सड़क परिवहन और राजमार्ग मंत्रालय
MINISTRY OF ROAD TRANSPORT & HIGHWAYS
भारत सरकार
Government of India

National Highways Authority of India
(Ministry of Road Transport & Highways)

Four Laning of Sethiyahopu-Cholopuram from Km. 65.960 to Km. 116.440 of NH-45C under NHDP-IV on Hybrid Annuity Mode Basis.

PATEL SETHIYAHOPU-CHOLOPURAM HIGHWAY PRIVATE LIMITED

MONTHLY PROGRESS REPORT

OCTOBER 2021

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Executive Summary

The old National Highway (NH -45C) runs through the state of Tamil Nadu. The project road is part of the 168 km long Vikravandi to Thanjavur section of the existing National Highway 45C (NH-45C). Recently MORTH has amended the number and Length of the National Highways. The old NH 12 in the state of Tamil Nadu has become the part of the New National Highway 36. It links Chennai with Thanjavur and is 418 km long.

The Sethiyahopu to Cholopuram section of NH-45C is an important link to connect Metropolitan city of Chennai to religious and tourist places of Cholopuram, Thanjavur, kumbakonam, Puducherry. The project is also expected to provide improved connectivity to other religious places & other major cities like Rameswaram, Madurai, Tiruchirappalli, etc. The Project stretches passing through the 03 nos. of districts of Cuddalore, Ariyalur and Thanjavur.

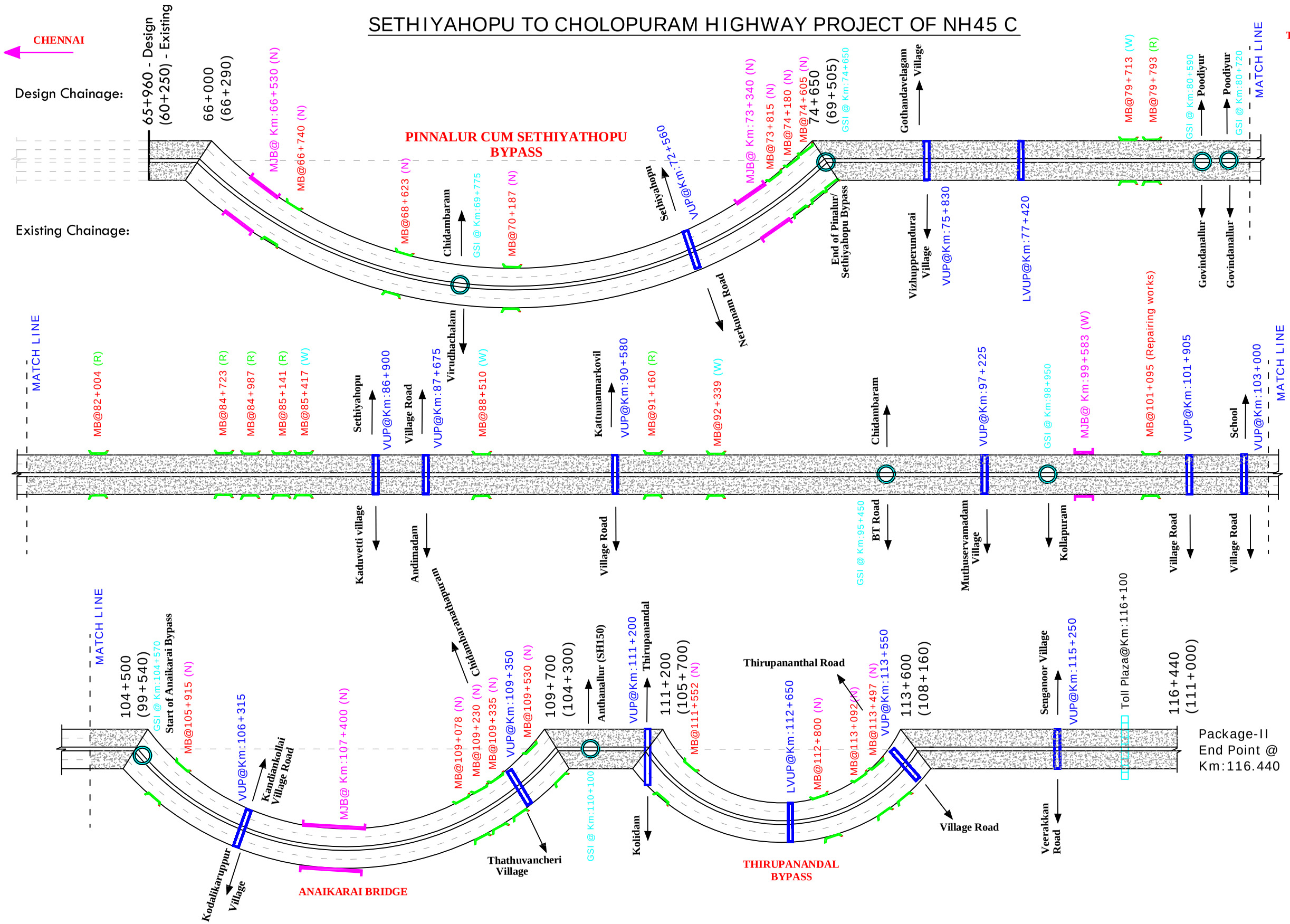
Project Synopsis

The Government of India had entrusted to the National Highway Authority of India (NHAI) the development, maintenance and management of National Highway No. 45C including the section from km 65.960 to Km 116.440 (approx. 50.480 Km). The Authority had resolved to augment for four Laning of Sethiyahopu - Cholopuram from Km 65.960 to Km 116.440 section of NH - 45C in the State of Tamil Nadu under NHDP Phase-IV on design, build, operate and transfer (the "DBOT Annuity" or "Hybrid Annuity") basis.

The scope of work will broadly include rehabilitation, upgradation and widening of the existing carriageway to four - lane standards with construction of new pavement, rehabilitation of existing pavement, construction and/or rehabilitation of major and minor bridges, culverts, road intersections, interchanges, drains etc. Including those prescribed in the Concession Agreement and its Schedule and the operation and maintenance itself. The map of project road is given in Figures below. The details of habitations are given in table - 01.

Figure 2: Project Alignment Map

SETHIYAHOPU TO CHOLOPURAM HIGHWAY PROJECT OF NH45 C



Pinnalur /Sethiyathopu Bypass
Km:66+000 to 74+650

Sl No	Description	Unit	Quantity
1.	Culvert	Nos.	05
2.	Minor Bridge	Nos.	06
3.	Major Bridge	Nos.	02
4.	VUP/LVUP	Nos.	01
5.	Grade Separator	Nos.	02

Widening of Existing Road
Km:74+650 to 104+500

Sl No	Description	Unit	Quantity
1.	Culvert	Nos.	29
2.	Minor Bridge	Nos.	10
3.	Major Bridge	Nos.	01
4.	VUP/LVUP	Nos.	08
5.	Grade Separator	Nos.	04

Anaikarai Bypass
Km:104+500 to 109+700

Sl No	Description	Unit	Quantity
1.	Culvert	Nos.	12
2.	Minor Bridge	Nos.	05
3.	Major Bridge	Nos.	01
4.	VUP/LVUP	Nos.	02
5.	Grade Separator	Nos.	01

Widening of Existing Road
Km:109+700 to 111+200

Sl No	Description	Unit	Quantity
1.	Culvert	Nos.	6
2.	Minor Bridge	Nos.	-
3.	Major Bridge	Nos.	-
4.	VUP/LVUP	Nos.	01
5.	Grade Separator	Nos.	01

Thirupanandal Bypass
Km:111+200 to 113+600

Sl No	Description	Unit	Quantity
1.	Culvert	Nos.	-
2.	Minor Bridge	Nos.	04
3.	Major Bridge	Nos.	-
4.	VUP/LVUP	Nos.	02
5.	Grade Separator	Nos.	-

Widening of Existing Road
Km:113+600 to 116+440

Sl No	Description	Unit	Quantity
1.	Culvert	Nos.	08
2.	Minor Bridge	Nos.	-
3.	Major Bridge	Nos.	-
4.	VUP/LVUP	Nos.	01
5.	Toll Plaza	Nos.	01

LEGENT:

- Major Bridge(MJB)
- Minor Bridge(MB)
- Grade Separated Structure
- Toll Plaza
- Vehicle Under Pass (LVUP/VUP)
- Reconstruction of Existing Road
- Bypass/Newconstruction

Salient Features of Project:

Sl No	Description	Unit	Scope
1.	Total Length of Project	Km	50.480
2.	Length of Widening Portion	Km	34.230
3.	Length of Bypass	Km	16.250
4.	Length of service/Slip Road	Km	27.100
5.	Culverts		
	Box Culvert	Nos.	53

Sl No	Description	Unit	Scope
	Slab Culvert	Nos.	07
6.	Minor Bridge	Nos.	25
7.	Major Bridge	Nos.	04
8.	VUP/LVUP	Nos.	15
9.	Grade Separated Structure	Nos.	08
10.	Toll Plaza	Nos.	01

Sl No	Description	Unit	Scope
11.	Minor Intersection	Nos.	100
12.	Major Intersection	Nos.	07
13.	Bus Bays and Shelters	Nos.	09

Drawing Title

Strip Plan - Sethiyahopu to Cholopuram Highway Project

Date.	Project No.
31-08-2018	PSCHP/NHAI/TN/001

Figure 1: Project Location Map

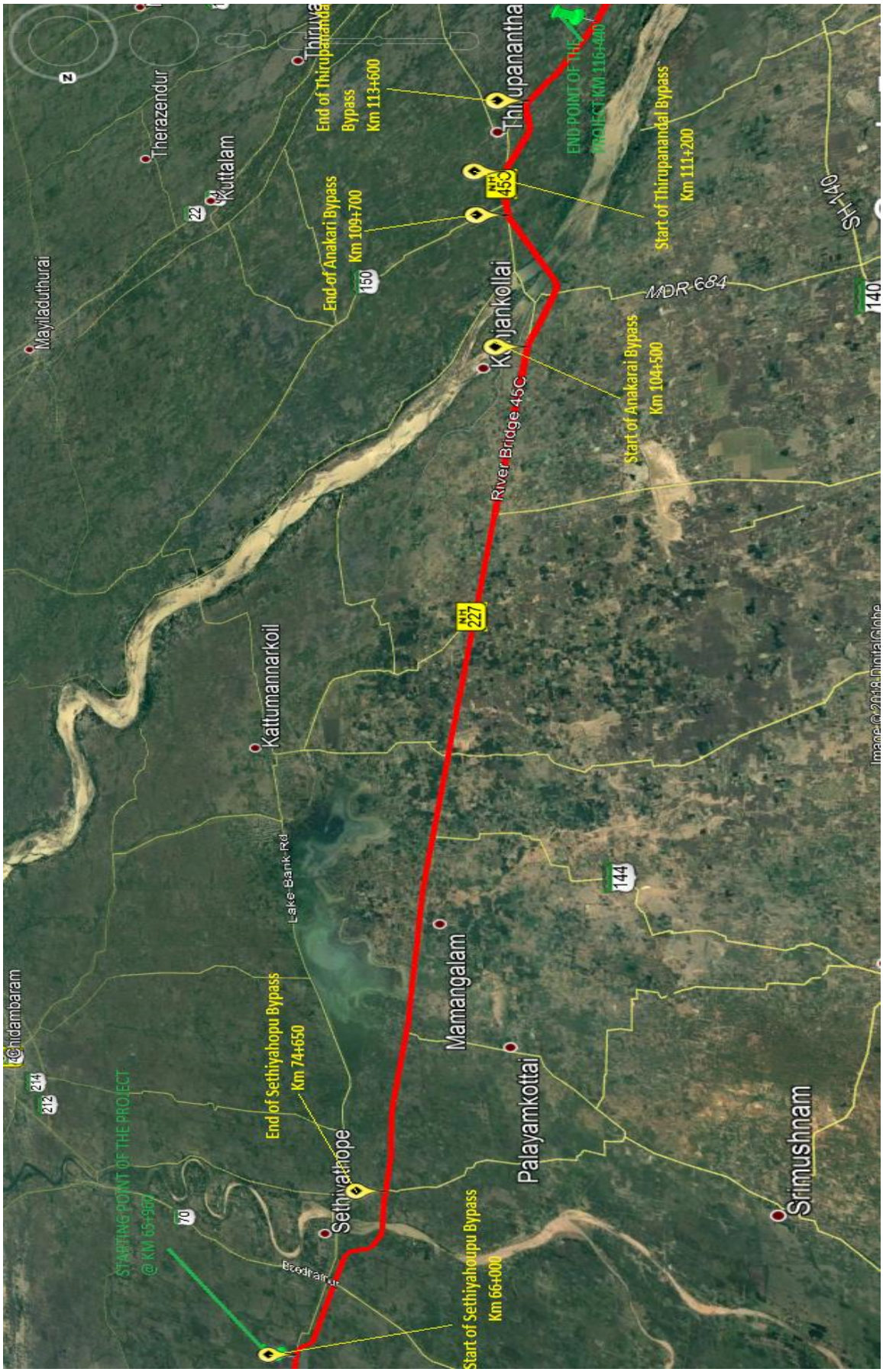


Table - 1.1: Details of Project Alignments

Existing and Proposed Alignments							
Sl. no.	Existing Chainage (Km)		Design Chainage (Km)		LENGTH (Km)	TCS Type	Remarks
	From	To	From	To			
1	60.250	Bypass	65.960	69.460	3.500	Type-A-3 (Fig 2.4 of the manual)	Bypass
2	Bypass	Bypass	69.460	70.090	0.630	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
3	Bypass	Bypass	70.090	72.350	2.260	Type-A-3 (Fig 2.4 of the manual)	Bypass
4	Bypass	Bypass	72.350	72.775	0.425	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
5	Bypass	Bypass	72.775	74.335	1.560	Type-A-3 (Fig 2.4 of the manual)	Bypass
6	Bypass	69.820	74.335	74.960	0.625	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
7	69.820	70.375	74.960	75.520	0.560	Type-A-3 (Fig 2.4 of the manual)	Eccentric Widening
8	70.375	71.010	75.520	76.150	0.630	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
9	71.010	71.855	76.150	76.900	0.750	Type-B (Fig 2.6 of the manual) with both side service road	Eccentric Widening
10	71.855	72.170	76.900	77.220	0.320	Type-B (Fig 2.6 of the manual) with both side service road	Concentric Widening
11	72.170	72.570	77.220	77.620	0.400	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
12	72.570	72.800	77.620	77.850	0.230	Type-B (Fig 2.6 of the manual) with both side service road	Concentric Widening
13	72.800	73.230	77.850	78.300	0.450	Type-B (Fig 2.6 of the manual) with both side service road	Eccentric Widening
14	73.230	75.105	78.300	80.150	1.850	Type-A-3 (Fig 2.4 of the manual)	Eccentric Widening
15	75.105	76.080	80.150	81.120	0.970	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
16	76.080	76.460	81.120	81.500	0.380	TCS-1	Concentric Widening

17	76.460	77.000	81.500	82.240	0.740	Type-A-3 (Fig 2.4 of the manual)	Eccentric Widening
18	77.000	78.115	82.240	83.150	0.910	Type-B (Fig 2.6 of the manual) with both side service road	Eccentric Widening
19	78.115	79.110	83.150	84.150	1.000	Type-B (Fig 2.6 of the manual) with both side service road	Concentric Widening
20	79.110	79.510	84.150	84.550	0.400	Type-B (Fig 2.6 of the manual) with both side service road	Eccentric Widening
21	79.510	80.610	84.550	85.650	1.100	Type-A-3 (Fig 2.4 of the manual)	Eccentric Widening
22	80.610	81.555	85.650	86.580	0.930	Type-B (Fig 2.6 of the manual) with both side service road	Concentric Widening
23	81.555	82.170	86.580	87.210	0.630	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
24	82.170	82.320	87.210	87.360	0.150	Type-B (Fig 2.6 of the manual) with both side service road	Concentric Widening
25	82.320	82.910	87.360	87.990	0.630	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
26	82.910	83.180	87.990	88.265	0.275	Type-B (Fig 2.6 of the manual) with both side service road	Concentric Widening
27	83.180	83.660	88.265	88.745	0.480	Type-A-3 (Fig 2.4 of the manual)	Eccentric Widening
28	83.660	85.220	88.745	90.265	1.520	Type-B (Fig 2.6 of the manual) with both side service road	Concentric Widening
29	85.220	85.850	90.265	90.895	0.630	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
30	85.850	86.555	90.895	91.600	0.705	Type-A-3 (Fig 2.4 of the manual)	Eccentric Widening
31	86.555	87.015	91.600	92.050	0.450	TCS-1	Concentric Widening
32	87.015	87.525	92.050	92.560	0.510	Type-A-3 (Fig 2.4 of the manual)	Eccentric Widening
33	87.525	90.000	92.560	95.035	2.475	Type-B (Fig 2.6 of the manual) with both side service road	Concentric Widening
34	90.000	90.830	95.035	95.865	0.830	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
35	90.830	91.350	95.865	96.400	0.535	Type-B (Fig 2.6 of the manual) with both side service road	Concentric Widening

36	91.350	91.970	96.400	96.910	0.510	TCS-1	Concentric Widening
37	91.970	92.460	96.910	97.535	0.625	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
38	92.460	93.550	97.535	98.535	1.000	TCS-1	Concentric Widening
39	93.550	94.370	98.535	99.335	0.800	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
39A	94.370	94.875	99.335	99.840	0.505	Type-A-3 (Fig 2.4 of the manual)	Eccentric Widening
40	94.875	95.350	99.840	100.300	0.460	Type-B (Fig 2.6 of the manual) with both side service road	
41	95.350	96.630	100.300	101.590	1.290	Type-A-3 (Fig 2.4 of the manual)	Eccentric Widening
42	96.630	97.260	101.590	102.225	0.635	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
43	97.260	97.720	102.225	102.685	0.460	Type-B (Fig 2.6 of the manual) with both side service road	Eccentric Widening
44	97.720	98.360	102.685	103.315	0.630	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
45	98.360	99.190	103.315	104.160	0.845	Type-B (Fig 2.6 of the manual) with both side service road	Eccentric Widening
46	99.190	Bypass	104.160	104.990	0.830	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
47	Bypass	Bypass	104.990	106.000	1.010	Type-A-3 (Fig 2.4 of the manual)	Bypass
48	Bypass	Bypass	106.000	106.625	0.625	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
49	Bypass	Bypass	106.625	109.035	2.410	Type-A-3 (Fig 2.4 of the manual)	Bypass
50	Bypass	104.260	109.035	109.660	0.625	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
51	104.260	105.015	109.660	110.515	0.855	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
52	105.015	105.390	110.515	110.890	0.375	Type-B (Fig 2.6 of the manual) with both side service road	Eccentric Widening

53	105.390	Bypass	110.890	111.515	0.625	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
54	Bypass	Bypass	111.515	112.430	0.915	Type-A-3 (Fig 2.4 of the manual)	Bypass
55	Bypass	Bypass	112.430	112.840	0.410	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
56	Bypass	Bypass	112.840	113.225	0.385	Type-A-3 (Fig 2.4 of the manual)	Bypass
57	Bypass	108.410	113.225	113.850	0.625	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
58	108.410	109.395	113.850	114.835	0.985	Type-A-3 (Fig 2.4 of the manual)	Eccentric Widening
59	109.395	110.220	114.835	115.660	0.825	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
60	110.220	111.000	115.660	116.440	0.780	Type-A-3 (Fig 2.4 of the manual)	Eccentric Widening

1. Background and Project Details

1.1. Project Overview

Name of Work	Four Laning of Sethiyahopu-Cholopuram from Km. 65.960 to Km.116.440 of NH-45C under NHDP-IV on Hybrid Annuity Mode Basis.
Name of Employer	National Highways Authority of India (NHAI) G-5 & 6, Sector-10, Dwarka, New Delhi -110075
Name of Concessionaire	Patel Sethiyahopu – Cholopuram Highway Pvt Ltd, Patel House, Beside Prakruti Resorts, Channi Road, Vadodara. Gujarat– 391740 Tel: +91-265 277 6678 Fax: +91-265 277 7878
Independent Engineer	M/s. Theme Engineering Services Pvt. Ltd, S.F B1&B2, gateway Apartments, koranattu Karuppur, Kumbakonam – 612501.
EPC Contractor	M/s. Patel Infrastructure Limited, Patel House, Beside Prakruti Resorts, Channi Road,Vadodara Gujarat– 391740, Tel: +91-265 277 6678 Fax: +91-265 277 7878
Design Consultant	CTL Global Services Pvt. Ltd. 101, Ist Floor, Krishna Chambers, HAL, Airport Road, Bangalore-560017
Senior Lender	Punjab National Bank, Large Corporate Branch, Neelkamal Building, Opp. Sales India, Ashram Road, Ahmedabad - 380009
Lenders Independent Engineers	Sharul Techno-Financial Consultancy Services Pvt. Ltd., 403, Aspire Tower 5, Amanora Park Town, Hadapsar, Pune - 411028.
Length of Road (Design Length)	50.480 Kms
Total Bid Cost	Rs. 1461.00 Crores (as per concession agreement)
Date of Concession Agreement	November 9, 2017

Concession Period	17 Years (Construction Period 2 Years from Appointed date, Operation period 15 years from COD)
Appointed Date	16.08.2018
Construction Period	2 years from Appointed date
Completion Date	15.08.2020
Maintenance Period	15 years from COD

1.2. Salient Project Features

Besides the construction of new carriageways and widening and strengthening of existing carriageways, the following table summaries the major elements of the project construction:

4 - Lane Divided Carriage Way	50.48 Km.
Service Road/ Slip Road	26.595 Km (Slip Road = 14.510 Kms & Service Road = 12.085 Kms)
Major Bridge	04 Nos.
Minor Bridge	25 Nos.
Grade Separate Intersection	08 Nos.
Vehicular Underpass	13 Nos.
Light Vehicular Underpass	2 Nos.
Culverts	60 Nos.
Major Intersections	07 Nos.
Minor Intersections	100 Nos.
Bus Bays	09 Nos.
Toll Plaza	01 Nos.

1.3. Contractual Project Milestones

Following is a listing of the Key Project Milestones:

Mile Stone	Description	Target Date
Mile Stone-I	Concessionaire shall expended not less than 20 % of the Total capital cost and shall have commenced construction of the project and achieved 20% of physical progress on 214th day from the Appointed Date.	18th March 2019
Mile Stone-II	Concessionaire shall expended not less than 35% of the Total capital cost and shall have commenced construction of the project and achieved 35% of physical progress on 334th day from the Appointed Date.	16th July 2019
Mile Stone-III	Concessionaire shall expended not less than 75 % of the Total capital cost and shall have commenced construction of the project and achieved 75% of physical progress on 584th day from the Appointed Date.	22nd March 2020
Scheduled Completion	Concessionaire shall have completed Project on 730th day from the Appointed Date.	15th August 2020

Note: The Settlement Agreement has been signed between Concessionaire and Authority on 04.03.2021 with the target of completion of 28.345 Kms length by 31.05.2021, and further completion of additional 7.595 Kms length by 30.11.2021 i.e. up to Payment Date of 1st Annuity. The non-workable length/non-handed over length is 14.54 Km as per joint site verification by Concessionaire, IE and NHAI. This 14.54 Km length shall be handed over to the Concessionaire by 31.05.2021 and shall be completed by 31.07.2022.

Status of PCOD Proposal:-

Sr. No.	Description	Target	Achieved as on date	Remarks
1	Completion of 28.345 Kms by 31.05.2021	55.00% (803.60 Cr.)	56.562%	
2	Completion of 35.940 Kms (i.e. 28.345 Kms + 7.595 Kms) by 30.11.2021	72.25% (1055.57 Crore)		
3	Completion of balance 14.540 Kms by 31.07.2022	27.75% (405.43 crore)		

1.4. Payment milestone during Construction Period

Payment Mile Stone	Eligibility Criteria	Payment Amount (Rs.)	Claimed Amount (Rs.)	Date of release of payment
Mile Stone-I	On Achievement of 10% of Physical Progress	116.88 Crs.	116.88 Crs.	04.10.2019
Mile Stone-II	On Achievement of 30% of Physical Progress	116.88 Crs.	116.88 Crs.	25.09.2020
Mile Stone-III	On Achievement of 50% of Physical Progress	116.88 Crs.		
Mile Stone-IV	On Achievement of 75% of Physical Progress	116.88 Crs.		
Mile Stone-V	On Achievement of 90% of Physical Progress	116.88 Crs.		

1.5. Permits & Approvals

Sr. No.	Details	Authority	Current Status	Remarks
1	Extraction of Boulders from Quarries	Dist. Mining Officer	Obtained	PIL (EPC Contractor) have executed an agreement with Mr. Thiru V. Sekar for supply of boulders that is having a valid license for extraction of boulders for the quarry at Padalur Village, Perambalur District.
2	Installation of Crusher	Village Panchayat Head	Obtained	
3	-----D O------	Pollution Control Board	Obtained	
4	Use of Explosives	District Collector	Obtained	
5	Labour License	Labour Commissioner	Obtained	
6	Environmental Clearance		NA	
7	Trees Cutting Permission	Forest department through NHAI	Obtained	Work in Progress
8	Electric Poles Shifting	Tamil Nadu Electricity Board	Obtained	Work in Progress
9	Water Pipes Shifting	Tamilnadu Water Supply and Drainage Board	Obtained	Work in Progress
10	Drawing Water from river/ reservoir		NA	

2. Right of Way Status

2.1. Land Acquisition

As per the Schedule – A of Concession Agreement, the Proposed Right of Way (ROW) is of 45 & 60 meters as per table below.

Table 2.1-1: Details of proposed ROW as per Schedule-A

	Design Chainage (Km)	Design Length (Km)	Width (m)	Remarks
Full Right of Way (full width)				
Stretch	65.960 to 75.150	9.190	60.00	Within 15 days of date of Agreement.
Stretch	75.150 to 82.380	7.230	45.00	
Stretch	82.380 to 83.080	0.700	60.00	
Stretch	83.080 to 84.050	0.970	45.00	
Stretch	84.050 to 86.440	2.390	60.00	
Stretch	86.440 to 87.660	1.220	52.50	
Stretch	87.660 to 91.730	4.070	45.00	
Stretch	91.730 to 93.730	2.000	52.50	
Stretch	93.730 to 95.900	2.170	45.00	
Stretch	95.900 to 99.700	3.800	60.00	
Stretch	99.700 to 104.500	4.800	30.00	
Stretch	104.500 to 109.700	5.200	60.00	
Stretch	109.700 to 110.980	1.280	30.00	
Stretch	110.980 to 113.700	2.720	60.00	
Stretch	113.700 to 116.440	2.740	30.00	
Total Length		50.480		

Balance Right of way (width)

	Design Chainage (Km)	Design Length (Km)	Width (m)	
Stretch	099.700 to 104.500	4.800	15.00	Within 90(Ninety) days of the Appointed date
Stretch	109.700 to 110.980	1.280	15.00	
Stretch	113.700 to 116.400	2.740	15.00	

Besides this, the Authority has to acquire additional land at Toll plaza location, Bus bays, Turning radius at Major junctions.

Table 2.1-2: Status of Land Acquisition as per Site Condition.

Sl. No.	Description	Unit	Present Status	Remarks
A)	**Total Length of the Project Highway**	**Km**	**50.48**	
1	Use of Existing Road Portion	Km	34.23	
2	Proposed Bypass / Realignment portion	Km	16.25	
B)	**Hindered Length**			
1.	Hindrance towards existing building, payment pending, NOC from PWD/WRO, teak trees etc.,	Km	20.720	
2.	Hindrance due to Electrical Lines	Km	1.050	
3.	Hindrance due to Rural Water Supply lines	Km	19.500	
4.	Net Hindered Length (both Side)	Km	42.84	
C)	Total Project Length (both Side)	Km	100.96	
D)	**% Hindered Length**	**%**	**42.43%**	

The details of land acquisition status and available hindrances are produced on a strip chart under section 04.

The status of compensation disbursed is as below: -

Table 2.1-3:Compensation disbursement for land

SL. No.	Name of the District	Total No. of Land cases	Amount paid (in Nos.)	Balance to be Paid (in Nos.)	Remarks
1	Cuddalore	710	613	97	
2	Ariyalur	355	310	45	
3	Thanjavur	102	98	4	
	Total in Nos.	1167	1021	146	
		Total in %	87.49%	12.51%	

Table 2.1-4 - Compensation disbursement for Structures

Sl. No.	Name of the District	Total No. of structures	Amount paid (in Nos.)	Balance to be Paid (in Nos.)	Remarks
1	Cuddalore	383	333	50	
2	Ariyalur	461	433	28	
3	Thanjavur	148	96	52	
	Total in Nos.	992	862	130	
		Total in %	86.89%	13.11%	

 Details of Stretches Under Hindrance towards existing building, payment pending, NOC from PWD/WRO, teak trees etc.:

Sr. No	Chainage		Length (km)	Hindrance Length (Km)	Side	Reason	Non workable length as on 31.10.2021 (km)
	From	To					
1	65.960	66.260	0.300	0.300	BHS	Issue Cleared.	
2	70.900	71.400	0.500	0.500	BHS	Issue Cleared.	
3	72.350	72.775	0.425	0.425	BHS	Issue Cleared.	
4	73.100	74.335	1.235	1.235	BHS	Issue Cleared.	
5	75.520	76.150	0.630	0.630	BHS	Removal of Structures	0.630
6	77.050	77.220	0.170	0.085	LHS	Removal of Structures	0.085
7	80.100	81.150	1.050	1.050	BHS	Removal of Structures	1.050
8	82.050	82.150	0.100	0.100	BHS	Issue Cleared.	
9	83.400	84.280	0.880	0.880	BHS	Removal of Structures	0.880
10	85.800	86.200	0.400	0.400	BHS	Removal of Structures	0.400
11	86.400	86.560	0.160	0.160	BHS	Issue Cleared.	
12	87.360	87.990	0.630	0.630	BHS	Removal of Structures	0.630
13	90.265	90.895	0.630	0.630	BHS	Issue Cleared.	
14	95.035	95.865	0.830	0.830	BHS	Issue Cleared.	
15	98.500	99.400	0.900	0.900	BHS	Removal of Structures	0.900
16	104.990	106.000	1.010	1.010	BHS	Relocation of Toll Plaza from proposed location as per CA at Km 116+100 to Km 105+500. Policy circular vide letter dated 02.11.2018 was issued according to which minimum distance between Toll Plaza in the same stretch shall not be less than 60Km. As the Toll Plaza for Cholopuram-Thanjavur section has been proposed at Km 152+000 the distance between the toll plazas was 35.900 Km only. Considering the resistance of the public and the	1.010

						distance between the two toll plazas, alternate location was to be found out. Relocation of Toll Plaza proposals submitted to NHAI by RO Madurai on 13.10.2020.	
17	106.625	109.700	3.075	3.075	BHS	Pending Disbursement of Compensation	3.075
18	113.225	113.850	0.625	0.625	BHS	Pending Disbursement of Compensation	0.625
19	114.400	114.650	0.250	0.250	BHS	Pending Disbursement of Compensation	0.250
20	114.835	115.660	0.825	0.825	BHS	Removal of Structures	0.825
Total in Kms				14.540			10.360

The 10.36 Km. length is still under non-workable length out of 14.54 km. non-workable length as per Settlement Agreement executed on dated 04.03.2021.

Table 2.1.6 - Hindrance Photographs								
Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	240	Veeranam Pipe Line	65+960	66+200	Veeranam Pipe Line	240		
			68+600		Sluice Gate (2 Nos)	40		
	150	HT Line Crossing	70+030	70+200				
			70+700		Building			
	550	Agricuture Land & Trees	71+000	71+550				
		Teek Farm, Pump Set & 5 Poles	71+250					
		Bore Well	71+300					
		Borewell	71+550		Borewell			
		Pump Set	72+200					Damaged
	100	Veera mudaiyaan natham Village	72+450	72+550	Veera mudaiyaan natham Village	100		
	10	Hand Pump	72+550		Hand Pump	10		
	50	Pump Set & Trees	72+700					
			72+850		Pump Set, Bore Well & Trees			
			72+900		Bore & Pump Set			

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
		Bore & Pump Set	72+950					
			73+400		HT Line Tower	20		
			73+450		Bore Well, Pump Set & Tree EB Pole	50		
			74+500		Bore Well			
			75+565	75+640	Pond			
			75+660		Water Tap			
		Building	75+680					
		Bore Well & Water Tank	75+700					
		Hand Pump	75+710					
		Water Tap	75+810					
		Flag Pole	75+840					
		Water Tap	75+880					
		Buildings	76+980					

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
		Building	77+100	77+300				
			77+220		Building			
			77+590	77+600	Buildings	10		
		Hand Pump	77+505					
			77+760		Water Tank & Motor Room			
		Water Tank & Motor Room	79+240					
		Hut	79+955					
	400	EB Pole, Water Tap, Trees, Telephone Pole	80+000	80+500	EB Pole, Water Tap, Trees, Telephone Pole	400		
		Water Tank, Motor Room, Hand Pump & Existing Culvert	80+120					
			80+125		Temple			
			80+170		Existing Culvert			
			80+300	80+390	Pond			
		Transformer	80+340					

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
		Flag Poles	80+530	80+570	Flag Poles			6nos
			80+710		Existing Culvert			
		Bore Well	80+740					
			80+900		OFC			
			81+325	81+360	Existing Culvert & Compound Wall			
		Transformer	81+715					
			82+875		Existing Culvert			
		Existing Culvert	82+975					
	450	Water Tap	83+000	83+500	Water Tap	450		Tap - 6
		Existing Culvert	83+205					
		Flag Post	83+385					
			83+425		Transformer			25
	450	EB Pole, Water Tap, Trees, Telephone Pole	83+500	84+000	EB Pole, Water Tap, Trees, Telephone Pole	450		Pole - 13, Tap - 37, Tree - 239

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
			83+615		Temple			
		EB, Transformer	83+850					
			83+890		Flag Poles			4 nos
			83+935		Water Tank			
			83+995		Hand Pump			
			85+090		OFC			
		Building	85+910					
		Hut	85+930					
			85+955		Temple			
			86+280		Temple			
			86+350		Bore Well			
		Temple	86+390					
		Buildings	86+000	86+700	Buildings			

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
			86+720		Flag Pole			
			87+500	88+000	Buildings & Huts			
			87+690		Temple			
			87+835		Water Tank			
			89+355		Temple			
			90+325		Temple			
			91+500	92+000	EB Pole, Water Tap, Telephone Pole, Trees	450		
			91+600		OFC			
			91+730		OFC			
			91+780		Temple			
		Temple	92+135					
			93+000	94+000	EB Pole, Water Tap, Tree	750		EB - 44, Tape - 14, Tree - 270
			93+930		Hand Pump			

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
		Temple	94+440					
			95+570		Temple			
	300	EB Pole, Tape, Telephone Pole	97+500	98+000	EB Pole, Tape, Telephone Pole	300		EB - 16,Tap - 5,
		Temple	97+520					
	350	Tape	98+500	99+000	Tape	350		
	750	EB Pole,Tape	99+000	100+000	EB Pole, Tree, Tape, Telephone Pole	750		
		Motor Room With Bore	99+150					
			99+195		Temple With Water Tank			
	650	EB Pole, Tree, Tape, Telephone Pole	100+000	101+000	EB Pole, Tree, Tape, Telephone Pole	650		
		Motor Room With Tank	100+390					
	650	EB Pole, Tree, Tape, Telephone Pole	101+000	102+000	EB Pole, Tree, Tape, Telephone Pole	650		EB - 42, T Pole - 5, Tap - 6 Tree 100
			101+120	101+300	Pond			
			101+480		Hand Pump			

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	750	EB Pole, Tree, Tape, Telephone Pole	102+000	103+000	EB Pole, Tree, Tape, Telephone Pole	750		
		Schooh Arch	102+960					
	800	Tape, Telephone Pole	103+000	104+000		10		
			103+590		Temple			
			103+860	103+910	Pond			
		Pond	103+935	104+250				
		Existing Irrigation Sluice	103+990					
	200	EB Pole, Tree, Tape	109+500	109+700	EB Pole, Tree, Tape	200		Tree - 94, EB - 9, Tap - 6
	1350	Tape	109+700	111+200	Tape	1350		Tap - 18
			109+720		Motor Room			
		OFC	110+330					
		Water Tank	110+450					

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	20	EB Pole, Tree, Tape	111+200	111+220	EB Pole, Tree, Tape	20		
			111+450		Motor Room With Bore			
	750	EB Pole, Telephone Pole, Tape	113+500	114+600	EB Pole, Telephone Pole, Tape	750		Tree - 280, EB -38, T Pole - 9. Tap - 6
			114+060		Flag Pole			
			114+090		Flag Pole, Water Tank			
		Water Tank	114+450					
		Water Tank	114+495					
		Hand Pump	114+610					
	700	Telephone Pole, Tape	115+600	116+440	Telephone Pole, Tape	700		EB -26, T Pole - 2 Tap - 16
			115+650		Motor Room			
		Transformer	115+970					
		Hand Pump	116+200					
		Water Tank & Motor Room	116+210					

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
		OFC	116+275					
		OFC	116+410					
			116+560		Flag Pole			
		House	115+600	116+440	House			

2.2. Removal of Religious Structures

The following structures coming within the ROW are to be demolished

Table 2.2-1: Status of Removal of Religious structures

Sl No.	Name of the District	Total No. of structures	Removed as on Date (in Nos.)	Balance (in Nos.)
1	Cuddalore	10	3	7
2	Ariyalur	10	1	9
3	Thanjavur	2	2	0
	Total in Nos.	**22**	**6**	**16**

2.3. Shifting of Utilities and Electrical HT/LT Lines

To proceed with the project construction, several utilities are required to be shifted under the supervision of the respective authorities. These include a water supply line, hand pumps, overhead water tanks, besides Electrical lines, as shown in the table below.

Table 2.3-1: Status of sanction of Estimates - Relocation of RWS Pipe line

Sr. No.	Name of the District	Chainages			Total Number of Estimates	Remarks
		From	To	Length in Km		
1	Cuddalore	65+960	86+440	20.48	25	Work in Progress
2	Ariyalur	86+440	106+860	20.42	46	
3	Thanjavur	106+860	116+440	9.58	4	

Table 2.3-2: Status of sanction of Estimates - Electrical Lines Relocation

Sr. No	Name of the District	Chainages			Number of Estimates	Present Status	Remarks
		From	To	Length in Km			
1	Cuddalore	65+960	86+440	20.48	10	Estimate Approved	Supervision charges are paid and work in progress
2	Ariyalur	86+440	106+860	20.42	5	Estimate Approved	
3	Thanjavur	106+860	116+440	9.58	5	Estimate Approved	
4	Cuddalore& Thanjavur	Km:70+020, Km:73+470 and Km:113+720			3	Estimate Approved	Supervision Charges paid

Estimates for shifting of the above Electric lines have been prepared. The estimated cost is Rs. 17.45 Crores.

Estimates have been done for the shifting of the water supply pipeline & related items mentioned above. The final amount of Rs. 15.87 Crores sanctioned by RO, NHAI, Madurai.

Table 2.3-3: Status of Utility Relocation

Sl. No.	Authority	Description	Unit	Total Length/ Nos.	Work done	Balance	Remarks
1	BDO & EE,TWAD	Water Supply Pipe Line	Kms.	72.695	25.679	47.016	Work in progress
2	BDO of Concern Union	Hand Pump/Pump Room with Bore well	Nos.	24	16	8	
3	BDO of Concern Union	Over Head Tank	Nos.	15	13 Nos Completed	2	
4	TNEB	Electrical Lines	Kms.	6.83	5.78	1.05	

2.4. Tree felling

Table 2.4-1: Status of Tree felling

Sl.No.	Name of the District	Chainages			Effected Length in Kms.	Completed as on Date	Balance as on Date	Balance no. of Trees	Remarks
		From	To	Length in Km					
1	Cuddalore	65+960	86+440	20.48	6.535	6.535	0	0	In addition of 123 nos of teak wood trees to be removed and Permission of the same is awaited from DFO, Cuddalore.
2	Ariyalur	86+440	106+860	20.42	8.385	8.385	0	0	
3	Thanjavur	106+860	116+440	9.58	2.515	2.515	0	0	
Total				50.48	17.435	17.435	0	0	

3. Progress Briefing – Contractor Activities

3.1. Pre-construction Activities

Detailed Design & Drawings

The Plan and Profile, as well as the Pavement Designs for the entire 50.48 km project length has been completed and reviewed by the Independent Engineer (IE). Construction Methodology, QA & QC procedures submitted to the IE has been reviewed and accepted.

Table 3.1-1: Status of Design and Drawings-Highway

Sl No.	Description	Unit	Total Scope As per Sch. B	Design Submitted	Drawing Approved
1	Pavement Design	Km	50.48	50.48	50.48
2	Plan & Profile	Km	50.48	50.48	50.48
3	Typical Cross Sections	Type	7	7	7
4	Major Intersections	No	07	05	-
5	Minor Intersections	No	100	14	-
6	Toll Plaza (Typical Details)	No	01	01	-
7	Service Roads	No	26.595	26.595	26.595

Table 3.1-2 : Status of Design and Drawings –Structures

Sr. No	Description	Unit	Total Scope As per Sch. B	Design Submitted	Drawing Approved
1	Major Bridges	No	04	04	04
2	Minor Bridges	No	25	25	25
3	Grade Separated Intersection	No	08	08	08
4	VUP/LVUP	No	15	15	15
5	Box /Slab Culvert	No	60	60	60

4. Physical Progress of Work

4.1. Physical Progress of Work:

The Progress of the Major works carried out at the Site in the Month of October 2021 is as follows.

CUMMULATIVE STATEMENT

For Main Carriageway

Sr. No.	Description	Total Length of Highway Excluding Toll Plaza (in. Km.)	Progress up to Previous Month (in Km.)	Progress during this Month (in Km.)	Cumulative Progress Achieved up to this Month (in Km.)	Work in Progress (In Km.)	Balance Length to be Completed	Cumulative % of Progress Achieved
1	Clearing and Grubbing							
	LHS	47.28	40.620	0.000	40.620	0.000	6.660	85.91%
	RHS	47.28	39.530	0.000	39.530	0.000	7.750	83.61%
2	Embankment							
	LHS	47.28	29.720	1.640	31.360	1.200	15.920	66.33%
	RHS	47.28	28.810	2.230	31.040	1.400	16.240	65.65%
3	Subgrade							
	LHS	47.28	28.690	2.525	31.215	0.145	16.065	66.02%
	RHS	47.28	27.846	2.969	30.815	0.225	16.465	65.18%
4	GSB/ Cement Treated Base							
	LHS	47.28	26.895	2.130	29.025	0.100	18.255	61.39%
	RHS	47.28	26.105	2.750	28.855	0.110	18.425	61.03%
5	Wet Mix Macadam							
	LHS	47.28	26.375	2.400	28.775	0	18.505	60.86%
	RHS	47.28	25.205	3.110	28.315	0	18.965	59.89%
6	Dense Bitumen Macadam							
	LHS	47.28	26.285	1.310	27.595	0	19.685	58.37%
	RHS	47.28	25.115	2.240	27.355	0	19.925	57.86%
7	Bituminous Concrete							
	LHS	47.28	12.810	12.575	25.385	0	21.895	53.69%
	RHS	47.28	16.320	9.155	25.475	0	21.805	53.88%

For Service Road

Sr. No.	Description	Total Length of Service Road (in Km.)	Progress up to Previous Month (in Km.)	Progress during this Month (in Km.)	Cumulative Progress Achieved up to this Month (in Km.)	Work in Progress (in Km.)	Balance Length to be Completed	Cumulative % of Progress Achieved
1	Embankment	53.19	25.670	0.730	26.400	3.120	26.790	49.63%
2	Sub grade	53.19	22.720	0.730	23.450	2.950	29.740	44.09%
3	GSB/ Cement Treated Base	53.19	21.490	0.740	22.230	0.120	30.960	41.79%
4	Wet Mix Macadam	53.19	20.610	0.880	21.490	0	31.700	40.40%
5	Dense Bitumen Macadam	53.19	20.430	0.890	21.320	0	31.870	40.08%
6	Bituminous Concrete	53.19	5.680	10.720	16.400	0	36.790	30.83%

Structure Work

Sr. No.	Type of Structure	Total No. of Structures	Nos. of Structures		
			Completed	Work in Progress	Balance to be taken up
1	Culvert	60	44	11	5
2	Light Vehicular Underpass	2	1	0	1
3	Vehicular Underpass	13	7.00	6.00	0
4	Minor Bridges	25	21	4	0
5	Major Bridge	4	0	4	0
6	Flyover	8	5.50	1.50	1

The Physical Progress of the Project up to October 2021 as per Approved Schedule G is as follows:-

Component	Item Description	Unit	Planned in Scope (As per Scope of Work)	Cost Weightage in Component (%)	Progress till Date	% Physical Progress
1	2	3	4	5	6	7
Road works including culverts, minor bridges, underpasses, overpasses, approaches to ROB/RUB/ Major Bridges/ Structures (but excluding service roads)	A- Widening and strengthening of existing road					
	(1) Earthwork up to top of the sub-grade	Km	66.96	9.517%	43.590	6.195%
	(2) Granular work (sub-base, base, shoulders)					
	(a) GSB/ Cement Treated Base	Km	65.52	3.373%	42.580	2.192%
	(b) WMM/ Cement Treated Base	Km	65.52	4.046%	42.070	2.598%
	(3) Shoulders	Km	17.65	0.112%	14.595	0.093%
	(4) Bituminous work					
	(a) DBM	Km	65.52	3.344%	41.990	2.143%
	(b) BC	Km	65.52	3.023%	39.120	1.805%
	(5) Rigid Pavement					
	(6) Widening and repair of culverts	Nos.	16	0.440%	9.900	0.272%
	(7) Widening and repair of minor bridges	Nos.	4	0.959%	3.700	0.887%
	B- New realignment/bypass					
	(1) Earthwork up to top of the sub-grade	Km	28.68	6.437%	15.690	3.522%
	(2) Granular work (sub-base, base, shoulders)					
	(a) GSB/ Cement Treated Base	Km	28.68	1.615%	15.300	0.862%
	(b) WMM/ Cement Treated Base	Km	28.68	1.436%	15.020	0.752%
	(3) Shoulders	Km	24.63	0.112%	9.120	0.042%
	(4) Bituminous work					
	(a) DBM	Km	28.68	1.279%	12.960	0.578%
	(b) BC	Km	28.68	1.158%	11.740	0.474%
	(5) Rigid Pavement					
	C- New culverts, minor bridges, underpasses, overpasses on existing road, realignments, bypasses:					
	(1) Culverts	Nos.	44	2.070%	34.10	1.604%
	(2) Minor bridges					

	(a) Foundation	Nos.	58	3.953%	52.00	3.544%
	(b) Substructure	Nos.	134	2.623%	101.00	1.977%
	(c) Superstructure (including crash barrier etc. complete)	Nos.	50	1.559%	35.15	1.096%
	(3) Cattle/Pedestrian underpasses					
	(a) Foundation	Nos.				
	(b) Substructure	Nos.				
	(c) Superstructure (including crash barrier etc. complete)	Nos.				
	(4) Pedestrian overpasses					
	(a) Foundation	Nos.				
	(b) Substructure	Nos.				
	(c) Superstructure (including crash barrier etc. complete)	Nos.				
	(5) Grade separated structures					
	(a) Underpass (13 VUP, 2 LVUP)					
	(i) Foundation	Nos.	56	2.574%	46.00	2.115%
	(ii) Substructure	Nos.	60	0.751%	48.00	0.601%
	(iii) Superstructure (including crash barrier etc. complete)	Nos.	30	1.289%	16.00	0.687%
	(b) Overpass					
	(i) Foundation					
	(ii) Substructure					
	(iii) Superstructure (including crash barrier etc. complete)					
	(c) Flyover					
	(i) Foundation	Nos.	36	2.426%	28.00	1.887%
	(ii) Substructure	Nos.	36	0.470%	28.00	0.366%
	(iii) Superstructure (including crash barrier etc. complete)	Nos.	20	1.244%	14.00	0.871%
	(d) Foot over Bridge					
Major Bridge works and ROB/RUB	**A- Widening and repairs of Major Bridges**					
	(1) Foundation					
	(a) Open Foundation					
	(b) Pile Foundation/ Well Foundation					
	(2) Sub-structure					

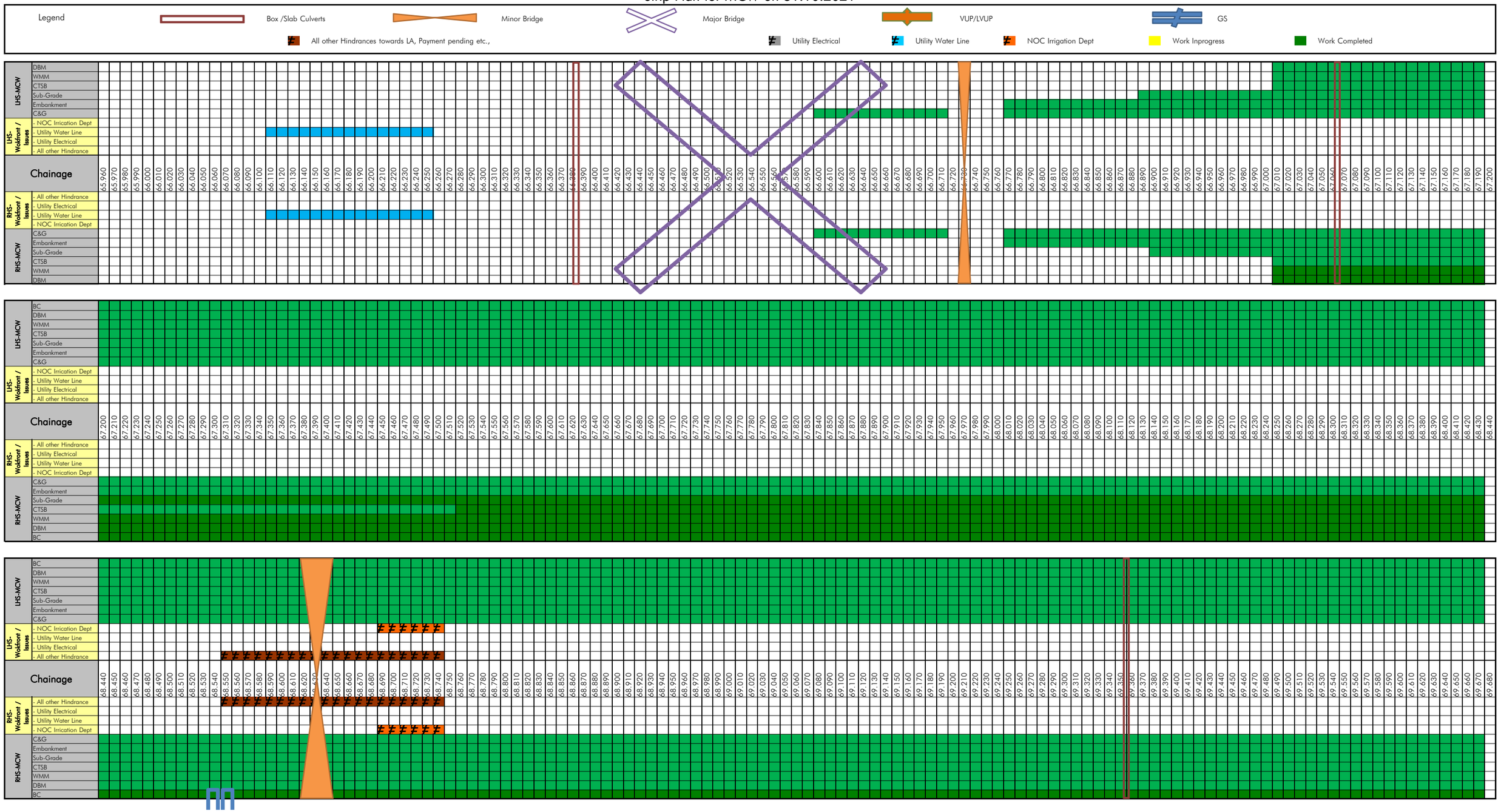
	(3) Super-structure (including crash barriers etc. complete)					
	C- New Major Bridges					
	(1) Foundation					
	(a) Open Foundation					
	(b) Pile Foundation/ Well Foundation					
	(i) Foundation	Nos.	84	9.699%	77.00	8.891%
	(2) Sub-structure	Nos.	84	4.576%	64.00	3.486%
	(3) Super-structure (including crash barriers etc. complete)					
	(i) For MJB at Km. 107+400					
	(a) Casting of Superstructure (Box Segment)	Nos.	666	1.450%	555.00	1.208%
	(b) Erection of Superstructure (Box Segment)	Nos.	666	1.050%	78.00	0.123%
	(i) For other Major Bridges					
	(a) Super-structure (including crash barriers etc. complete)	Nos.	37	2.500%	2.00	0.135%
	D- New rail-road bridges					
	(a) ROB					
	(1) Foundation	Nos.				
	(2) Sub-structure	Nos.				
	(3) Super-structure (including crash barriers etc. complete)	Nos.				
	(b) RUB					
	(1) Foundation	Nos.				
	(2) Sub-structure	Nos.				
	(3) Super-structure (including crash barriers etc. complete)	Nos.				
Structures (elevated sections, reinforced earth)	A- Elevated Structures					
	(1) Foundation	Nos.				
	(2) Sub-structure	Nos.				
	(3) Super-structure (including crash barriers etc.	Nos.				
	B- Reinforced earth Wall (includes Approaches of ROB, Underpasses, Overpasses,Flyover etc)	Sqm	196027	7.604%	64329.33	2.495%
Other Works	(i) Service roads/ Slip Roads	Km	53.19	4.690%	16.400	1.446%

	(ii) Toll Plaza	Nos.	1	1.821%		
	(iii) Road side drains	Km	28.85	5.429%	6.455	1.215%
	(iv) Road signs, markings, km stones, safety devices,					
	(a) Road signs, markings, km stones, ...	Km	100.96	2.558%	3.700	0.094%
	(b) Concrete Crash Barrier/ W-Beam Crash Barrier in Road work					
	(i) Concrete Crash Barrier	Km	26.5	1.179%	4.680	0.208%
	(ii) W-Beam Crash Barrier	Km	10.03	0.788%		
	(v) Project facilities					
	(a) Bus Bays	No.	18	0.009%		
	(b) Truck Lay-byes	No.				
	(c) Rest areas	No.				
	(vi)Repairs to bridges/structures	Nos.				
	(vii) Road side plantation	Km	23.66	0.451%		
	(viii) Protection works					
	(a) Boulder pitching on slopes	Km	10.03	0.218%		
	(b) Toe/Retaining wall	Km	10.03			
	(x) Miscellaneous	Ls.	100%	0.164%	0.098%	0.098%
	Total			100.00%		56.562%

Four Laning of Sethiyahopu - Cholopuram from Km. 65.960 to Km. 116.440 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode

Sethiyahopu - Cholopuram Road Projects

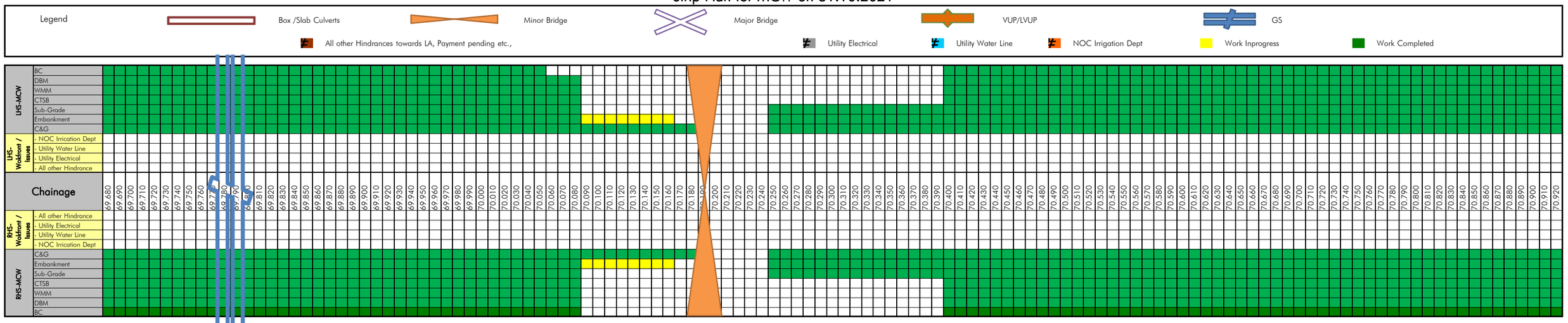
Strip Plan for MCW on 31.10.2021



Four Laning of Sethiyahopu - Cholopuram from Km. 65.960 to Km. 116.440 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode

Sethiyahopu - Cholopuram Road Projects

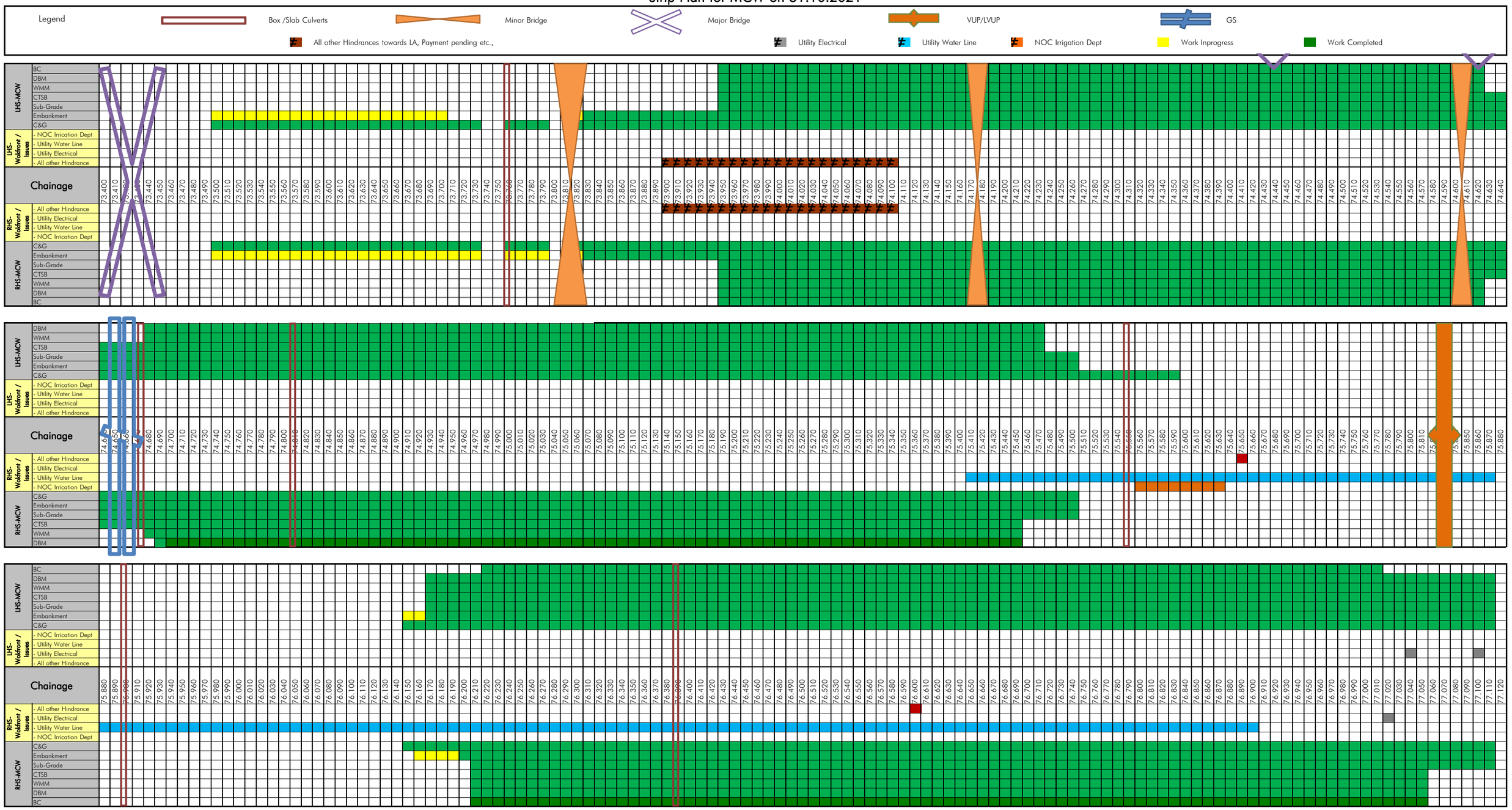
Strip Plan for MCW on 31.10.2021



Four Laning of Sethiyahopu - Cholopuram from Km. 65.960 to Km. 116.440 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode

Sethiyahopu - Cholopuram Road Projects

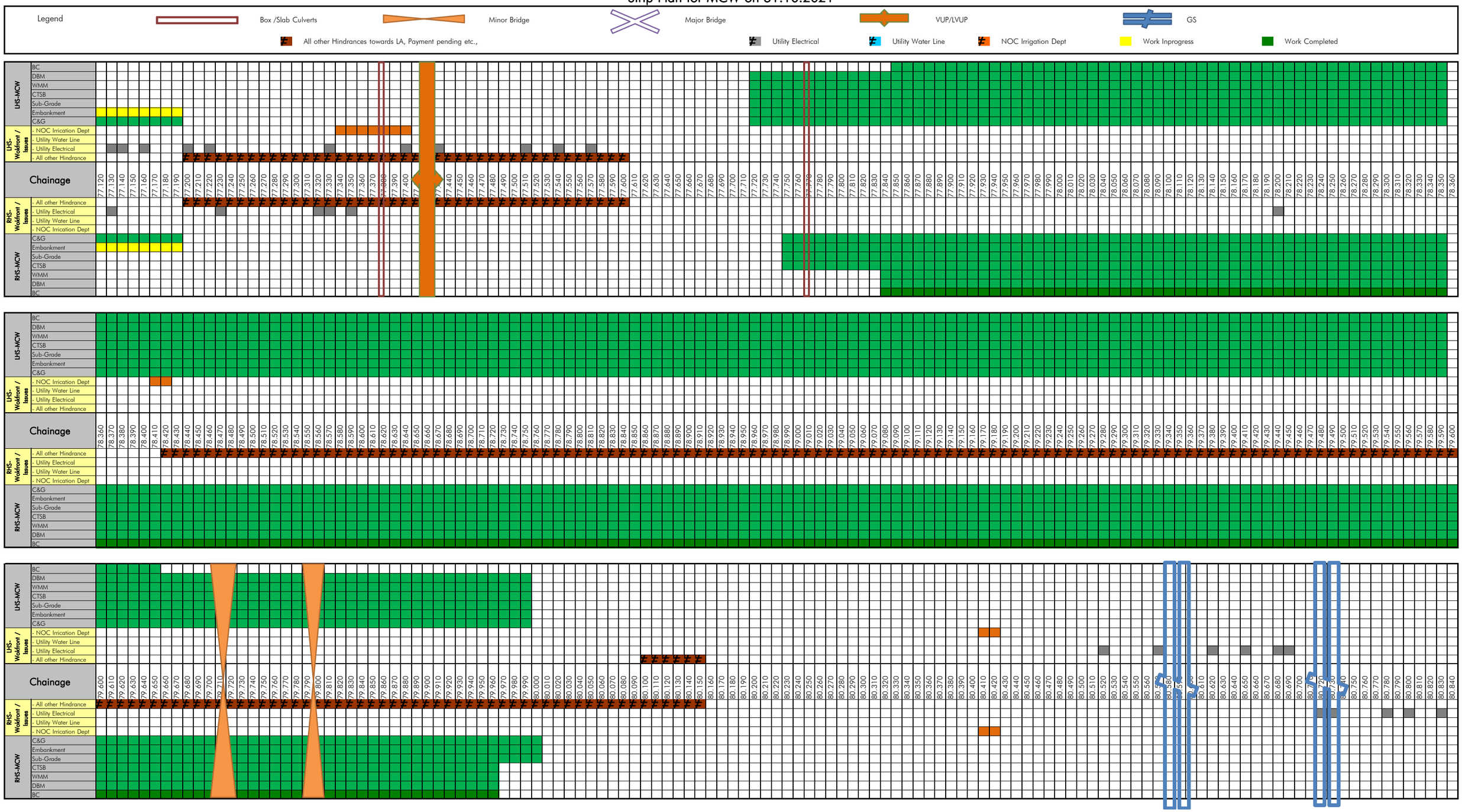
Strip Plan for MCW on 31.10.2021



Four Laning of Sethiyahopu - Cholopuram from Km. 65.960 to Km. 116.440 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode

Sethiyahopu - Cholopuram Road Projects

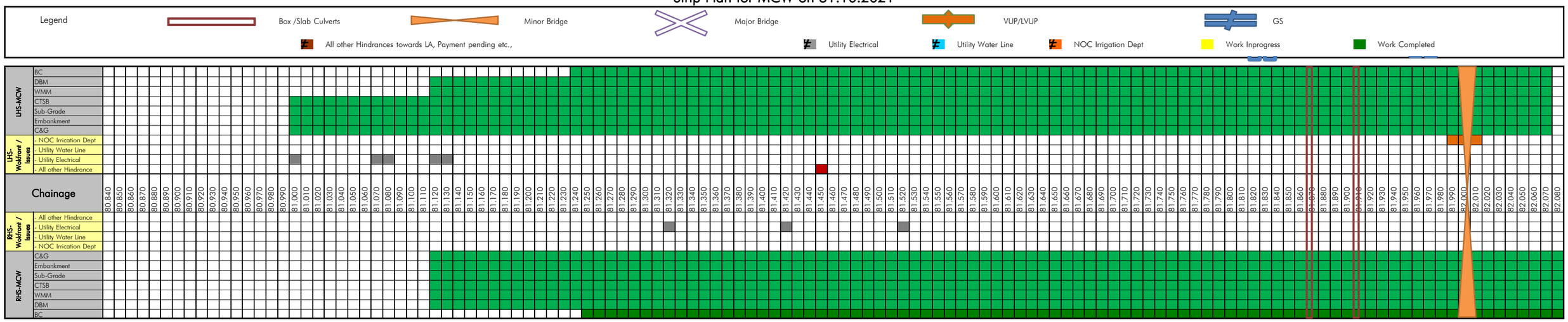
Strip Plan for MCW on 31.10.2021



Four Laning of Sethiyahopu - Cholopuram from Km. 65.960 to Km. 116.440 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode

Sethiyahopu - Cholopuram Road Projects

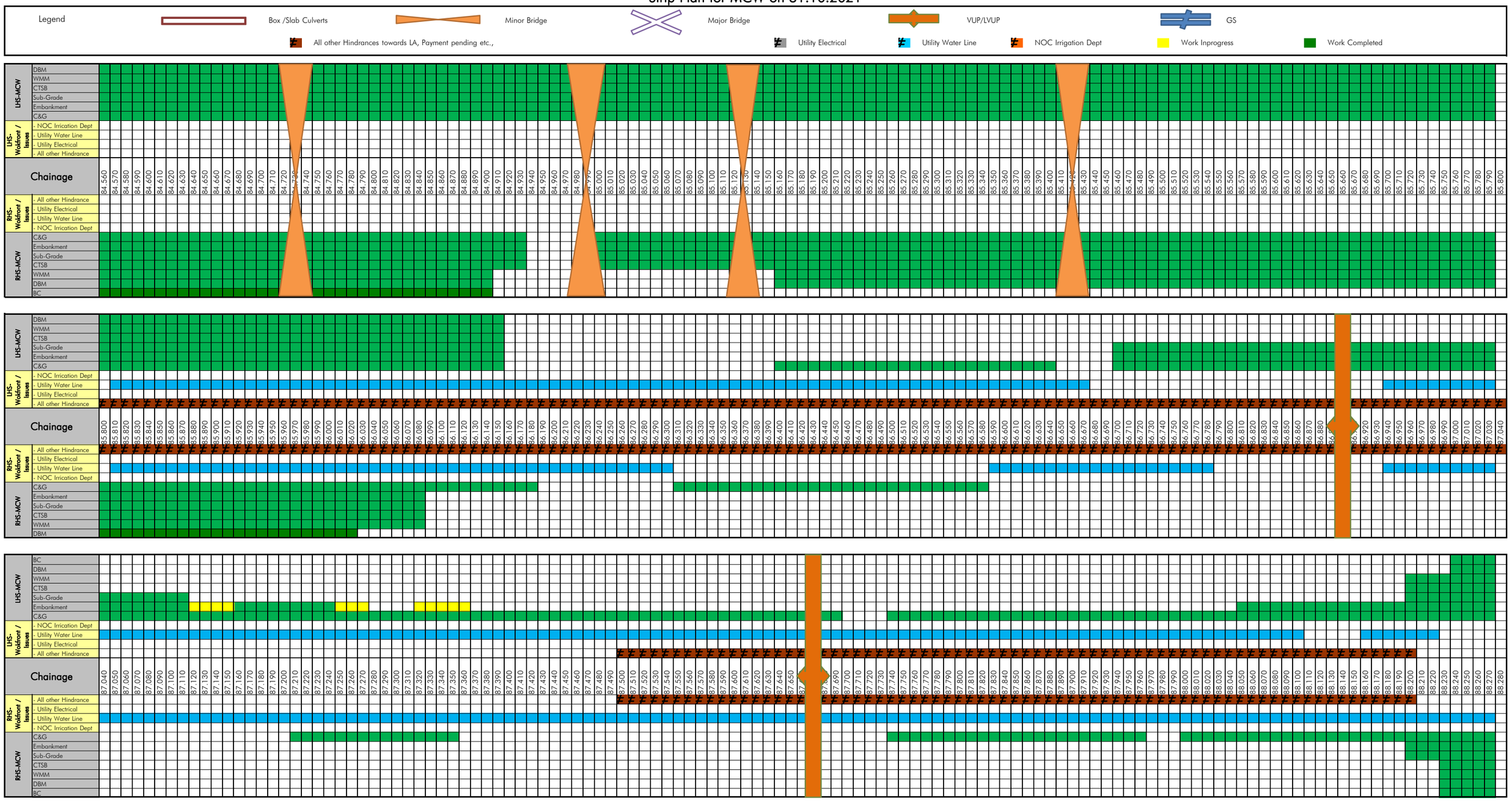
Strip Plan for MCW on 31.10.2021



Four Laning of Sethiyahopu - Cholopuram from Km. 65.960 to Km. 116.440 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode

Sethiyahopu - Cholopuram Road Projects

Strip Plan for MCW on 31.10.2021



Four Laning of Sethiyahopu - Cholopuram from Km. 65.960 to Km. 116.440 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode

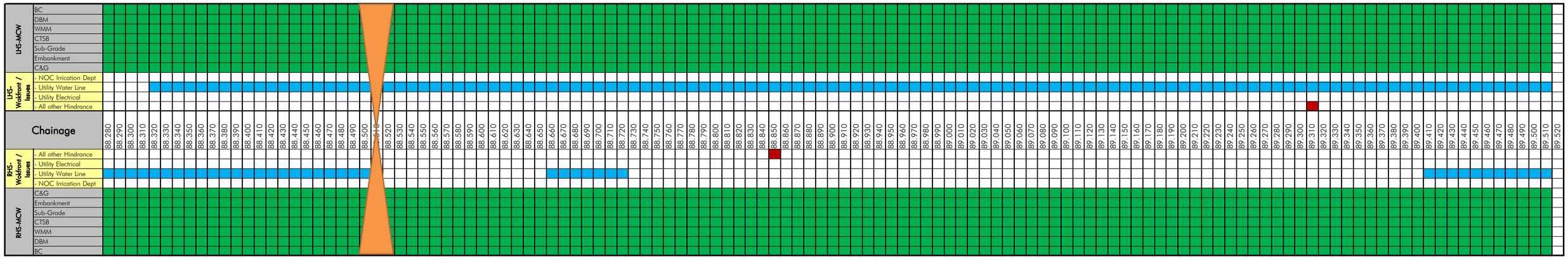
Sethiyahopu - Cholopuram Road Projects

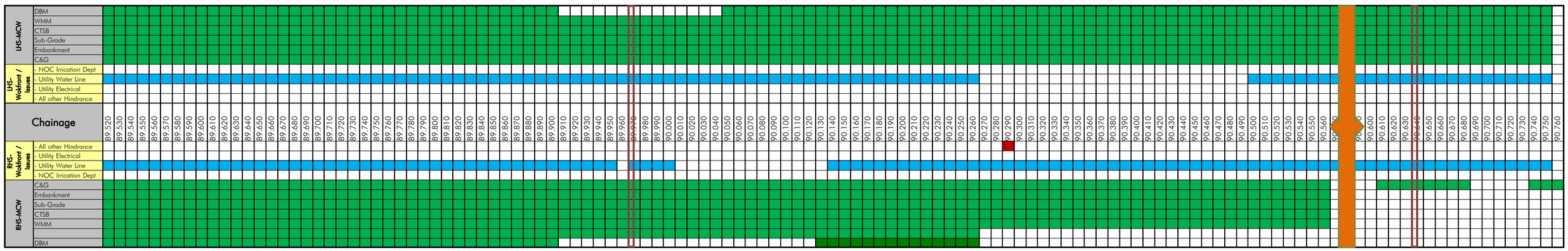
Strip Plan for MCW on 31.10.2021

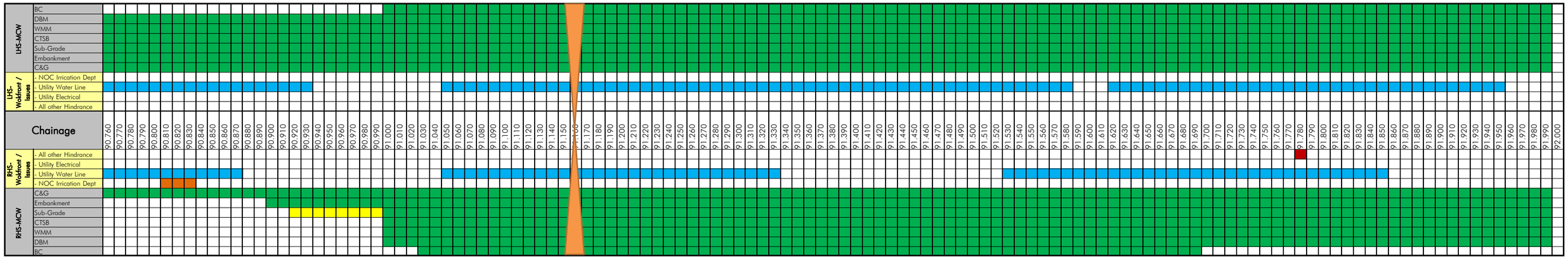
Legend

Box /Slab Culverts | Minor Bridge | Major Bridge | VUP/LVUP | GS

All other Hindrances towards LA, Payment pending etc., | Utility Electrical | Utility Water Line | NOC Irrigation Dept | Work Inprogress | Work Completed







Four Laning of Sethiyahopu - Cholopuram from Km. 65.960 to Km. 116.440 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode

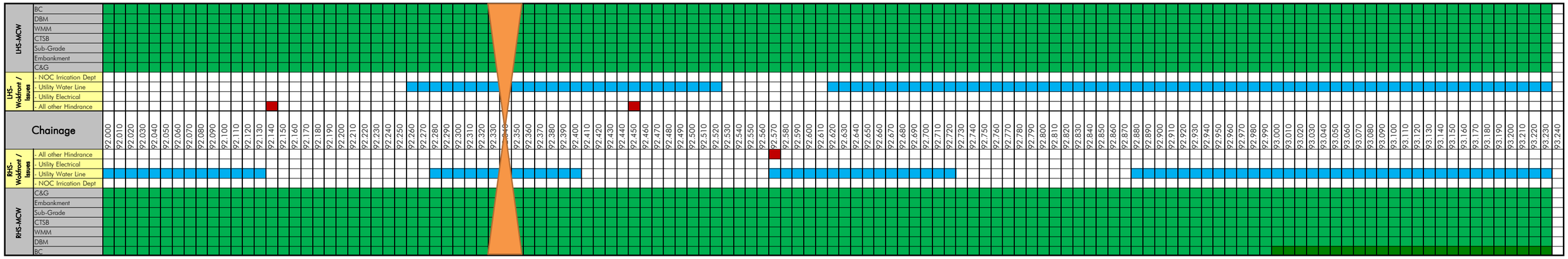
Sethiyahopu - Cholopuram Road Projects

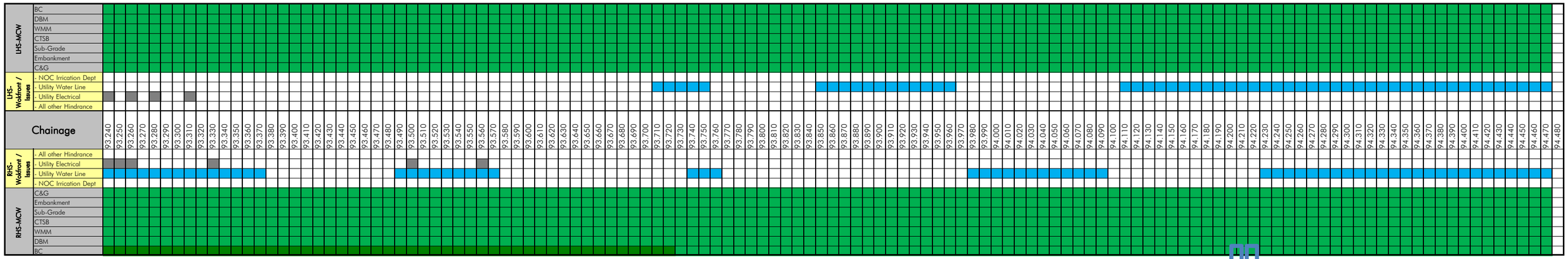
Strip Plan for MCW on 31.10.2021

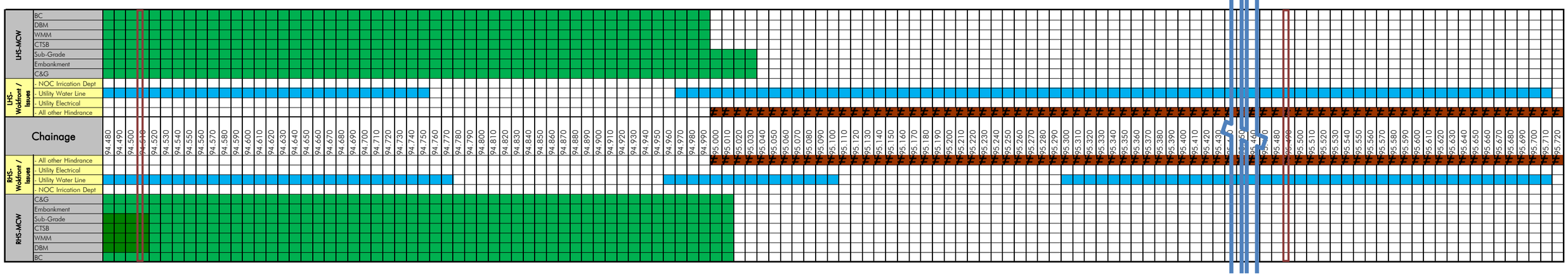
Legend

Box /Slab Culverts | Minor Bridge | Major Bridge | VUP/LVUP | GS

All other Hindrances towards LA, Payment pending etc., | Utility Electrical | Utility Water Line | NOC Irrigation Dept | Work Inprogress | Work Completed







Four Laning of Sethiyahopu - Cholopuram from Km. 65.960 to Km. 116.440 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode

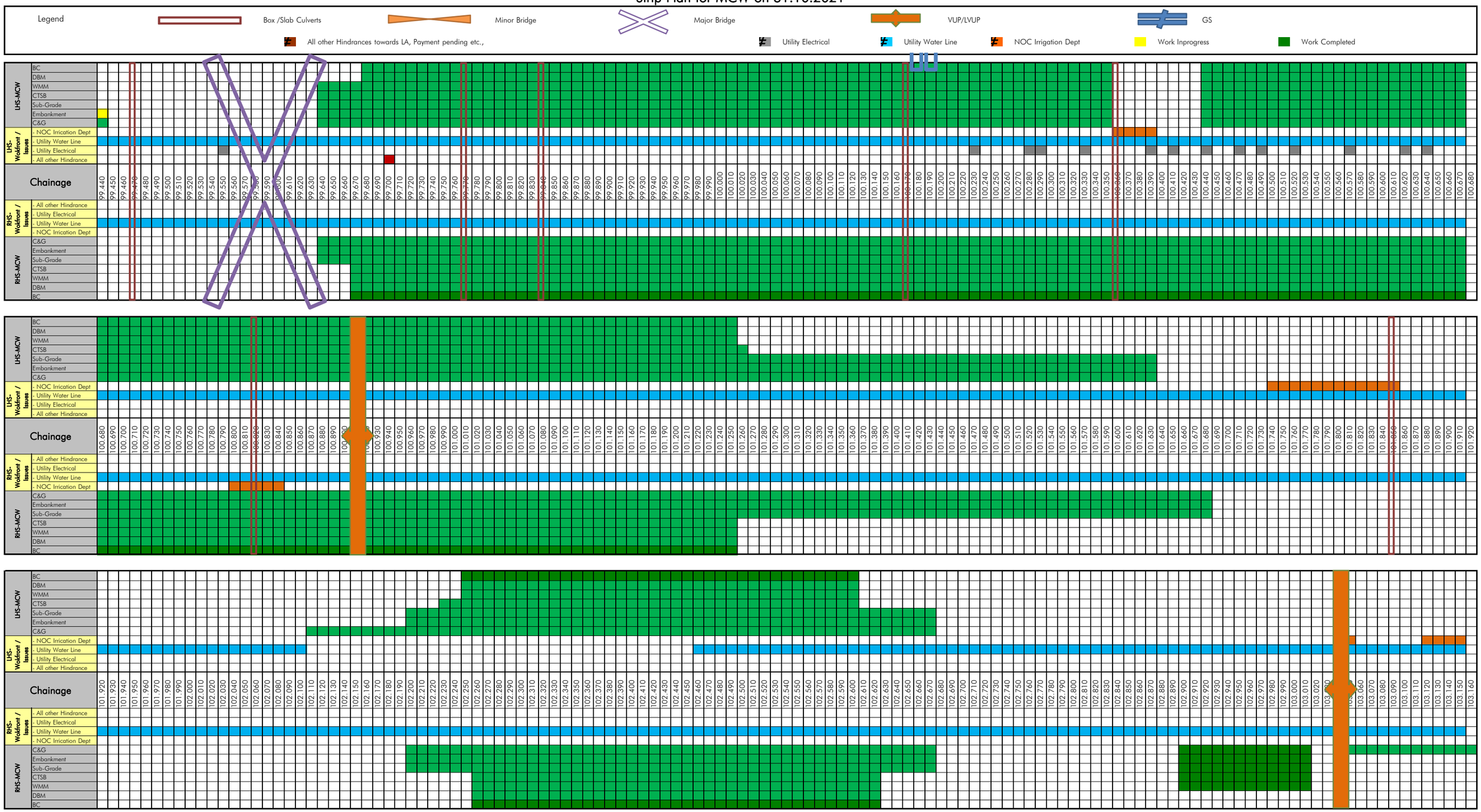
Sethiyahopu - Cholopuram Road Projects

Strip Plan for MCW on 31.10.2021

Four Laning of Sethiyahopu - Cholopuram from Km. 65.960 to Km. 116.440 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode

Sethiyahopu - Cholopuram Road Projects

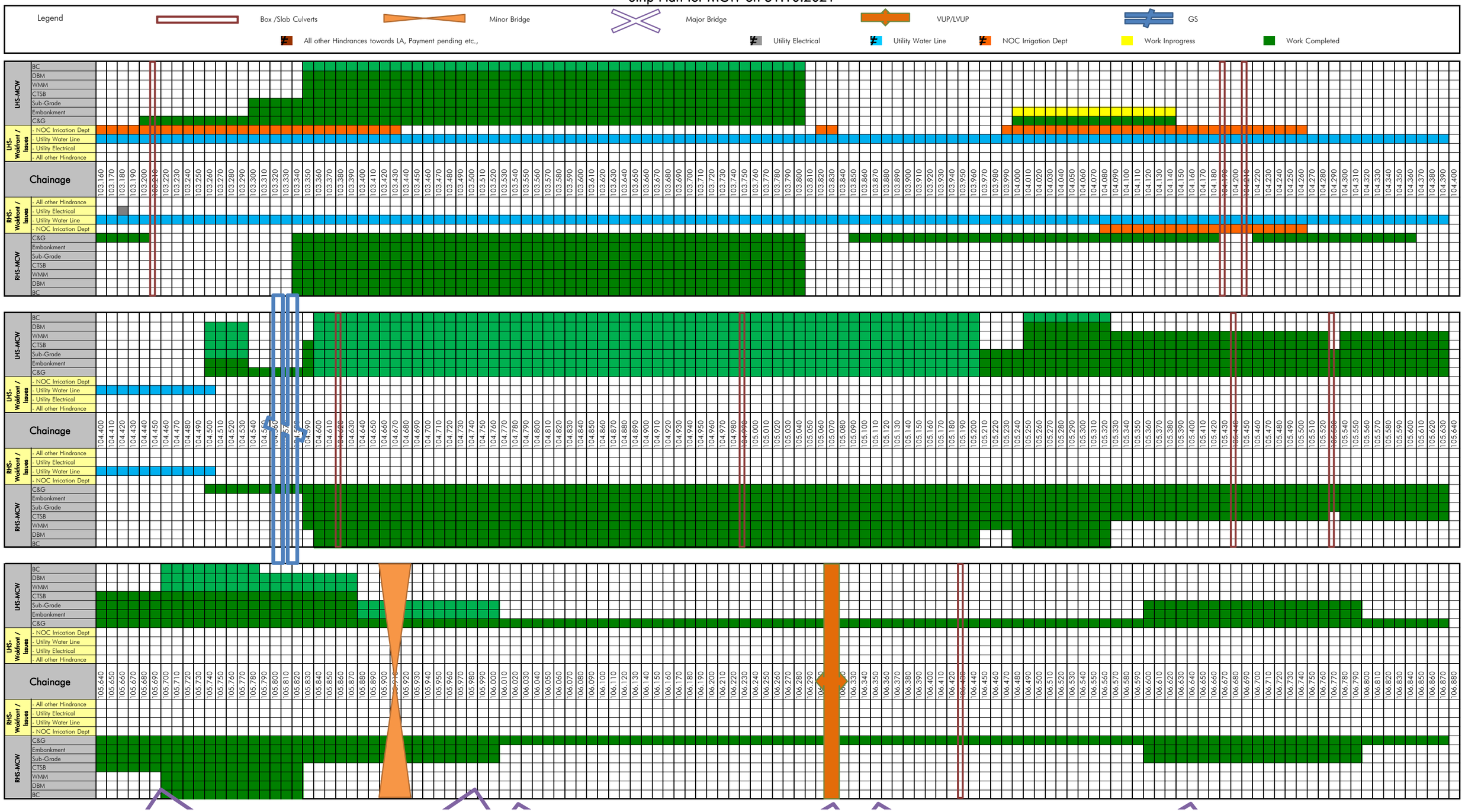
Strip Plan for MCW on 31.10.2021



Four Laning of Sethiyahopu - Cholopuram from Km. 65.960 to Km. 116.440 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode

Sethiyahopu - Cholopuram Road Projects

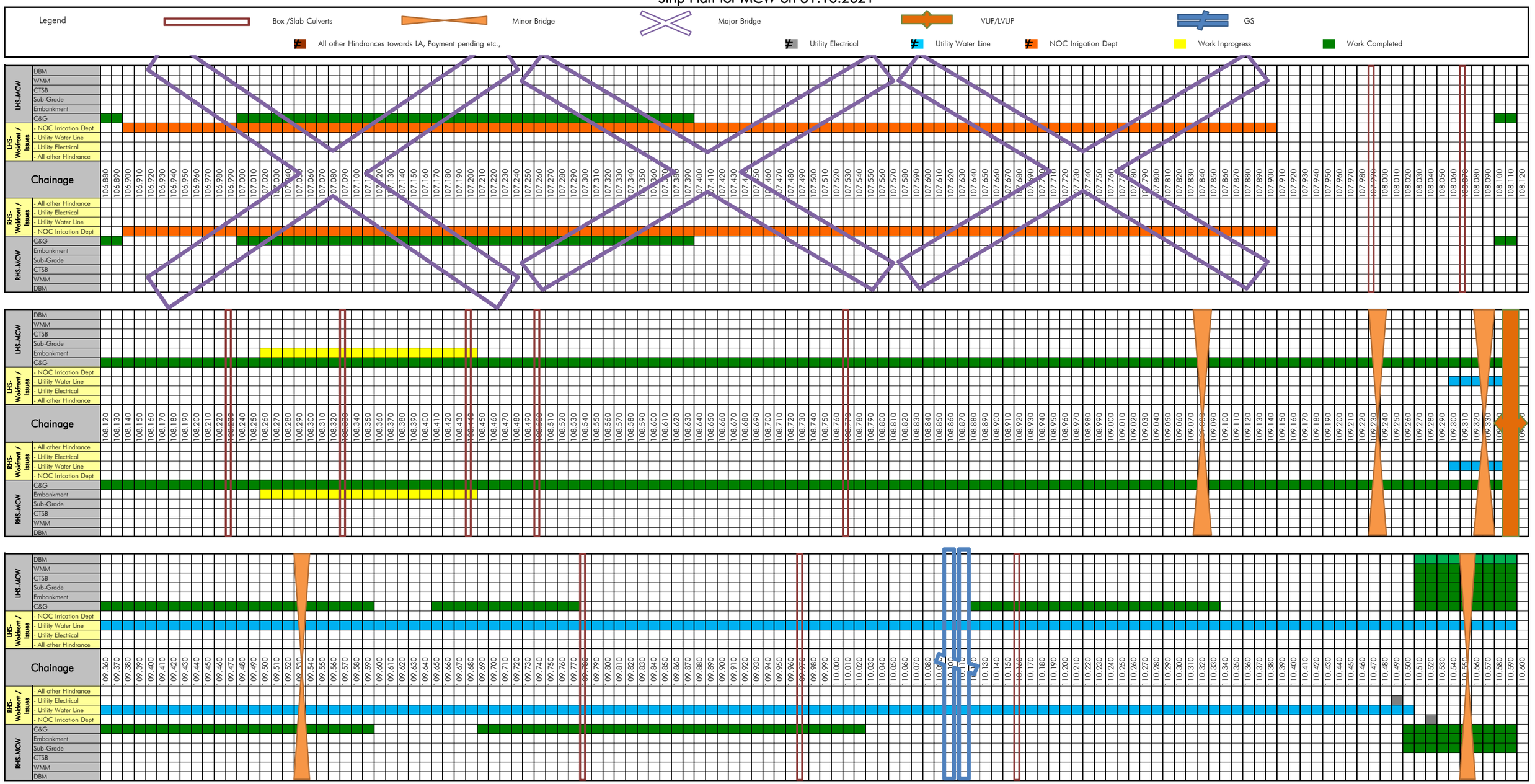
Strip Plan for MCW on 31.10.2021



Four Laning of Sethiyahopu - Cholopuram from Km. 65.960 to Km. 116.440 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode

Sethiyahopu - Cholopuram Road Projects

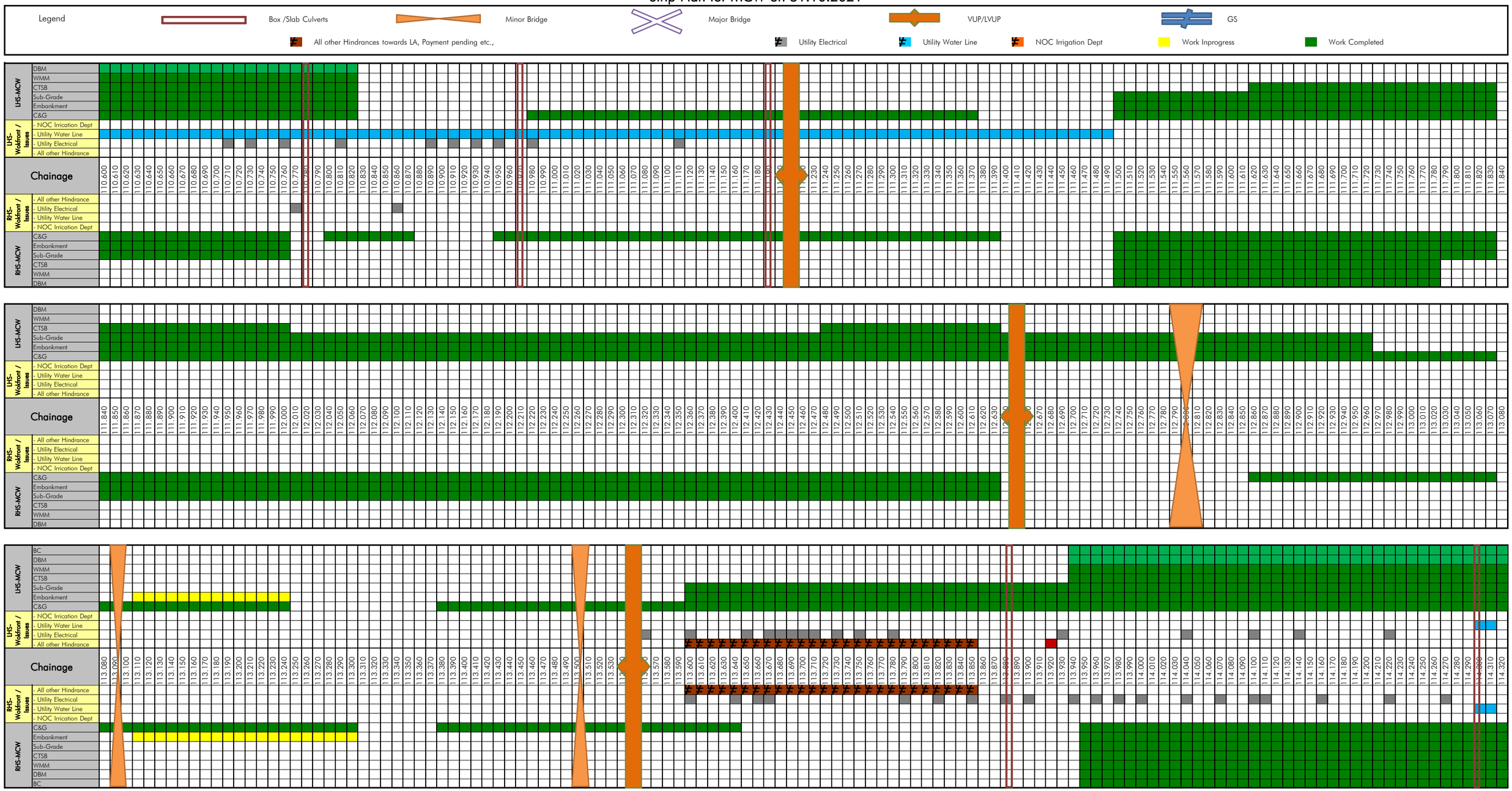
Strip Plan for MCW on 31.10.2021



Four Laning of Sethiyahopu - Cholopuram from Km. 65.960 to Km. 116.440 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode

Sethiyahopu - Cholopuram Road Projects

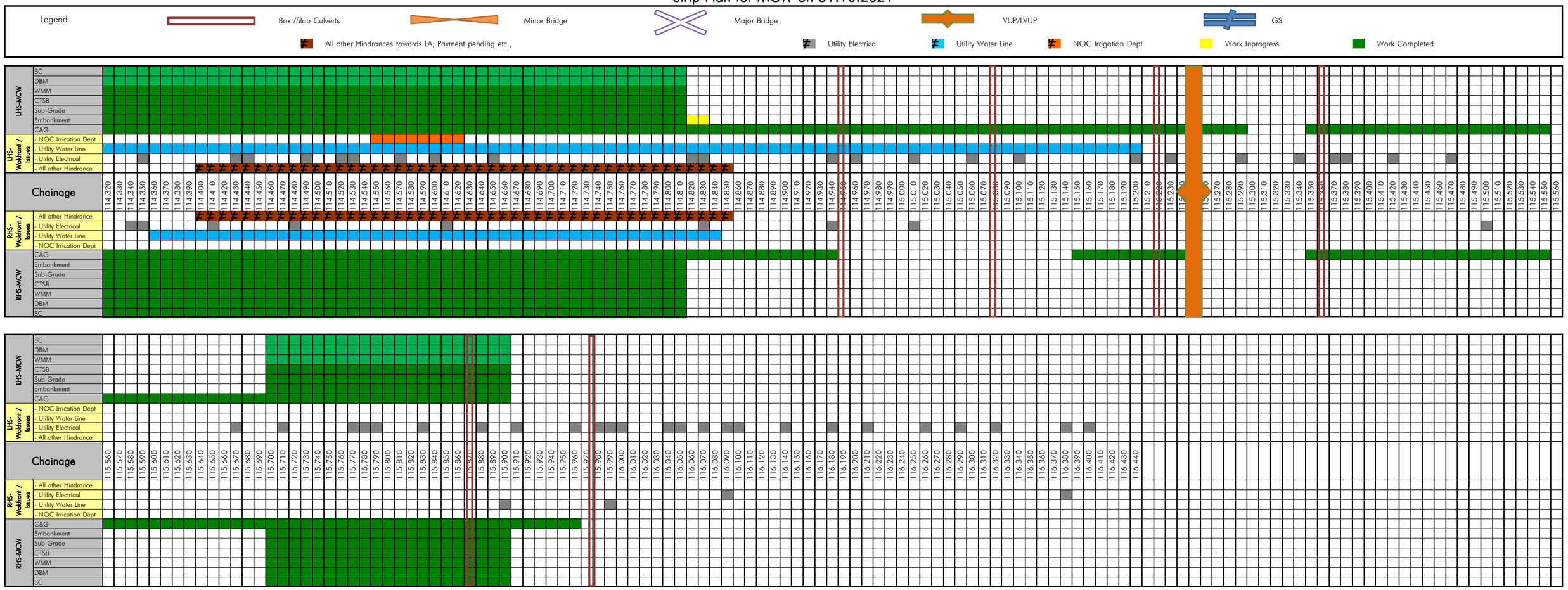
Strip Plan for MCW on 31.10.2021



Four Laning of Sethiyahopu - Cholopuram from Km. 65.960 to Km. 116.440 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode

Sethiyahopu - Cholopuram Road Projects

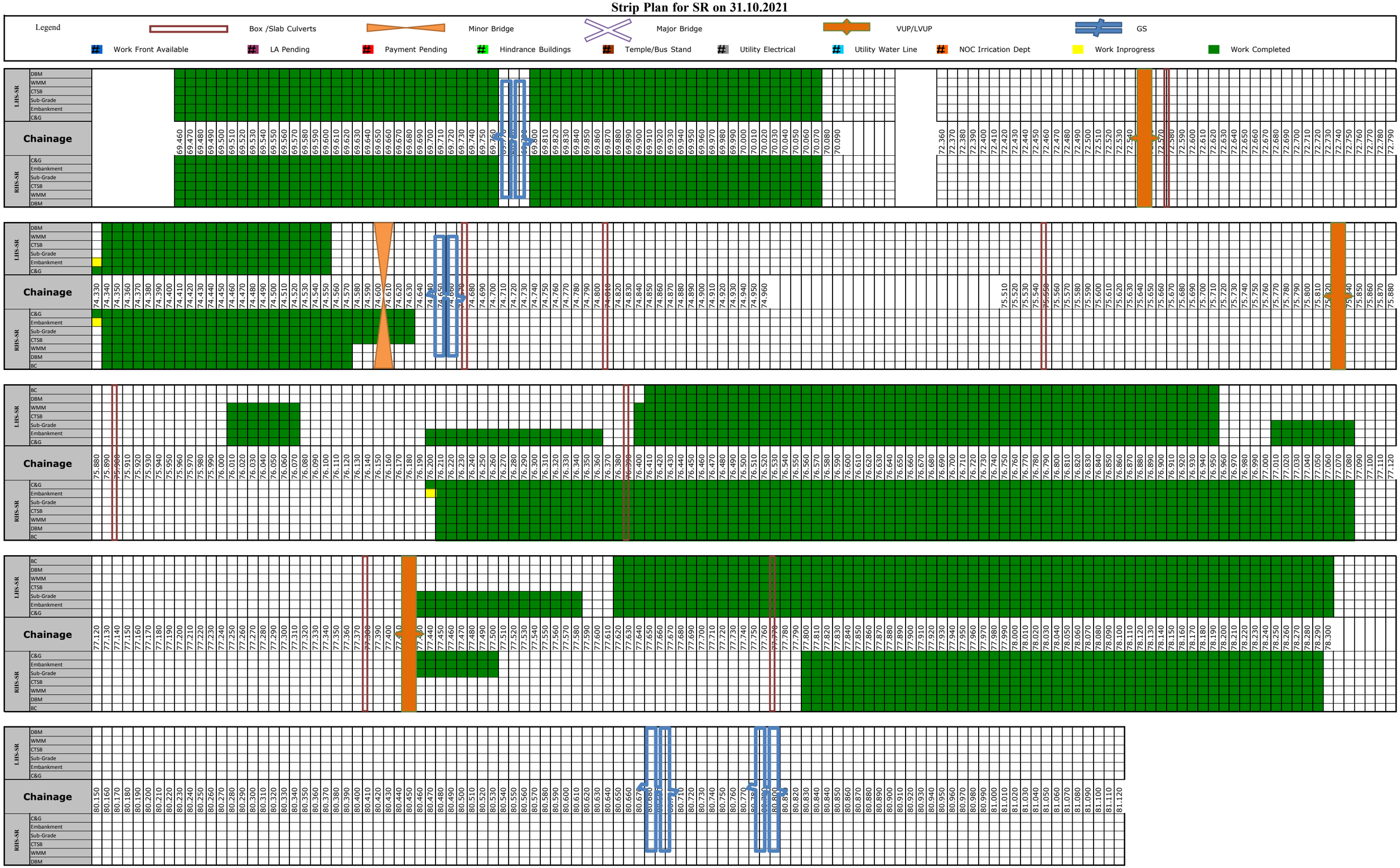
Strip Plan for MCW on 31.10.2021



Four Laning of Sethiyahopu - Cholopuram from Km. 65.960 to Km. 116.440 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode

Sethiyahopu - Cholopuram Road Projects

Strip Plan for SR on 31.10.2021

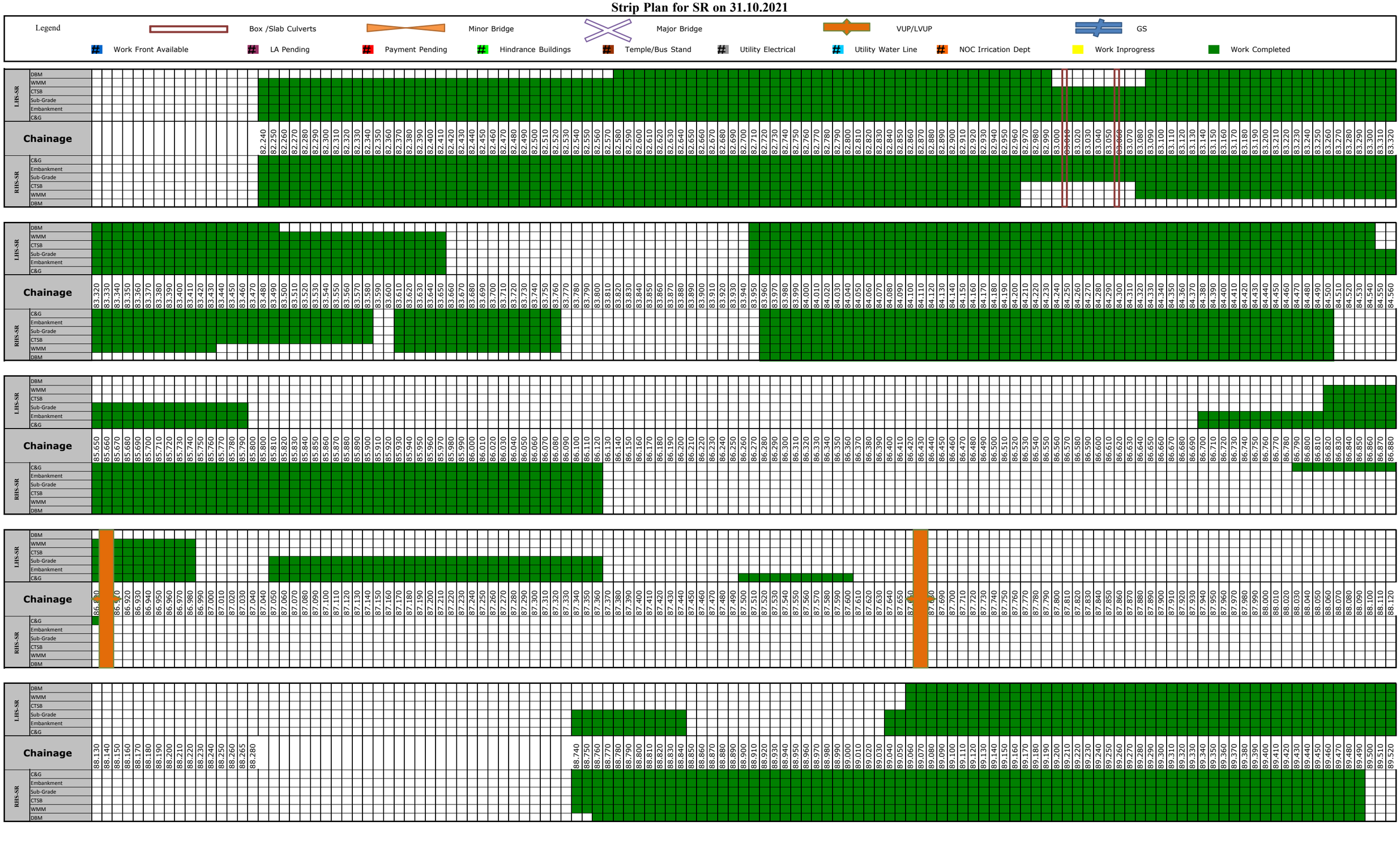


MPR OCTOBER 2021

Four Laning of Sethiyahopu - Cholopuram from Km. 65.960 to Km. 116.440 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode

Sethiyahopu - Cholopuram Road Projects

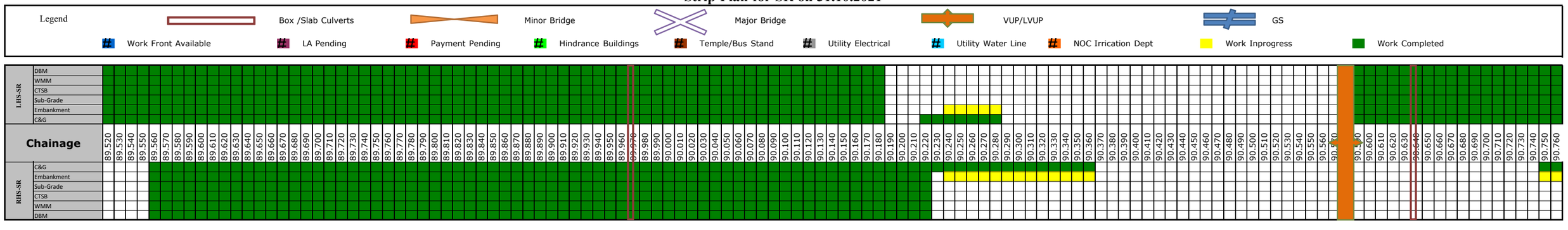
Strip Plan for SR on 31.10.2021

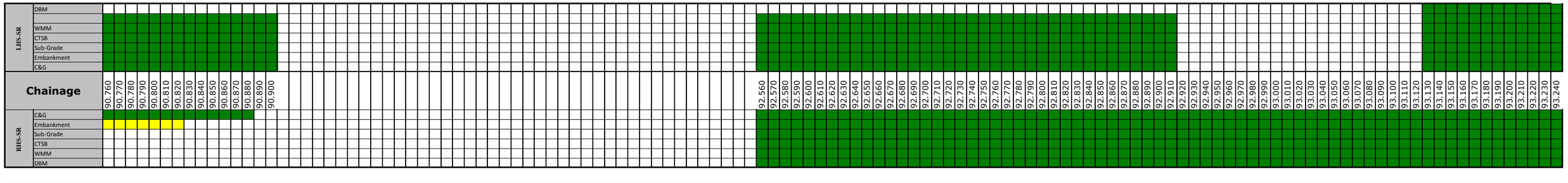


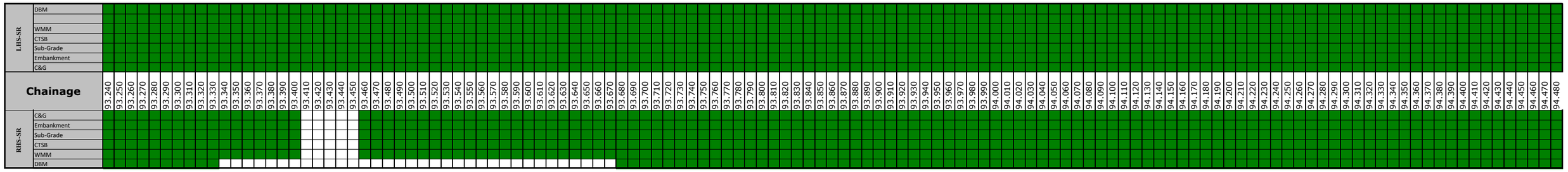
Four Laning of Sethiyahopu - Cholopuram from Km. 65.960 to Km. 116.440 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode

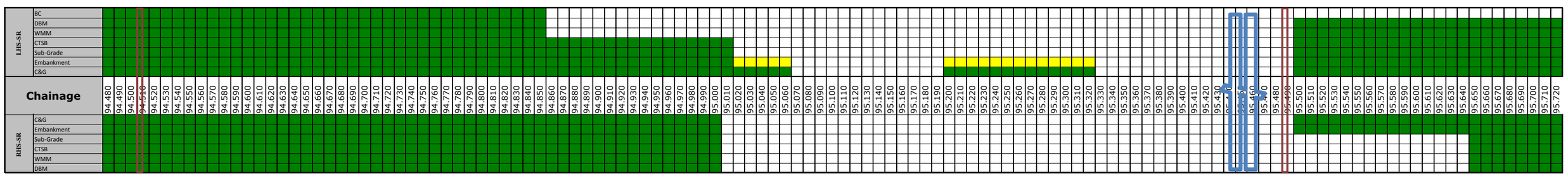
Sethiyahopu - Cholopuram Road Projects

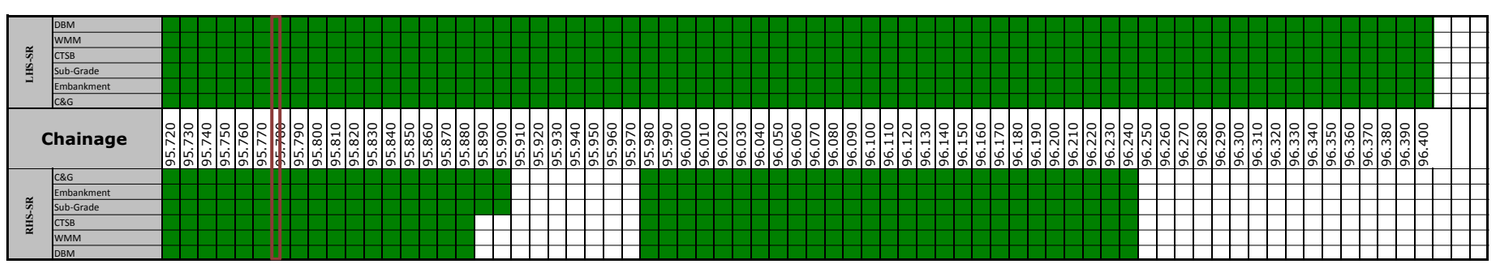
Strip Plan for SR on 31.10.2021











Four Laning of Sethiyahopu - Cholopuram from Km. 65.960 to Km. 116.440 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode

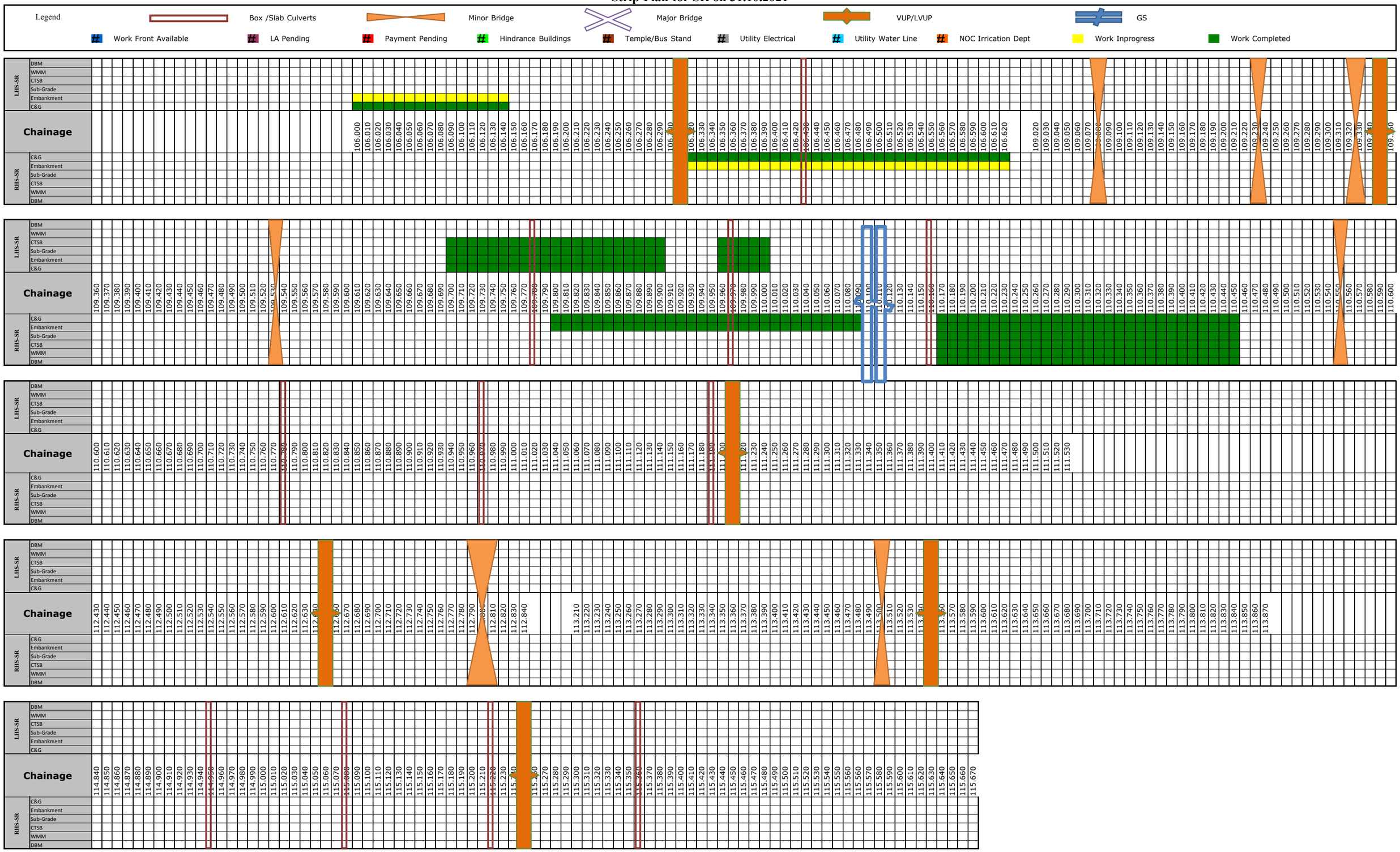
Sethiyahopu - Cholopuram Road Projects

Strip Plan for SR on 31.10.2021

Four Laning of Sethiyahopu - Cholopuram from Km. 65.960 to Km. 116.440 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode

Sethiyahopu - Cholopuram Road Projects

Strip Plan for SR on 31.10.2021



SETHIYAHOPU CHOLOPURAM PROJECT - STATUS OF BOX CULVERTS ON EXISTING ROAD - MCW

Completed | In Progress

Status Upto	31.10.2021						LHS								RHS							
Sr. No.	As Approved by IE	Design Chainage As per CA		Number and Length of Spans (m)	Remarks	Type of Structure	Protection Work	Fly wing wall	Slab	Wall	Raft	PCC	Granular Filling	Excavation	Excavation	Granular Filling	PCC	Raft	Wall	Slab	Fly wing wall	Protection Work
1	74+675	74.670	EXISTING	1 x 3.0m x 2.0m	New Construction	BOX CULVERT																
2	74+800	74.808	EXISTING	1 x 1.20m	Reconstruction	BOX CULVERT																
3	75+558	75.555	EXISTING	1x3.0m	Reconstruction	BOX CULVERT																
4	75+902	75.897	EXISTING	1 x 2.0m x 2.0m	Reconstruction	BOX CULVERT																
5	76+390	76.387	EXISTING	1 x 3.0m	Reconstruction	BOX CULVERT																
6	77+382	77.379	EXISTING	1 x 4.0m	Reconstruction	BOX CULVERT																
7	77+767	77.764	EXISTING	1 x 2.0m	Widening	BOX CULVERT																
8	81+868	81.867	EXISTING	1 x 2.0m x 2.0m	Reconstruction	BOX CULVERT																
9	81+913	81.910	EXISTING	1 x 1.95m x 1.0m	Widening	BOX CULVERT																
10	83+012	83.007	EXISTING	2 x 2.0m x 2.0m	Reconstruction	BOX CULVERT																
11	83+065	83.062	EXISTING	1 x 2.0m x 2.0m	Reconstruction	BOX CULVERT																
12	89+973	89.969	EXISTING	4 x 0.75m	Widening	BOX CULVERT																
13	90+640	90.637	EXISTING	1 x 1.20m	Reconstruction	BOX CULVERT																
14	94+509	94.509	EXISTING	1 x 3.6m x 1.6m	Widening	BOX CULVERT																
15	95+495	95.490	EXISTING	1 x 1.2m x 0.9m	Reconstruction	BOX CULVERT																
16	95+794	95.787	EXISTING	1 x 1.20m	Reconstruction	BOX CULVERT																
17	96+511	96.505	EXISTING	1 x 5.0m	Reconstruction	BOX CULVERT																
18	97+530	97.534	EXISTING	1x2.0m	Reconstruction	BOX CULVERT																
19	97+742	97.738	EXISTING	1 x 3.0m x 1.0m	Widening	BOX CULVERT																
20	99+471	99.467	EXISTING	1 x 3.0m x 4.0m	Repair & Widening	BOX CULVERT																
21	99+776	99.769	EXISTING	1 x 2.0m x 2.0m	Repair & Widening	BOX CULVERT																
22	99+840	99.838	EXISTING	1 x 1.5m x 1.5m	Repair & Widening	BOX CULVERT																
23	100+177	100.173	EXISTING	1 x 1m	Repair & Widening	BOX CULVERT																
24	100+364	100.358	EXISTING	1 x 10m	Repair & Widening	BOX CULVERT																
25	100+823	100.817	EXISTING	1 x 3.5m x 2.5m	Repair & Widening	BOX CULVERT																
26	101+851	101.851	EXISTING	1 x 1.5m x 1.5m	Repair & Reconstruction	BOX CULVERT																
27	103+220	103.214	EXISTING	1 x 4.0m x 2.5m	Repair & Reconstruction	BOX CULVERT																
28	104+197	104.190	EXISTING	1 x 1.0m	Repair & Reconstruction	BOX CULVERT																
29	104+215	104.208	EXISTING	1 x 1.0m	Reconstruction	BOX CULVERT																
30	109+786	109.779	EXISTING	1 x 1.0m	Repair & Reconstruction	BOX CULVERT																
31	109+975	109.967	EXISTING	1 x 2.0m x 1.7m	Repair & Reconstruction	BOX CULVERT																
32	110+167	110.160	EXISTING	2 x 1.0m	Repair & Reconstruction	BOX CULVERT																
33	110+402		EXISTING	1 x 1.5m		BOX CULVERT																
34	110+795	110.785	EXISTING	1 x 1.2m x 2.0m	Repair & Widening	BOX CULVERT																
35	110+980	110.971	EXISTING	1 x 1.5m x 2.0m	Repair & Reconstruction	BOX CULVERT																
36	113+897	113.885	EXISTING	1 x 1.0m	Repair & Widening	BOX CULVERT																
37	114+313	114.300	EXISTING	1 x 1.0m	Repair & Widening	BOX CULVERT																
38	114+703	114.703	EXISTING			BOX CULVERT																
39	114+954	114.952	EXISTING	1 x 1.0m	Repair & Reconstruction	BOX CULVERT																
40	115+097	115.087	EXISTING	2 x 1.0m	Repair & Reconstruction	BOX CULVERT																
41	115+232	115.221	EXISTING	1 x 2.0m x 2.0m	Repair & Reconstruction	BOX CULVERT																
42	115+381	115.368	EXISTING	1 x 2.0m	Repair & Reconstruction	BOX CULVERT																
43	115+884	115.872	EXISTING	2 x 1.0m	Repair & Widening	BOX CULVERT																
44	115+978	115.978	EXISTING	1 x 2.0m x 2.0m	Repair & Widening	BOX CULVERT																

SETHIYAHOPU CHOLOPURAM PROJECT - STATUS OF BOX CULVERTS ON EXISTING ROAD - SERVICE ROAD

Completed | In Progress

Status Upto	31.10.2021						LHS								RHS							
Sr. No.	As Approved by IE	Design Chainage As per CA		Number and Length of Spans (m)	Remarks	Type of Structure	Protection Work	Fly wing wall	Slab	Wall	Raft	PCC	Granular Filling	Excavation	Excavation	Granular Filling	PCC	Raft	Wall	Slab	Fly wing wall	Protection Work
1	74+675	74.670	EXISTING	1 x 3.0m x 2.0m	New Construction	BOX CULVERT																
2	74+800	74.808	EXISTING	1 x 1.20m	Reconstruction	PIPE CULVERT																
3	75+558	75.555	EXISTING	1x3.0m	Reconstruction	BOX CULVERT																
4	75+902	75.897	EXISTING	1 x 2.0m x 2.0m	Reconstruction	BOX CULVERT																
5	76+390	76.387	EXISTING	1 x 3.0m	Reconstruction	BOX CULVERT																
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7	77+767	77.764	EXISTING	1 x 2.0m	Widening	BOX CULVERT																
8	83+012	83.007	EXISTING	2 x 2.0m x 2.0m	Reconstruction	BOX CULVERT																
9	83+065	83.062	EXISTING	1 x 2.0m x 2.0m	Reconstruction	BOX CULVERT																
10	89+973	89.969	EXISTING	4 x 0.75m	Widening	PIPE CULVERT																
11	90+640	90.637	EXISTING	1 x 1.20m	Reconstruction	PIPE CULVERT																
12	94+509	94.509	EXISTING	1 x 3.6m x 1.6m	Widening	BOX CULVERT																
13	95+495	95.490	EXISTING	1 x 1.2m x 0.9m	Reconstruction	BOX CULVERT																
14	95+794	95.787	EXISTING	1 x 1.20m	Reconstruction	PIPE CULVERT																
15	96+511	96.505	EXISTING	1 x 5.0m	Reconstruction	BOX CULVERT																
16	97+530	97.534	EXISTING	1x2.0m	Reconstruction	BOX CULVERT																
17	99+776	99.769	EXISTING	1 x 2.0m x 2.0m	Repair & Widening	BOX CULVERT																
18	99+840	99.838	EXISTING	1 x 1.5m x 1.5m	Repair & Widening	BOX CULVERT																
19	100+177	100.173	EXISTING	1 x 1m	Repair & Widening	PIPE CULVERT																
20	100+364	100.358	EXISTING	1 x 10m	Repair & Widening	BOX CULVERT																
21	101+851	101.851	EXISTING	1 x 1.5m x 1.5m	Repair & Reconstruction	BOX CULVERT																
22	103+220	103.214	EXISTING	1 x 4.0m x 2.5m	Repair & Reconstruction	BOX CULVERT																
23	104+197	104.190	EXISTING	1 x 1.0m	Repair & Reconstruction	PIPE CULVERT																
24	104+215	104.208	EXISTING	1 x 1.0m	Reconstruction	PIPE CULVERT																
25	109+786	109.779	EXISTING	1 x 1.0m	Repair & Reconstruction	PIPE CULVERT																
26	109+975	109.967	EXISTING	1 x 2.0m x 1.7m	Repair & Reconstruction	BOX CULVERT																
27	110+167	110.160	EXISTING	2 x 1.0m	Repair & Reconstruction	PIPE CULVERT																
28	110+402		EXISTING	1 x 1.5m		BOX CULVERT																
29	110+795	110.785	EXISTING	1 x 1.2m x 2.0m	Repair & Widening	BOX CULVERT																
30	110+980	110.971	EXISTING	1 x 1.5m x 2.0m	Repair & Reconstruction	BOX CULVERT																
31	113+897	113.885	EXISTING	1 x 1.0m	Repair & Widening	PIPE CULVERT																
32	114+313	114.300	EXISTING	1 x 1.0m	Repair & Widening	PIPE CULVERT																
33	114+954	114.952	EXISTING	1 x 1.0m	Repair & Reconstruction	PIPE CULVERT																
34	115+097	115.087	EXISTING	2 x 1.0m	Repair & Reconstruction	PIPE CULVERT																
35	115+232	115.221	EXISTING	1 x 2.0m x 2.0m	Repair & Reconstruction	BOX CULVERT																
36	115+381	115.368	EXISTING	1 x 2.0m	Repair & Reconstruction	BOX CULVERT																
37	115+884	115.872	EXISTING	2 x 1.0m	Repair & Widening	PIPE CULVERT																
38	115+978	115.978	EXISTING	1 x 2.0m x 2.0m	Repair & Widening	BOX CULVERT																

SETHIYAHOPU CHOLOPURAM PROJECT - STATUS OF BOX CULVERTS ON BYPASS - MCW						Completed								In Progress							
Status Upto	31.10.2021					LHS								RHS							
Sr. No.	As Approved by IE	Design Chainage As per CA		Number and Length of Spans (m)	Type of Structure	Protection Work	Fly wing wall	Slab	Wall	Raft	PCC	Granular Filling	Excavation	Excavation	Granular Filling	PCC	Raft	Wall	Slab	Fly wing wall	Protection Work
1	66+357	66.383	BYPASS	1 x 3.0m x 2.0m	BOX CULVERT																
2	67+068	67.068	BYPASS	1 x 3.0m x 2.0m	BOX CULVERT																
3	69+357	69.357	BYPASS	1 x 2.0m x 2.0m	BOX CULVERT																
4	72+570	72.578	BYPASS	1 x 3.0m x 2.0m	BOX CULVERT																
5	73+755	73.755	BYPASS	1x1.2.0mx2.0m	PIPE CULVERT																
6	104+622	104.618	BYPASS	1 x 2.0m x 2.0m	BOX CULVERT																
7	104+998	104.992	BYPASS	1 x 4.0m x 2.0m	BOX CULVERT																
8	105+440	105.440	BYPASS	1 x 2.0m x 2.0m	BOX CULVERT																
9	105+536	105.525	BYPASS	1 x 2.0m x 2.0m	BOX CULVERT																
10	106+442	106.432	BYPASS	1 x 2.0m x 2.0m	BOX CULVERT																
11	108+002	107.994	BYPASS	1 x 3.0m x 2.0m	BOX CULVERT																
12	108+080	108.070	BYPASS	1 x 4.0m x 2.0m	BOX CULVERT																
13	108+225	108.225	BYPASS	1 x 3.0m x 2.0m	BOX CULVERT																
14	108+345	108.334	BYPASS	1 x 3.0m x 2.0m	BOX CULVERT																
15	108+441	108.441	BYPASS	1 x 3.0m x 2.0m	BOX CULVERT																
16	108+540	108.500	BYPASS	1 x 2.0m x 2.0m	BOX CULVERT																
17	108+767	108.767	BYPASS	1 x 4.0m x 2.0m	BOX CULVERT																
18	111+205	111.196	BYPASS	1 x 1.0m	PIPE CULVERT																
19	113+372	113.372	BYPASS		BOX CULVERT																

SETHIYAHOPU CHOLOPURAM PROJECT - STATUS OF BOX CULVERTS ON BYPASS - SERVICE ROAD							Completed								In Progress							
Status Upto	31.10.2021					LHS								RHS								
Sr. No.	As Approved by IE	Design Chainage As per CA		Number and Length of Spans (m)	Type of Structure	Protection Work	Fly wing wall	Slab	Wall	Raft	PCC	Granular Filling	Excavation	Excavation	Granular Filling	PCC	Raft	Wall	Slab	Fly wing wall	Protection Work
1	72+570	72.578	BYPASS	1 x 3.0m x 2.0m	BOX CULVERT																
2	104+622	104.618	BYPASS	1 x 2.0m x 2.0m	BOX CULVERT																
3	104+998	104.992	BYPASS	1 x 4.0m x 2.0m	BOX CULVERT																
4	106+442	106.432	BYPASS	1 x 2.0m x 2.0m	BOX CULVERT																
5	111+205	111.196	BYPASS	1 x 1.0m	PIPE CULVERT																
6	113+372	113.372	BYPASS		BOX CULVERT																

SETHIYAHOPU CHOLOPURAM PROJECT - STATUS OF MNB-BOX - MCW							Completed								In Progress							
Status Upto	31.10.2021						LHS								RHS							
Sr. No.	As Approved by IE	Design Chainage As per CA	Number and Length of Spans (m)	Type of Structure		Protection Work	Retaining wall	Slab	Wall	Raft	PCC	Granular Filling	Excavation		Excavation	Granular Filling	PCC	Raft	Wall	Slab	Retaining wall	Protection Work
1	79+716	79.715	1 x 12.50m	MNBB	Widening																	
2	79+795	79.795	2 x 12.50m	MNBB	Re-Const.																	
3	82+007	82.006	2 x 12.50m	MNBB	Widening																	
4	85+144	85.144	2 x 12.50m	MNBB	Re-Const.																	
5	85+435	85.432	1 x 12.50m	MNBB	Widening																	
6	88+513	88.513	1 x 12.50m	MNBB	Widening																	
7	91+164	91.165	2 x 12.50m	MNBB	Re-Const.																	
8	92+343	92.342	1 x 12.50m	MNBB	Widening																	
9	101+101	101.100		MNBB	EXISTING										NA	NA	NA	NA	NA	NA	NA	
10	66+757	66.730	2 x 12.5m	MNBB	BYPASS																	
11	68+644	68.650	2 x 12.5m	MNBB	BYPASS																	
12	74+173	74.175	2 x 12.5m	MNBB	BYPASS																	
13	74+605	74.600	2 x 12.5m	MNBB	BYPASS																	
14	105+915	105.915	2 x 12.5m	MNBB	BYPASS																	
15	109+090	109.088	2 x 12.5m	MNBB	BYPASS																	
16	109+195	109.208	2 x 12.5m	MNBB	BYPASS																	
17	109+365	109.365	2 x 12.5m	MNBB	BYPASS																	
18	109+540	109.540	2 x 12.5m	MNBB	BYPASS																	
19	111+563	111.565	2 x 12.5m	MNBB	BYPASS																	
20	112+807	112.807	1 x 25m	MNBB	BYPASS																	
21	113+100	113.100	2 x 12.5m	MNBB	BYPASS																	
22	113+505	113.505	2 x 12.5m	MNBB	BYPASS																	

SETHIYAHOPU CHOLOPURAM PROJECT - STATUS OF MNB-BOX - SERVICE ROAD							Completed								In Progress							
Status Upto	31.10.2021					LHS								RHS								
Sr. No.	As Approved by IE	Design Chainage As per CA	Number and Length of Spans (m)	Type of Structure		Protection Work	Retaining wall	Slab	Wall	Raft	PCC	Granular Filling	Excavation	Excavation	Granular Filling	PCC	Raft	Wall	Slab	Retaining wall	Protection Work
1	74+605	74.600	2 x 12.5m	MNBB	BYPASS																
2	105+915	105.915	2 x 12.5m	MNBB	BYPASS																
3	109+090	109.088	2 x 12.5m	MNBB	BYPASS																
4	109+195	109.208	2 x 12.5m	MNBB	BYPASS																
5	109+365	109.365	2 x 12.5m	MNBB	BYPASS																
6	109+540	109.540	2 x 12.5m	MNBB	BYPASS																
7	111+563	111.565	2 x 12.5m	MNBB	BYPASS																
8	112+807	112.807	1 x 25m	MNBB	BYPASS																
9	113+100	113.100	2 x 12.5m	MNBB	BYPASS																
10	113+505	113.505	2 x 12.5m	MNBB	BYPASS																

SETHIYAHOPU CHOLOPURAM PROJECT - STATUS OF LVUP						Completed							In Progress					
Status Upto	31.10.2021				LHS						RHS							
Sr. No.	As Approved by IE	Number and Length of Spans (m)	Type of Structure		Protection Work	Slab	Wall	Raft	PCC	Excavation	Excavation	PCC	Raft	Wall	Slab	Protection Work
1	77+420	1X10.5	LVUP	EXISTING												
2	112+643	1X10.5	LVUP	BYPASS												

SETHIYAHOPU CHOLOPURAM PROJECT - STATUS OF MNB (>15m Span)					Completed									In Progress								
Status upto	31.10.2021				LHS									RHS								
Sr. No.	MNB at Chainage	Span			Crash Barrier	Slab	Girder Launching	Girder Casting	Piercap /Abtcap	Pier/Abt	Open Foundation	PCC	Excavation	Excavation	PCC	Open Foundation	Pier/Abt	Piercap /Abtcap	Girder Casting	Girder Launching	Slab	Crash Barrier
1	70+185	2 x 20	BYPASS	A1																		
				P1																		
				A2																		
2	73+815	1 x 15	BYPASS	A1																		
				A2																		
3	84+725	1 x 15	EXISTING	A1																		
				A2																		
4	84+987	2 x 15	EXISTING	A1																		
				P1																		
				A2																		

SETHIYAHOPU CHOLOPURAM PROJECT - STATUS OF MJB

Completed

In Progress

MJB at Chainage 66+530 (8x30) - BYPASS

Status Upto 31.10.2021	LHS/LSR								RHS/RSR							
	Crash Barrier	Slab	Girder Launching	Girder Casting	Pier Cap/Abt Cap	Pier/Abt	Pile Cap	Pile	Pile	Pile Cap	Pier/Abt	Pier Cap/Abt Cap	Girder Casting	Girder Launching	Slab	Crash Barrier
A1																
P1																
P2																
P3																
P4																
P5																
P6																
P7																
A2																

MJB at Chainage 73+340 (9x30) - BYPASS

Status Upto 31.10.2021	LHS/LSR								RHS/LSR							
	Crash Barrier	Slab	Girder Launching	Girder Casting	Pier Cap/Abt Cap	Pier/Abt	Pile Cap	Pile	Pile	Pile Cap	Pier/Abt	Pier Cap/Abt Cap	Girder Casting	Girder Launching	Slab	Crash Barrier
A1																
P1																
P2																
P3																
P4																
P5																
P6																
P7																
P8																
A2																

MJB at Chainage 99+583 (3x25) - EXISTING ROAD

Completed
In Progress

Status Upto 31.10.2021	LHS/LSR								RHS/LSR							
	Crash Barrier	Slab	Girder Launching	Girder Casting	Pier Cap/Abt Cap	Pier/Abt	Pile Cap	Pile	Pile	Pile Cap	Pier/Abt	Pier Cap/Abt Cap	Girder Casting	Girder Launching	Slab	Crash Barrier
A1									Existing Major Bridge need to be retained.							
P1																
P2																
A2																

MJB at Chainage 107+400 - BYPASS

Completed
In Progress

Status Upto 31.10.2021	LHS/LSR								RHS/LSR							
	Crash Barrier	Slab	Girder Launching	Girder Casting	Pier Cap/Abt Cap	Pier/Abt	Pile Cap	Pile	Pile	Pile Cap	Pier/Abt	Pier Cap/Abt Cap	Girder Casting	Girder Launching	Slab	Crash Barrier
A1																
P1																
P2																
P3																
P4																
P5																
P6																
P7																
P8																
P9																
P10																
P11																
P12																
P13																
P14																
P15																
P16																
P17																
P18																
P19																
A2																

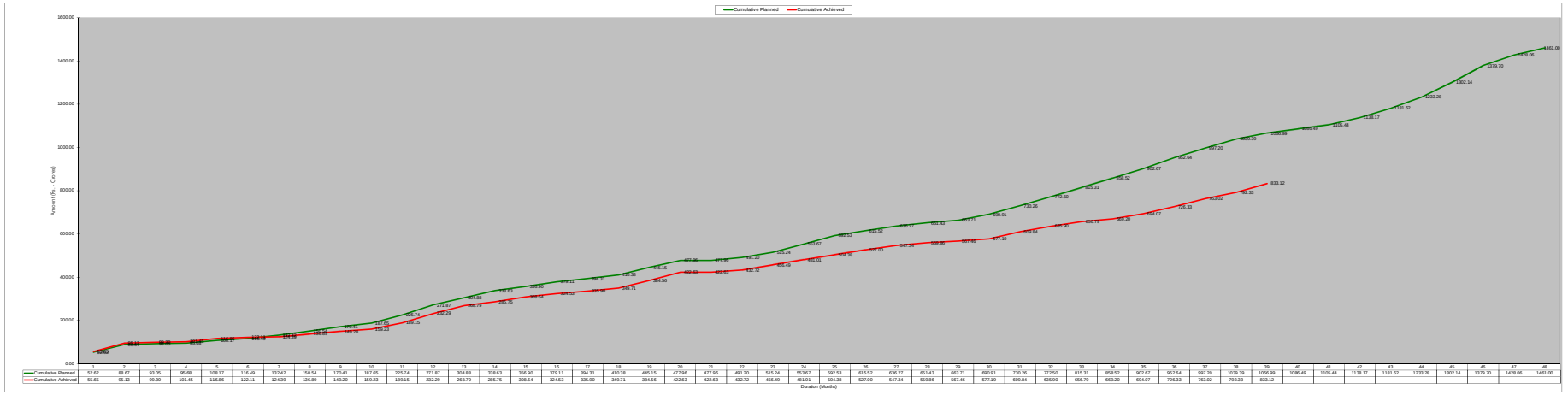
SETHIYAHOPU CHOLOPURAM PROJECT - STATUS OF FLYOVER					Completed										In Progress								
Status upto	31.10.2021				LHS										RHS								
Sr.No.	FO at Chainage	Span			Crash Barrier	Slab	Girder Launching	Girder Casting	Piercap /Abtcap	Abt Shaft	Pile Cap	PCC	Pile		Pile	PCC	Pile Cap	Abt Shaft	Piercap /Abtcap	Girder Casting	Girder Launching	Slab	Crash Barrier
1	69+785	1x30	BYPASS	A1																			
				A2																			
2	74+655	1x30	BYPASS+EXISTING	A1																			
				A2																			
3	80+556	1x30	EXISTING	A1																			
				A2																			
4	80+720	1x30	EXISTING	A1																			
				A2																			
5	95+455	2x30	EXISTING	A1																			
				P1																			
				A2																			
6	98+950	2x30	EXISTING	A1																			
				P1																			
				A2																			
7	104+570	1x30	BYPASS	A1																			
				A2																			
8	110+110	1x30	EXISTING	A1																			
				A2																			

SETHIYAHOPU CHOLOPURAM PROJECT - STATUS OF VUP						Completed									In Progress									
Status upto	31.10.2021				LHS									RHS										
SR.NO.	VUP at Chainage	Span			Crash Barrier	Slab	Girder Launching	Girder Casting	Piercap /Abtcap	Abt Shaft	Pile Cap	PCC	Pile	Pile	PCC	Pile Cap	Abt Shaft	Piercap /Abtcap	Girder Casting	Girder Launching	Slab	Crash Barrier
1	72+545	1x25	BYPASS	A1																		
				A2																		
2	75+830	1x25	EXISTING	A1																		
				A2																		
3	86+900	1x25	EXISTING	A1																		
				A2																		
4	87+670	1x25	EXISTING	A1																		
				A2																		
5	90+580	1x25	EXISTING	A1																		
				A2																		
6	97+225	1x25	EXISTING	A1																		
				A2																		
7	101+910	1x25	EXISTING	A1																		
				A2																		
8	102+975	1x25	EXISTING	A1																		
				A2																		
9	106+318	1x25	BYPASS	A1																		
				A2																		
10	109+350	1x25	BYPASS	A1																		
				A2																		
11	111+235	1x25	BYPASS+EXISTING	A1																		
				A2																		
12	113+550	1x25	BYPASS+EXISTING	A1																		
				A2																		
13	115+258	1x25	EXISTING	A1																		
				A2																		

5. Financial & Physical Progress of Work

Four Laning of Sethiyahopu - Cholopuram from Km. 65.960 to 116.440 Section of NH45C in the state of Tamilnadu under NHDP-IV on Hybrid Annuity Mode

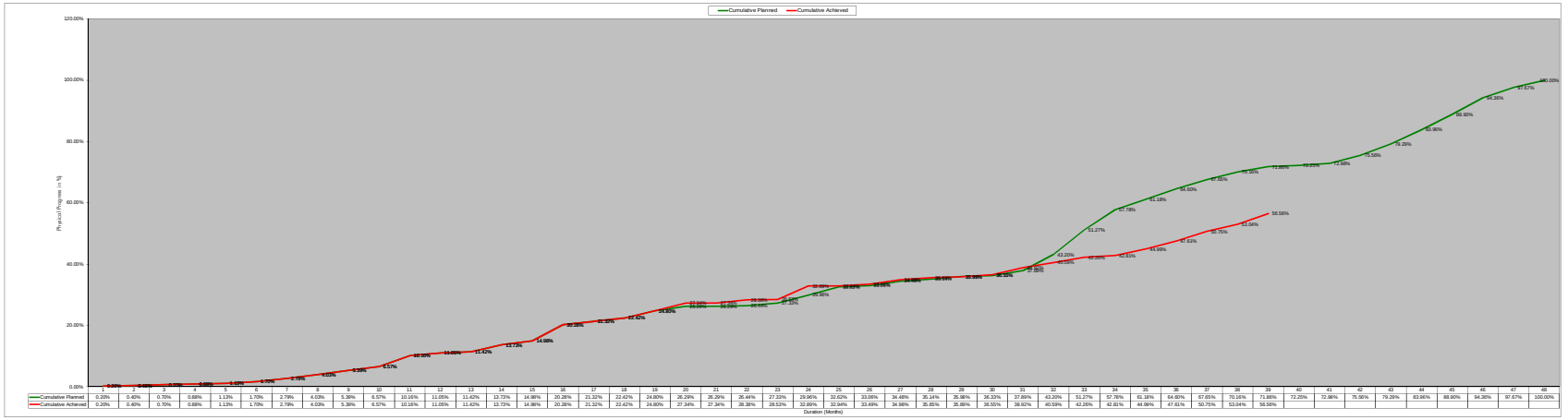
Fig. 03a- Financial Progress (S-Curve) as per revised Target



	Schedule	2018					2019												2020												2021												2022							
		Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
Revised Target vs Achieved as per Revised Target	Monthly-Planned	52.62	36.05	4.38	2.63	12.49	8.33	15.92	18.12	19.87	17.24	38.09	46.13	33.01	33.75	18.26	22.22	15.19	16.07	34.77	32.81	0.00	13.23	24.05	38.42	38.86	22.99	20.75	15.16	12.27	27.20	39.36	42.24	42.81	43.21	44.15	48.97	44.56	42.19	27.60	19.50	18.95	32.72	43.45	51.66	68.86	77.56	48.36	32.94
	MonthlyAchieved	55.65	39.48	4.17	2.15	15.41	5.26	2.27	12.50	12.31	10.03	29.92	43.15	36.50	16.96	22.89	15.89	11.36	13.81	34.85	38.07	0.00	10.09	23.76	24.53	23.37	22.62	20.34	12.52	7.60	9.73	32.65	26.06	20.88	12.41	24.87	32.26	36.70	29.31	40.79									
	Cumulative Planned	52.62	88.67	93.05	95.68	108.17	116.49	132.42	150.54	170.41	187.65	225.74	271.87	304.88	338.63	356.90	379.11	394.31	410.38	445.15	477.96	477.96	491.20	515.24	553.67	592.53	615.52	636.27	651.43	663.71	690.91	730.26	772.50	815.31	858.52	902.67	952.64	997.20	1039.39	1066.99	1086.49	1105.44	1138.17	1181.62	1233.28	1302.14	1379.70	1428.06	1461.00
	Cumulative Achieved	55.65	95.13	99.30	101.45	116.86	122.11	124.39	136.89	149.20	159.23	189.15	232.29	268.79	285.75	308.64	324.53	335.90	349.71	384.56	422.63	422.63	432.72	456.49	481.01	504.38	527.00	547.34	559.86	567.46	577.19	609.84	635.90	656.79	669.20	694.07	726.33	763.02	792.33	833.12									
	Monthly-Planned (%)	3.6%	2.5%	0.3%	0.2%	0.9%	0.6%	1.1%	1.2%	1.4%	1.2%	2.6%	3.2%	2.3%	2.3%	1.3%	1.5%	1.0%	1.1%	2.4%	2.2%	0.0%	0.9%	1.6%	2.6%	2.7%	1.6%	1.4%	1.0%	0.8%	1.9%	2.7%	2.9%	2.9%	3.0%	3.0%	3.4%	3.1%	2.9%	1.9%	1.3%	1.3%	2.2%	3.0%	3.5%	4.7%	5.3%	3.3%	2.3%
	Monthly Achieved (%)	3.8%	2.7%	0.3%	0.1%	1.1%	0.4%	0.2%	0.9%	0.8%	0.7%	2.0%	3.0%	2.5%	1.2%	1.6%	1.1%	0.8%	0.9%	2.4%	2.6%	0.0%	0.7%	1.6%	1.7%	1.6%	1.5%	1.4%	0.9%	0.5%	0.7%	2.2%	1.8%	1.4%	0.8%	1.7%	2.2%	2.5%	2.0%	2.8%									
	Cumulative Planned (%)	3.6%	6.1%	6.4%	6.5%	7.4%	8.0%	9.1%	10.3%	11.7%	12.8%	15.5%	18.6%	20.9%	23.2%	24.4%	25.9%	27.0%	28.1%	30.5%	32.7%	32.7%	33.6%	35.3%	37.9%	40.6%	42.1%	43.6%	44.6%	45.4%	47.3%	50.0%	52.9%	55.8%	58.8%	61.8%	65.2%	68.3%	71.1%	73.0%	74.4%	75.7%	77.9%	80.9%	84.4%	89.1%	94.4%	97.7%	100.0%
	Cumulative Achieved (%)	3.8%	6.5%	6.8%	6.9%	8.0%	8.4%	8.5%	9.4%	10.2%	10.9%	12.9%	15.9%	18.4%	19.6%	21.1%	22.2%	23.0%	23.9%	26.3%	28.9%	28.9%	29.6%	31.2%	32.9%	34.5%	36.1%	37.5%	38.3%	38.8%	39.5%	41.7%	43.5%	44.95%	45.80%	47.51%	49.71%	52.23%	54.23%	57.02%									

Four Laning of Sethiyahopu - Cholopuram from Km. 65.960 to 116.440 Section of NH45C in the state of Tamilnadu under NHDP-IV on Hybrid Annuity Mode

Fig. 03b- Physical Progress (S-Curve) as per revised Target



	Schedule	2018					2019											2020												2021												2022						
		Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
Revised Target vs Achieved as per Revised Target	Monthly Planned	0.20%	0.20%	0.30%	0.18%	0.25%	0.57%	1.09%	1.24%	1.36%	1.18%	3.59%	0.89%	0.37%	2.31%	1.25%	5.30%	1.04%	1.10%	2.38%	1.49%	0.00%	0.15%	0.89%	2.63%	2.66%	0.44%	1.42%	0.66%	0.84%	0.35%	1.56%	5.31%	8.07%	6.51%	3.40%	3.42%	3.05%	2.51%	1.70%	0.39%	0.73%	2.58%	3.73%	4.67%	4.94%	5.46%	3.31%	2.33%
	MonthlyAchieved	0.20%	0.20%	0.30%	0.18%	0.25%	0.57%	1.09%	1.24%	1.36%	1.18%	3.59%	0.89%	0.37%	2.31%	1.25%	5.30%	1.04%	1.10%	2.38%	2.54%	0.00%	1.04%	0.15%	4.36%	0.04%	0.55%	1.49%	0.67%	0.24%	0.66%	2.38%	1.66%	1.68%	0.55%	2.18%	2.62%	3.14%	2.29%	3.52%									
	Cumulative Planned	0.20%	0.40%	0.70%	0.88%	1.13%	1.70%	2.79%	4.03%	5.39%	6.57%	10.16%	11.05%	11.42%	13.73%	14.98%	20.28%	21.32%	22.42%	24.80%	26.29%	26.29%	26.44%	27.33%	29.96%	32.62%	33.06%	34.48%	35.14%	35.98%	36.33%	37.89%	43.20%	51.27%	57.78%	61.18%	64.60%	67.65%	70.16%	71.86%	72.25%	72.98%	75.56%	79.29%	83.96%	88.90%	94.36%	97.67%	100.00%
	Cumulative Achieved	0.20%	0.40%	0.70%	0.88%	1.13%	1.70%	2.79%	4.03%	5.39%	6.57%	10.16%	11.05%	11.42%	13.73%	14.98%	20.28%	21.32%	22.42%	24.80%	27.34%	27.34%	28.38%	28.53%	32.89%	32.94%	33.49%	34.98%	35.65%	35.89%	36.55%	38.92%	40.59%	42.26%	42.81%	44.99%	47.61%	50.75%	53.04%	56.56%									

6. Quality Control and Quality Assurance

6.1. List of Lab Equipment's

A site laboratory has been set up with all equipment required for testing soil, GSB, WMM, Bitumen, aggregate and concrete. Following tables represents the list of QA/QC equipment's available at Annaikarai & Meensurity Lab.

Table 6.1 - 1 QA/QC Lab Equipment at Annaikarai Lab

Sl. NO	EQUIPEMENT LIST'S	QUANTITY
1	compression testing machine 2000 kN	1
2	cement mortar vibrating machine	1
3	AIV Apparatus	1
4	electronic weighing balance (50 kg)	1
5	electronic weighing balance (600 gm)	1
6	Hot Air Oven(250◦ c)	1
7	Hot plate	1
8	Rain Gauge	1
9	Sieve: as per IS 460 -1962 200 dia Brass frame	
10	4.75 mm	1
11	1.18 mm	1
12	600 mic	1
13	300 mic	1
14	90 mic	1
15	75 mic	1
16	Pan with Lid	1
17	Sieve: as per IS 460 -1962 200 dia GI frame	
18	40 mm	1
19	20 mm	1
20	12.5 mm	1
21	10 mm	1
22	4.75 mm	1
23	2.36 mm	1
24	Pan with Lid	1

25	Thickness Gauge	1
26	Glass Rain measuring jar (200CM^2)	2
27	GI Tray (18 x24 x50)	5
28	Enamel Tray (medium)	4
29	Enamel Tray (small)	6
30	spactula wooden handle	8
31	GI Tray ()	1
32	Iron tray	1
33	slump cone apparatus with tamping rod	2

Table 6.1 - 2 QA/QC Lab Equipment at Meensurity Lab

SI. NO	EQUIPEMENT LIST'S	QUANTITY
1	Test Sieves Set 450mm internal diameter as per IS complete with lid & pan of hole sizes	
a	100mm	2 Nos
b	75mm	2 Nos
c	90mm	2 Nos
d	63mm	2 Nos
e	53mm	2 Nos
f	50mm	2 Nos
g	45mm	2 Nos
h	40mm	2 Nos
i	37.5mm	2 Nos
j	31.5mm	2 Nos
k	26.5mm	2 Nos
l	25mm	2 Nos
m	22.4mm	2 Nos
n	20.0mm	2 Nos
o	19.0mm	2 Nos
p	18mm	2 Nos
q	16mm	2 Nos
r	14mm	2 Nos
s	13.2mm	2 Nos

t	12.5mm	2 Nos
v	11.2mm	2 Nos
u	10mm	2 Nos
w	9.5mm	2 Nos
x	6.3mm	2 Nos
y	5.6mm	2 Nos
z	4.75mm	2 Nos
2	Test Sieves Set 200mm internal diameter (Brass frame & steel or brass wire cloth mesh) as per IS complete with lid & pan of sieve	
a	37.5mm	2 Nos
b	26.5mm	2 Nos
c	22.4mm	2 Nos
d	19mm	2 Nos
e	16mm	2 Nos
f	14mm	2 Nos
g	13.2mm	2 Nos
h	12.5	2 Nos
i	11.2mm	2 Nos
j	10mm	2 Nos
k	9.5mm	2 Nos
l	4.75mm	2 Nos
m	2.8mm	2 Nos
n	2.36mm	2 Nos
o	2.0mm	2 Nos
Sl. NO	**EQUIPEMENT LIST'S**	**QUANTITY**
p	1.80mm	2 Nos
q	1.7mm	2 Nos
r	1.4mm	2 Nos
s	1.18mm	2 Nos
t	1.0mm	3 Nos
v	0.600mm	2 Nos
u	0.425mm	2 Nos

w	0.355mm	2 Nos
x	0.300mm	2 Nos
y	0.180	2 Nos
z	0.090mm	2 Nos
aa	0.075mm	6 Nos
3	Measuring cylinder - Borosilicate glass - 100ML	40 Nos
4	Glass Thermometer 00c to 3000c	10 Nos
5	Flash filtering borosil glass - 2000ML	1 No
6	Flash filtering borosil glass - 5000ML	1 No
7	Round hot Plate	2 Nos
8	Measuring cylinder - Borosilicate glass - 1000ML	4 Nos
9	Measuring cylinder - Borosilicate glass - 250ML	4 Nos
10	Measuring cylinder- Borosilicate glass - 500ML	4 Nos
11	Beakers - glass borosil - low from cap 600ML	4 Nos
12	Compaction pedestal - 4"	4 Nos
13	Extractor plate - 6" dia for marshal test	1 No
14	Rammer marshal - 4"	4 Nos
15	Thermometer Infra red - MTX - 2	2 Nos
16	LE - Chatlier mould one set of six	2 Nos
17	Cone penetrometer	1 No
18	Los angeles abrasion testing machine	1 No
19	Marshal Mould - 4" dia	51 nos
20	G.I Tray - 1500*1500*100MM	4 Nos
21	Compaction pedestal - 6"	1 No
22	Marshal stability apparatus	1 No
23	Measuring cylinder- Plastic - 50ML	4 Nos
24	Measuring cylinder- Plastic - 250ML	2 Nos
25	Measuring cylinder- Plastic - 500ML	2 Nos
26	Measuring cylinder- Plastic - 1000ML	2 Nos
27	Vibrating machine with digital timer	1 No
28	Hot Air Oven - Thermostatic - NoN Digital - 45*45*45 CM	1 No
29	Hot Air Oven - Thermostatic - NoN Digital - 90*60*60 CM	1 No

30	Penetration cup - 55*70 MM	2 Nos
31	Penetration cup - 55*35MM	6 Nos
32	Standard Penetrometer - Automatic with digital timer	1 No
33	proctor compaction mould 100mm dia with 2.69kg Rammer mid steel	4 Nos
34	proctor compaction mould 150mm dia with 4.89kg Rammer mid steel	6 Nos
35	proving ring compression type 10kn	1 Nos
SI. NO	EQUIPEMENT LIST'S	QUANTITY
36	proving ring compression type 2.5kn	1 Nos
37	proving ring compression type 25kn	1 Nos
38	proving ring compression type 50kn	1 Nos
39	pycnometter bottle	4 Nos
40	Rapid moisture meter-0-25%	4 Nos
41	Riffle sample divider -G.I-20mm , no of slot ;16	1 nos
42	Riffle sample divider -G.I-40mm , no of slot ;12	1 Nos
43	Pipette borosilicate glass - 10 ml	4 Nos
44	Sant equivalent value test apparaus with accessories	1 Nos
45	fileld density test app - sand replacement method small	2 Set
46	shrinkage limit set W/O mercury	1 Nos
47	Mercury 250 Gm	1 Nos
48	Buoyancy balance	1 Nos
49	Spatula 8"	10 Nos
50	Spatula 4"	10 Nos
51	Standard sand - grade III - Bag of 25 kg	2 Nos
52	Standard sand - grade I - Bag of 25 kg	2 Bag
53	Standard sand - grade II - Bag of 25 kg	2 Bag
54	stanard penetrometer - automatic with digital timer	1 Nos
55	Beaking head assembly - 6'	1 Nos
56	Bulk density cylinderical metal measure - 15 LTR	1 Nos
57	Bulk density cylinderical metal measure - 5 LTR	1 Nos
58	Bulk density cylinderical metal measure - 30 LTR	1 Nos
59	Calcium carbide - 500 GM for rapid moisture meter	10 Nos

60	Liquid limits device - hand operated	1 Nos
61	CBR mould mild steel 150mm dia eith coller and base plate	60 Nos
62	Perforrated plate - for CBR test AS per 1377	57 Nos
63	Spacer disc - for CBR test	4 nos
64	surcharge weight 2.5kg annular for cbr test	120 nos
65	cbr load frame electrical single speed	1 nos
66	chiesel 25mm wide *300mm long	20 nos
67	compression testing machine 2000kn digital manual pace	1 nos
68	cube moulds 7.06cm isi marked for cement	12
69	Concrete mixer - Tilting drum type	1 No
70	Constant temperature waterbath for marshal test with digital	2 Nos
71	Core drilling machine with disel engine	1 No
72	Electronic weighing balance - 10KG	1 No
73	Cube moulds - 10CM	18 Nos
74	Cube moulds - 5CM	12 Nos
75	Electronic weighing balance - 600Gms	2 Nos
76	Dial gauge 0.01*30mm	4 Nos
77	Electronic platform balance - 100KG	1 Nos
78	Electronic weighing balance - 30KG	2 Nos
79	Electronic weighing balance - 50KG	2 Nos
80	Electronic weighing balance - 5KG	1 No
81	Stop watch - digital	4 Nos
SI. NO	EQUIPEMENT LIST'S	QUANTITY
82	Direct shear apparatus	1 No
83	Bottle wash plastic - 1000ML	4 Nos
84	Length gauge	1 No
85	Tray - G.I 300*300MM (12"*12")	6 Nos
86	Enamel tray -300*250*40 mm (10"*12")	9 Nos
87	Tray G.I -300*250*40 mm (10"*12")	9 Nos
88	Enamel tray -450*600*40 mm (18"*12")	12 Nos
89	Field density test app -sand replacement method medium	2 Set
90	Field density test app -sand replacement method Large	2 Set

91	Filter paper for marshal test 100mm dia	10 PKT
92	Filter paper for CBR test 15cm dia PKT of 100 circles	10 PKT
93	Flakiness gauge - M.S .Chrome / powder coated	1 Nos
94	Pensky marten flash piot apparatus	1 Nos
95	Flexural strength testing machine curve	1 Nos
96	French curve	2 Nos
97	Slump test appratus with tamping rod 16mm dia *600mm long	9 Nos
98	Thermometer dial 100mm dia * 300mm long 00 - 3000c	10 Nos
99	Tripod stand for CBR test	4 Nos
100	Gauging trowel 6" (150mm)	4 Nos
101	U tube glass viscometer	1 Nos
102	Saybolt viscometer with energy regulator	1 Nos
103	Vacuum pump -Singal Stage	1 Nos
104	Vibrating table -60*60 CM	1 Nos
105	Needle final setting time for vicat needle appratus	1 Nos
106	Needle Intial setting time for vicat needle appratus	1 Nos
107	Vicat Needle apparatus	2 Nos
108	Hammer with Handle - 1000 GM	4 Nos
109	Aggregate Impact testing machine	1 Nos
110	Beakers - glass borosil - low form cap ; 600ML	2 Nos
111	Beam mould -15*15*70 CM - Mild steel	17 Nos

6.2. Quality Control Test Summary

GSB material, soil samples from borrow areas, aggregates, cement and bitumen are being tested regularly. Trial mix design for concrete with different admixtures is also in progress.

The detailed list of quality control test conducted up to the month of October - 2021 are tabulated below:-

Four Laning of Sethiyahopu - Cholopuram From km 65.960 to km 116.440 Section of NH-45C in the State of TamilNadu Under NHDP Phase-IV on Hybrid Annuity Mode

Every Milestone is Our Value

Monthly Progress Report : Summary of Quality Control Report : Month of October -2021

S. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month				Tests conducted during reporting month October 2021						Test conducted upto this month			
								Tested		Passed		Failed					
				No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos. of test witnessed by IE	Concessionarie	IE	Concessionarie	IE	Concessionarie	IE	No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos. of test witnessed by IE
1.0 Tests on OGL																	
1.1	*Grain size analysis*	IS:2720 (Part4)	1 test / 250 meters	345	345	0	97	0	0	0	0	0	0	345	345	0	97
1.2	*Atterberg Limits*	IS:2720 (Part5)	1 test / 250 meters	345	345	0	97	0	0	0	0	0	0	345	345	0	97
1.3	*Proctor*	IS:2720 (Part8)	1 test / 250 meters	345	345	0	97	0	0	0	0	0	0	345	345	0	97
1.4	*Free Swell index*	IS:2720 (Part40)	1 test / 250 meters	345	338	7	97	0	0	0	0	0	0	345	338	7	97
1.5	*California bearing ratio*	IS:2720 (Part16)	As required	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0 Borrow Area for EMB/Subgrade (MoRT&H 305)																	
2.1	*Grain size analysis*	IS:2720 (Part4)	1 test /1500 m^3	1284	1284	0	709	40	20	40	20	0	0	1324	1324	0	729
2.2	*Atterberg Limits*	IS:2720 (Part5)	1 test /1500 m^3	1284	1284	0	709	40	20	40	20	0	0	1324	1324	0	729
2.3	*Proctor*	IS:2720 (Part8)	1 test /1500 m^3	1284	1284	0	709	40	20	40	20	0	0	1324	1324	0	729
2.4	*Free Swell index*	IS:2720 (Part40)	1 test /1500 m^3	1284	1284	0	709	40	20	40	20	0	0	1324	1324	0	729
2.5	*California bearing ratio*	IS:2720 (Part16)	1 test / 3000 m^3	350	342	8	178	20	10	20	10	0	0	370	362	8	188
2.6	*Direct shear Test*	IS:2720 (Part13)	1 test /3000 m^3	223	220	3	114	0	0	0	0	0	0	223	220	3	114
3.0 Cutting portion & Existing for EMB/SG site samplimg (MoRT&H 305)																	
3.1	*Grain size analysis*	IS:2720 (Part4)	1 test /1500 m^3	72	70	2	32	0	0	0	0	0	0	72	70	2	32
3.2	*Atterberg Limits*	IS:2720 (Part5)	1 test /1500 m^3	72	70	2	32	0	0	0	0	0	0	72	70	2	32
3.3	*Proctor*	IS:2720 (Part8)	1 test /1500 m^3	72	70	2	32	0	0	0	0	0	0	72	70	2	32
3.4	*Free Swell index*	IS:2720 (Part40)	1 test /1500 m^3	72	70	2	32	0	0	0	0	0	0	72	70	2	32
3.5	*California bearing ratio*	IS:2720 (Part16)	1 test / 3000 m^3	41	39	2	23	0	0	0	0	0	0	41	39	2	23
3.6	*Direct shear Test*	IS:2720 (Part13)	1 test /3000 m^3	1	1	0	1	0	0	0	0	0	0	1	1	0	1
4.0 Service Road																	
2.1	*Grain size analysis*	IS:2720 (Part4)	1 test /1500 m^3	27	27	0	20	0	0	0	0	0	0	27	27	0	20
2.2	*Atterberg Limits*	IS:2720 (Part5)	1 test /1500 m^3	27	27	0	20	0	0	0	0	0	0	27	27	0	20
2.3	*Proctor*	IS:2720 (Part8)	1 test /1500 m^3	27	27	0	20	0	0	0	0	0	0	27	27	0	20
2.4	*Free Swell index*	IS:2720 (Part40)	1 test /1500 m^3	27	27	0	20	0	0	0	0	0	0	27	27	0	20
2.5	*California bearing ratio*	IS:2720 (Part16)	1 test / 3000 m^3	8	8	0	8	0	0	0	0	0	0	8	8	0	8
2.6	*Direct shear Test*	IS:2720 (Part13)	1 test /3000 m^3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0 FLYASH For Embankment																	
5.1	*Liquid Limit & Plastic limit*	*TABLE-1*	1 test /1500 m^3	417	417	0	241	0	0	0	0	0	0	417	417	0	241
5.2	*Maximum Dry Density*	*Clause 5.2*	1 test /1500 m^3	417	417	0	253	0	0	0	0	0	0	417	417	0	253
5.3	*Grain size analysis*	IS:2720 (Part4)	1 test /3000 m^3	277	277	0	165	0	0	0	0	0	0	277	277	0	165
5.4	*Direct shear Test*	IS:2720 (Part13)	1 test /3000 m^3	187	187	0	107	0	0	0	0	0	0	187	187	0	107

S. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month				Tests conducted during reporting month October 2021						Test conducted upto this month			
								Tested		Passed		Failed					
				No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos. of test witnessed by IE	Concessionarie	IE	Concessionarie	IE	Concessionarie	IE	No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos. of test witnessed by IE
6.0 Field Density Test MORT&H 305																	
6.1	*Field density (OGL)*	IS:2720 (Part28)	1 test /3000 sqm	3999	3879	120	998	0	0	0	0	0	0	3999	3879	120	998
6.2	*EMB field density*	IS:2720 (Part28)	1 test /3000 sqm	72826	70486	2340	14994	2347	316	2269	298	78	18	75173	72755	2418	15310
6.3	*SG field density*	IS:2720 (Part28)	1 test / 2000 sqm	13358	13055	303	5597	882	181	849	178	33	3	14240	13904	336	5778
6.4	*Shoulder field density*	IS:2720 (Part28)	1 test / 2000 sqm	373	370	3	40	0	0	0	0	0	0	373	370	3	40
6.5	*Ground improvement (Soil)*	IS:2720 (Part28)	1 test / 2000 sqm	3035	2958	77	421	0	0	0	0	0	0	3035	2958	77	421
6.6	*Ground improvement &Midean filling(Flyash)*	IS:2720 (Part28)	1 test / 2000 sqm	24465	23779	686	3658	0	0	0	0	0	0	24465	23779	686	3658
7.0 Filter Media & Back filling MoRT&H 2500																	
7.1	*Gradation*		As required	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.2	*Backfilling field density*		1 test /1000 m^3	840	840	0	48	0	0	0	0	0	0	840	840	0	48
7.3	*RE Wall field density*		As required	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0 Safe Bearing capacity of soil																	
8.1	*Free Swell index*	IS:2720 (Part40)	As required	112	99	13	96	0	0	0	0	0	0	112	99	13	96
8.2	*Grain size analysis*	IS:2720 (Part4)	As required	112	105	7	96	0	0	0	0	0	0	112	105	7	96
8.3	*Proctor*	IS:2720 (Part8)	As required	112	105	7	96	0	0	0	0	0	0	112	105	7	96
8.4	*Direct shear Test*	IS:2720 (Part13)	As required	112	93	19	96	0	0	0	0	0	0	112	93	19	96
8.5	*Bearing Capacity / Plate Load Test*	IS:6403 / IS 1888	As required	110	56	54	66	0	0	0	0	0	0	110	56	54	66
9.0 CTSB Mix Design/Site Frequency MoRT&H 403																	
9.1	*Gradation*	Table 400-4	1 test/400m^3	762	762	0	316	45	10	45	10	0	0	807	807	0	326
9.2	*Atterberg Limits*	IS:2720 (Part5)	1 test/400m^3	641	641	0	239	45	10	45	10	0	0	686	686	0	249
9.3	*Proctor*	IS:2720 (Part8)	As required	30	30	0	28	2	2	2	2	0	0	32	32	0	30
9.4	*CBR Test or unconfined compressive strength test*	IS:2720 (Part16)	As required	1	1	0	1	0	0	0	0	0	0	1	1	0	1
9.5	*Quality of cement*		Minimum 1 test/5 tons	2	2	0	2	0	0	0	0	0	0	2	2	0	2
9.6	*Aggregate Impact value*	IS:2386 Part-4	As required	28	28	0	17	0	0	0	0	0	0	28	28	0	17
9.7	*Field Density*	IS:2720 (Part28)	1 set of 2 Test per 500Sqm	4482	4482	0	3112	245	51	245	51	0	0	4727	4727	0	3163
9.8	*Specific gravity& Water absorption*	IS:2386 (Part2)	As required	2	2	0	2	0	0	0	0	0	0	2	2	0	2
9.9	*Cubes*	IRC SP 89 (2010)	1 set 400MT	1668	1668	0	609	81	20	81	20	0	0	1749	1749	0	629
10.0 Granular Bedding Material (For Structures-Ground Improvement) - Mix Design																	
10.1	*Gradation*	Table 400-1	1 test/400m^3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.2	*Atterberg Limits*	IS:2720 (Part5)	1 test/400 m^3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.3	*Proctor*	IS:2720 (Part8)	As required	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.4	*CBR Test*	IS:2720 (Part16)	As required	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.5	*Aggregate Impact value*	IS:2386 Part-4	As required	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.6	*Field Density*	IS:2720 (Part28)	1 Test per 1000 Sq.m	0	0	0	0	0	0	0	0	0	0	0	0	0	0

S. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month				Tests conducted during reporting month October 2021						Test conducted upto this month			
								Tested		Passed		Failed					
				No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos. of test witnessed by IE	Concessionarie	IE	Concessionarie	IE	Concessionarie	IE	No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos. of test witnessed by IE
11.0 Granular Bedding Material (For Structures -Ground Improvement) - Site Frequency																	
11.1	*Gradation*	Table 400-1	1 test/400m^3	3	3	0	3	0	0	0	0	0	0	3	3	0	3
11.2	*Atterberg Limits*	IS:2720 (Part5)	1 test/400 m^3	3	3	0	3	0	0	0	0	0	0	3	3	0	3
11.3	*Proctor*	IS:2720 (Part8)	As required	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.4	*CBR Test*	IS:2720 (Part16)	As required	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.5	*Aggregate Impact value*	IS:2386 Part-4	As required	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.6	*Field Density*	IS:2720 (Part28)	1 Test per 1000Sq.m	90	90	0	21	0	0	0	0	0	0	90	90	0	21
12.0 WMM Mix Design																	
12.1	*Gradation*	Table 400-3	1 test/200m^3	53	53	0	53	0	0	0	0	0	0	53	53	0	53
12.2	*Aggregate Impact Value*	IS:2386 Part-4	1 test/ 1000 m^3	5	5	0	5	0	0	0	0	0	0	5	5	0	5
12.3	*Flakiness & Elagation index*	IS:2386 Part1	1 test/ 500 m^3	4	4	0	4	0	0	0	0	0	0	4	4	0	4
12.4	*Atterberg Limits*	IS:2720 (Part5)	1 test/200m^3	4	4	0	4	0	0	0	0	0	0	4	4	0	4
12.5	*Water absorption& Sp.Gravity*	IS:2386 Part2	As required	8	8	0	8	0	0	0	0	0	0	8	8	0	8
12.6	*Proctor*	IS:2720 (Part8)	As required	4	4	0	4	0	0	0	0	0	0	4	4	0	4
12.7	*CBR*	IS:2720 (Part16)	As required	2	2	0	2	0	0	0	0	0	0	2	2	0	2
13.0 WMM Site Frequency MoRT&H 406																	
13.1	*Gradation*	Table 400-3	1 test/200m^3	531	531	0	208	31	7	31	7	0	0	562	562	0	215
13.2	*Aggregate Impact Value*	IS:2386 Part-4	1 test/ 1000 m^3	288	288	0	115	17	5	17	5	0	0	305	305	0	120
13.3	*Flakiness & Elagation index*	IS:2386 Part1	1 test/ 500 m^3	298	298	0	101	18	5	18	5	0	0	316	316	0	106
13.4	*Atterberg Limits*	IS:2720 (Part5)	1 test/200m^3	494	494	0	181	31	7	31	7	0	0	525	525	0	188
13.5	*Water absorption*	IS:2386 Part2	As required	4	4	0	4	0	0	0	0	0	0	4	4	0	4
13.6	*Proctor*	IS:2720 (Part8)	As required	12	12	0	10	1	0	1	0	0	0	13	13	0	10
13.7	*CBR*	IS:2720 (Part16)	As required	1	1	0	1	0	0	0	0	0	0	1	1	0	1
13.8	*Field Density*	IS:2720 (Part28)	1 set Test per 1000 Sq.m / 3 pits	1084	1084	0	760	57	16	57	16	0	0	1141	1141	0	776
14.0 Dense Bituminous Macadam (Grade - II)																	
14.1	*Bitumen Extraction & Gradation*		1 Test/400MT	320	320	0	132	11	5	11	5	0	0	331	331	0	137
14.2	*Combined Gradation*	Table 500 - 18, Grad.II	1 Test/400MT	338	338	0	131	9	3	9	3	0	0	347	347	0	134
14.3	*Individual Gradation Sets*	Table 500 - 18, Grad.II	1 Test/400MT	338	338	0	131	9	3	9	3	0	0	347	347	0	134
14.4	*Flakiness & Elagation index*	MORTH Table 900 - 4	1 test/ 350 m^3	218	218	0	87	7	2	7	2	0	0	225	225	0	89
14.5	*Aggregate Impact Value*	MORTH Table 900 - 4	1 test/350m^3	260	260	0	107	7	2	7	2	0	0	267	267	0	109
14.6	*Marshall Density*	ASTM D 2726	1 Set/400MT	357	336	0	151	11	5	11	5	0	0	368	347	0	156
14.7	*GMM*	MORTH Table 900 - 4	1 Test/400MT	326	305	0	135	11	5	11	5	0	0	337	316	0	140
14.8	*DBM Core Cutting*	MORTH Table 900 - 4	1 Test/700M^2	936	849	0	418	44	15	44	15	0	0	980	893	0	433
Bitumen test																	
14.9	*Softening Point*	IS:1205 - 1978	1 Test/ 1 lot	150	150	0	64	12	5	12	5	0	0	162	162	0	69
14.10	*Penetration*	IS:1205 - 1978	1 Test/ 1 lot	150	150	0	64	12	5	12	5	0	0	162	162	0	69
14.11	*viscosity*	IS:1205 - 1978	1 Test/ 1 lot	150	150	0	64	12	5	12	5	0	0	162	162	0	69

S. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month				Tests conducted during reporting month October 2021						Test conducted upto this month			
								Tested		Passed		Failed					
				No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos. of test witnessed by IE	Concessionarie	IE	Concessionarie	IE	Concessionarie	IE	No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos. of test witnessed by IE
15.0 Bituminous Concrete (Grade - II) PMB MCW																	
15.1	*Bitumen Extraction & Gradation*	IRC SP 11	1 Test/400MT	88	88	0	52	58	15	58	15	0	0	146	146	0	67
15.2	*Combined Gradation*	Table 500 - 17, Grad.II	1 Test/400MT	139	139	0	98	49	15	49	15	0	0	188	188	0	113
15.3	*Individual Gradation Sets*	Table 500 - 17, Grad.II	1 Test/400MT	139	139	0	98	49	15	49	15	0	0	188	188	0	113
15.4	*Flakiness & Elagation index*	MORTH Table 900 - 4	1 test/ 350 m^3	57	57	0	33	28	5	28	5	0	0	85	85	0	38
15.5	*Aggregate Impact Value*	MORTH Table 900 - 4	1 test/350m^3	59	59	0	35	28	5	28	5	0	0	87	87	0	40
15.6	*Marshall Density*	ASTM D 2726	1 Set/400MT	112	112	0	69	58	15	58	15	0	0	170	170	0	84
15.7	*GMM*	MORTH Table 900 - 4	1 Test/400MT	112	112	0	69	58	15	58	15	0	0	170	170	0	84
15.8	*BC Core Cutting*	MORTH Table 900 - 4	1 Test/700M^2	377	377	0	189	277	50	277	50	0	0	654	654	0	239
16.0 Bituminous Concrete (Grade - II) VG-40 S/R																	
16.1	*Bitumen Extraction & Gradation*	IRC SP 11	1 Test/400MT	12	12	0	6	9	3	9	3	0	0	21	21	0	9
16.2	*Combined Gradation*	Table 500 - 17, Grad.II	1 Test/400MT	12	12	0	6	9	3	9	3	0	0	21	21	0	9
16.3	*Individual Gradation Sets*	Table 500 - 17, Grad.II	1 Test/400MT	12	12	0	6	9	3	9	3	0	0	21	21	0	9
16.4	*Flakiness & Elagation index*	MORTH Table 900 - 4	1 test/ 350 m^3	7	7	0	3	6	2	6	2	0	0	13	13	0	5
16.5	*Aggregate Impact Value*	MORTH Table 900 - 4	1 test/350m^3	7	7	0	3	6	2	6	2	0	0	13	13	0	5
16.6	*Marshall Density*	ASTM D 2726	1 Set/400MT	12	12	0	6	9	3	9	3	0	0	21	21	0	9
16.7	*GMM*	MORTH Table 900 - 4	1 Test/400MT	12	12	0	6	9	3	9	3	0	0	21	21	0	9
16.8	*BC Core Cutting*	MORTH Table 900 - 4	1 Test/700M^2	69	69	0	30	27	5	27	5	0	0	96	96	0	35
Bitumen test (PMB)																	
16.9	*Softening Point*	IS:1205 - 1978	1 Test/ 1 lot	73	73	0	34	39	15	39	15	0	0	112	112	0	49
16.10	*Elastic recovery*	IS:15462 - 2019	1 Test/ 1 lot	73	73	0	34	39	15	39	15	0	0	112	112	0	49
17.0 Prime Coat																	
17.0	*Rate of Spread of Binder*		Three tests per day	693	693	0	336	48	20	48	20	0	0	741	741	0	356
17.1 Emulsion Test (SS-1)																	
17.1	*Say bolt Viscometer*	IS:8887-2004	1 Test/ 1 lot	2	2	0	1	0	0	0	0	0	0	2	2	0	1
17.2 Tack Coat																	
17.2	*Rate of Spread of Binder*		Three tests per day	564	564	0	243	214	50	214	50	0	0	778	778	0	293
17.3 Emulsion Test (RS-1)																	
17.3	*Say bolt Viscometer*	IS:8887-2004	1 Test/ 1 lot	2	2	0	1	1	1	1	1	0	0	3	3	0	2

S. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month				Tests conducted during reporting month October 2021						Test conducted upto this month			
								Tested		Passed		Failed					
				No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos. of test witnessed by IE	Concessionarie	IE	Concessionarie	IE	Concessionarie	IE	No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos. of test witnessed by IE
18.0 Fine Aggregate MoRT&H 1008																	
18.1	*Gradation/ Sieve analysis*	IS:2386 (Part1)	1 test per day	1666	1666	0	585	58	10	58	10	0	0	1724	1724	0	595
18.2	*Specific gravity& Water absorption*	IS:2386 (Part3)	As required	16	16	0	15	0	0	0	0	0	0	16	16	0	15
18.3	*Fineness Modulus*	MORT&H Sec. 1008&383	1 test per day	1524	1524	0	513	58	10	58	10	0	0	1582	1582	0	523
18.4	*Alkali aggregate reactivity test*	IS:2386 (Part-7)IS : 456	1 test per source	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.5	*Deleterious material/silt*	IS:2386 (Part2)	1 test per source	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0 Coarse Aggregate MoRT&H 1007																	
19.1	*Gradation*	IS:2386 (Part1)	1 test per day	1564	1564	0	572	58	10	58	10	0	0	1622	1622	0	582
19.2	*Specific gravity& Water absorption*	IS:2386 (Part3)	As required	18	18	0	15	0	0	0	0	0	0	18	18	0	15
19.3	*Aggregate Impact Value*	IS:2386 (Part4)	1 test / each source & monthly	427	427	0	196	11	4	11	4	0	0	438	438	0	200
19.4	*Flakiness index*	IS:2386 (Part1)	1 test / each source & monthly	397	397	0	183	11	4	11	4	0	0	408	408	0	187
19.5	*Soundness*	IS:2386 (Part5)	As required	2	2	0	2	0	0	0	0	0	0	2	2	0	2
19.6	*Alkali aggregate reactivity test*	IS:2386 (Part-7)IS : 456	1 test per source	2	2	0	2	0	0	0	0	0	0	2	2	0	2
19.7	*Deleterious constituents*	IS:2386 (Part2)	1 test per source	2	2	0	2	0	0	0	0	0	0	2	2	0	2
19.8	*Petrograhic Examination*	IS:2386 (Part8)	1 test per source	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0 Cement MoRT&H 1006																	
20.1	*Chemical test / Physical test*	IS:4031,4032	1 test per source	9	14	0	9	0	0	0	0	0	0	9	14	0	9
20.2	*Fineness*	IS:4031 (Part1)	Every batch	494	494	0	232	8	4	8	4	0	0	502	502	0	236
20.3	*Normal Consistency*	IS:4031 (Part4)	Every batch	466	466	0	232	8	4	8	4	0	0	474	474	0	236
20.4	*Initial, Final setting time*	IS:4031 (Part5)	Every batch	466	466	0	232	8	4	8	4	0	0	474	474	0	236
20.5	*Soundness of Cement*	IS:4031 (Part3)	Every batch	410	410	0	198	8	4	8	4	0	0	418	418	0	202
20.6	*Compressive Strength -set*	IS:4031 (Part6)															
	3 days		1 test per Lot	420	420	0	186	8	3	8	3	0	0	428	428	0	189
	7 days		1 test per Lot	411	411	0	183	8	3	8	3	0	0	419	419	0	186
	28 days		1 test per Lot	406	406	0	178	9	4	9	4	0	0	415	415	0	182
21.0. (A) Concrete Cube Strength																	
	M15 PCC																
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	608	608	0	217	33	13	33	13	0	0	641	641	0	230
	28Days Compressive Strength			1032	1032	0	430	41	15	41	15	0	0	1073	1073	0	445
	M20 KERB																
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	241	241	0	69	10	3	40	3	0	0	251	281	0	72
	28Days Compressive Strength			668	638	0	163	34	12	34	12	0	0	702	672	0	175
	M20 RCC																
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	367	367	0	105	8	3	8	3	0	0	375	375	0	108
	28Days Compressive Strength			716	716	0	241	15	3	15	3	0	0	731	731	0	244

S. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month				Tests conducted during reporting month October 2021						Test conducted upto this month			
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				No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos. of test witnessed by IE	Concessionarie	IE	Concessionarie	IE	Concessionarie	IE	No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos. of test witnessed by IE
	M20 PCC																
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	6	6	0	3	0	0	0	0	0	0	6	6	0	3
	28Days Compressive Strength			6	6	0	6	2	0	2	0	0	0	8	8	0	6
	M25 RCC																
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	23	23	0	7	3	1	3	1	0	0	26	26	0	8
	28Days Compressive Strength			41	41	0	27	6	2	6	2	0	0	47	47	0	29
	M30 RCC																
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	751	751	0	258	30	9	30	9	0	0	781	781	0	267
	28Days Compressive Strength			1211	1211	0	471	55	15	55	15	0	0	1266	1266	0	486
	M30 RCC PUMPABLE																
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	99	99	0	46	14	2	14	2	0	0	113	113	0	48
	28Days Compressive Strength			239	239	0	114	38	2	38	2	0	0	277	277	0	116
	M35 RCC																
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	377	377	0	185	10	2	10	2	0	0	387	387	0	187
	28Days Compressive Strength			766	766	0	391	9	2	9	2	0	0	775	775	0	393
	M35 PILING																
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	980	980	0	513	1	1	1	1	0	0	981	981	0	514
	28Days Compressive Strength			2894	2894	0	1549	15	6	15	6	0	0	2909	2909	0	1555
	M35 RCC PUMPABLE																
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	927	927	0	386	19	3	19	3	0	0	946	946	0	389
	28Days Compressive Strength			2811	2811	0	1168	63	20	63	20	0	0	2874	2874	0	1188
	M35 RE BLOCK																
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	792	792	0	228	0	0	0	0	0	0	792	792	0	228
	28Days Compressive Strength			2270	2270	0	728	0	0	0	0	0	0	2270	2270	0	728
	M40 PUMP & M40 RCC																
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	743	743	0	280	60	20	60	20	0	0	803	803	0	300
	28Days Compressive Strength			1685	1685	0	614	65	24	65	24	0	0	1750	1750	0	638
	M40 PQC																
	7 Days Flexural Strength	As Per IS:516	As Per IS:516	12	12	0	12	0	0	0	0	0	0	12	12	0	12
	28 Days Flexural Strength			30	30	0	30	0	0	0	0	0	0	30	30	0	30
	7Days Compressive Strength	As Per IS:516	As Per IS:516	12	12	0	12	0	0	0	0	0	0	12	12	0	12
	28Days Compressive Strength			30	30	0	30	0	0	0	0	0	0	30	30	0	30
	M40 PILING																
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	306	306	0	92	0	0	0	0	0	0	306	306	0	92
	28Days Compressive Strength			997	997	0	271	0	0	0	0	0	0	997	997	0	271
	M45 PUMP																
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	369	369	0	150	0	0	0	0	0	0	369	369	0	150
	28Days Compressive Strength			1020	1020	0	385	0	0	0	0	0	0	1020	1020	0	385
	M50 RCC PUMP																
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	19	19	0	12	0	0	0	0	0	0	19	19	0	12
	28Days Compressive Strength			29	29	0	23	0	0	0	0	0	0	29	29	0	23
	M60 PUMP																
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	489	489	0	152	32	7	32	7	0	0	521	521	0	159
	28Days Compressive Strength			1643	1643	0	451	111	32	111	32	0	0	1754	1754	0	483

BORROW AREA SUMMARY

S.NO	B/A NO.	Chainage	Side	Suitable For	Approved Qty In M^3	Submission Letter No	Approved Letter No	Remarks
1	1	Maruvay 61+090	LHS	EMB	18000	PSCHPL/SCP/IE/2018/093	TES/IE/SCP/PIL/2018/059	Approved
2	1	61+090 LHS (Maruvai) EX - 01	LHS	EMB	30000	PSCHPL/SCP/IE/2020/656	TES/IE/SC/PIL/2020/470	Approved
3	1	61+090 LHS (Maruvai) EX - 02	LHS	EMB&SUBGRADE	30000	PSCHPL/SCP/IE/2020/656	TES/IE/SC/PIL/2020/470	Approved
4	1	61+090 LHS (Maruvai) EX - 03	LHS	EMB	30000	PSCHPL/SCP/IE/2020/670	TES/IE/SC/PIL/2020/477	Approved
5	1	61+090 LHS (Maruvai) EX - 04	LHS	EMB&SUBGRADE	30000	PSCHPL/SCP/IE/2020/679	TES/IE/SC/PIL/2020/486	Approved
6	1	61+090 LHS (Maruvai) EX - 05	LHS	EMB	30000	PSCHPL/SCP/IE/2020/679	TES/IE/SC/PIL/2020/486	Approved
7	1	61+090 LHS (Maruvai) EX - 06	LHS	EMB	45000	PSCHPL/SCP/IE/2020/683	TES/IE/SC/PIL/2020/500	Approved
8	2	106+350 RHS Kodali	RHS	EMB	18000	PSCHPL/SCP/IE/2018/084	TES/IE/SCP/PIL/2018/061	Approved
9	2	106+350 RHS (Kodali) EX - 01	RHS	EMB	30000	PSCHPL/SCP/IE/2020/670	TES/IE/SC/PIL/2020/477	Approved
10	2	106+350 RHS (Kodali) EX - 02	RHS	EMB	30000	PSCHPL/SCP/IE/2020/689	TES/IE/SC/PIL/2020/490	Approved
11	3	113+250 LHS Paalur	LHS	EMB	15000	PSCHPL/SCP/IE/2018/101	TES/IE/SCP/PIL/2018/098	Approved
12	4	113+250 LHS Kattanakaram	LHS	EMB	15000	PSCHPL/SCP/IE/2018/147	TES/IE/SCP/PIL/2018/122	Approved
13	5	113+250 LHS Manikudi	LHS	EMB	15000	PSCHPL/SCP/IE/2018/116	TES/IE/SCP/PIL/2018/099	Approved
14	6	112+250 RHS Ammiyapan	RHS	EMB	15000	PSCHPL/SCP/IE/2018/160	TES/IE/SCP/PIL/2018/131	Approved
15	7	80+500 RHS Palayan kottai	RHS	EMB	30000	PSCHPL/SCP/IE/2018/160	TES/IE/SCP/PIL/2018/129	Approved
16	7	80+500 RHS Palayan kottai EX-01	RHS	EMB	60000	PSCHPL/SCP/IE/2019/374	TES/IE/SCP/PIL/2019/300	Approved
17	7	80+500 RHS Palayan kottai EX-02	RHS	EMB	60000	PSCHPL/SCP/IE/2019/396	TES/IE/SCP/PIL/2019/315	Approved
18	7	80+500 RHS Palayan kottai EX-03	RHS	EMB&SUBGRADE	60000	PSCHPL/SCP/IE/2019/435	TES/IE/SCP/PIL/2019/343	Approved
19	8	98+950 RHS Ponnery	RHS	EMB	30000	PSCHPL/SCP/IE/2019/302	TES/IE/SCP/PIL/2019/247	Approved
20	8	98+950 RHS Ponnery EX-01	RHS	EMB&SUBGRADE	30000	PSCHPL/SCP/IE/2019/488	TES/IE/SCP/PIL/2019/386	Approved
21	9	106+320 RHS (Uthayanatham)	RHS	EMB	25500	PSCHPL/SCP/IE/2019/302	TES/IE/SCP/PIL/2019/247	Approved
22	9	106+320 RHS (Uthayanatham EX-01)	RHS		15000	PSCHPL/SCP/IE/2019/472	TES/IE/SCP/PIL/2019/365	Approved
23	10	96+600 LHS (Pandianeery)	LHS	EMB	34500	PSCHPL/SCP/IE/2019/302	TES/IE/SCP/PIL/2019/247	Approved
24	10	96+600 LHS (Pandianeery) EX-01	LHS		30000	PSCHPL/SCP/IE/2019/345	TES/IE/SCP/PIL/2018/268	Approved
25	10	96+600 LHS (Pandianeery) EX-02	LHS	EMB& RE WALL	18000	PSCHPL/SCP/IE/2021/950	TES/IE/SC/PIL/2021/630	
26	11	88+550 (Kaduvetti)	LHS	EMB	25500	PSCHPL/SCP/IE/2019/335		Approved
27	11	88+550 (Kaduvetti) EX - 01	LHS	EMB&SUBGRADE	30000	PSCHPL/SCP/IE/2019/352	TES/IE/SCP/PIL/2019/280	Approved
28	12	90+500 Puthueary	RHS	EMB&SUBGRADE	30000	PSCHPL/SCP/IE/2019/390	TES/IE/SCP/PIL/2019/307	Approved
29	12	90+500 Puthueary EX-01	RHS	RE WALL	30000	PSCHPL/SCP/IE/2019/510		
30	12	90+500 Puthueary EX-02	RHS	EMB&SUBGRADE	30000	PSCHPL/SCP/IE/2020/750		
31	13	87+900 Andi Madam	RHS	Using For Filter Media				
32	14	87+900 Vilanthai	RHS					
33	15	87+600 Velaneary	RHS	EMB	18000	PSCHPL/SCP/IE/2019/387	TES/IE/SCP/PIL/2019/302	Approved
34	16	82+900 Aandi Palayam	RHS	EMB	18000	PSCHPL/SCP/IE/2019/381	TES/IE/SCP/PIL/2019/299	Approved
35	16	82+900 Aandi Palayam EX-01	RHS	RE WALL	36000	PSCHPL/SCP/IE/2019/501	TES/IE/SC/PIL/2019/390	Approved
36	16	82+900 Aandi Palayam EX-02	RHS	SUBGRADE& RE WALL	30000	PSCHPL/SCP/IE/2020/758	TES/IE/SC/PIL/2020/528	Approved
37	16	82+900 Aandi Palayam EX-03	RHS	SUBGRADE& RE WALL	30000	PSCHPL/SCP/IE/2021/937	TES/IE/SC/PIL/2021/626	Approved
38	16	82+900 Aandi Palayam EX-04	RHS	SUBGRADE& RE WALL	45000			
39	17	94+400 kundaveli East	LHS	EMB	30000	PSCHPL/SCP/IE/2019/408	TES/IE/SC/PIL/2019/320	Approved
40	18	83+000 Vanamadevi	LHS	EMB	15000	PSCHPL/SCP/IE/2019/397	TES/IE/SC/PIL/2019/314	Approved
41	19	101+900 Thaluthalai Medu	RHS	EMB	30000	PSCHPL/SCP/IE/2019/422	TES/IE/SC/PIL/2019/355	Approved
42	20	110+100 Athipakkam	RHS	EMB	15000	PSCHPL/SCP/IE/2019/452	TES/IE/SC/PIL/2019/354	Approved
43	21	103+200 Vembankudi	LHS	SUBGRADE& RE WALL	30000	PSCHPL/SCP/IE/2019/463	TES/IE/SC/PIL/2019/362	Approved
44	21	103+200 Vembankudi EX-01	LHS	SUBGRADE& RE WALL	22500	PSCHPL/SCP/IE/2020/717	TES/IE/SC/PIL/2020/504	Approved
45	21	103+200 Vembankudi EX-02	LHS	SUBGRADE& RE WALL	30000	PSCHPL/SCP/IE/2020/775	TES/IE/SC/PIL/2020/538	Approved
46	22	97+300 Muthuservamadam	RHS	EMB	30000	PSCHPL/SCP/IE/2019/447	TES/IE/SC/PIL/2019/349	Approved
47	23	80+500 Kandiyankuppam	RHS	EMB&SUBGRADE	30000	PSCHPL/SCP/IE/2019/561	TES/IE/SC/PIL/2019/418	Approved
48	23	80+500 Kandiyankuppam EX - 01	RHS	EMB&SUBGRADE	30000	PSCHPL/SCP/IE/2020/626	TES/IE/SC/PIL/2020/452	Approved
49	23	80+500 Kandiyankuppam EX - 02	RHS	EMB&SUBGRADE	30000	PSCHPL/SCP/IE/2021/812	TES/IE/SC/PIL/2021/555	Approved
50	23	80+500 Kandiyankuppam EX - 03	RHS	EMB	30000	PSCHPL/SCP/IE/2021/845	TES/IE/SC/PIL/2021/576	Approved
51	24	106+900 Karaikuruchi	RHS	EMB	15000	PSCHPL/SCP/IE/2020/636	TES/IE/SC/PIL/2020/453	Approved
52	24	106+900 Karaikuruchi EX - 01	RHS	SUBGRADE	30000	PSCHPL/SCP/IE/2020/691	TES/IE/SC/PIL/2020/491	Approved
53	24	106+900 Karaikuruchi EX - 02	RHS	SUBGRADE	30000	PSCHPL/SCP/IE/2021/961	TES/IE/SC/PIL/2021/632	Approved
54	25	90+500 RHS (IDAIPALLAM)	LHS	EMB	15000	PSCHPL/SCP/IE/2020/637	TES/IE/SC/PIL/2020/454	Approved
55	25	90+500 RHS (IDAIPALLAM) EX-01	RHS	EMB&SUBGRADE	30000	PSCHPL/SCP/IE/2020/640	TES/IE/SC/PIL/2020/469	Approved
56	26	98+900 LHS (kommedu)	RHS	EMB&SUBGRADE	30000	PSCHPL/SCP/IE/2020/661	TES/IE/SC/PIL/2020/472	Approved
57	27	91+400RHS (pappakudi)	RHS	EMB	15000	PSCHPL/SCP/IE/2020/657	TES/IE/SC/PIL/2020/471	Approved
58	28	92+600 RHS Chokalingapuram	RHS	EMB&SUBGRADE	30000	PSCHPL/SCP/IE/2020/676	TES/IE/SC/PIL/2020/471	Approved
59	28	92+600 RHS Chokalingapuram EX-01	RHS	SUBGRADE	30000	PSCHPL/SCP/IE/2020/838	TES/IE/SC/PIL/2020/568	Approved
60	29	90+580 RHS Irudhayapuram	RHS	EMB	15000	PSCHPL/SCP/IE/2020/711	TES/IE/SC/PIL/2020/501	Approved
61	30	80+500 RHS Keelpathi	RHS	EMB & SUBGRADE	15000	PSCHPL/SCP/IE/2020/711	TES/IE/SC/PIL/2020/501	Approved
62	30	80+500 RHS Keelpathi EX - 1	RHS	EMB & SUBGRADE	30000	PSCHPL/SCP/IE/2021/926	TES/IE/SC/PIL/2021/618	Approved
63	30	80+500 RHS Keelpathi EX - 2	RHS	EMB & SUBGRADE	30000	PSCHPL/SCP/IE/2021/927	TES/IE/SC/PIL/2021/619	Approved
64	31	87+600 RHS Thirukalappur	RHS	SUBGRADE& RE WALL	30000	PSCHPL/SCP/IE/2020/717	TES/IE/SC/PIL/2020/504	Approved
65	32	106+300 RHS Keelnatham	RHS	SUBGRADE& RE WALL	30000	PSCHPL/SCP/IE/2020/725	TES/IE/SC/PIL/2020/505	Approved
66	33	87+600 RHS Thathur	RHS	EMB& RE WALL	30000	PSCHPL/SCP/IE/2020/736	TES/IE/SC/PIL/2020/511	Approved
67	35	115+250 RHS KADAMPANKUDI	RHS	EMB& RE WALL	30000	PSCHPL/SCP/IE/2020/812		
68	36	Thirukalapur kuppam	RHS	SUB & RE WALL	30000	PSCHPL/SCP/IE/2020/838	TES/IE/SC/PIL/2020/569	Approved
69	36	Thirukalapur kuppam Ex - 1	RHS	SUB & RE WALL	30000	PSCHPL/SCP/IE/2021/887	TES/IE/SC/PIL/2021/598	Approved
70	36	Thirukalapur kuppam Ex - 2	RHS	SUB & RE WALL	30000	PSCHPL/SCP/IE/2021/936		Approved
71	37	Manalmedu(109+350)	RHS	EMB	18000	PSCHPL/SCP/IE/2021/844	TES/IE/SC/PIL/2021/574	Approved
72	38	Melur (98+900)	RHS	SUB & RE WALL	30000	PSCHPL/SCP/IE/2021/847	TES/IE/SC/PIL/2021/578	Approved
73	38	Melur (98+900) EX - 1	RHS	SUB & RE WALL	30000	PSCHPL/SCP/IE/2021/886	TES/IE/SC/PIL/2021/599	Approved
74	39	Thirukalapur South (87+600)	RHS	EMB	18000	PSCHPL/SCP/IE/2021/853	TES/IE/SC/PIL/2021/584	Approved
75	40	Kaduvetti (88+750)	RHS	EMB & RE Wall Median filling	30000	PSCHPL/SCP/IE/2021/954	TES/IE/SC/PIL/2021/631	Approved
1	1	FLYASH Ex-01	LHS		25500	PSCHPL/SCP/IE/2018/122	TES/IE/SC/PIL/2018/101	Approved
2	2	FLYASH EX-02	LHS		25500	PSCHPL/SCP/IE/2019/303	TES/IE/SC/PIL/2019/255	Approved
3	3	FLYASH EX-03	LHS		30000			Approved
4	4	FLYASH EX-04	LHS		30000	PSCHPL/SCP/IE/2019/448	TES/IE/SC/PIL/2019/350	Approved
5	5	FLYASH EX-05	LHS		45000	PSCHPL/SCP/IE/2019/489	TES/IE/SC/PIL/2019/385	Approved
6	6	FLYASH EX-06	LHS		30000	PSCHPL/SCP/IE/2019/518	TES/IE/SC/PIL/2019/400	Approved
7	7	FLYASH EX-07	LHS		30000	PSCHPL/SCP/IE/2019/570	TES/IE/SC/PIL/2019/430	Approved
8	8	FLYASH EX-08	LHS		30000	PSCHPL/SCP/IE/2019/571	TES/IE/SC/PIL/2019/431	Approved
9	9	FLYASH EX-09	LHS		30000	PSCHPL/SCP/IE/2020/728	TES/IE/SC/PIL/2020/512	Approved
10	10	FLYASH EX-10	LHS	RE WALL	30000	PSCHPL/SCP/IE/2020/761	TES/IE/SC/PIL/2020/527	Approved
11	11	FLYASH EX-11	LHS		30000	PSCHPL/SCP/IE/2021/814	TES/IE/SC/PIL/2021/554	Approved
12	12	FLYASH EX-12	LHS		30000	PSCHPL/SCP/IE/2021/828	TES/IE/SC/PIL/2021/558	Approved
13	13	FLYASH EX-13	LHS		30000	PSCHPL/SCP/IE/2021/846	TES/IE/SC/PIL/2021/577	Approved
14	14	FLYASH EX-14	LHS		30000			
15	15	FLYASH EX-15	LHS		30000	PSCHPL/SCP/IE/2021/919	TES/IE/SC/PIL/2021/613	Approved
16	16	FLYASH EX-16	LHS		30000	PSCHPL/SCP/IE/2021/917	TES/IE/SC/PIL/2021/612	Approved
17	17	FLYASH EX-17	LHS		30000	PSCHPL/SCP/IE/2021/949	TES/IE/SC/PIL/2021/629	Approved
18	18	FLYASH EX-18	LHS		45000	PSCHPL/SCP/IE/2021/960	TES/IE/SC/PIL/2021/633	Approved
19	19	FLYASH EX-19	LHS		60000	PSCHPL/SCP/IE/2021/964	TES/IE/SC/PIL/2021/634	Approved

SOURCE APPROVAL SUMMARY					
S.No	Item	Source	Submission Letter No	Approved Letter No	Remarks
1	Quality Assurance Plan (QAP)	M/s Patel Infrastructure Ltd	PSCHPL/SCP/IE/2018/019	TES/IE/SC/PIL/2018/034	Approved
2	Cement	M/s Ramco Cements Limited, Chennai.	PSCHPL/SCP/IE/2018/012	TES/IE/SC/PIL/2018/005	Approved
		M/s Dalmia Bharat Cement, Ariyalur	PSCHPL/SCP/IE/2018/009	TES/IE/SC/PIL/2018/006	Approved
		M/s Ultratech	PSCHPL/SCP/IE/2018/090	TES/IE/SC/PIL/2018/060	Approved
		M/s India Cement (Coremendal)	PSCHPL/SCP/IE/2018/063	TES/IE/SC/PIL/2018/040	Approved
		M/s Chettinad Cement, Chennai.	PSCHPL/SCP/IE/2018/009	TES/IE/SC/PIL/2018/052	Approved
		M/s Barathi Cement,	PSCHPL/SCP/IE/2018/154	TES/IE/SC/PIL/2018/128	Approved
		M/s JSW Cement,	PSCHPL/SCP/IE/2018/294	TES/IE/SC/PIL/2018/257	Approved
3	Steel	M/s Jindal Steel & Power Limited, New Delhi.	PSCHPL/SCP/IE/2018/202	TES/IE/SC/PIL/2018/010	Approved
		M/s shyam Steel	PSCHPL/SCP/IE/2018/202	TES/IE/SC/PIL/2018/016	Approved
		M/s Kamachi Industries limited, Chennai.	PSCHPL/SCP/IE/2018/301	TES/IE/SC/PIL/2018/056	Approved
		M/s SAIL	PSCHPL/SCP/IE/2018/202	TES/IE/SC/PIL/2018/173	Approved
		M/s VIZAG STEEL	PSCHPL/SCP/IE/2018/202	TES/IE/SC/PIL/2018/173	Approved
		M/s Tata Steel Limited,	PSCHPL/SCP/IE/2018/202	TES/IE/SC/PIL/2018/173	Approved
		M/s Essar Steel Ltd,	PSCHPL/SCP/IE/2018/202	TES/IE/SC/PIL/2018/173	Approved
		M/s Electrosteel Steels Limited,	PSCHPL/SCP/IE/2018/202	TES/IE/SC/PIL/2018/173	Approved
		M/s Agarwal Foundries pvt Limited,	PSCHPL/SCP/IE/2019/516	TES/IE/SC/PIL/2019/402	Approved
4	HT strands	M/s Usha Martin Limited	PSCHPL/SCP/IE/2018/286	Factory visit Required	
		M/s D.P.Wires Limited	PSCHPL/SCP/IE/2018/045	PSCHPL/SCP/IE/2018/028	Approved
		M/s Kataria industries Pvt Ltd,	PSCHPL/SCP/IE/2018/253	TES/IE/SC/PIL/2018/213	Approved
5	Prestressing Agency	M/s Dynamic Prestressing India Pvt. Ltd	PSCHPL/SCP/IE/2018/059	TES/IE/SC/PIL/2018/037	Approved
6	Mechanical couplers	M/s Unitech couplers India (P) ltd., Coimbatore.	PSCHPL/SCP/IE/2018/018	TES/IE/SC/PIL/2018/009	Approved
		M/s Spplicetek India Pvt Ltd., Mumbai.	PSCHPL/SCP/IE/2018/018	Factory visit Required	
7	Chemical Admixture	M/s Fosroc, Bangalore	PSCHPL/SCP/IE/2018/008	TES/IE/SC/PIL/2018/003	Approved
		M/s Kunal Conchem Pvt.Ltd, Faridabad	PSCHPL/SCP/IE/2018/008	TES/IE/SC/PIL/2018/067	Approved
		M/s Rheoplast Technology Pvt. Ltd, Mumbai	PSCHPL/SCP/IE/2018/008	TES/IE/SC/PIL/2018/066	Approved
		M/s BASF India Limited	PSCHPL/SCP/IE/2018/072	TES/IE/SC/PIL/2018/042	Approved
		M/s Sika India Pvt Ltd,	PSCHPL/SCP/IE/2018/272	TES/IE/SC/PIL/2018/234	Approved
		M/s B&B Specialities India Pvt ltd,	PSCHPL/SCP/IE/2018/233	TES/IE/SC/PIL/2018/179	Approved
		M/S CAC Pvt Ltd,	PSCHPL/SCP/IE/2018/219	TES/IE/SC/PIL/2018/180	Approved
		M/s CBS Chemicals,	PSCHPL/SCP/IE/2018/293	TES/IE/SC/PIL/2018/256	Approved
8	Curing Compound	M/s Kunal Conchem Pvt.Ltd, Faridabad	PSCHPL/SCP/IE/2018/094	TES/IE/SC/PIL/2018/067	Approved
		M/s CBS Chemicals Pvt.Ltd, Faridabad	PSCHPL/SCP/IE/2019/464	TES/IE/SC/PIL/2019/369	Approved
9	Emulsion	M/s Indian Oil Corporation	PSCHPL/SCP/IE/2018/061	TES/IE/SC/PIL/2018/039	Approved
		M/s IWL India Limited	PSCHPL/SCP/IE/2018/073	TES/IE/SC/PIL/2018/054	Approved
		M/s Hindustan Colas Private Limited	PSCHPL/SCP/IE/2018/062	TES/IE/SC/PIL/2018/035	Approved
		M/s Ooms Polymer Modified Bitumen Pvt Ltd,	PSCHPL/SCP/IE/2018/314	TES/IE/SC/PIL/2018/254	Approved
		M/s Tiki Tar and shell india pvt ltd	PSCHPL/SCP/IE/2020/674	TES/IE/SC/PIL/2020/485	Approved

10	Bitumen	M/s Indian Oil Corporation	PSCHPL/SCP/IE/2018/061	TES/IE/SC/PIL/2018/039	Approved
		M/s Hindustan Colas Private Limited	PSCHPL/SCP/IE/2018/282	TES/IE/SC/PIL/2018/0238	Approved
		M/s IWL India Limited	PSCHPL/SCP/IE/2018/073	TES/IE/SC/PIL/2018/054	Approved
		M/s Tiki Tar industries,	PSCHPL/SCP/IE/2018/250	TES/IE/SC/PIL/2018/0215	Approved
		M/s Ooms Polymer Modified Bitumen Pvt Ltd, (PMB)	PSCHPL/SCP/IE/2021/806	Factory visit Required	
		M/s BITCOL Corporation india Pvt.Ltd	PSCHPL/SCP/IE/2021/920	TES/IE/SC/PIL/2021/611	Approved
		M/s Hincol (HCPL) PMB 70 H10	PSCHPL/SCP/IE/2021/810	TES/IE/SC/PIL/2021/557	Approved
11	Mastic Ashophalt	M/s IWL India Limited	PSCHPL/SCP/IE/2018/073	TES/IE/SC/PIL/2018/053	Approved
12	Micro Silica	M/s Elkem South Asia pvt Ltd,	PSCHPL/SCP/IE/2018/201	TES/IE/SC/PIL/2018/170	Approved
13	Anti Stripping	M/s HCPL & Tiki Tar Pvt Ltd,	PSCHPL/SCP/IE/2019/495	TES/IE/SC/PIL/2019/384	Approved
14	Micro Fine	M/s Suyag Elements India Pvt Ltd	PSCHPL/SCP/IE/2020/614	TES/IE/SC/PIL/2020/449	Approved
15	Expansion Joint	M/s Kantaflex India Pvt Ltd	PSCHPL/SCP/IE/2020/784	TES/IE/SC/PIL/2021/544	Approved
		M/s Sanfield India Ltd	PSCHPL/SCP/IE/2020/781	TES/IE/SC/PIL/2021/543	Approved
		M/s Hercules Structural Systems Pvt Ltd	PSCHPL/SCP/IE/2020/782	TES/IE/SC/PIL/2021/545	Approved
16	Road Marking	M/s Solucio iffrasolutions Pvt	PSCHPL/SCP/IE/2021/894	TES/IE/SC/PIL/2021/607	Approved
17	Metal Beam CrashBarrier	M/s Roadshield Pvt	PSCHPL/SCP/IE/2021/893	TES/IE/SC/PIL/2021/608	Approved
18	TRAFFIC SIGN BOARDS	M/s S.N.I Infratech Pvt Ltd	PSCHPL/SCP/IE/2020/744	TES/IE/SC/PIL/2020/744	Approved
19	Elastomeric Bearings	M/s Polymer Products Pvt Ltd	PSCHPL/SCP/IE/2020/595	TES/IE/SC/PIL/2020/451	Approved
		M/s Sanfield India Ltd	PSCHPL/SCP/IE/2018/228,168	TES/IE/SC/PIL/2019/205	Approved
		M/s Ammenji Rubber pvt Ltd	PSCHPL/SCP/IE/2018/144	TES/IE/SC/PIL/2018/127	Approved
20	Highway Lighting	M/s PCP Powers pvt Ltd	PSCHPL/SCP/IE/2020/788	TES/IE/SC/PIL/2021/542	Approved
21	Road Studs	M/s 3M Indian Limited	PSCHPL/SCP/IE/2021/987		

PATEL SETHIYAHOPU CHOLOPURAM HIGHWAY PVT. LTD.

Four Laning of Sethiyahopu - Cholapuram from Km.65.960 to 116.440 section of NH-45C in the state of Tamil Nadu under NHDP Phase-IV on Hybrid Annuity Mode

STATUS OF NCR

Sl No	NCR NO	Date	Location		Description of NCR	NCR Issued reference	Concessionaire Reply Reference	NCR Closed Reference	Remarks
			From	To					
1	NCR - 01	30.01.2019	Box Culver at Km:76+390 (LHS)		Improper Ground Improvement for Box culver at Km:76+390	Lr.No.221_30.01.2019	Lr.No.280_14.02.2019	Lr.No.258_20.03.2019	Closed
2	NCR - 02	23.05.2019	Minor Bridge at Km:79+795 (LHS)		a) Improper compaction/vibration f Abtment -1 wall 2nd lift lead to honey combs. b) No cover to the reinforcement in Abutment -1 wall 2nd lift	Lr.No.304_23.05.2019	Lr.No.956_13.08.2021		
3	NCR - 03	23.05.2019	Abutment A2 of Minor Bridge at Km:85+435 (LHS)		Improper alignment (plumb) of Abutment-2 wall 2nd lift	Lr.No.305_23.05.2019	Lr.No.958_15.08.2021		
4	NCR - 04	23.05.2019	Pile cap for Abutment A2 of VUP at Km.102+975 LHS		Honey combs in Pile cap for Abutment A2 of VUP at Km.102+975 LHS	Lr.No.306_23.05.2019	Lr.No.959_15.08.2021		
5	NCR - 05	15.11.2019	HW between Km:93+900 to Km.94+200 (RHS)		Rectification required in Median kerb	Lr.No.403_15.11.2019 Lr.No.478_09.07.2020	Lr.No.639_13.03.2020		Compliance to be submitted IE Lr.No.478 dt 09.07.2020.
6	NCR - 06	13.12.2019	HW between Km:82+850 to Km.82+970 (RHS)		WMM segregation	Lr.No.429_13.12.2019	Lr.No.786_23.12.2020	Lr.No.551_29.01.2021	Closed
7	NCR - 07	09.07.2020	Diversion road damaged at Km:97+300 to Km:97+600		Diversion road damaged	Lr.No.476_09.07.2020	Lr.No.727_02.10.2020	Lr.No.509_14.10.2020	Closed
8	NCR - 08	23.07.2020	95+990 to 96+100(RHS) 96+230 to Km:96+300(RHS)		Improper laying of Kerb and not as per approved drawings	Lr.No.482_23.07.2020			
9	NCR - 09	31.07.2020	96+300 to 96+400(RHS)		Kerb mould is not as per the approved drawings	Lr.No.484_31.07.2020			
10	NCR - 10	18.08.2020	96+100 to 96+220(RHS)		Kerb mould is not as per the approved drawings	Lr.No.489_18.08.2020			
11	NCR - 11	12.11.2020	Km.83+950 to Km.84+100		Excavated Embankment fill and used in Subgrade layer	Lr.No.523_12.11.2020	Lr.No.774_02.12.2020	Lr.No.552_29.01.2021	Closed
12	NCR - 12	02.12.2021	Km.83+940 to Km.84+080 (LHS)		Median kerb laying is not in line and level	Lr.No.531_02.12.2021			
13	NCR - 13	03.04.2021	Box Culvert at Km:77+766 (LHS)		Box Culvert without proper shuttering and reinforcement exposed.	Lr.No.587_03.04.2021	Lr.No.888_12.05.2021		
14	NCR - 14	05.05.2021	RE wall of VUP at Km:90+580		Unsuitable soil is used in RE wall embankment filling at Km:90+580 (VUP)	Lr.No.596_05.05.2021	Lr.No.892_18.05.2021	Lr.No.603_22.06.2021	Closed

7. Weather Report -Meensuritti

DATE	Temperature (°C)		Rainfall in mm	Humidity in %		Remarks
	Max	Min		Max	Min	
01/10/2021	38.40	28.50	0.00	80	43	Sunny
02/10/2021	39.40	28.40	10.00	82	42	Rainy
03/10/2021	39.20	27.50	0.00	89	41	Sunny
04/10/2021	38.40	29.00	4.00	87	48	Rainy
05/10/2021	33.40	28.40	35.00	96	63	Rainy
06/10/2021	37.40	26.90	0.00	92	52	Sunny
07/10/2021	36.80	28.60	0.00	82	56	Sunny
08/10/2021	36.90	27.60	38.00	86	54	Rainy
09/10/2021	36.20	26.60	0.00	87	55	Sunny
10/10/2021	36.80	27.70	8.00	83	53	Rainy
11/10/2021	36.70	27.50	15.00	87	52	Rainy
12/10/2021	36.20	28.20	0.00	85	54	Sunny
13/10/2021	37.90	29.90	0.00	88	52	Sunny
14/10/2021	37.60	28.90	0.00	85	54	Sunny
15/10/2021	37.10	29.60	0.00	81	53	Sunny
16/10/2021	39.10	29.80	0.00	83	48	Sunny
17/10/2021	38.60	28.70	0.00	80	47	Sunny
18/10/2021	39.10	29.20	0.00	76	46	Sunny
19/10/2021	38.40	28.80	0.00	77	48	Sunny
20/10/2021	39.10	29.90	0.00	78	45	Sunny
21/10/2021	37.40	28.60	0.00	89	50	Sunny
22/10/2021	38.10	28.80	0.00	90	54	Sunny
23/10/2021	36.80	27.90	0.00	79	52	Sunny
24/10/2021	37.10	27.20	0.00	86	50	Sunny
25/10/2021	38.20	28.10	2.00	82	42	Rainy
26/10/2021	37.80	27.30	0.00	87	46	Sunny
27/10/2021	38.10	27.60	0.00	86	50	Sunny
28/10/2021	38.60	27.80	10.00	85	52	Rainy
29/10/2021	32.70	26.00	15.00	89	76	Rainy
30/10/2021	32.10	25.90	5.00	90	72	Rainy
31/10/2021	30.20	27.50	20.00	92	75	Rainy

Weather Report Anakarai

DATE	Temperature (°C)		Rainfall in mm	Humidity in %		Remarks
	Max	Min		Max	Min	
01/10/2021	39.1	28.4	0.00	83	41	Sunny
02/10/2021	40.5	28.4	0.00	88	40	Sunny
03/10/2021	41.2	27.9	0.00	85	41	Sunny
04/10/2021	41.9	28.5	9.00	83	39	Rainy
05/10/2021	40.1	27.8	25.00	89	42	Rainy
06/10/2021	40.3	27.1	0.00	92	44	Sunny
07/10/2021	41.2	28.1	0.00	90	42	Sunny
08/10/2021	41.4	28.4	31.00	88	40	Rainy
09/10/2021	40.2	27.1	26.00	94	42	Rainy
10/10/2021	41.5	26.7	9.00	96	41	Rainy
11/10/2021	40.2	26.1	61.00	95	44	Rainy
12/10/2021	40.8	25.4	0.00	93	42	Sunny
13/10/2021	40.5	25.6	60.00	91	41	Rainy
14/10/2021	40.1	25.2	0.00	93	42	Sunny
15/10/2021	40.8	25.4	0.00	92	44	Sunny
16/10/2021	41.2	25.6	0.00	91	43	Sunny
17/10/2021	41.9	25.7	0.00	93	44	Sunny
18/10/2021	41.7	25.9	0.00	91	42	Sunny
19/10/2021	40.2	25.7	9.00	93	41	Rainy
20/10/2021	40.1	24.7	11.00	94	44	Rainy
21/10/2021	41.2	23.9	0.00	96	43	Sunny
22/10/2021	41.5	24.1	0.00	93	42	Sunny
23/10/2021	41.6	24.8	0.00	90	41	Sunny
24/10/2021	41.9	24.5	0.00	91	42	Sunny
25/10/2021	41.5	25.1	0.00	90	40	Sunny
26/10/2021	41.8	24.8	0.00	89	41	Sunny
27/10/2021	42.1	24.2	0.00	91	43	Sunny
28/10/2021	42.0	25.3	20.00	88	41	Rainy
29/10/2021	40.1	25.1	12.00	92	44	Rainy
30/10/2021	40.2	24.8	7.00	93	44	Rainy
31/10/2021	39.5	24.0	0.00	94	45	Sunny

8. Safety

- Various issues related to environment and safety, such as traffic management, safety signage, disposal of waste materials and oil spillage, housekeeping, area barricading and traffic management, etc, are being taken care of during the execution of the project.
- Periodic Safety meetings being conducted on a regular basis and the details of the photographs for the same along with action taken are as below.

9. Support required from NHAI

Concessionaire requests NHAI to take early action on the following issues:

1. Pending Disbursement of Payment to the beneficiaries from CALA towards Land and Buildings in Cuddalore, Ariyalur & Thanjavur District. – Request Authority to advise/instruct the Competent Authority of Land Acquisition to speed up the process of disbursement of pending payment.

2. Additional land acquisition for toll plaza, bus bays, turning radius of major junctions along the project highways.

3. Finalization of Toll plaza location.

4. Change of Scope notice required for relocation of VUP @ Km 113+500 due to existence of electrical substation of TANGENDCO at Km:113+700 to 113+800(RHS).

5. Change of Scope notice required for widening of Existing Minor Bridge @ Km 101+095 from two lane to four-lane carriageway.

6. Change of Scope notice required for reconstruction of Existing Box Culvert @ Km 110+785 because the existing structure of said location at site is a Pipe Culvert, which has been mentioned as Box type in the concession agreement.

7. Removal of Electrical substation 85+300 to 85+400, which is obstructing the project highways.

8. NOC from PWD/WRO, Govt of Tamil Nadu for construction of Minor Bridge (13 Nos) and Major Bridge (3 Nos) as per below

Sl No	Description	Total scope (Nos.)	Submitted as on date (Nos.)	Approved as on date (Nos.)	Balance (Nos.)	Present Status
1	MNB	26	26	13	13	Under Processing with Engineer In Chief, Chennai
2	MJB	4	4	2	2	
	Total	30	30	15	15	

9. In sufficient Right of Way with respect to the land handed over as per Clause 10.3.1 of Concession Agreement at the time of Signing of Joint Memorandum.

10. Payment disbursement and necessary clearances required for removal of religious and Govt. buildings.

11. NOC from PWD/WRO, Govt. of Tamil Nadu for construction of project highways in the existing ponds (in a length of 1.702 Kms).

Sl No	Chainage		Length Affected (M)	Side	AVG Toe Width from CL "A"	Width/distance of Pond Edge from CL "C"
	From	To				
1	75+557	75+632	74.75	RHS	32.50	7.00
2	77+330	77+400	70.00	LHS	28.16	3.00
3	78+404	78+422	17.90	LHS	16.00	9.50

4	80+396	80+415	19.00	LHS	27.00	7.00
5	80+400	80+423	23.00	RHS	24.00	6.50
6	81+356	81+416	60.30	LHS	18.00	9.00
7	81+760	81+835	75.00	LHS	14.30	2.00
8	90+804	90+837	32.77	RHS	32.00	12.80
9	97+376	97+551	175.00	RHS	32.67	11.00
10	97+822	97+845	23.00	RHS	27.50	7.80
11	99+961	100+020	59.70	RHS	25.00	17.28
12	100+350	100+389	39.00	LHS	22.70	4.00
13	100+800	100+845	44.70	RHS	23.00	12.25
14	100+731	100+854	123.75	LHS	23.00	5.00
15	103+039	103+056	17.60	LHS	23.00	6.60
16	103+125	103+435	310.10	LHS	23.00	6.00
17	103+822	103+846	24.00	LHS	23.20	5.20
18	104+091	104+262	171.00	RHS	23.00	16.80
19	103+992	104+264	271.50	LHS	23.00	10.90
20	114+547	114+617	70.00	LHS	20.62	0.00
Total Length affected (in M)			1702.1			

12. Removal/relocation of existing irrigation sluice and regulator in the locations.

Sl. No.	Chainage	Distance from PCL	Remarks/Action to be taken	Present Status
1	68+644 (02 Nos)	-	To be shifted to edge of PROW	Estimate pending with EE PWD Chidambaram
2	81+850	9.3m	To be shifted to edge of PROW	Deposit Amount remitted to PWD/WRO. Work yet to be commenced.
3	81+870	1.8m	To be shifted to edge of PROW	
4	81+910	1.8m	To be shifted to edge of PROW	
5	82+010	1.8m	To be shifted to edge of PROW	
6	82+100	7.4m	To be shifted to edge of PROW	
7	103+990	5.97m	To be shifted to edge of PROW	Estimate received from BDO. Approval pending with Authority

13. Removal of Religious structures of 16 Nos. and Bus stand from the proposed ROW.

SL No	Chainage	Type of Structure	Side	Distance from PCL (M)	TCS Type	Formation Width Required from PCL	ROW From PCL	Remarks
Priority I – Obstruction of Main Carriage way & Service Road :-								
1.	86+350	Temple	LHS	7	Type - B with SR 7.5	21.25	26.10	
2.	87+500	Temple	LHS	13	Fig -7.8 with SR 5.5	22.75	26.80	
3.	92+455	Temple	LHS	14	Type - A3	18.80	23.70	
4.	92+570	Temple	RHS	12	Type - B with SR 7.5	21.25	28.80	
Priority II – Obstruction of Service Road :-								
1.	75+650	Temple	RHS	15	Fig -7.8 with SR 5.5	22.75	25.50	
2.	80+125	Temple	RHS	16	Type -A3	20.80	23.50	
3.	83+615	Temple	RHS	16	Type - B with SR 7.5	21.25	21.25	
4.	84+070	Temple	LHS	16	Type - B with SR 7.5	21.25	29.00	
5.	86+280	Temple	RHS	23	Type - B with SR 7.5	21.25	30.00	
6.	86+390	Temple	LHS	18	Type - B with SR 7.5	21.25	26.10	
7.	89+310	Temple	RHS	16	Type - B with SR 7.5	21.25	22.50	
8.	90+325	Temple	RHS	14	Fig -7.8 with SR 5.5	22.75	23.00	
Priority III – Falling Within ROW and effecting the Utility shifting works:-								
1.	76+600	Temple	RHS	24.5	Type - B with SR 7.5	21.25	31.10	
2.	91+780	Temple	RHS	22	TCS – 1	14.00	26.00	
3.	92+135	Temple	LHS	22	Type - A3	15.65	26.00	
4.	99+710	Temple	LHS	20	Type - A3	17.95	25.00	

14. Removal of Government Buildings like VAO office, School, Post Office & Ration Shop etc.
15. Removal of unauthorized occupations in 38 nos. in Cuddalore dist. & 32 nos. in Ariyalur dist. in the project highways.
16. Removal/relocation of Veeranam Pipes between Km: 65+960 to 66+200 causing material adverse effect on construction, Authority requested to take up the matter with Concern Department for early removal of the same.
17. Revised Estimates for Electrical Shifting due to non-available of vertical clearance – Request Authority for earlier Approval.
18. Estimate for shifting of water supply utilities in Missing locations-Request Authority for earlier Approval.

19. With reference to our several correspondence time to time vide which we intimated the matter of enforced nationwide lockdown as well as its impact on the Project Highway, the World Health Organization (WHO) on 11th March' 2020 had characterized the Novel Coronavirus Disease (COVID-19) outbreak as a global Pandemic. In view of the WHO's announcement and over all prevailing condition of the nation, the Union Government of India (GOI) had invoked section 2 of Epidemic Disease Act 1897 on 12.03.2020 to prevent the spread of novel coronavirus in India. Accordingly, the State Government of Tamilnadu has enforced complete lockdown of the entire state from 24.03.2020 to 31.03.2020 to avoid the spread of COVID-19. Subsequently, The Ministry of Home Affairs (MHA) vide Order No. 40-3/2020-DM-I(A), dated 24.03.2020 directed to enforce complete nationwide lockdown for the period of 21 days from 25.03.2020 to 14.04.2020.

Further, based on the outcome of COVID-19 spread containment during 1st nationwide lockdown till 14th April' 2020 & condition of country as a whole, Ministry of Home Affairs (MHA), Govt. of India in exercise of powers conferred under Section 10(2)(l) of Disaster Management Act 2005, has issued an Order bearing no. 40-3/2020-DM-I(A), dated 15.04.2020 that the nationwide lockdown will remain continue till 3rd May' 2020 to contain the spread of COVID-19 in the country. However, to mitigate hardship of the public select additional activities will be allowed with effect from 20th April' 2020 including Road Construction Activities as per sr. no. 16 of Consolidated Revised Guidelines on the measures to be taken by Ministries / Departments of GOI, State/ UT Govt. and State/ UT Authorities incorporating these guidelines are enclosed with the MHA order.

Accordingly, we have submitted the detailed work program during the extended lock down period up to 03.05.2020 along with the list of Manpower & Machineries to be involved in the Construction work to take suitable action for the issuance of necessary permission from District Administration in this regard. Further, vide our letter no. 12 dated 23.04.2020 we informed that Press released no. 280 dated 20.04.2020 issued by Government of Tamilnadu that Government of Tamilnadu had instructed to continue to enforce all the existing restrictions issued by MHA order dated 24.03.2020 during extended lock down period i.e. up to 03.05.2020.

Further, vide our letter no. 16 dated 08.05.2020 & 19 dated 20.05.2020 we informed that Government of Tamilnadu had instructed to continue to enforce all the existing restrictions issued by MHA order dated 24.03.2020 during extended lock down period i.e. up to 31.05.2020. After that, a notification issued by Revenue and Disaster Management (D-II) Department, Govt. of Tamilnadu bearing no. 203 dated 23.04.2020 vide which it is informed that resumption of construction of road & bridge project can be done with taking all precaution as per Standard Operating Procedure (SOPs) for social distancing and obtain permission from District Administration.

But so far we have not received the requisite permission from the District Administration for commencement of works and the entire construction activities are standstill since 21.03.2020 and the mobilised manpower and machineries are in idle conditions which the Concessionaire facing the huge losses of valuable time and cost due to occurrence of this Force Majeure under the Article-28 of Concession Agreement. Furthermore, we also notified in our earlier correspondence that Ministry of Home Affairs, Govt. of India vide their order dated 29.04.2020 allowed the movement of stranded migrant workers to their home town and subsequently, Local officials of District Administration are now approaching to our staff/ labours directly & taking their willingness for movement to their home town. Due to this and havoc of

spreading of coronavirus, our workers and labours are putting their voice/desire for roaming to their home town. Based on prevailing situation and circumstances thereto & on human ground we could not restrict them from going to their home town and many migrant labours/ staffs have registered their name for the movement to their home town.

Further, Concessionaire has also reported that order dated 31.05.2020 issued by Health and Family Welfare (P1) Department, Government of Tamilnadu vide which they notified that state of Tamilnadu has been divided into 8 zones and issued additional guidelines for strict adherence on movement of person/ vehicle, testing & quarantine strategies for management of COVID-19 in the state.

After that Government of India has announced "Unlock 1.0" in entire country except containment zones but Government of Tamilnadu has instructed to extended all restrictions issued vide additional guidelines for strict adherence on movement of person/ vehicle, testing & quarantine strategies for management of COVID-19 in the state.

In addition to that due to surge of cases of COVID-19 in State of Tamilndau, Government of these states has given instruction to compulsory quarantine period of 14 days for passenger/ people who are coming in the state from another state.

Thus, Concessionaire started construction activities in Project Highway after getting permission from District Administration as well as tried to get momentum of the Progress of work as like they have on 20.03.2020 but they are facing lots of challenges like non-availability of desired nos. of skilled labours, non-availability of desired staff for operation of our machineries, non-availability of spare parts in local market due to disturbance of supply chain, due to enforcement of 14 days Quarantine as per Govt. norms labours are also not willing to come back to work considering upcoming Monsoon season, etc. which are beyond the control of Concessionaire.

20. Unprecedented heavy rain affected the construction activities in the project highway due to the occurrence & effect of severe cyclonic storm NIVAR on 25.11.2020.

21. The second wave of COVID-19 in India appears to be ascending faster than the first wave that peaked in mid-September last year Nevertheless, India is already leading the world in terms of average daily cases detected and registers the third-highest average daily deaths. The whole country is facing big difficulties and struggling for the survival of human life. The impact of this event is an extremely painful and great loss to the nation. Looking to such an uncontrolled situation, Supreme Court intervened on 22.04.2021 and asked for the national plan for COVID-19 with the central Government and took own cognizance of what it called a national health emergency situation. The Health System has been collapsed due to the severe scarcity of oxygen.The spread of Coronavirus cases in Tamil Nadu right now is so fast, that it took only half the duration to overtake the daily infection peak number reported in the first wave.

Due to many restrictions in persisting conditions arise due to occurring of 2nd wave of Extra ordinary event COVID-19, the supply chain of required material is being disturbed and not in smooth shape which leads to hampering the work progress during this valuable working season. Due to surge in cases of 2nd wave of COVID-19 drastically day by day and additional lockdown like restriction imposing by State Government, migrants labours are leaving the state and going to their native place under the fear of prevailing situation. Further migrants labours who were gone their home at Holi Festival are not returning back due to fear and precarious situation of the spike of COVID-19 pandemic. Due to this condition, we are facing acute

shortage of labour/operator/driver for the construction activities in Project Highway and work is being affected because of the impediments beyond the control of the Concessionaire. It is also pertaining to mention that despite taking all necessary precaution and follow the safety guidelines of COVID-19, unfortunately, our many manpower including senior-level deployed at in Project i.e. Sethiyahopu- Cholapruram Section have been infected by COVID-19 and our both base camp (i.e. Meensuruti Base Camp & Anakarai Base Camp) have been sealed by the Block Medical officer, Govt. Community Health Center, Ariyalur despite that incident was beyond our control.

10. Important Events

Table 10.1. Details of Important Events

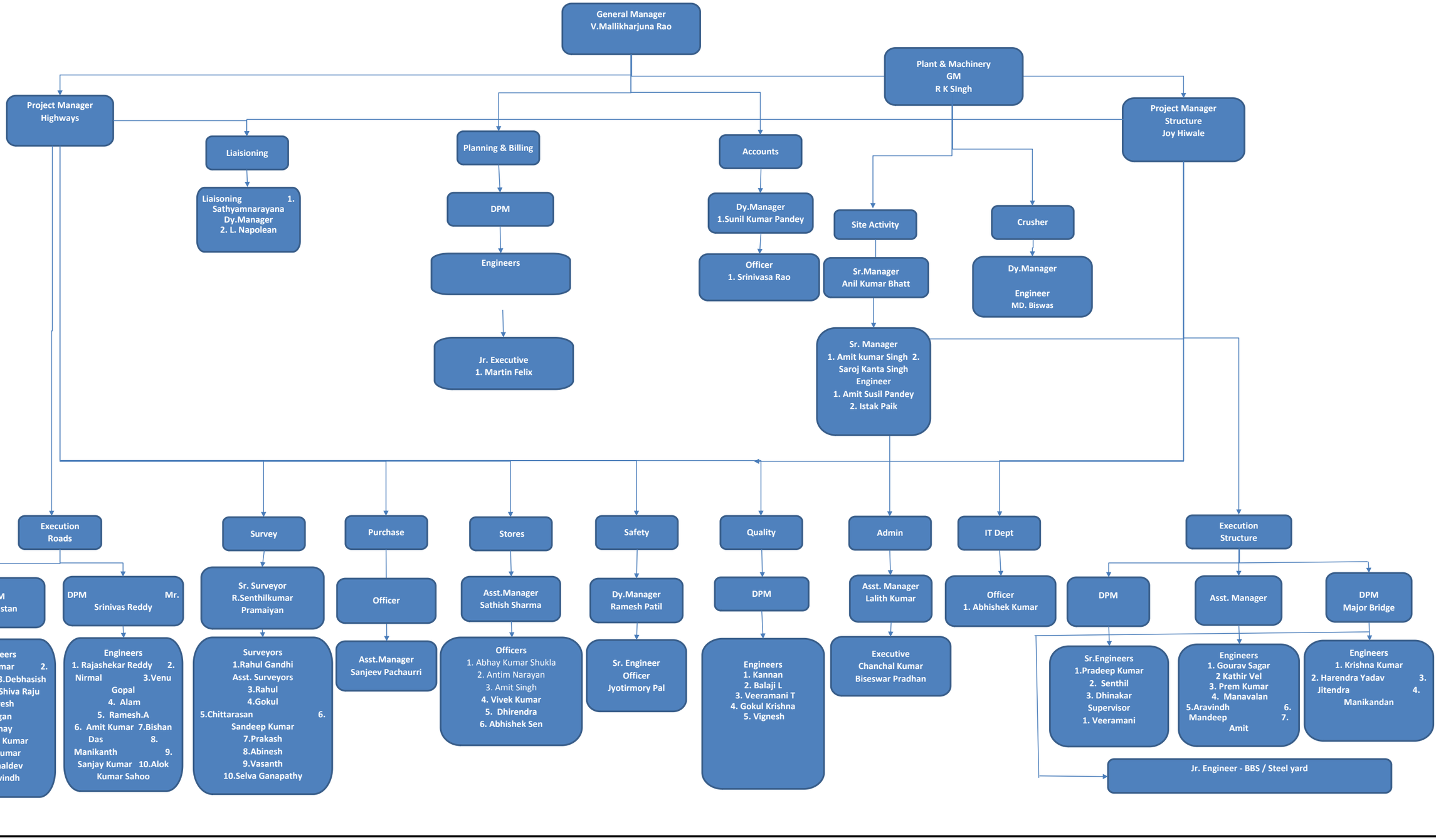
Sl. No	Date of Events	Description of Events	Remarks
1.	23.10.2021	Regional Officer, Madurai Site Inspection	

11. Organization Chart

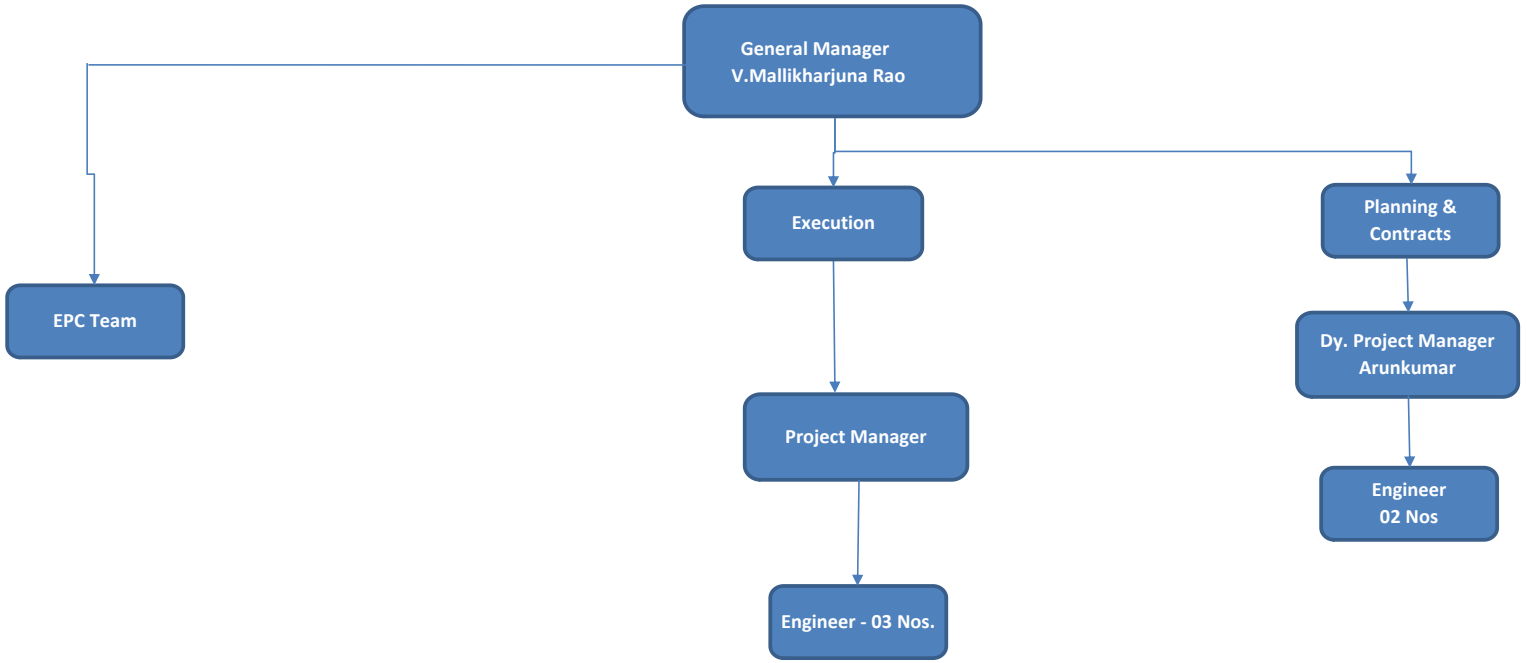
The following figures represents the organization structure of the EPC and SPV Team.

1. Fig. 4 - Organization Chart - EPC Team
2. Fig. 5 - Organization Chart - SPV Team

ORGANIZATION CHART - EPC TEAM



ORGANIZATION CHART - SPV TEAM



12. List of Plants, Machinery and Equipment's

Table 12.1 - List of Plants, Machinery and Equipment's

S.No.	Name of the Machinery	Capacity / Model	Mobilized in Nos.	Remarks
1	Grader	120K2	9	
2	Excavator	JCB-220	13	
3	Dozer		4	
4	Soil Compactor	HAMM 311	8	
5	Backhoe Loader	JCB 3DX	8	
6	Tipper	Bharat Benz- 3128C	310	
7	Transit Mixture	2523C	12	
8	Loader	455 ZX	4	
9	Trailer		2	
10	Water Tanker		5	
11	Boom Placer	S-36	1	
12	Tractor	5036 D V-2	2	
13	Mobile Service Van		1	
14	Tower Light	AJASKY	3	
11	Hydra Crane		2	
12	Asphalt Batch Mix Plant		1	
13	Wet Mix Plant	250 TPH	1	
14	Concrete Batch Mix Plant	45 cum	2	
15	Concrete Batch Mix Plant	60 cum	2	
16	Crusher Plant (3 Stage)	250 TPH	2	
17	Weigh Bridge for Camp 100MT	100MT	3	
18	Weigh Bridge for Crusher 100MT	100MT	2	
19	Genset Base Camp	25KV	2	
20	Genset 63KVA Boiler	63KVA Boiler	1	
21	Genset (H.M & B/P)	82.50KV	3	
22	Genset (B/P-CP-45)	125KV	2	
23	Genset Concrete Plant-180 KVA	180 KVA	1	
24	Genset (Crusher)	1010KVA	3	
25	Gantry at Box Segment Casting Yard	100 MT	2	Both are in operation.

26	Launching Girder		2	Both are in operation.

Table 13.1 - Status of Change of Scope Proposals

Sl. No	Proposal Details	Date of Proposal	Current Status	COS Amount	Actual Date of Approval
1	Replacement of Pipe Culverts with Box Culverts	23.03.2018	Approved	3.21 Cr	21.02.2020
2	Strengthening/upgrade the incident Management Service	10.05.2019	Required COS notice for Strengthening/upgrade the incident Management Service.	NA	NA
3	Comprehensive –COS 02	20.08.2018	Approved	(-) 4.69 Cr	23.06.2021

14. Details of Correspondences

The following tables list out the correspondences between the parties.

Table 14.1. - Concessionaire to NHAI

Table 14.2. - NHAI to Concessionaire

Table 14.3. - Concessionaire to Independent Engineer

Table 14.4. - Independent Engineer to Concessionaire

Four laning of Sethiyahopu to Cholapuram from Km 65+960 to 116+440 section of NH-45C in the state of Tamilnadu under NHDP-IV on Hybrid Annuity Mode.				
TABLE 14.1 - CORRESPONDANCE - CONCESSIONAIRE TO NHAI				
S.No	Date	Letter No	Subject	Remarks
1	17.10.2021	PSCHPL/SCP/NHAI/2021/990	Resubmission of RA Bill No 19-Shifting of Electrical utilities as per clause 11.2.1 of Concession Agreement	
2	18.10.2021	PSCHPL/SCP/NHAI/2021/991	Construction activities hampered at Vattathur village from km 77+200 to 77+800 due to protest of local villagers	
3	23.10.2021	PSCHPL/SCP/NHAI/2021/997	Insufficient Right of way with respect to the land handed over as per clause 10.3.1 of Concession Agreement at the time of Signing of joint memorundum	
4	24.10.2021	PSCHPL/SCP/NHAI/2021/998	Construction of Busbays & bus Shelters at km 79+180 (LHS) has been stopped by local villagers	
5	24.10.2021	PSCHPL/SCP/NHAI/2021/999	Construction of bus shelters at Km 81+340 (LHS) has been stopped by local villagers	

Four laning of Sethiyahopu to Cholapuram from Km 65+960 to 116+440 section of NH-45C in the state of Tamilnadu under NHDP-IV on Hybrid Annuity Mode.

TABLE 14.2 - CORRESPONDANCE - NHAI TO CONCESSIONAIRE

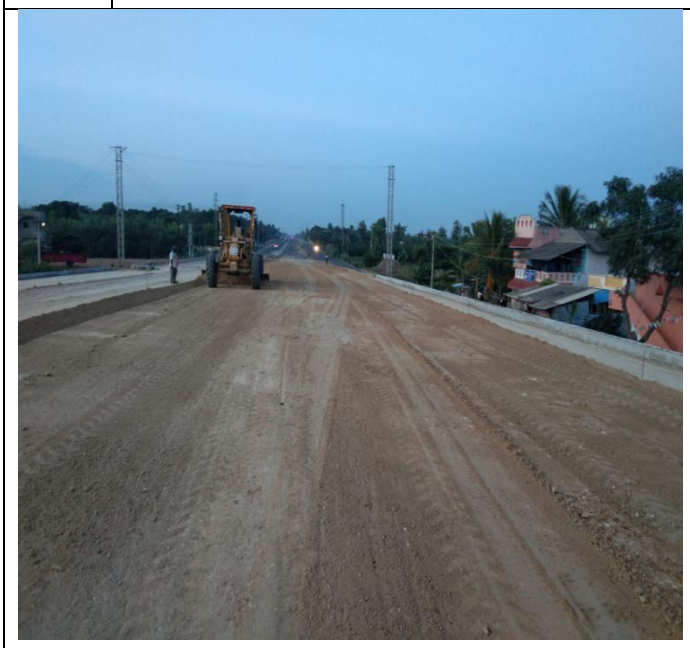
S.No	Date	Letter No	Subject	Remarks
1	07.10.2021	NHAI/PIU/Thanj/11025/12/2018/2491	Extension of time for Independent Engineer services upto 31.07.2022 -Approval of Competent Authority	
2	08.10.2021	NHAI/PIU/Thanj/11019/52/2017/2512	Independent Consultancy services for the month of May 2021 50% claim	
3	11.10.2021	NHAI/PIU/Thanj/11025/11/2018/2534	Release of Mobilization advance bank guarantee -Approval requested	
4	11.10.2021	NHAI/PIU/Thanj/11025/09/2018/2538	Shifting of Draine inlet sluices-EE PWD requested to construct high level bridge or additional inlet arrangements report called for	
5	11.10.2021	NHAI/PIU/Thanj/11021/31/2009/2543	Permission for laying Ennore-ThiruvallurTuticorin R-LNG Pipeline along with Optical fibre Cable (OFC) on NH45C across at Km 103.550 (HDD) method	
6	11.10.2021	NHAI/PIU/Thanj/11019/03/2009/2550	Nandeeswaramangalam village in kattumannarkoil Taluk in Cuddalore District -Smt manonmani -No objection certificate requested	
7	11.10.2021	NHAI/PIU/Thanj/11025/11/2018/2553	Compliance report Observations made during site visit of RO Madurai on 09.09.2021 -Remarks called for	
8	16.10.2021	NHAI/PIU/Thanj/11025/03/2018/2576	Acquisition of land in Thaluthalaimedu village-Irrigation Tank & channel demolished -Restoration requested	
9	16.10.2021	NHAI/PIU/Thanj/11019/03/2009/2580	NOC-acquired land taken for Project works at konthandavilagam of villupuram taluk-Report submitted after site verification	
10	18.10.2021	NHAI/PIU/Thanj/11021/109/2021/2597	Request for permission to lay OFC on NH45C -Approval Requested	
11	21.10.2021	NHAI/PIU/Thanj/11017/02/2009/2624	Installation of HT tower in Survey No 63/6C4 of Sethiyathope Village Objections made	
12	21.10.2021	NHAI/PIU/Thanj/11025/03/2018/2635	Request to provide irrigation Pipeline at Mannipallam Village	
13	22.10.2021	NHAI/PIU/Thanj/11025/25/2018/2650	Construction activities hampered at vattathur Village	
14	23.10.2021	NHAI/PIU/Thanj/11025/25/2018/2659	Utilization of Wet Ash from TTPS, Thoothukudi for filling purposes -Requirement by Contractors/Concessionaire of NHAI in madurai Region-Report Called for	
15	26.10.2021	NHAI/PIU/Thanj/11025/09/2018/2676	Shifting of Existing drainage sluices at km 81.850, 82.100, 81.870, 81.910, 82.010 - Estimate Sanctioned-Requested for shifting of Sluices-Inspection notes of Technical team-Joint Inspection requested	

Four laning of Sethiyahopu to Cholapuram from Km 65+960 to 116+440 section of NH-45C in the state of Tamilnadu under NHDP-IV on Hybrid Annuity Mode.				
TABLE 14.3 - CORRESPONDANCE - CONCESSIONAIRE TO INDEPENDENT ENGINEER				
S.No	Date	Letter No	Subject	Remarks
1	02.10.2021	PSCHPL/SCP/IE/2021/987	Procurement of Road Studs from 3M Limited	
2	07.10.2021	PSCHPL/SCP/IE/2021/988	Submission of Monthly progress report for the month of September 2021	
3	18.10.2021	PSCHPL/SCP/IE/2021/992	Finalization of locations & directions for overhead gantry	
4	18.10.2021	PSCHPL/SCP/IE/2021/993	Repair and strengthening of Bridges & Structures -Request joint inspection to conduct condition survey of existing structures	

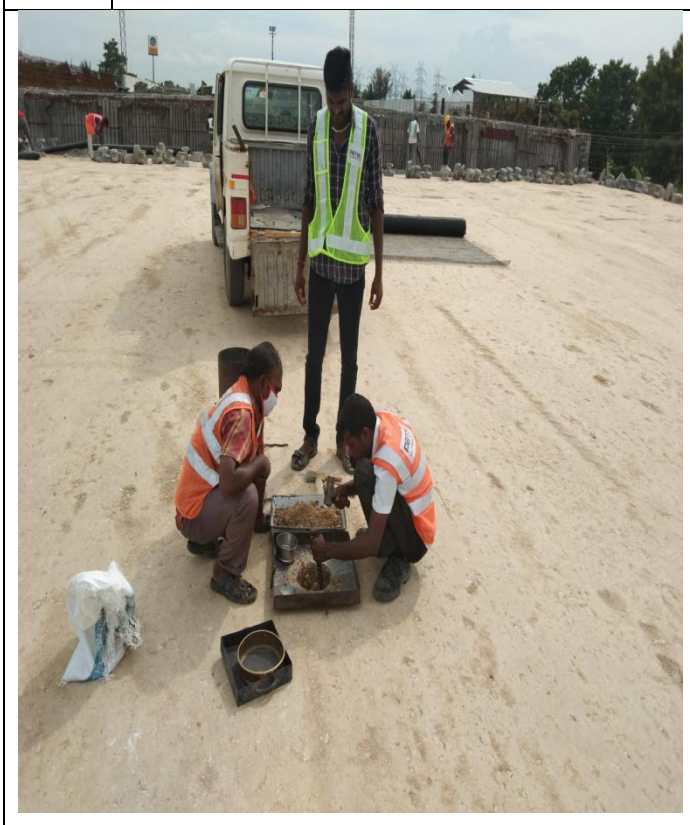
Four laning of Sethiyahopu to Cholapuram from Km 65+960 to 116+440 section of NH-45C in the state of Tamilnadu under NHDP-IV on Hybrid Annuity Mode.				
TABLE 14.4 - CORRESPONDANCE - INDEPENDENT ENGINEER TO CONCESSIONAIRE / NHAI				
S.No	Date	Letter No	Subject	Remarks
1	08.10.2021	TES/IE/SC/PIL/2021/638	Site Observations - Plantation	

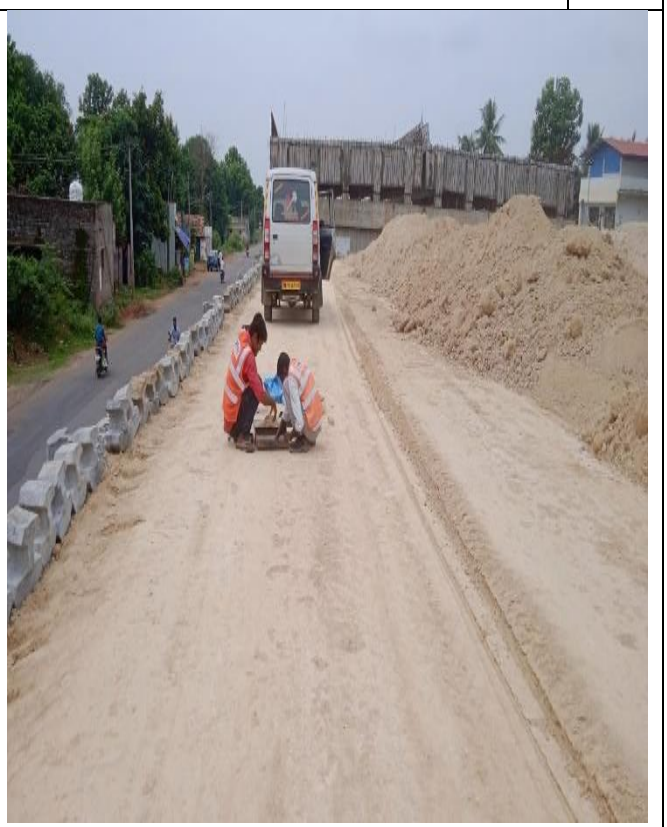
15. Progress Photographs

Sl.No	Description	Location	Side
1	Embankment Layer work in Progress	90+260	LHS
2	Subgrade Layer work in Progress	91+000	RHS

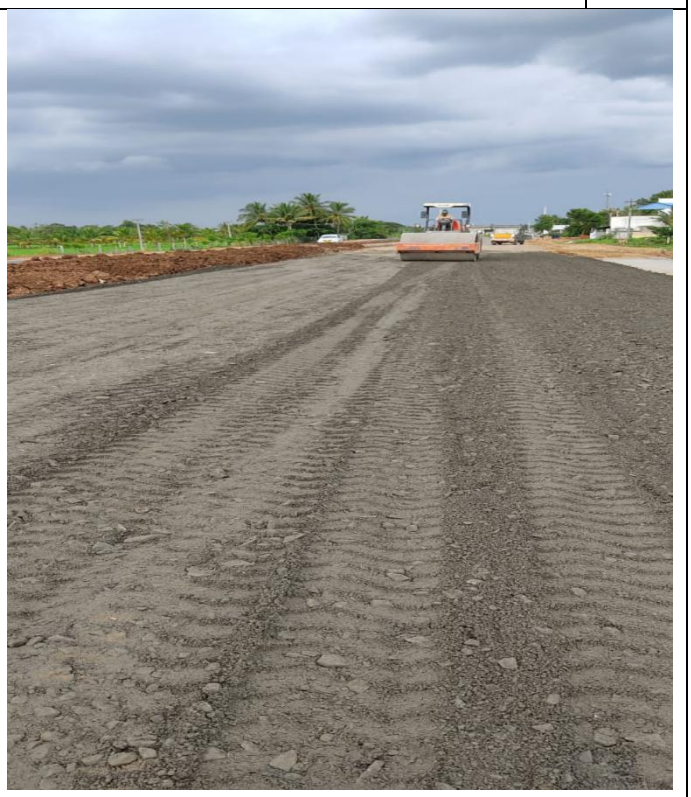


Sl.No	Description	Location	Side
3	RE Wall filling work in Progress	90+598	RHS
4	RE Wall filling work in Progress	90+140	RHS



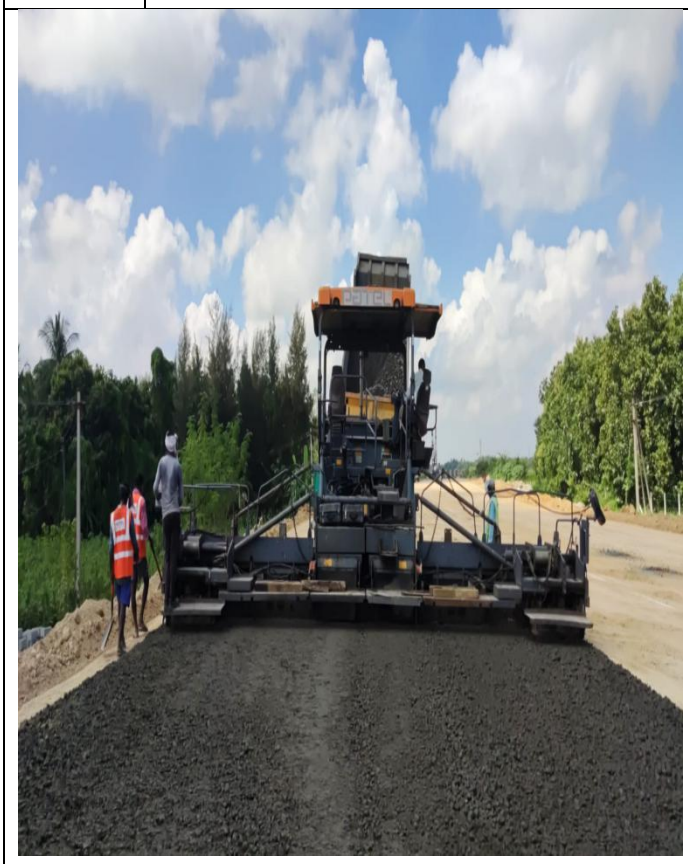


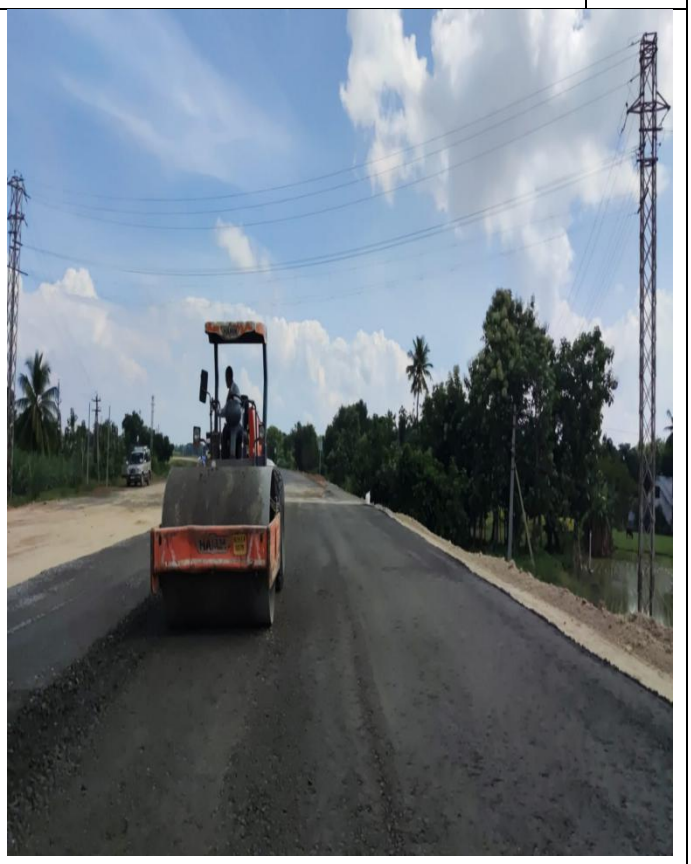
Sl.No	Description	Location	Side
5	CTSB Laying work in Progress	90+760	RHS
6	CTSB Laying work in Progress	115+800	LHS



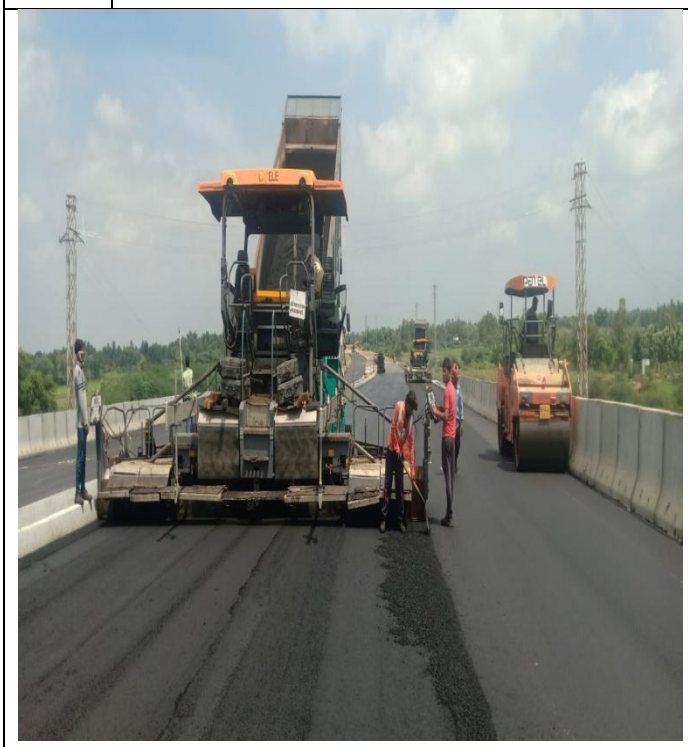
Sl.No	Description	Location	Side
7	WMM Laying work in Progress	77+840	RHS
8	WMM Laying work in Progress	90+000	LHS

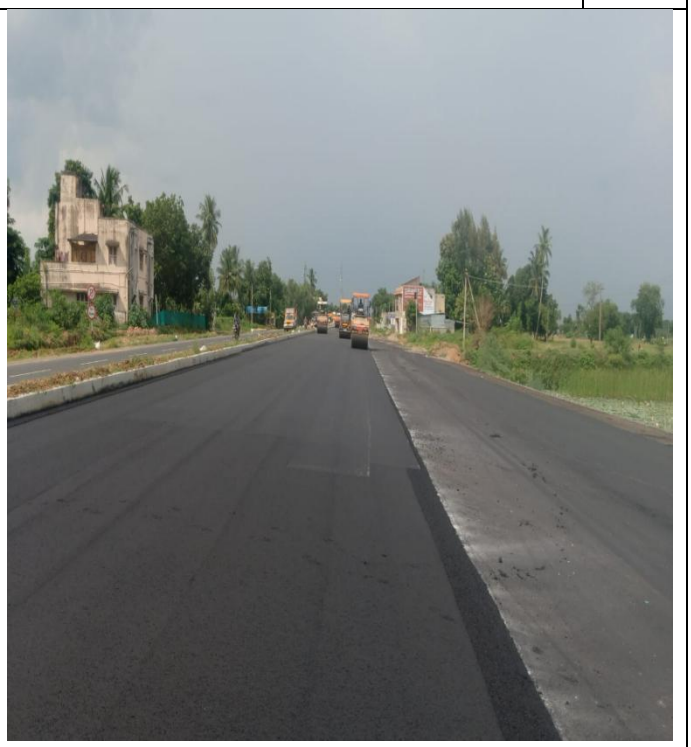
Sl.No	Description	Location	Side
9	DBM Laying work in Progress	105+860	RHS





Sl.No	Description	Location	Side
10	BC Laying work in Progress	74+440	LHS
11	BC Laying work in Progress	81+120	LHS





Sl.No	Description	Location	Side
12	MNB Approach Slab Work in Progress	91+164	LHS
13	MJB Pedestal Concrete Work in Progress	66+491	RHS

Sl.No	Description	Location	Side
14	Box Segment Launching work in Progress	107+400	LHS

Sl.No	Description	Location	Side
15	MBCB Installation work in progress	83+260	CEN
16	MBCB Installation work in progress	88+800	

Sl.No	Description	Location	Side
17	Avenue Plantation Work in progress	100+650	RHS
18	Road marking Work in progress	88+700	RHS

Sl.No	Description	Location	Side
19	Installation of Sign Boards Work in progress	114+400 to 114+450