



# भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय)

## National Highways Authority of India

(Ministry of Road Transport and Highways)

कर्नाटक क्षेत्र, क्षेत्रीय कार्यालय, बेंगलुरु

Karnataka Region, REGIONAL OFFICE, BENGALURU

बेंगलूरु - तुमकूर सड़क (एन.एच-४), एम. एस. रामय्या इंकलेव, नागसंद्रा मेट्रो स्टेशन के बगल में, बेंगलूरु - ५६० ०७३.  
Bengaluru - Tumakuru Road (NH-4), M.S. Ramaiah Enclave, Beside Nagasandra Metro Station, Bengaluru - 560 073

Tele : 080 - 28397156  
: 080 - 28397171  
Fax : 080 - 28377171  
Email : robangalore@nhai.org  
ronhaibangalore@gmail.com



भारतमाला  
प्रगति के पथ पर अग्रसर  
BHARATMALA  
ROAD TO PROSPERITY

No. NHAI/RO-BNG/22020/03/2020-21/ 736

Date: 11.06.2020

### INVITATION OF PUBLIC COMMENTS

**Sub:** Two/Four Laning of BRT Tiger Reserve Boundary to Bangalore Section of NH-209 (Existing Chainage from 287.520 to 461.550) design chainage from Km. 287.520 to Km 458.420 in the State of Karnataka on Hybrid Annuity mode under NHDP Phase - IV-**Permission for laying 66Kv Single Circuit 90mm XLPE UG Cable from Chainage 449.200 to Km. 458.400 for a route length of 9.2 Km (9200 meters) by open trench method and road crossing at Chainages 449.290, 452.440, 453.040, 453.860, 455.60 & 456.100 by HDD method-reg.**

**Ref:**

1. BMRCL letter No. BMRCL/051/ELE/2017/Vol-1/9090 dated. 03.01.2020
2. PIU-Ramanagara letter No. NHAI/PIU-RMNG/12019/02/2019-20/2551 dated. 07.01.2020
3. Independent Engineer, letter No. TPF-SCIA/011/TL/NHAI/2020/1240 dated. 10.01.2020
4. PIU-Ramanagara letter No. NHAI/PIU-RMNG/12019/02/2019-20/2600 dated. 13.01.2020
5. BMRCL letter No. BMRCL/051/ELE/2017/Vol-1/10960 dated. 15.02.2020
6. PIU-Ramanagara letter No. NHAI/PIU-RMNG/12019/03/2019-20/3022 dated. 24.02.2020
7. This office letter No. NHAI/RO-BNG/22020/03/2019-20/5123 dated. 09.03.2020
8. Concessionaire letter No. SBHPL/NHAI/BRT/19-20/255 dated. 18.03.2020
9. Independent Engineer, letter No. TPF-SCIA/011/TL/NHAI/20-21/1308 dated. 27.05.2020
10. PIU-Ramanagara letter No. NHAI/PIU-RMNG/12019/03/2020-21/232 dated. 01.06.2020

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PD PIU-Ramanagara vide letter cited 6<sup>th</sup> above, submitted the proposal for laying 66Kv Single Circuit 90mm XLPE UG Cable from Chainage 449.200 to Km. 458.400 for a route length of 9.2 Km (9200 meters) by open trench method and road crossing at Chainages 449.290, 452.440, 453.040, 453.860, 455.60 & 456.100 by HDD method for seeking approval of Competent Authority. Based on request made by BMRCL and recommendation of IE vide letter cited 1<sup>st</sup> & 3<sup>rd</sup> above respectively.

As per para-4 of Ministry's Circular No RW/NH-33044/29/2015/S & R (R) dated 22.11.2016, the Highway Administration 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).

In view of the above, the comments/objections of affected public are hereby invited with reference to Ministry's circular dated 22.11.2016 for the above mentioned proposal. The objections/comments may be addressed to the below mentioned address, which should reach by this office within 30days from the date of publication beyond which no comments shall be entertained.

**Regional Officer**

National Highways Authority of India

Regional Office

Bengaluru-Tumakuru Road (NH-4),

M.S. Ramaiah Enclave,

Beside Nagasandra Metro Station,

Bengaluru - 560073

Email Id: ronhaibangalore@gmail.com & robangalore@nhai.org

This is issued with the approval of Competent Authority.

Yours faithfully,



Dy. General Manager (T)

**Copy to:-**

1. The Web admin, NHAI, HQ, New Delhi for Uploading on NHAI's website.
2. Senior Technical Director, NIC, Transport Bhawan, New Delhi- 110001 for uploading on Ministry's website.
3. Project Director, NHAI, PIU-Ramanagara for Information.
4. Sh. Sanjay Singhal, Executive Director (Traction) BMRCL, 3<sup>rd</sup> Floor, BMTC Complex, K.H Road, Shantinagara, Bangalore- 560027 - for information.





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National Highways Authority of India  
(सड़क परिवहन एवं राजमार्ग मंत्रालय) भारत सरकार  
(Ministry of Road Transport and Highways)  
Government Of India



NHAI/PIU-RMNG/12019/03/2019-20-3022

24.02.2020

To

**The Regional officer**  
National Highway Authority of India  
Regional office,  
14<sup>th</sup> Km, Nagasandra Village,  
Bangalore-Tumkur Road,  
Bangalore-560073

**Sub:** Two/Four Laning of BRT Tiger Reserve Boundary to Bangalore Section of NH-209 Existing Chainage from Km 287.520 to 461.550 (Design Chainage from Km 287.520 to Km 458.420) in the state of Karnataka on Hybrid Annuity mode under NHDP-IV-Permission for laying 66kV Single Circuit 90 mm XLPE U.G Cable from Chainage 449.200 Km 458.400 km for a route length of 9.2 Km (9200 meters) by open trench method and road crossing at Chainages 449.29, 452.44, 453.04, 453.86, 455.60 and 456.10 by HDD method -reg

**Ref:** 1) BMRCL letter no. BMRCL/051/ELE/2017/Vol-1/9090 dated 03.01.2020  
2) This office letter no. NHAI/PIU-RMNG/12019/02/2019-20/2551 dated 07.01.2020  
3) IE, letter no. TPF-SCIA/011/TL/NHAI/2020/1240 dated 10.01.2020  
4) This office letter no. NHAI/PIU-RMNG/12019/02/2019-20/2600 dated 13.01.2020  
5) BMRCL letter no. BMRCL/051/ELE/2017/Vol-1/10960 dated 15.02.2020

Sir,

Please refer to M/s BMRCL letter cited (1), requested permission for laying 66kV Single Circuit 90 mm XLPE U.G Cable from Chainage 449.200 Km 458.400 km for a route length of 9.2 Km (9200 meters) by open trench method and road crossing at Chainages 449.29, 452.44, 453.04, 453.86, 455.60 and 456.10 by HDD method. Accordingly, PIU vide letter cited (2), requested IE & Concessionaire to submit the comments/report as per site condition and MORT&H Norms.

In this regard, IE, TPF GETINSAL EUROESTUDIOUS, vide letter cited (3), has verified the proposal as per site condition, MORT&H Norms and submitted their consent/NOC for laying and crossing OFC from M/s BMRCL to certain condition (Copy Enclosed).

Now, M/s BMRCL vide letter cited (5), has submitted the License fee of Rs. 1,98,87,714/- and Bank guarantee of Rs.15,47,000 /-(Copy enclosed).

In view of the above, PIU has verified the report submitted by IE and as per MORT&H Norms. Accordingly, it is recommended to accord approval of competent authority for laying 66kV Single Circuit 90 mm XLPE U.G Cable from Chainage 449.200 Km 458.400 km for a route length of 9.2 Km (9200 meters) by open trench method and road crossing at Chainages 449.29, 452.44, 453.04, 453.86, 455.60 and 456.10 by HDD method.

Thanking you,

Yours faithfully,

(B.T Sridhara)

GM (Tech) & Project Director  
NHAI, PIU-Ramanagara

Encl: One copy of Proposal

Copy to: M/s BMRCL- for information

Project Implementation Unit : Ramanagara

बसवनपुर (रमदेवरपाद), रामनगर, कर्नाटक - ५६२१२८ Basavanapura (Ramadevarapada), Ramanagara, Karnataka - 562128

Phone No.: 8277 - 385842, 080 - 29780089, E-mail : piuramanagara@gmail.com, piuramanagara@nhai.org

Head Quarters : G-5 & 6. Sector -10, Dwarka, New delhi -110075. Ph.: 011-2507410



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(Ministry of Road Transport and Highways)  
Government Of India



24.02.2020

**Certificate**

**Sub:** Two/Four Laning of BRT Tiger Reserve Boundary to Bangalore Section of NH-209 Existing Chainage from Km 287.520 to 461.550 (Design Chainage from Km 287.520 to Km 458.420) in the state of Karnataka on Hybrid Annuity mode under NHDP-IV-Permission for laying 66kV Single Circuit 90 mm XLPE U.G Cable from Chainage 449.200 Km 458.400 km for a route length of 9.2 Km (9200 meters) by open trench method and road crossing at Chainages 449.29, 452.44, 453.04, 453.86, 455.60 and 456.10 by HDD method -reg

(i), It is certified that any other location of the electric cable would be extremely difficult and Unreasonable costly and the Installation of Underground Electrical Cable within ROW will not adversely affect the design, stability & traffic of the highway nor the likely future improvement such as widening of the carriageway, easing of curve etc"

(ii) for 2 to 4-Lanning Where feasibility is available " I do certify that there will be no hindrance to proposed 2/4-laning based on the feasibility report considering proposed structures at the said location " In case feasibility report is not available" I do certify that sufficient ROW is available at site for Accommodating proposed six-laning"

  
(B.T Sridhara)

GM (Tech) & Project Director  
NHAI, PIU-Ramanagara  
PIU, NHAI  
Ramanagara

**Project Implementation Unit : Ramanagara**

बसवनपुर (रमदेवरपाद), रामनगर, कर्नाटक - ५६२१२८ Basavanapura (Ramadevarapada), Ramanagara, Karnataka - 562128

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This is to certify that the proposed for laying 66kV Single Circuit 90 mm XLPE U.G Cable from Chainage 449.200 Km 458.400 km for a route length of 9.2 Km (9200 meters) by open trench method and road crossing at Chainages 449.29, 452.44, 453.04, 453.86, 455.60 and 456.10 by HDD method is confirming to all standard conditions issued vide MORT&H circular RW/NH-33044/29/2015 S&R dated 22.11.2016.

  
(B.T Sridhara)  
GM (Tech) & Project Director  
NHAI, PIU-Ramanagara  
Ramanagara

Project Implementation Unit : Ramanagara

बसवनपुर (रामदेवरपाद), रामनगर, कर्नाटक - ५६२१२८ Basavanapura (Ramadevarapada), Ramanagara, Karnataka - 562128

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It is certified that the proposal permission is entered in the register of records of the permission in the prescribed Performa (copy enclosed).

**(B.T Sridhara)**  
GM (Tech) & Project Director  
NHAI, PIU-Ramanagara  
Project Director  
PIU, NHAI  
Ramanagara

**Project Implementation Unit : Ramanagara**

बसवनपुर (रामदेवरपाद), रामनगर, कर्नाटक - ५६२१२८ Basavanapura (Ramadevarapada), Ramanagara, Karnataka - 562128

**Phone No.:** 8277 - 385842, 080 - 29780089, **E-mail :** piuramanagara@gmail.com, piuramanagara@nhai.org

Head Quarters : G-5 & 6. Sector -10, Dwarka, New delhi -110075. Ph.: 011-2507410

**Format for maintaining record of right of way permission granted for laying of OFC etc.**

- 1 Name of the State: Karnataka  
 2 Name of the Agency: NHAI, PIU-Ramanagara  
 3 NH Number: NH-209

Sl No.	Location	Left or Right side of NH(towards increasing Chainage/ Km	Section and Reach	Kind of Service	Name of Licensee and contact address	Date of signing of agreement	Date of validity of Agreement	Date of last inspection of site	Any deviation from most standard norms	Remarks
2	Km 449.200 to Km 458.400	LHS & RHS		Permission for laying 66kV Single Circuit 90 mm XLPE U.G Cable from Chainage 449.200 Km 458.400 km for a route length of 9.2 Km (9200 meters) by open trench method and road crossing at Chainages 449.29, 452.44, 453.04, 453.86, 455.60 and 456.10 by HDD method	The Executive Director( Traction) Bangalore Metro Rail Corporation Limited (BMRCL) 3rd Floor, BMTC Complex, K.H Road, Shantinagar, Bangalore	-	-	-	-	-

  
 Project Director  
 PIU, NHAI  
 Ramanagara





# ಬೆಂಗಳೂರು ಮೆಟ್ರೋ ರೈಲ್ ನಿಗಮ ನಿಯಮಿತ

ಪಿ.ಎಂ.ಒ.ಸಿ. ಕಾಂಪ್ಲೆಕ್ಸ್, 3ನೇ ಮಹಡಿ, ಕೆ.ಎಲ್. ಪನುಮಂತಯ್ಯ ರಸ್ತೆ, ಶಾಂತಿನಗರ, ಬೆಂಗಳೂರು-560 027

**BANGALORE METRO RAIL CORPORATION LIMITED**

3<sup>rd</sup> Floor, BMTC Complex, K.H. Road, Shanthinagar, Bangalore-560027.

BMRCL/051/ELE/2017/Vol-II 9090

Jan 03, 2020

To,  
Project Director,  
National Highway Authority of India,  
Hill View Resort Road, Basavanapura,  
Ramadevarapada, Mysore Road,  
Ramanagara - 562 128

Dear Sir,

Sub: Concurrence for 66 kV UG Cable Route on NH-209 for Bangalore Metro Rail Phase-II Project.

Ref: This Office Letter No. BMRCL/051/ELE/2017/Vol-1/6391 dated 18.10.2019.

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BMRCL has awarded Phase-II Tenders for receiving Sub Stations at various locations for availing Power Supply from KPTCL at 66kV Level. In this connection, cable route survey has been carried out by KPTCL and feasibility for 66kV, 630 sqmm Under Ground Cabling has been ascertained for the upcoming BMRCL Receiving Sub-station(RSS)

BMRCL RSS	Chainage With respect to NHAI		Landmark		GPS Coordinates		Road	Length in km
	From	To	From	To	From	To		
Anjana pura	Ch 449.2	Ch 453.8	Somanahalli Substation	Udipalya Bus Stop (MTR Junction)	12°47'8.1 7"N 77°30'5.9 8"E	12°49'12.9 7"N 77°30'49.8 6"E	Existing Road	4.6
	Ch 453.8	Ch 458.4	Udipalya Bus Stop (MTR Junction)	Kanakapu ra Road Exit toll	12°49'12. 97"N 77°30'49. 86"E	12°51'27.4 1"N 77°31'36.5 5"E	New Road	4.6

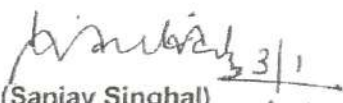
HDD Crossing	
At Ch 449.290	Road Crossing
At Ch 452.440	Road Crossing
At Ch 453.040	Road Crossing
At Ch 453.860	Road Crossing
At Ch 455.600	Road Crossing
At Ch 456.100	Road Crossing



In this regard, KPTCL has issued feasibility and detailed survey report for the above mentioned UG Cable route. The plan and sectional drawings attached here with. After several walk down surveys and joint inspection with Independent Engineer and Concessionaire, the proposed route drawing has been finalised. Necessary documents in accordance with the guidelines of NHAI is attached for your approval.

It is therefore requested to review the above cable route drawings and concur your approval for the same. Also, request you to intimate us the requisite fee to be paid for further necessary action.

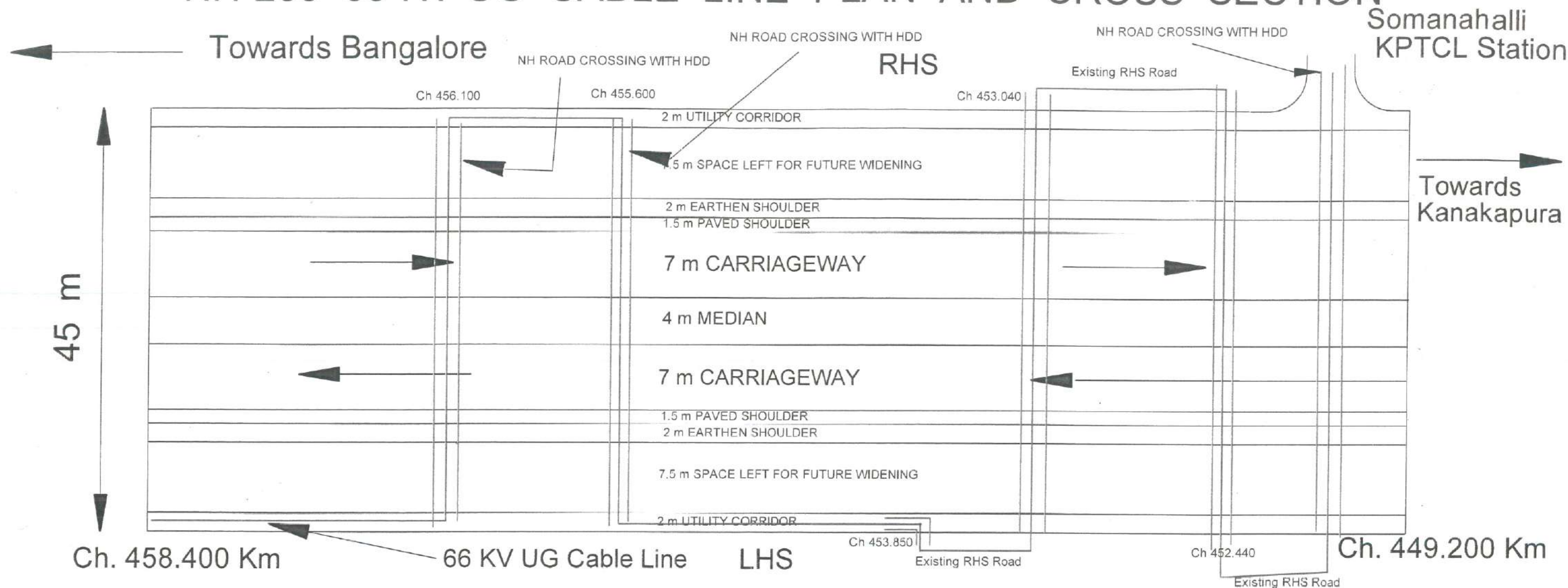
Yours Sincerely,

  
(Sanjay Singhal)  
Executive Director (Traction)

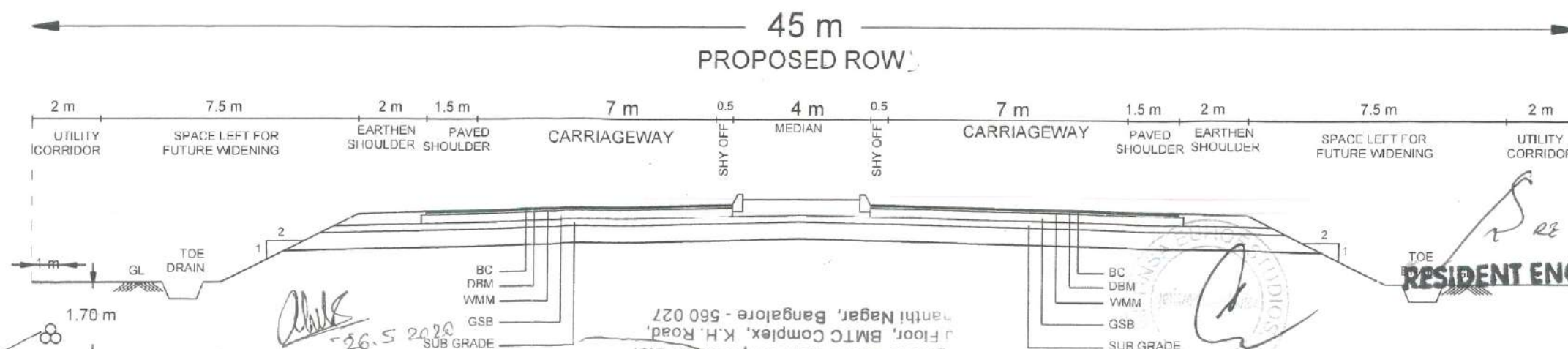
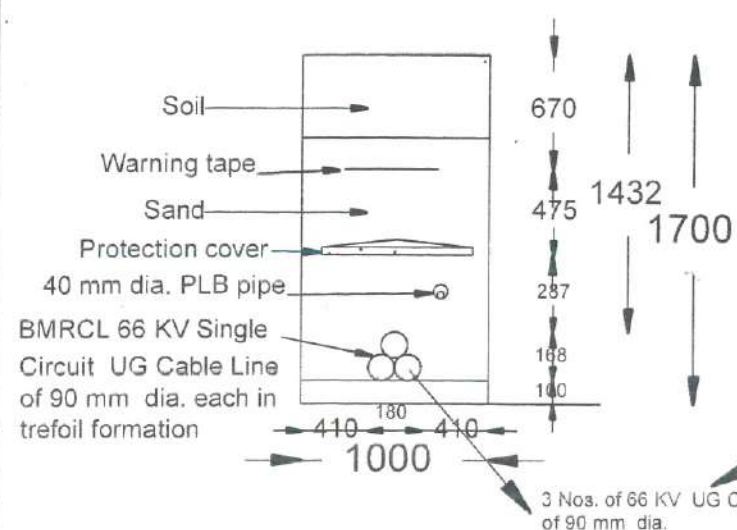
Encl: As above.

Copy to: Director (RSE) - for kind information

# NH-209 66-KV UG CABLE LINE PLAN AND CROSS SECTION



## CROSS SECTIONAL DETAILS OF 66 KV UG CABLE (OPEN TRENCH METHOD)



**P. SUDARSHAN RAO**  
Executive Engineer (TRACTION)  
BMRCL Metro Rail Corporation Ltd.  
3 Floor, BMTC Complex, K.H. Road,  
Shanthi Nagar, Bangalore - 560 027

**P. SUDARSHAN RAO**  
Executive Engineer (TRACTION)  
BMRCL Metro Rail Corporation Ltd.  
3 Floor, BMTC Complex, K.H. Road,  
Shanthi Nagar, Bangalore - 560 027

**RESIDENT ENGINEER**

Sl. No.	Starting Chainage	Ending Chainage	Length in Km
1	449.200	458.400	9.200