भारत सरकार
सड़क परिवहन और राजमार्ग मंत्रालय
क्षेत्रीय कार्यालय, भुवनेश्वर
प्लट संख्या - 184 (फायार स्टेशन चौक के पास)
बरमुन्डाँ, भुवनेश्वर-751003
दूरभाषा : (0674) 2960994 & 2952994
ई-मेल :robbsr.morth@gmail.com

सत्यमेव जयते

Government of India
Ministry of Road Transport & Highways
Regional Office, Bhubaneswar
Plot No. - 184 (Near Fire Station Square)
Baramunda, Bhubaneswar-751003
Ph. No.: (0674) 2960994 & 2952994
E-mail: robbsr.morth@gmail.com

No. RO/BBSR/Utility Services/NH-59/BLGR/117/2025 - 933 Date: 05th Aug, 2025

Invitation of Public Comments

Sub: Permission for laying underground drinking water pipeline in Muribahal Block under mega water supply project by RWS&S Division, Bolangir along NH-59 from km 21/800 to 38/287 (RHS) & km 38/637 to 43/460 (LHS) and across at 15 locations in Bolangir district - reg.

1. Superintending Engineer, National Highway Division, Bolangir vide letter dated 10.07.2025 has submitted a proposal on the mentioned subject as detailed below:

2. Along the NH:

Sl. No.	NH Chainage	Available RoW (m)	Dia of Pipe including casing (mm)	Carriageway width (m)	Depth of laying of utility from GL	Length (km)	Methodology
1	Km 21/800 to 38/287 (RHS)	20 to 40 m	110 to 310 mm	7.0 m	1.20 m	16.487	Open trench
2	Km 38/637 to 43/460 (LHS)	20 to 40 m	110 to 360 mm	7.0 m	1.20 m	4.823	Open trench
	Total					21.310	

3. Across the NH:

Sl. No.	NH Chainage	Available RoW (in m)	Dia of Pipe including casing (In mm)	Carriageway width (in m)	Depth of laying of utility from GL	Methodology
1	km 22/625, 23/776, 24/343, 25/428, 31/423, 33/117, 34/674, 35/888, 37/881, 38/756, 40/206, 40/939, 41/653, 42/740 & 43/460	10.0 to 25.0 m	90 to 400 mm	7.0 m	1.20 m	HDD

2. As per Ministry's OM No. RW/NH-33044/29/2015/S&R(R) dated 22nd November, 2016 the Highway Administrator will put out the application in the public domain for 30 days for seeking claims and objections (on grounds of public inconvenience, safety and general public interest, if any.

3. In view of the above, comments of public for claims/objections, if any, on the above proposal are invited online as well as in hard copy. The strip plan/location details are enclosed herewith. The same should reach to the below mentioned address within 30 days from the date of uploading it in the website, beyond which no objection will be considered.

Address:
Regional Officer,
Ministry of Road Transport & Highways,
Plot No -184, Near Fire Station Sq.,
Baramunda, Bhubaneswar - 751003.

Yours faithfully,

(Sudhansu Sekhar Sahu)
Senior Technical Assistant
For Regional Officer

Copy to:

1) The Senior Technical Director, NIC, Transport Bhawan, New Delhi - 110001- along with strip chart for uploading on the Ministry's website.
2) General public with request to furnish comments, if any, to the above mentioned address or by e-mail to "robbsr.morth@gmail.com

प्राप्ती संख्या 1053
ता 15-07-2025
सड़क परिवहन और राजमार्ग मंत्रालय
क्षेत्रीय कार्यालय, भुवनेश्वर

OFFICE OF THE EXECUTIVE ENGINEER
NATIONAL HIGHWAY DIVISION, BOLANGIR.

E-MAIL I.D. :- eenhbolangir@gmail.com

No. 2044 Date 10.07.2025

To,

The Regional Officer (Civil),
Ministry of Road Transport & Highways,
Bhubaneswar- 751003.

Sub: - "Permission to lay under Ground Drinking Water Supply Pipeline under Muribahal Block under Bolangir District under mega water supply project by RWS&S Division, Bolangir along NH-59 land from km 21+800 to km 38+287 (RHS), from km 38+637 to km 43+460 (LHS) and across NH-59 land (15 locations) at km 22+625, km 23+776, km 24+343, km 25+428, km 31+423, km 33+117, km 34+674, km 35+888, km 37+881, km 38+756, km 40+206, km 40+939, km 41+653, km 42+740, km 43+460": **Submission of proposal-reg.**

Ref: - Letter no. 3912, Dated 03.07.2025 of the Superintending Engineer, RWS&S Division, Balangir.

Sir,

In inviting a kind reference to the subject cited above, it is to submit here with the above Permission to lay under Ground Drinking Water Supply Pipeline on NH-59 submitted by the Superintending Engineer, RWS&S Division, Balangir vide his letter u/r along with 1) Draft Agreement, 2) Duly Signed Checklist, 3) Duly Signed plan/ diagram showing the proposed Pipeline, 4) Calculation sheet for Performance Bank Guarantee & License Fee, 5) BMV or Circle Rate, 6) Undertaking & certificate by the Licensee, 7) Duly signed ROW Statement & 8) Site Inspection report for favour of your kind review & approval.

This is for favour of your kind information and necessary action.

Encl.: As above

Yours faithfully,

10.07.25

Superintending Engineer
NH Division Bolangir

10.7.25

Memo No. 2045 Date. 10.07.2025

Copy submitted to the Chief Engineer, National Highways (Odisha), Bhubaneswar for favour of kind information and necessary action.

10.07.25

Superintending Engineer
NH Division Bolangir

10.7.25

Please examine

18/7

Sr. TA

Memo No. 2046 Date. 10.07.2025

Copy submitted to the Chief Construction Engineer, Western NH Circle, Sambalpur for favour of kind information and necessary action.

Superintending Engineer
NH Division Bolangir
10.7.25

Memo No. 2047 Date. 10.07.2025

Copy submitted to the Superintending Engineer, RWS&S Division, Balangir for favour of kind information and necessary action.

Superintending Engineer
NH Division Bolangir
10.7.25

SITE INSPECTION REPORT

Permission to lay under Ground Drinking Water Supply Pipeline under Muribahal Block under Bolangir District under mega water supply project by RWS&S Division, Bolangir **along NH-59 land from km 21+800 to km 38+287 (RHS), from km 38+637 to km 43+460 (LHS) and across NH-59 land (15 locations) at km 22+625, km 23+776, km 24+343, km 25+428, km 31+423, km 33+117, km 34+674, km 35+888, km 37+881, km 38+756, km 40+206, km 40+939, km 41+653, km 42+740, km 43+460 under National Highway Division, Bolangir, Odisha** was inspected at respective chainages in respect documents & layout plan submitted by the Superintending Engineer, RWSS Division, Bolangir. It was found that the aforesaid work is feasible and in order as per Ministry's Guideline dated 22.11.2016 as well as the amendment circular 17.04.2023, Hence the proposal is recommended for approval.

10.7.25
Executive Engineer
NH Sub Division, Titilagarh

10/07/25
Superintending Engineer
NH Division, Bolangir

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ଗ୍ରାମ୍ୟ ଜଳ ଯୋଗାଣ ଓ ପରିମଳ ଖଣ୍ଡ ବଲାଙ୍ଗିର
OFFICE OF THE SUPRINTENDING ENGINEER
RURAL WATER SUPPLY & SANITATION DIVISION
BALANGIR

lear R.T.O. Office
alangir, Odisha-, Pin-767001
mail:eerwssbalangir@gmail.com

OFFICE OF THE EXECUTIVE ENGINEER No. 1331 Dt. 04.07.25 N.H. DIVISION, BOLANGIR

Letter No. 3912 dated 3-7-25

To

The Superintending Engineer,
N.H. Division, Balangir

Sub- Submission of necessary document for obtaining approval from regional office Mort&H, Bhubaneswar.

Sir,

With reference to the subject cited above, I am submitting the following documents for obtaining approval from the regional office, MoRTH, Bhubaneswar, regarding the laying of the distribution network pipe line along and across NH-59.

1.Draft Agreement
2.Duly Signed Checklist
3.Duly Signed plan/diagram showing the proposed pipe line
4.Calculation sheet for performance Bank Guarantee & License Fee
5.BMV or Circle Rate
6.Undertaking & Certificate by the Licensee
7.Duly signed ROW Statement

Therefore, Kindly consider this submission and take necessary action at you earliest convenience.

Yours faithfully,

3/7/25

Superintending Engineer
RWS&S Division, Balangir.

3/7/25

Copy submitted to:

1. The Project Manager, MEIL camp at Balangir for information and necessary action.
2. The Sub-Divisional Officer, RWS&S Sub-Division, Kantabanji for information and necessary action.
3. The Collector & District Magistrate, Balangir/ Chief Development Officer-cum-Executive Officer, Zilla Parishad, Balangir for favour of kind information.
4. The Additional Chief Engineer, RWS&S Circle, Balangir for favour of kind information and necessary action.
5. The Engineer-In-Chief, RWS&S Odisha, Bhubaneswar for favour of kind information and necessary action.

Received 4.7.25

Superintending Engineer
RWS&S Division, Balangir

ESW 04/07/25

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ଗ୍ରାମ୍ୟ ଜଳ ଯୋଗାଣ ଓ ପରିମଳ ଖଣ୍ଡ ବଲାଙ୍ଗିର
OFFICE OF THE SUPRINTENDING ENGINEER
RURAL WATER SUPPLY & SANITATION DIVISION
BALANGIR

Near R.T.O. Office
Balangir, Odisha-, Pin-767001
Email:eerwssbalangir@gmail.com

Certificates by the applicant

For condition no. 5.12 & 2.5

We the applicant for Laying of Under Ground Pipeline along & across NH-59 for Execution of Mega Rural piped water supply project Pertaining to Mega PWS for Patnagarh , Gudvela and Muribahal Block in Balangir District including 05 years operation & Maintenance".

i) Laying of Under Ground Pipeline will not have any deleterious effects on any of the bridge components and roadway safety for traffic.

(ii) for 6-laning "We do undertake that I/We will relocate service road / approach road / utilities at my / our own cost notwithstanding the permission granted within such time as will be stipulated by NH" for future six lining or any other development.

(iii) No utility services shall be laid over existing culvert, 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.

3.7.26

Superintending Engineer
RWS&S Division, Balangir

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ଗ୍ରାମ୍ୟ ଜଳ ଯୋଗାଣ ଓ ପରିମଳ ଖଣ୍ଡ ବଲାଙ୍ଗିର
OFFICE OF THE SUPRINTENDING ENGINEER
RURAL WATER SUPPLY & SANITATION DIVISION
BALANGIR

Near R.T.O. Office
Balangir, Odisha-, Pin-767001
Email:eerwssbalangir@gmail.com

Certificates by the Superintending Engineer

For condition no. 7.2 & 12

(i) "It is certified that any other location of the pipeline would be extremely difficult and Unreasonably costly and installation of Under Ground Pipeline within ROW will not adversely affect the design, stability & Traffic safety of the Highway nor the likely future Improvement such,

(ii) For 6 lining

(a) Where feasibility is available "I do certify that there will be no hindrance to the proposed six- lining based on the feasibility report considering proposed structure at the said location."
(b) In case feasibility report is not available "I do certify that sufficient ROW is available at site for accommodating proposed six lining".

I will enter the proposed permission in the register of records of the permissions in the prescribed proforma.

3.7.25
Superintending Engineer
RWS&S Division, Balangir

Annexure-II(A)

Calculation for utilization of NH Land area and licence fees

1.Along the ROW of NH-59

With reference to MORT&H circular no.RW/NH33044/29/2015/S&R*dated 22nd November 2016;utilise NH Land area=Outer Diameter (or) width of the concerned utility line X length

Sl No.	From Chainage	To Chainage	Side	Side	DI pipe Dia (in mm)	HDPE pipe Dia (in mm)	Total Dia (in mm)	Total Dia. (D) (in mtr)	Land Required/mtr	LHS Length in m.	RHS Length in m.	Total	Area(Sq.m)
1	21+800	22+564	Right			110	110	0.11	0.21	764		764	160.44
2	22+564	24+894	Right		150	160	310	0.31	0.41	2330		2330	955.3
3	24+894	26+424	Right		150		150	0.15	0.25	1530		1530	382.5
4	26+424	28+103	Right		150	125	275	0.275	0.375	1679		1679	629.625
5	28+103	31+313	Right		150		150	0.15	0.25	3210		3210	802.5
6	31+313	32+993	Right		150	125	275	0.275	0.375		1680	1680	630
7	32+993	33+587	Right		150		150	0.15	0.25		594	594	148.5
8	33+587	38+287	Right		200		200	0.2	0.3		4700	4700	1410
9	38+637	39+267		Left	150		150	0.15	0.25		630	630	157.5
10	39+267	40+817		Left	150	140	290	0.29	0.39		1550	1550	604.5
11	40+817	41+290		Left	200	160	360	0.36	0.46		473	473	217.58
12	41+290	41+530		Left		160+160	320	0.32	0.42		240	240	100.8
13	41+530	41+910		Left		160+160	320	0.32	0.42		380	380	159.6
14	41+910	42+730		Left		160	160	0.16	0.26		820	820	213.2
15	42+730	43+460		Left		110	110	0.11	0.21		730	730	153.3
TOTAL										**9513**	**11797**	**21310**	**6725.345**

E.E.
NH sub Division, Titlagarh

Superintending Engineer
RWS&S Division Balangir

Annexaure-II

Pipeline Laying Along NH Under NH-Division Balangir For Mega piped Water supply project Pertaining to 33 Villages of Muribahal Block

Sl No	Dia of Pipe (In mm)	Type of PiPE	ROW	Chainage		Length in RMT	Remarks
				From	To		
1	110	HDPE	Right	21+800	22+564	764	Open Trenching Method
2	150&160	DI&HDPE	Right	22+564	24+894	2330	Open Trenching Method
3	150	DI	Right	24+894	26+424	1530	Open Trenching Method
4	150&125	DI&HDPE	Right	26+424	28+103	1679	Open Trenching Method
5	150	DI	Right	28+103	31+313	3210	Open Trenching Method
6	150&125	DI&HDPE	Right	31+313	32+993	1680	Open Trenching Method
7	150	DI	Right	32+993	33+587	594	Open Trenching Method
8	200	DI	Right	33+587	38+287	4700	Open Trenching Method
9	150	DI	Left	38+637	39+267	630	Open Trenching Method
10	150&140	DI&HDPE	Left	39+267	40+817	1550	Open Trenching Method
11	200&160	DI&HDPE	Left	40+817	41+290	473	Open Trenching Method
12	160+160	HDPE&HDPE	Left	41+290	41+530	240	Open Trenching Method
13	160+160	HDPE&HDPE	Left	41+530	41+910	380	Open Trenching Method
14	160	HDPE	Left	41+910	42+730	820	Open Trenching Method
15	110	HDPE	Left	42+730	43+460	730	Open Trenching Method
Total						**21310**	

E.E. 10.7.25
NH Sub Division, Titlagarh

Superintending Engineer
N.H. Division, Balangir

Superintending Engineer
RWS&S Division Balangir

Annexaure-I

Crossing across NH Under, NH-Division Balangir For Laying of Water pipeline towards Mega piped Water supply project Pertaining to 33 villages of Muribahal Block

Sl No	Description	NH Details	Chainage Details	No of Pipeline to be Laid	Carrier Pipe		Casting Pipe	Remarks
					Dia of Pipe (In mm)	Type of Pipe	Type of pipe	
1	Crossing No-1	NH-59	22+625	2	200+150	Ducttile Iron & Ducttile Iron	MS Medium Class	Jack Pushing/HDD Method
2	Crossing No-2	NH-59	23+776	1	90	HDPE	MS Medium Class	Jack Pushing/HDD Method
3	Crossing No-3	NH-59	24+343	1	90	HDPE	MS Medium Class	Jack Pushing/HDD Method
4	Crossing No-4	NH-59	25+428	1	100	Ducttile Iron	MS Medium Class	Jack Pushing/HDD Method
5	Crossing No-5	NH-59	31+423	1	90	HDPE	MS Medium Class	Jack Pushing/HDD Method
6	Crossing No-6	NH-59	33+117	2	150+125	HDPE & Ducttile Iron	MS Medium Class	Jack Pushing/HDD Method
7	Crossing No-7	NH-59	34+674	1	90	HDPE	MS Medium Class	Jack Pushing/HDD Method
8	Crossing No-8	NH-59	35+888	1	100	Ducttile Iron	MS Medium Class	Jack Pushing/HDD Method
9	Crossing No-9	NH-59	37+881	2	100+90	HDPE & Ducttile Iron	MS Medium Class	Jack Pushing/HDD Method
10	Crossing No-10	NH-59	38+756	1	150	Ducttile Iron	MS Medium Class	Jack Pushing/HDD Method
11	Crossing No-11	NH-59	40+206	1	160	HDPE	MS Medium Class	Jack Pushing/HDD Method
12	Crossing No-12	NH-59	40+939	2	250+150	Ducttile Iron	MS Medium Class	Jack Pushing/HDD Method
13	Crossing No-13	NH-59	41+653	1	90	HDPE	MS Medium Class	Jack Pushing/HDD Method
14	Crossing No-14	NH-59	42+740	1	110	HDPE	MS Medium Class	Jack Pushing/HDD Method
15	Crossing No-15	NH-59	43+460	1	90	HDPE	MS Medium Class	Jack Pushing/HDD Method

E.E.
NH sub Division, Titlagarh
10.9.25

Superintending Engineer
N.H. Division, Bolangir
10/9/25

Superintending Engineer
RWS&S Division Balangir
10/9/25

Annexxure-I(A)

Total utilised Land area in NH-59 ROW for License fees & BG Calculation

Sl No.	Description	Crossing	Chainage	DI pipe Dia (in mm)	HDPE pipe Dia (in mm)	Total Dia (in mm)	Total Dia. (D) (in mtr)	Dia of Casing Pipe in mtr=(DX1.5) (Standard MS pipe dia considered)	Length of NH used (in mtr)	Area in Sq.mtr (LengthXDia) of Pipe	Remarks
1	Crossing across NH-59 for Execution of Mega PWS Project Pertaing to 33 GPs of Muribahal Block.	Crossing No-1	22+625	200+150		350	0.35	0.53	25	13.13	HDD/Jack Pushing Method
2		Crossing No-2	23+776		90	90	0.09	0.14	17	2.30	HDD/Jack Pushing Method
3		Crossing No-3	24+343		90	90	0.09	0.14	16	2.16	HDD/Jack Pushing Method
4		Crossing No-4	25+428	100		100	0.1	0.15	19	2.85	HDD/Jack Pushing Method
5		Crossing No-5	31+423		90	90	0.09	0.14	22	2.97	HDD/Jack Pushing Method
6		Crossing No-6	33+117	150	125	275	0.275	0.41	16	6.60	HDD/Jack Pushing Method
7		Crossing No-7	34+674		90	90	0.09	0.14	13	1.76	HDD/Jack Pushing Method
8		Crossing No-8	35+888	100		100	0.1	0.15	16	2.40	HDD/Jack Pushing Method
9		Crossing No-9	37+881	100	90	190	0.19	0.29	14	3.99	HDD/Jack Pushing Method
10		Crossing No-10	38+756	150		150	0.15	0.23	11	2.48	HDD/Jack Pushing Method
11		Crossing No-11	40+206		160	160	0.16	0.24	10	2.40	HDD/Jack Pushing Method
12		Crossing No-12	40+939	250+150		400	0.4	0.60	12	7.20	HDD/Jack Pushing Method
13		Crossing No-13	41+653		90	90	0.09	0.14	25	3.38	HDD/Jack Pushing Method
14		Crossing No-14	42+740		110	110	0.11	0.17	19	3.14	HDD/Jack Pushing Method
15		Crossing No-15	43+460		90	90	0.09	0.14	19	2.57	HDD/Jack Pushing Method
Total Land Area Utilized for Crossing in NH-59										59.295	

E.E.
NH sub division, Titlagarh
10.7.25

Superintending Engineer
N.H. Division, Balangir

Superintending Engineer
RWS&S Division Balangir
09/7/25

Detail of ROW Statement of Proposed Laying Pipe Line

Chainage	Proposal to Lay Pipeline LHS from Centre Line	Proposal to Lay Pipeline LHS from Centre Line	Proposal to Lay pipeline across NH in mtr	Diameter of Pipeline (mm) DI/HDPE	Diameter of MS Casing Pipeline in (mm)
22+625	12.50	12.50	25	350	600
23+776	8.50	8.50	17	90	150
24+343	8.00	8.00	16	90	150
25+428	9.50	9.50	19	100	150
31+423	11.00	11.00	22	90	150
33+117	8.00	8.00	16	275	450
34+674	6.50	6.50	13	90	150
35+888	8.00	8.00	16	100	150
37+881	7.00	7.00	14	190	300
38+756	5.50	5.50	11	150	250
40+206	5.00	5.00	10	160	250
40+939	6.00	6.00	12	400	600
41+653	12.50	12.50	25	90	150
42+740	9.50	9.50	19	110	200
43+460	9.50	9.50	19	90	150

Superintending Engineer
RWS&S Division Balangir

E.E.
NH Sub Division, Titilagarh

Superintending Engineer
N.H. Division, Balangir

Details of ROW Statement of proposed laying of Mega PWS Project to Muribahal at NH-59

SL NO.	CHAINAGE in KM	ROW AVAILABLE FROM CENTER LINE (MTR)	PROPOSAL TO LAY UGPL FROM CENTER LINE (MTR)	PROPOSED UGPL TO BE COVER DEPTH	SIDE OF THE ROAD	METHODOLOGY
1	22+625	Full ROW25	-	1.5 mtr.	Crossing	Jack Pushing
2	23+776	Full ROW17	-	1.5 mtr.	Crossing	Jack Pushing
3	24+343	Full ROW16	-	1.5 mtr.	Crossing	Jack Pushing
4	25+428	Full ROW19	-	1.5 mtr.	Crossing	Jack Pushing
5	31+423	Full ROW22	-	1.5 mtr.	Crossing	Jack Pushing
6	33+117	Full ROW16	-	1.5 mtr.	Crossing	Jack Pushing
7	34+674	Full ROW13	-	1.5 mtr.	Crossing	Jack Pushing
8	35+888	Full ROW16	-	1.5 mtr.	Crossing	Jack Pushing
9	37+881	Full ROW14	-	1.5 mtr.	Crossing	Jack Pushing
10	38+756	Full ROW11	-	1.5 mtr.	Crossing	Jack Pushing
11	40+206	Full ROW10	-	1.5 mtr.	Crossing	Jack Pushing
12	40+939	Full ROW12	-	1.5 mtr.	Crossing	Jack Pushing
13	41+653	Full ROW25	-	1.5 mtr.	Crossing	Jack Pushing
14	42+740	Full ROW19	-	1.5 mtr.	Crossing	Jack Pushing
15	43+460	Full ROW19	-	1.5 mtr.	Crossing	Jack Pushing
16	21+800 to 22+564 (NH-59) RHS	14	13.5	1.5 mtr.	RHS	Open Trench Method
17	22+625 to 22+839 (NH-59) RHS	19	18.5	1.5 mtr.	RHS	Open Trench Method
18	22+839 to 23+200 (NH-59) RHS	13	12.5	1.5 mtr.	RHS	Open Trench Method
19	23+200 to 23+585 (NH-59) RHS	10	9.5	1.5 mtr.	RHS	Open Trench Method
20	23+585 to 25+048 (NH-59) RHS	16	15.5	1.5 mtr.	RHS	Open Trench Method
21	25+048 to 26+351 (nh-59) RHS	17	16.5	1.5 mtr.	RHS	Open Trench Method
22	26+351 to 26+551 (NH-59) RHS	12	11.5	1.5 mtr.	RHS	Open Trench Method
23	26+551 to 26+751 (NH-59) RHS	17	16.5	1.5 mtr.	RHS	Open Trench Method
24	26+751 to 26+851 (NH-59) RHS	10	9.5	1.5 mtr.	RHS	Open Trench Method
25	26+851 to 28+339 (NH-59) RHS	18	17.5	1.5 mtr.	RHS	Open Trench Method
26	28+339 to 29+000 (NH-59) RHS	24	23.5	1.5 mtr.	RHS	Open Trench Method
27	29+000 to 30+000 (NH-59) RHS	16	15.5	1.5 mtr.	RHS	Open Trench Method
28	30+487 to 30+487 (NH-59) RHS	20	19.5	1.5 mtr.	RHS	Open Trench Method
29	30+487 to 32+233 (NH-59) RHS	17	16.5	1.5 mtr.	RHS	Open Trench Method
30	32+233 to 33+033 (NH-59) RHS	16	15.5	1.5 mtr.	RHS	Open Trench Method
31	33+033 to 33+533 (NH-59) RHS	12	11.5	1.5 mtr.	RHS	Open Trench Method

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32	33+533 to 34+185 (NH-59) RHS	18	17.5	1.5 mtr.	RHS	Open Trench Method
33	34+185 to 35+071 (NH-59) RHS	13	12.5	1.5 mtr.	RHS	Open Trench Method
34	35+071 to 35+871 (NH-59) RHS	9	8.5	1.5 mtr.	RHS	Open Trench Method
35	35+871 to 36+200 (NH-59) RHS	10	9.5	1.5 mtr.	RHS	Open Trench Method
36	36+200 to 36+806 (NH-59) RHS	19	18.5	1.5 mtr.	RHS	Open Trench Method
37	36+806 to 37+400 (NH-59) RHS	16	15.5	1.5 mtr.	RHS	Open Trench Method
38	37+400 to 37+800 (NH-59) RHS	12	11.5	1.5 mtr.	RHS	Open Trench Method
39	37+800 to 38+287 (NH-59) RHS	17	16.5	1.5 mtr.	RHS	Open Trench Method
40	38+637 to 39+255 (NH-59) LHS	13	12.5	1.5 mtr.	LHS	Open Trench Method
41	39+255 to 39+624 (NH-59) LHS	17	16.5	1.5 mtr.	LHS	Open Trench Method
42	39+624 to 40+101 (NH-59) LHS	20	19.5	1.5 mtr.	LHS	Open Trench Method
43	40+101 to 40+727 (NH-59) LHS	10	9.5	1.5 mtr.	LHS	Open Trench Method
44	40+727 to 41+653 (NH-59) LHS	17	16.5	1.5 mtr.	LHS	Open Trench Method
45	41+653 to 43+096 (NH-59) LHS	18	17.5	1.5 mtr.	LHS	Open Trench Method
46	43+096 to 43+445 (NH-59) LHS	20	19.5	1.5 mtr.	LHS	Open Trench Method
47	43+445 to 43+460 (NH-59) LHS	20	19.5	1.5 mtr.	LHS	Open Trench Method

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