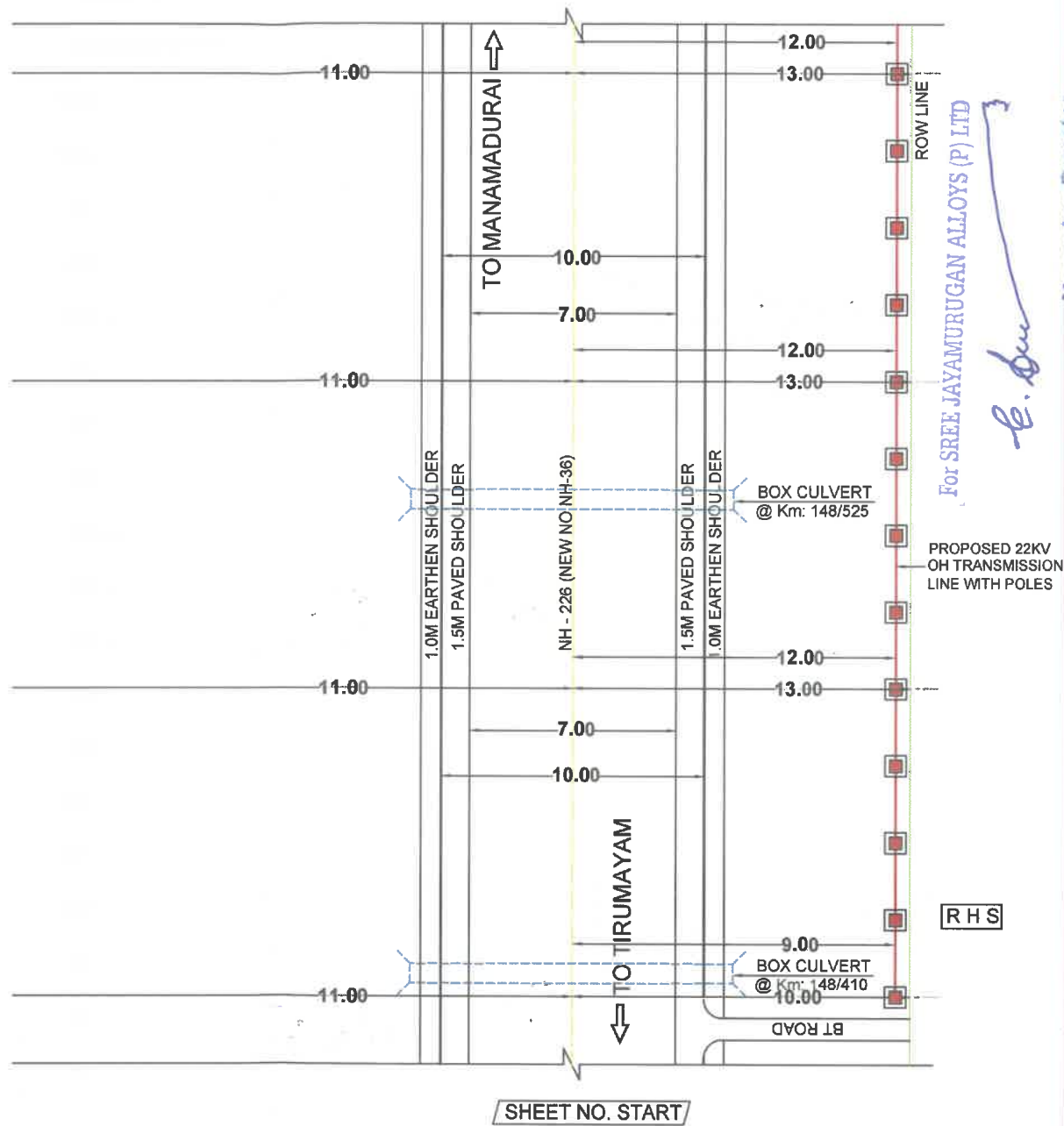
Name of Work: Erection of 22 KV Electrical Over Head Transmission line with Poles in NH-226(New No.NH-36) along the road from Km.148/400 to Km.152/000 (RHS) and Across @ Km.152/000 for a total length of 3.60 Km of Thirumayam to Manamadurai Section in the state of Tamil Nadu, National Highways.

Indemnity against all damages and claims as per Sl. No. 5.6 of Checklist

We M/s. Sree Jayamurugan Alloys Private Limited, SF No. 329/3,4,5 Ganapathy Nagar, Vellalagundam, Salem-635111, Tamilnadu State, do hereby indemnify Project Director, National Highways Authority of India, Project Implementation Unit, binding ourselves to pay all the losses and claims in respect of Erection of 22 KV Electrical Over Head Transmission line with Poles in NH-226(New No.NH-36)along the road from Km.148/400 to Km.152/000 (RHS) and Across @ Km.152/000 for a total length of 3.60 Kms of Thirumayam to Manamadurai Section in the state of Tamil Nadu, or maintenance thereof and against all claims, proceedings, damages, costs, charges and expenses whatsoever in respect thereof in relation there to. Failing such payments of claims in the above work we abide in accepting for recovery of such claims affected from any of our assets.

For M/s. Sree Jayamurugan Alloys Private Limited,


Authorized Signatory



B. Arun Prasad
B. ARUN PRASAD
 DGM(T) & Project Director
 National Highways Authority of India
 PIU - KARAIKUDI

Managing Director

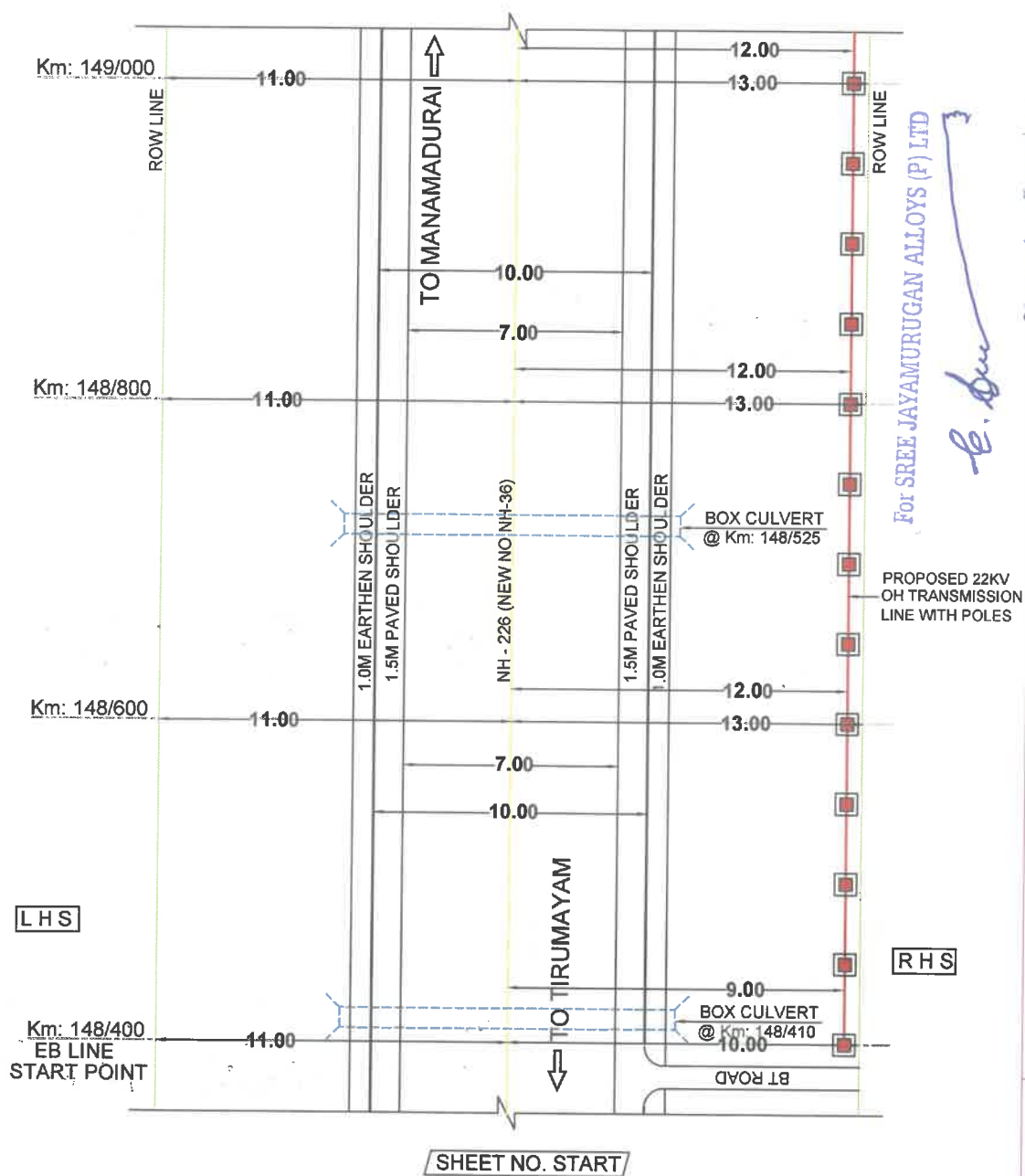
NOTES:

1. ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SPECIFIED
2. SECTION LENGTH - 0.60Km
3. SCALE - N T S

TIRUMAYAM TO MANAMADURAI SECTION NH - 226 (NEW NO NH-36)
 (Km: 148/400 TO Km: 149/000)

APPLICANT:
M/s. SREE JAYAMURUGAN ALLOYS PRIVATE LIMITED,
 SF No.329/3, 4, 5 Ganapathy Nagar,
 Vellalagundam, Salem-635111

- LEGEND:
- PROPOSED OH TRANSMISSION LINE
 - PROPOSED RSJ POLES
 - BT ROAD
 - CENTER LINE OF CARRIAGEWAY
 - CENTER LINE OF ROAD
 - BOUNDARY (ROW)
 - BRIDGE / CULVERT



For SREE JAYAMURUGAN ALLOYS (P) LTD

E. Arun Prasad

Managing Director

- LEGEND:**
- PROPOSED OH TRANSMISSION LINE
 - PROPOSED RSJ POLES
 - BT ROAD
 - CENTER LINE OF CARRIAGEWAY
 - CENTER LINE OF ROAD
 - BOUNDARY (ROW)
 - BRIDGE / CULVERT

TIRUMAYAM TO MANAMADURAI SECTION NH - 226 (NEW NO. NH-36)

(Km: 148/400 TO Km: 149/000)

APPLICANT:

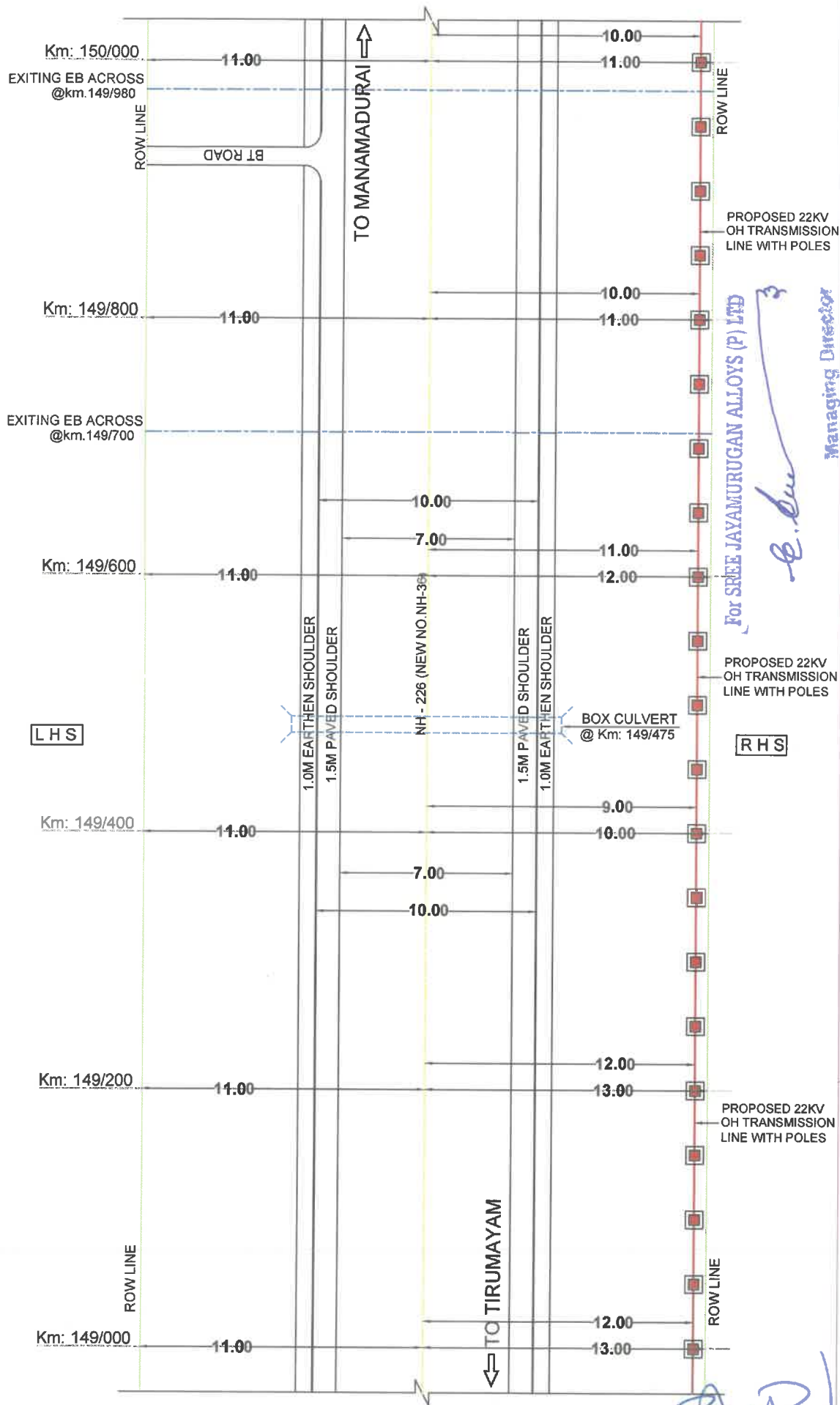
M/s. SREE JAYAMURUGAN ALLOYS PRIVATE LIMITED,

SF No. 329/3, 4, 5 Ganapathy Nagar,
Vellaiagundam, Salem-635111

NOTES:

1. ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SPECIFIED
2. SECTION LENGTH - 0.60Km
3. SCALE - N T S

B. ARUN PRASAD
DGM(T) & Project Director
National Highways Authority of India
PIU - KARAIKUDI



NOTES:

1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED
2. SECTION LENGTH - 1Km
3. SCALE - N T S

TIRUMAYAM TO MANAMADURAI SECTION NH - 226 (NEW NO. NH-36)

(Km: 149/000 TO Km: 150/000)

APPLICANT:

M/s. SREE JAYAMURUGAN ALLOYS PRIVATE LIMITED,

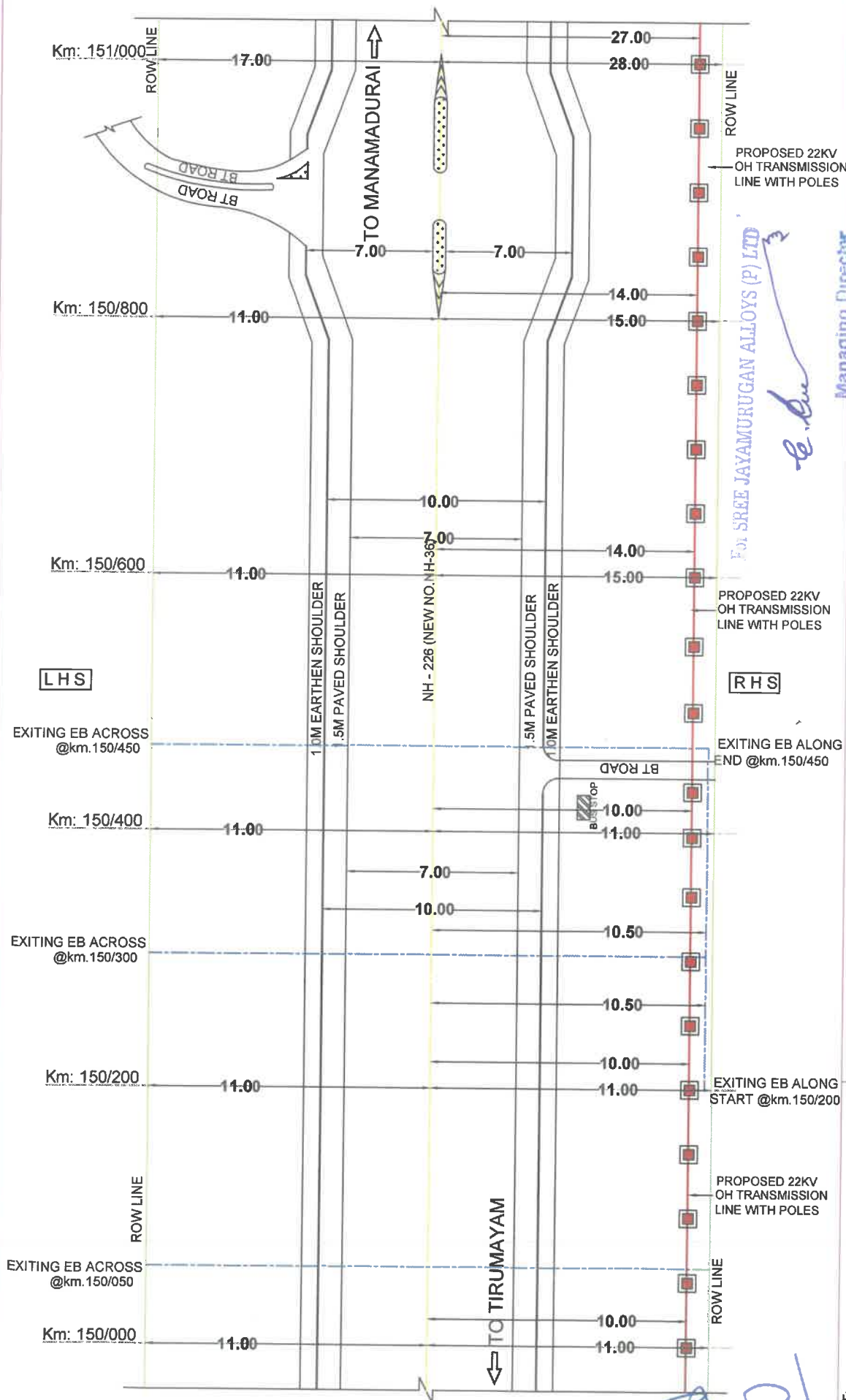
SF No.329/3,4,5 Ganapathy Nagar,
Vellaigundam, Salem-635111

LEGEND:

- PROPOSED OH TRANSMISSION LINE
- EXISTING EB LINE
- PROPOSED RSJ POLES
- BT ROAD
- CENTER LINE OF CARRIAGEWAY
- CENTER LINE OF ROAD
- BOUNDARY (ROW)
- BRIDGE / CULVERT

B. ARUN PRASAD
DGM(T) & Project Director

National Highways Authority of India
PIU - KARAUKUDI



NOTES:

1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED
2. SECTION LENGTH - 1km
3. SCALE - N T S

TIRUMAYAM TO MANAMADURAI SECTION NH - 226 (NEW NO. NH-36)

(Km: 150/000 TO Km: 151/000)

APPLICANT:

M/s. SREE JAYAMURUGAN ALLOYS PRIVATE LIMITED,

SF No. 329/3 4,5 Ganapathy Nagar,
Vellalagundam, Salem-635111

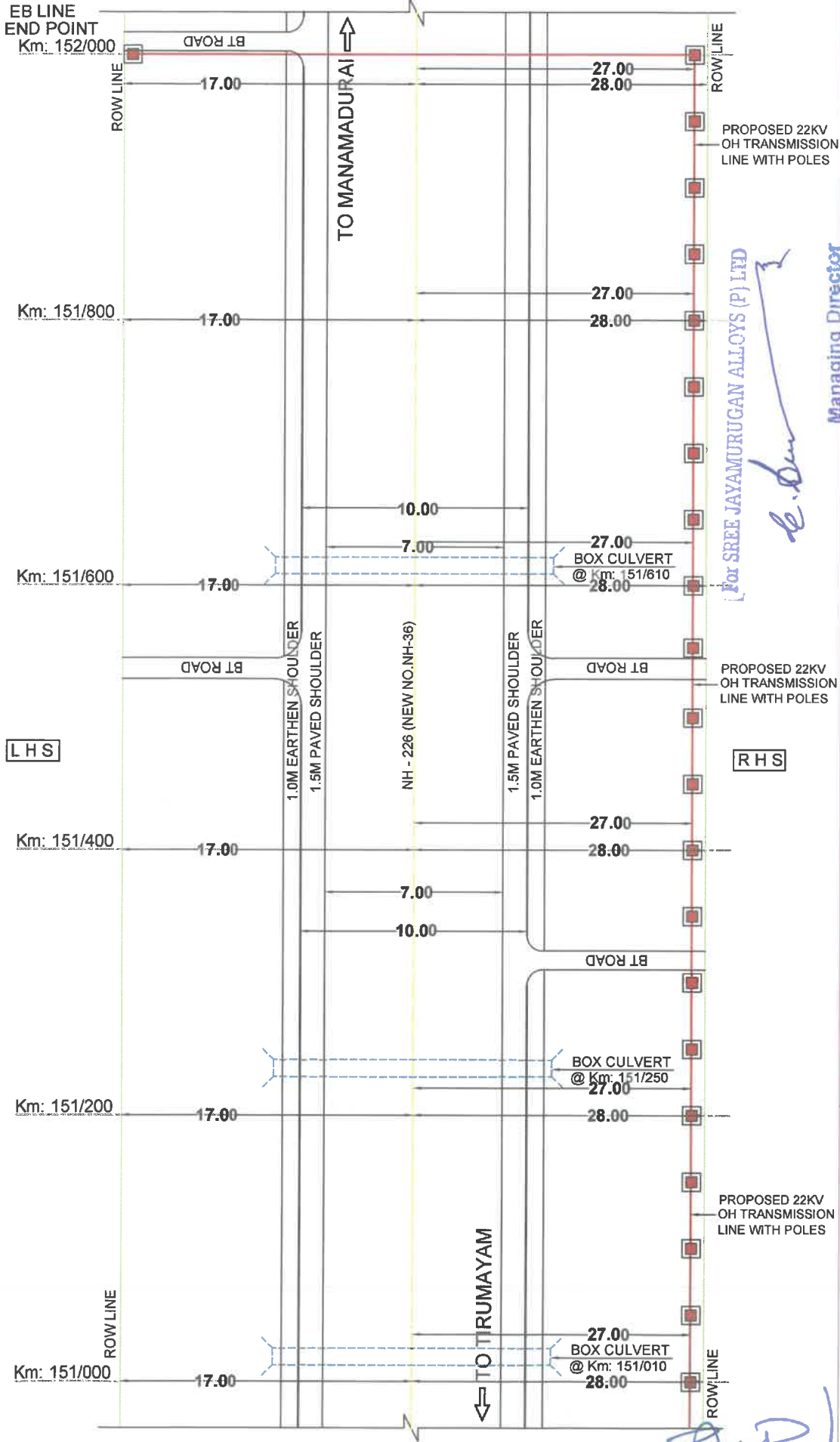
LEGENT:

- PROPOSED OH TRANSMISSION LINE
- EXISTING EB LINE
- PROPOSED RSJ POLES
- BT ROAD
- CENTER LINE OF CARRIAGEWAY
- CENTER LINE OF ROAD
- BOUNDARY (ROW)
- BRIDGE / CULVERT

B. ARUN PRASAD
DGM(T) & Project Director
National Highways Authority of India
PIU - KARAIKUDI

SHEET NO. END

EB LINE
END POINT
Km: 152/000



NOTES:

1. ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SPECIFIED
2. SECTION LENGTH - 1Km
3. SCALE - N T S

TIRUMAYAM TO MANAMADURAI SECTION NH - 226(NEW NO.NH-36)

(Km: 151/000 TO Km: 152/000)

APPLICANT:

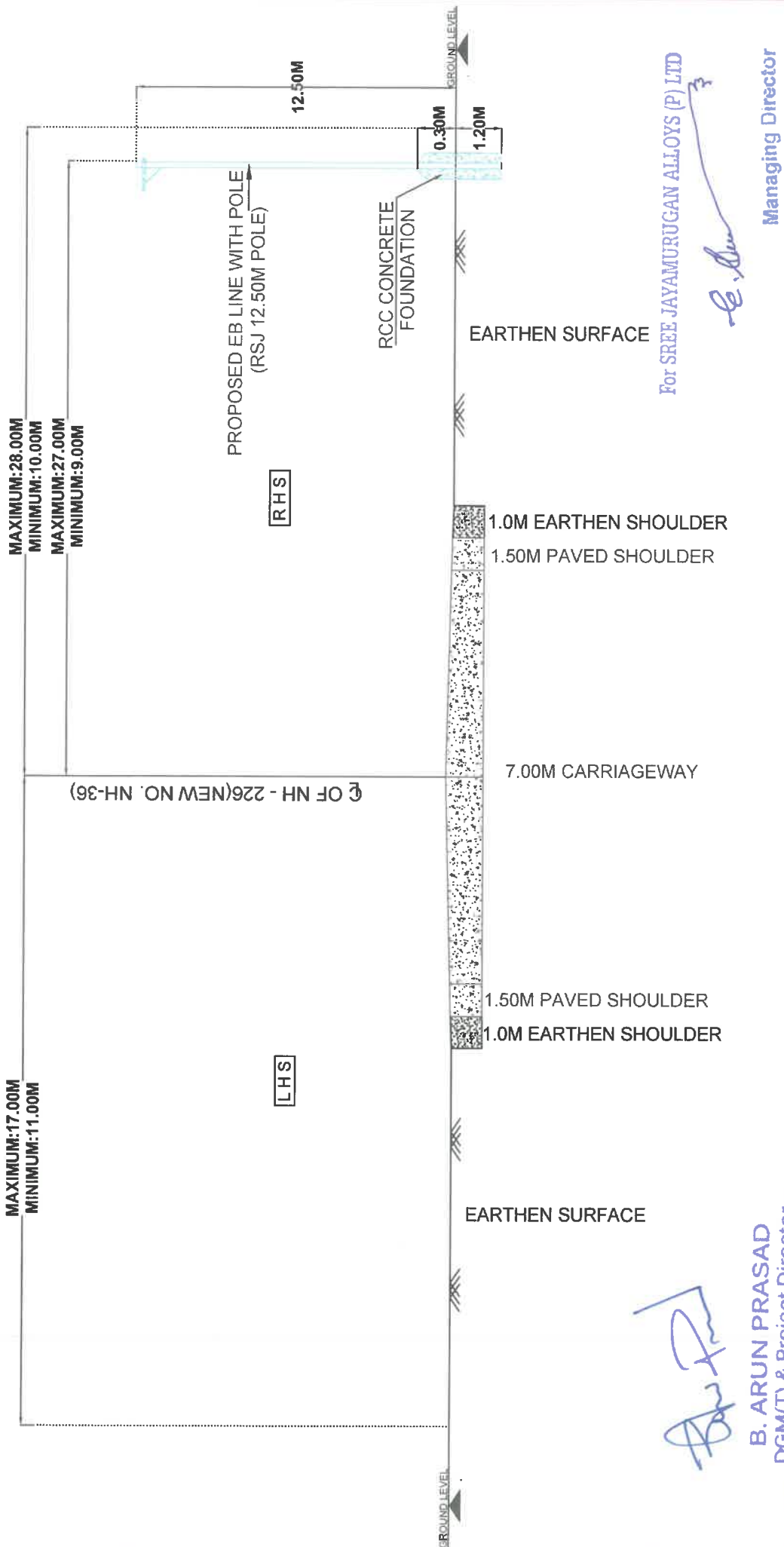
M/s. SREE JAYAMURUGAN ALLOYS PRIVATE LIMITED,

SF No.329/3,4,5 Ganapathy Nagar,
Vellalagundam, Salem-635111

- LEGEND:
- PROPOSED OH TRANSMISSION LINE
 - PROPOSED RSJ POLES
 - BT ROAD
 - CENTER LINE OF CARRIAGEWAY
 - CENTER LINE OF ROAD
 - BOUNDARY (ROW)
 - BRIDGE / CULVERT

B. ARUN PRASAD
DGM(T) & Project Director

National Highways Authority of India
PIU - KARAIKUDI



TIRUMAYAM TO MANAMADURAI SECTION NH - 226(NEW NO.NH-36)

CROSSECTION DETAILS FOR 226(NEW NO. NH-36)

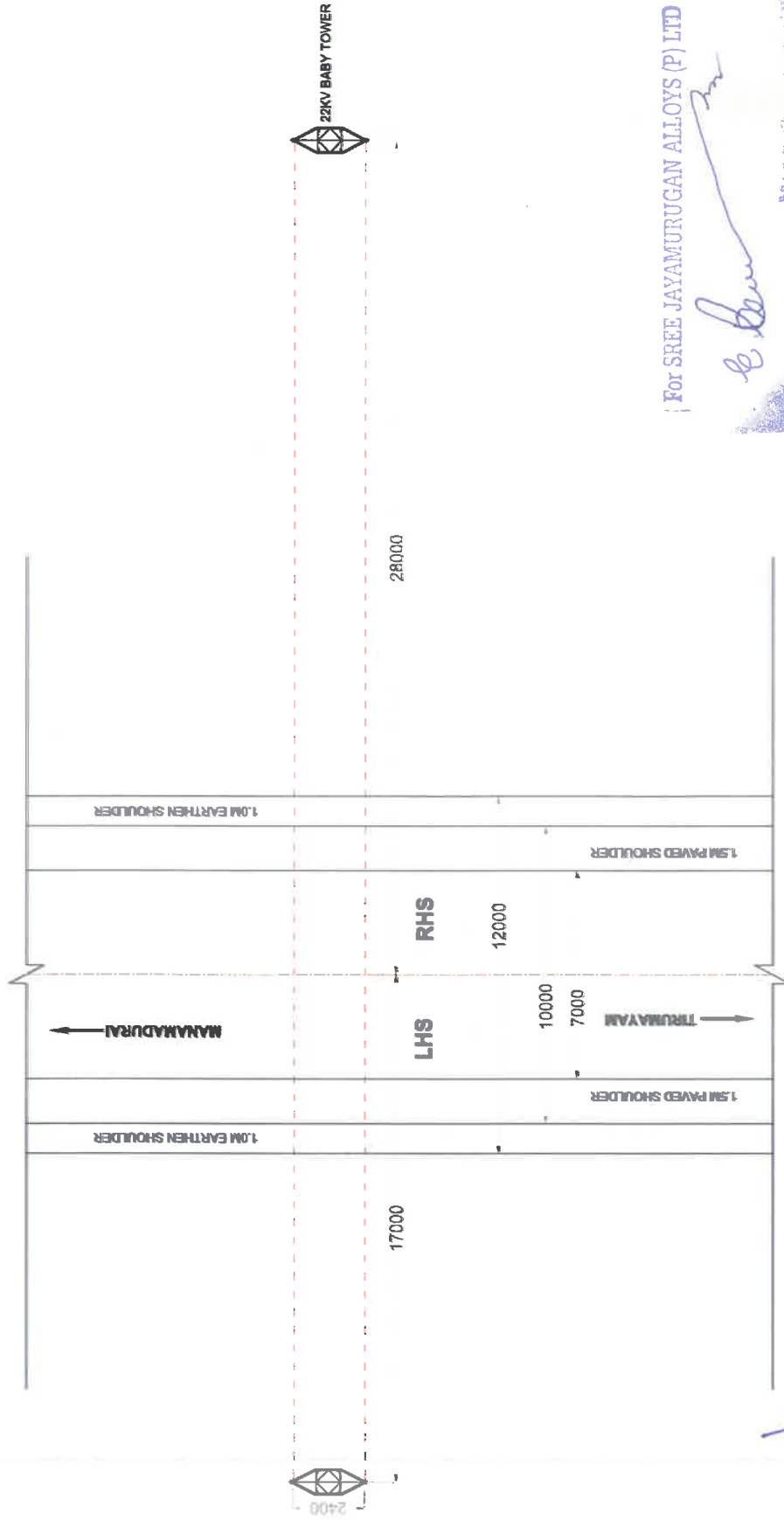
APPLICANT:

M/s. SREE JAYAMURUGAN ALLOYS PRIVATE LIMITED,

SF No.328/3,4,5 Ganapathy Nagar,
Vellalagundam, Salem-635111

TITLE:
National Highways Authority of India
PIU - KARAIKUDI

**22 KV DC LINE CROSSING AT KM 152 / 000 IN TIRUMAYAM TO MANAMADURAI
SECTION OF NH-226 (NEW NO NH-36)**



For SREE JAYAMURUGAN ALLOYS (P) LTD

[Signature]

Manager

APPLICANT:

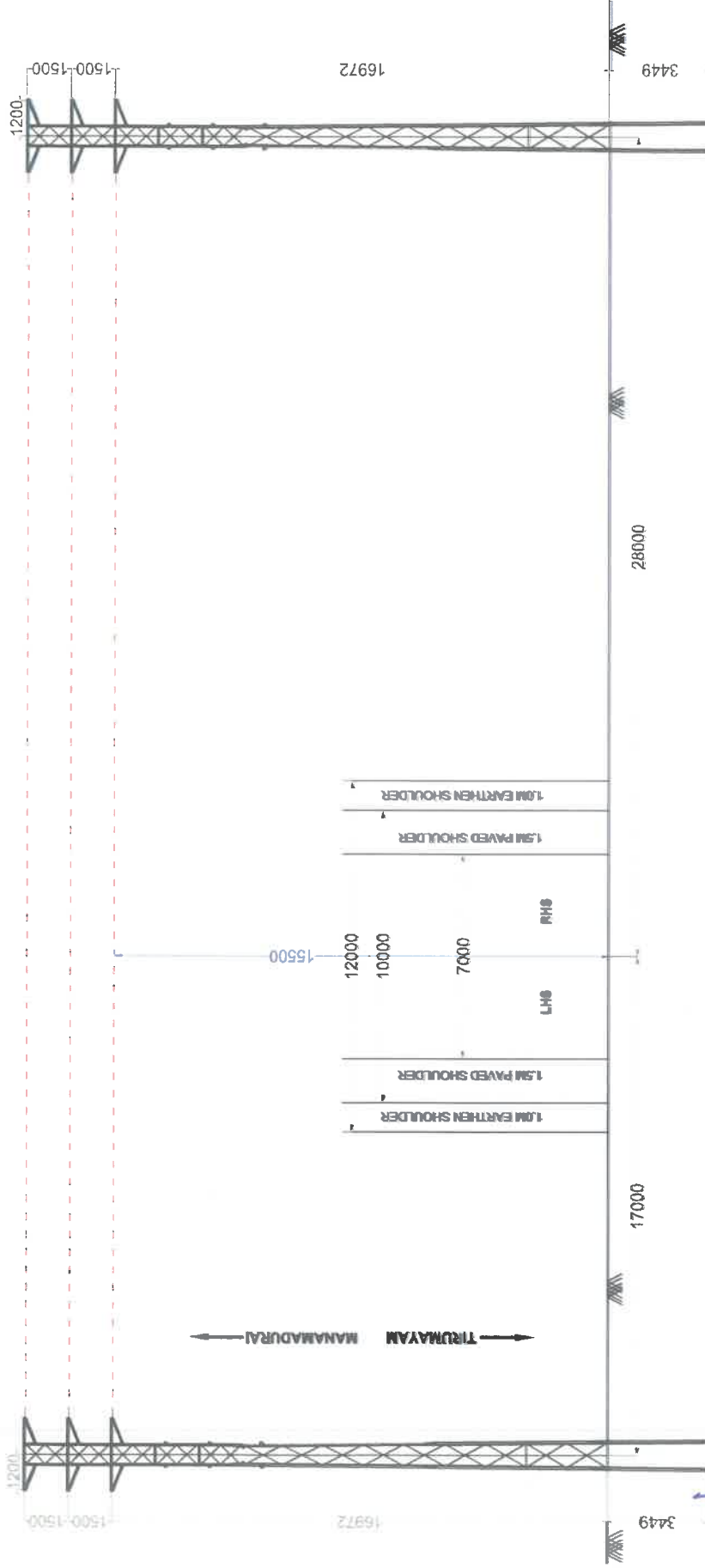
M/s. SREE JAYAMURUGAN ALLOYS PRIVATE LIMITED,
SF No.329/3,4,5 Ganapathy Nagar,
Vellalagundam, Salem-635111

[Signature]
B. ARUN PRASAD
DGM(T) & Project Director
National Highways Authority of India
PIU - KARAIKUDI

22 KV DC LINE CROSSING AT KM 152 / 000 IN TIRUMAYAM TO MANAMADURAI

NH-226 (NEW NO NH-36)

VERTICAL CLEARANCE STATUS



For SREE JAYAMURUGAN ALLOYS (P) LTD

[Signature]

Managing Director

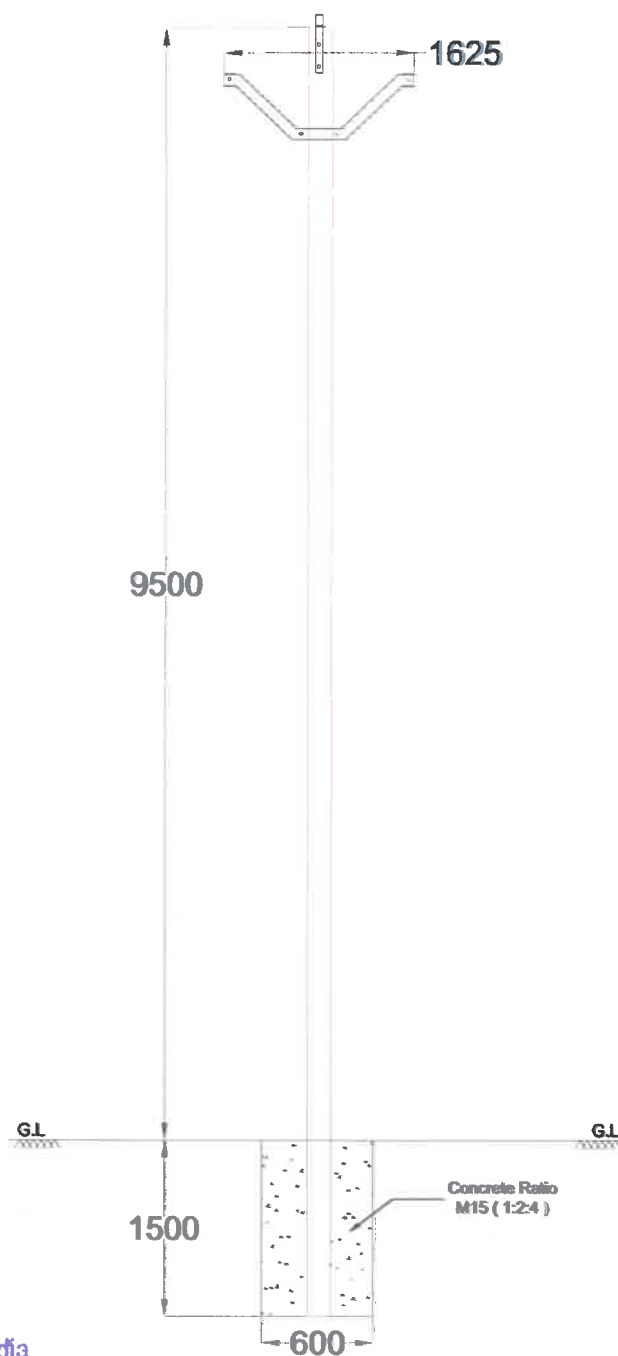
[Signature]

B. ARUN PRASAD
DGM (T) & Project Director
National Highways Authority of India
PIU - KARAIKUDI

APPLICANT:

M/s. SREE JAYAMURUGAN ALLOYS PRIVATE LIMITED,
SF No.329/3,4,5 Ganapathy Nagar,
Vellalagundam, Salem-635111

RSJ LINE POLE DETAILS




B. ARUN PRASAD
DGM(T) & Project Director
National Highways Authority of India
PIU - KARAİKUDI

For SREE JAYAMURUGAN ALLOYS (P) LTD



Managing Director

NOTES:-

1.	All dimensions are in mm unless otherwise mentioned.
2.	Size of poles:- 11000 mm long 200x100mm RSJ section.
3.	200 x 100 RSJ Pole Weight 24.4 Kg / Mtr
4.	Concrete Ratio M15 (1:2:4)

APPLICANT:

M/s. SREE JAYAMURUGAN ALLOYS PRIVATE LIMITED,
SF No.329/3,4,5 Ganapathy Nagar,
Vellalagundam, Salem-635111

TAMILNADU GENERATION & DISTRIBUTION CORPORATION LTD

TO;

From
Er.S.Surendiran, B.E.,
Chief Engineer/NCES,
TANGEDCO
2nd Floor, Eastern Wing,
144, Anna Salai,
Chennai – 2.

M/s. Sree Jayamurugan Alloys Private Limited,
SF.No.329/3,4,5
Ganapathy Nagar,Vellalagundam,
Salem 635 111.
E.mail :sreejayamurganalloys@gmail.com

Lr.No 002292/L23 M/s. Sree Jayamurugan Alloys Private Limited -6MW /2022,dated
.08.2022.

Dear Sirs,

Sub: NCES – M/s. Sree Jayamurugan Alloys Private Limited - Reg.No. S(HQ)- 33 (T)/22-
23 dt: 03.06.2022 - Establishment of 6 MW solar PV power plant at Manmbaki
Village, Manamadurai Taluk, Sivagangai District for Captive use under Non-REC
Scheme – Communication of Load flow study results– Documents request - Reg.

- Ref: 1 Reg.No. S(HQ)- 33 (T)/22-23 dt: 03.06.2022
2. Hon'ble TNERC Order No.9 of 2020 dt 16.10.2020.
3. B.P. No. 34 dated 17.02.2021.
4. Letter dated: 19.05.2022 received from 04.06.2022 M/s. Sree Jayamurugan
Alloys Private Limited
5. Lr.No.002292/L11//F. M/s. Sree Jayamurugan Alloys Private Limited-6 MW/Dt
10.06.2022.
6. Lr.No.SE/NCES/TIN/AE/TECH/F M/s. Sree Jayamurugan Alloys Private Limited-6
MW/D.No.1086/2022 Dt: 22.07.2022.

With reference to your proposal received vide ref (4) above and in continuation to
correspondence vide ref (5) above, load flow study has been conducted for the 6 MW SPV Plant
proposed by you for wheeling of power for Captive use under Non-REC Scheme under Intra
State Open Access System and registered as Reg.No. S(HQ)- 33 (T)/22-23 dt: 03.06.2022
and the result is as follows:

Load flow study has been conducted by considering 2022-2023 network condition to
determine the transmission system for the connectivity and evacuation of power from your
proposed 6 MW solar power Plant and the following parameters have been taken into
consideration :

Name of the Substation	Manamadurai 110/22 KV Sub -Station
Power transformer capacity in 110/22 KV Manamadurai Sub - Station	Pr.Tr.-I 1x16 MVA : 110/22 KV Pr.Tr.-I 1x10 MVA : 110/22 KV
Already connected & proposed to be connected SPV Plants	Existing Generation Load in : Nil Pr Tr – I Already Proposed Load : 2.0 MW Now Proposed M/s. Sree Jayamurugan } : 6.0 MW Alloys Private Limited, Total : 8.0 MW (110/22KV)

Based on the above parameters, load flow study was conducted and the line loading and Power Transformer loading are found to be normal, the following transmission scheme has been finalized :

"Your proposed 6 MW solar power plant can be interfaced through already proposed 22KV solar feeder wherein M/s.Senthil Nathan Spinning Mills – 2 MW are to be connected at **Manamadurai 110/22 KV Sub -Station** with necessary breaker, protection and metering arrangement.

As per Section 10(1) of Electricity Act, 2003, you have to establish, operate and maintain the dedicated transmission line from the power plant to substation.

You are also requested to ensure that Harmonics are maintained within the prescribed limit as per the CEA norms to maintain the grid discipline. **The Harmonic study shall be conducted within two months for taking necessary action to limit the level of Harmonics as per CEA norms.** The SPV plant generator has to maintain power factor at their plant end as per IEGC.

You have already made payment for an amount of Rs.30,00,000 (Thirty Lakhs Only)/- towards 50% of the applicable refundable security deposit vide Document.No.2247004199 dt 15.06.2022 at the time of Registration.

The applicable O&M charges for 22 KV bay has to be paid to TANGEDCO, which would be intimated separately, and is subject to revision. As DSM is to be implemented shortly, the generation details shall be made available at **Manamadurai 110/22 KV Sub -Station** through data connectivity.

Further M/s. Sree Jayamurugan Alloys Private Limited has to provide the following at their cost:

1. Breakers and necessary protection arrangement at your plant Switchyard end as per TANGEDCO norms.
2. ABT meters for recording your supply as per CERC/TNERC Regulations in force.
3. Cost towards provision of data as Ethernet data at Jurisdiction LD centre (JLDC) end either by VSAT or any other communication.
4. For data connectivity to jurisdiction LD centre you have to pay Rs 2,00,000/-+ GST Rs.36,000/- (Rupees Two Lakhs and Thirty six thousand only) to TANTRANSCO towards terminal equipment to be provided by TNEB at JLDC5
5. The speech communication to adjacent stations can be provided either by land line or PLCC depending on the infrastructure available at the premises.

In view of the above, you are requested to execute an Undertaking to the effect that you shall not claim any compensation or responsibility for any unforeseen outage or scheduled maintenance outage of **Manamadurai 110/22KV Sub -Station**

I For verification of CGP status

1. Intra State Open Access application Form.
2. Certificate of Incorporation of the generating company.
3. A certificate issued by the Chartered Accountant who signs the annual financial statement of the company /practicing Company Secretary who files the annual return of the Company providing details of Total equity, Authorised, Issued, Subscribed and Paid up equity share capital with voting rights of the CGP and that of the captive users
4. Certified copy of MoA /AoA and its amendments issued from time to time.
5. Copy of Latest Annual Return – MGT7 filed by the generators with the registrar of Companies showing shareholding details filed by the generators/captive users with the Registrar of Companies.
6. A certificate regarding holding of Equity Share Capital with voting rights in the Captive Generating Plant by the captive user duly certified by the Chartered Accountant who signs the annual financial statement/practicing Company Secretary who files the annual return of the Company
7. A copy of Board's Resolution authorizing the signatory of the company .The Authorized signatory of the company shall be the Managing Director or whole time director or company secretary or any other officer approved by the Board.
8. Any revocation for approval for captive generation by the Board of the generating company by way of amendment to MoA or AoA shall be intimated 30 days from the date of such change to the Licensee.
9. H.T.Service Connection Detail/H.T.Bill Copy along with Open Access Application.

II Project Documents

1. Copy of land document duly attested by Notary Public (Registered sale Deed or lease deed)
2. Detailed Project Report
3. General Layout of the proposed power plant
4. Village map and topo sketch
5. H.T.Bill Copy of the Service for which captive adjustment is sought for.
6. Line Sharing agreement


It is to be informed that TANGEDCO reserves the right to allow the other developers to connect their power plants in the power evacuation line erected by you until the optimum capacity of the power evacuation line is achieved, as there may be no space for the further bay extension at the existing sub-station.

In such case, the cost of the line shall be shared among the developers who are permitted to use the line. The cost sharing may be mutually decided by such developers who use the evacuation line.

The due date for commissioning your project shall be within 12 months from the date of issuance of Noted on Record letter. In case of failure to commission the plant as above, further extension of time period of upto 4 months shall be permitted with a penalty of 20% of total SD amount paid for every one month delay or part thereof. In case of failure to commission the project beyond 16 months, security deposit paid by you will be completely forfeited and this 'Noted for Record' letter shall stand automatically cancelled without any further notice or information whatsoever. In addition to forfeiture of the security deposit, the noted on record letter shall stand automatically cancelled with/without any notice or information whatsoever. TANGEDCO will carry out the operation and maintenance of the newly erected equipment in the SS related to the project after collecting necessary charges which would be intimated separately.

In this regard, it is to be informed that further action will be taken by TANGEDCO subject to fulfillment of the above said terms

Yours Sincerely,


Executive Engineer/SCB
for CHIEF ENGINEER/NCES

Copy to the Superintending Engineer/Sivagangai/ EDC/ Sivagangai
Copy to the Superintending Engineer/NCES/Tirunelveli.



GOVERNMENT OF INDIA
MINISTRY OF ROAD TRANSPORT & HIGHWAYS
AN ISO 9001:2008 CERTIFIED MINISTRY

S&R(R) ZONE

IAHE Campus,
A-5, Sector-62,
Noida-201301.

F. No. RW/NH-33044/29/2015/S&R(R)

Dated: 22nd November, 2016

To,

1. The Chief Secretaries of all the State Governments/ UTs
2. The Principal Secretaries/ Secretaries of all States/ UTs Public Works Department dealing with National Highways, other centrally sponsored schemes.
3. All Engineers-in-Chief and Chief Engineers of Public Works Department of States/ UTs dealing with National Highways, other centrally sponsored schemes.
4. The Director General (Border Roads), Seema Sadak Bhawan, Ring Road, New Delhi-110 010.
5. The Chairman, National Highways Authority of India, G-5 & 6, Sector-10, Dwarka, New Delhi-110 075.
6. The Managing Director, NHIDCL, PTI Building, New Delhi-110001

Subject: Accommodation of Public and Industrial Utility Services along and across National Highways – Policy guidelines regarding.

Sir,

The Government has realized that development of infrastructure across the Country on a sustainable and integrated manner continues to be an imperative for improving the state of economy, enhancing quality of life of the citizens and ensuring equitable development throughout the country.

Land being among the most precious of natural resources available; optimum utilization of land shall play a critical role in integrated development of infrastructure. One of the ways to effect such optimum utilization is leveraging land within National Highway (NH) Right of Way (ROW) for laying utility services. This may be achieved through granting permissions for laying utility services along and /or across the ROW. However, environment and safety of the road users are the prime factors in deciding permission for utility services. Permission may be denied, if it is not feasible to ensure safety and environment through requisite safeguards. The Administration of ROW, has been defined in the National Highway Land and traffic Control Act 2002 and relevant Rules 2004.

Keeping in view the need for consistency and clarity, in supersession of all the instructions contained in the earlier previous circulars on the subject, following guidelines shall apply for accommodation of Utility Services along and across National Highways.

2. Laying of Utility Services along the National Highways:

- 2.1 There shall be a provision for utility ducts for appropriate categories/combination of utilities in the construction of new/4-6 laning of National Highways. The ducts shall be located at appropriate location preferably as close to the extreme edge of ROW.
- 2.2 Utility services shall be laid in the utility ducts, if provided for the purpose.
- 2.3 In stretches where utility ducts have not been provided, the utility services shall be located, beyond the toe line of the embankment and drains, as close to the extreme edge of the RoW as possible. While granting permission, requirement of up-gradation also needs to be kept in view.

Manoj Kumar

2.4 It is to be ensured that at no time there is interference with the drainage of the road land and maintenance of the National Highways. Towards this, the top of the utility services shall be at least 0.6 m above the ground level.

2.5 No utility service shall be laid over existing culverts and bridges except through the utility ducts where such provision exists. In case of absence of such provisions, the Licensee shall make his own arrangement for crossing of cross drainage structure, rivers, etc. below the bed.

2.6 In exceptional cases, where ROW is restricted the utility services can be allowed beneath the carriageway of service road, subject to the condition that the utility services be laid in concrete ducts, which will be designed to carry traffic on top. The width of the duct in such case shall not be less than one lane. In such cases, it also needs to be ensured that maintenance of the utility services shall not interfere with the safe and smooth flow of traffic. The cost of operation and maintenance will have to be borne by the Licensee as per the agreement.

3. Laying of Utility Services across the National Highway:

3.1 The utility services shall be permitted to cross the National Highway either through structure or conduits specially built for that purpose. The casing / conduit pipe should, as minimum, extend from drain to drain in cuts and toe of slope to toe of slope in the fills and shall be designed in accordance with the provision of IRC and executed following the Specifications of the Ministry.

3.2 Existing drainage structures shall not be allowed to carry the lines across.

3.3 The utility services shall cross the National Highway preferably on a line normal to it or as nearly so as practicable.

3.4 The casing/conduit pipe may be installed under the road embankment either by boring or digging a trench. Installation by boring method shall be preferred.

3.5 In case of trenching, the sides of the trench should be done as nearly vertical as possible. The trench width should be at least 30 cm wider, (but not more than 60 cm wider), than the outer diameter of the utility pipe. Filling of the trench shall conform to the specifications contained here-in-below or as supplied by the Highway Authority.

3.5.1 Bedding shall be to a depth not less than 30 cm. It shall consist of granular material, free of lumps, clods and cobbles, and graded to yield a firm surface without sudden change in the bearing value. Unsuitable soil and rock edges should be excavated and replaced by selected material.

3.5.2 The backfill shall be completed in two stages (i) Side-fill to the level of the top of the pipe (ii) Overfill to the bottom of the road crust.

3.5.3 The side fill shall consist of granular material laid in 15 cm. Layers each consolidated by mechanical tamping and controlled addition of moisture to 95% of the modified 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.

3.5.4 The road crust shall be built to the same strength as the existing crust on either side of the trench or to thickness and specifications stipulated by the Highway Authority.

3.6 When utilities are allowed overhead, the horizontal and vertical clearance in accordance with the IRC shall be maintained.

4. Procedure for processing application for granting permission for use of highway land: Any person who intends to obtain permission shall make an application online in the prescribed form to Highway Administration or an officer authorized by Highway Administration on his behalf. The application must mention details the various safety clearances from the respective authorities such as Directorate of Electricity, Chief Controller of Explosives, Petroleum and Explosives Safety Organization, Oil Industry Safety

Manoj Kumar

Directorate, State/Central Pollution Control Board and any other statutory clearances as applicable, which must be obtained by the Applicant before applying to the Highway Administration.

The application shall be put out in the public domain for 30 days for seeking claims and objections (on grounds of public inconvenience, safety and general public interest). The permission for laying utility services is to be normally granted within 30 days from the day of closure of public objections and claims. If no communication is received from the Highway Administration within 30 days from the day of closure of public objections and claims, the permission shall be deemed to be granted. The initial permission would be valid for a maximum of 5 years at a time, which can thereafter be considered for renewal. On payment of additional fee at the time of renewal, the permission shall automatically be renewed, unless defaults exist. In case of renewal, rate prevailing at the time of renewal shall be charged.

5. Charges for granting licence for use of highway land: For the purpose of licence fee/lease rentals, the utilities have been divided into two categories; i) Public utilities and b) Industrial utilities as per the details given in Annexure I.

License Fee/lease rentals described below is for Industrial utilities. The license fee for Public utilities shall be 33% of the fee prescribed for Industrial utilities.

5.1 The following methodology shall be followed for license fees/lease rental determination for utility service lines other than localized infrastructure facilities like towers, repeaters and junction boxes).

License Fees (Rs/sq m/ month) = (Utilized NH land area X prevailing Circle Rate of land per unit area) / (10 x 12) where,

Utilized NH land area = Outer diameter/width of the concerned utility line X length

5.2 The following methodology shall be followed for license fees/lease rental determination for utility services such as towers/repeaters/ junction boxes etc.

License Fees (Rs/sq m/ month) = (Utilized NH land area X prevailing Circle Rate of land per unit area) / (10 x 12) where,

Utilized NH land area = Projection of utility on the ground including area of support system/tower

However, for public utilities, area below the support system/tower shall only be charged.

5.3 Fee shall have to be paid in advance for the period for which permission is granted. In case of renewal, rate prevailing at the time of renewal shall be charged. Delay in deposition of fee shall attract interest @ 15% per annum compounded annually.

5.4 A system to redress grievances and to consider relaxation from the guidelines, in exceptional cases, shall be notified separately and shall be effective from the date of notification.

6. All required restoration, maintenance work subsequent to laying of utility services shall be required to be undertaken by the Licensee at its cost either by itself or through its authorized representative in consultation with the Authority as per predetermined time schedule and quality standards. To process for the granting of permission and prior to signing of Lease agreement, a Performance Bank Guarantee for an amount based on per route metre with a validity of one year initially, in the prescribed format (extendable if required till satisfactory completion of work) shall have to be furnished by the utility service provider/ Licensee, as a security against improper restoration of ground in terms of

Mang Kumar

filling/unsatisfactory compaction damages caused to other underground installations/utility services & interference, interruption, disruption or failure caused thereof to any services etc.; Utility services such as pipes etc. (rate in per sq m)

provided in the ducts already provided

Rs 50

≤ 300 mm dia/width

Rs 100

> 300 mm dia/width but ≤ 1000 mm

Rs 250

> 1000 mm

Rs 500

Utility services such as towers etc (rate in Rs per sq m)

Rs 100

In case the Licensee fails to discharge the obligation of making good of the excavated trench/other restoration work, the Authority shall have a right to make good the damages caused by excavation, at the cost of the Licensee and recover the amount by forfeiture of the Bank Guarantee. In case, the Performance Bank Guarantee is invoked as mentioned above, the Licensee shall be required to replenish and reinstate the required Performance Bank Guarantee within one month of such invoking.

Notwithstanding this, the Licensee shall be liable to pay full compensation to the aggrieved Authority/ its designated agency for any damage sustained by them by reason of the exercise of the RoW facility.

7. The Authority shall enter into a License Agreement with the respective utility service provider in the format enclosed (Appendix) including any other conditions imposed by Highway Administration, to ensure safe and uninterrupted flow of traffic. Post signing of the agreement, the utility service provider shall be designated as 'Licensee' for the purpose of this project and will be authorized to install and operate utility services within the NH RoW. However, utility services shall be made operational by the Licensee only after a completion certificate to the effect is issued by the Highway Administration.

Encls: As above.

Manoj Kumar

(Manoj Kumar)

Executive Engineer(NFSG) (S,R&T) (Roads)
For Director General (Road Development) & SS

Copy to:

1. All Technical Officers in the Ministry of Road Transport & Highways
2. All ROs and ELOs of the Ministry
3. The Secretary General, Indian Roads Congress
4. The Director, IAHE
5. Technical circular file of S&R (R) Section
6. NIC-for uploading on Ministry's website under "What's new"

Copy for kind information to:

7. PS to Hon'ble Minister (RTH&S)
8. PS to Hon'ble MOS (RTH&S)
9. Sr. PPS to Secretary (RT&H)
10. PPS to DG (RD) & SS
11. PPS to SS&FA
12. PS to ADG-I/ ADG-II
13. PS to JS (T)/ JS (H)/ JS (LA&C)/ JS (EIC)

PUBLIC UTILITY PROVIDER AND INDUSTRIAL INFRASTRUCTURE

A. Public Utility Provider

A **Public Utility Provider** in context of this Guideline shall mean any organization that provides and maintains the infrastructure for a public service like electricity, gas, water supply, telecom cables and sewage disposal subject to applicable regulation.

B. Eligible activities for Industrial Units or 'Industrial Infrastructure'

Industrial Infrastructure in context of this Guideline shall mean any physical infrastructure that is required to facilitate industrial operations and is constructed, operated and maintained along/across Right of Way of National Highways. Such infrastructure shall include the following:

- a. Underground & above ground pipelines including provisions for booster pumping facilities, maintenance bays and other required support infrastructure for transport of legally permitted materials for industrial usage by a business entity having valid license for industrial operations.
- b. Conveyor Belts including provisions for maintenance bays and other required support infrastructure for transport of legally permitted materials, by a business entity having valid license for industrial operations.
- c. Power cables/wires etc. meant for industrial usage by a business entity having valid license for industrial operations.
- d. Any other such associated industrial infrastructure facility.