

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

JANUARY 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.

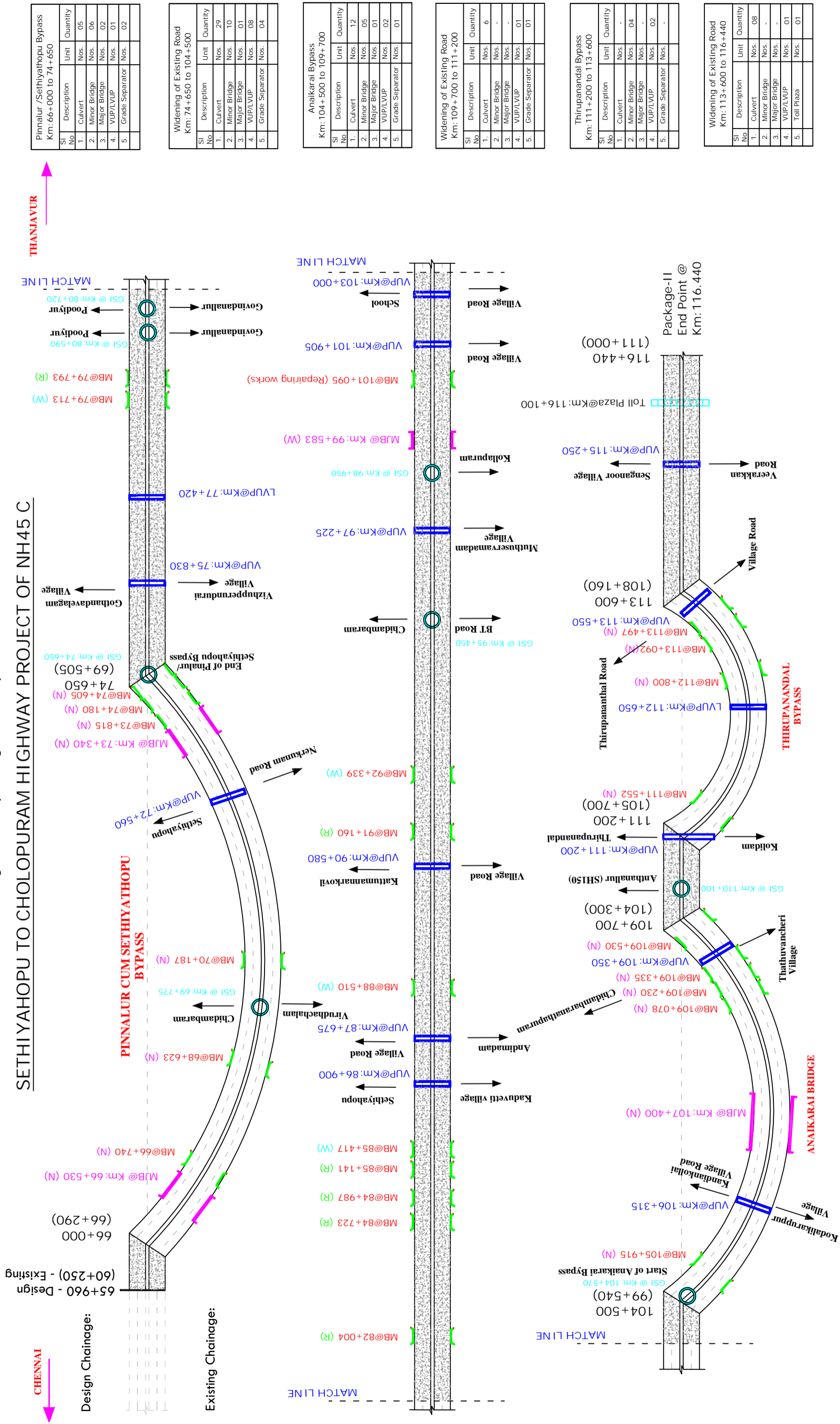
The Sethiyahopu to Cholopuram section of NH-45C is an important link to connect Metropolitan city of Chennai to religious and tourist places of Cholopuram, Thanjavur, kumbakonam, Puducherry. The project is also expected to provide improved connectivity to other religious places & other major cities like 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



LEGEND:

- 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:

SI 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	Nos.	53
6.	Slab Culvert	Nos.	07
7.	Minor Bridge	Nos.	25
8.	Major Bridge	Nos.	04
9.	VUP/LVUP	Nos.	15
10.	Grade Separated Structure	Nos.	08
11.	Minor Intersection	Nos.	100
12.	Major Intersection	Nos.	07
13.	Bus Bays and Shelters	Nos.	09

Drawing Title

Strip Plan - Sethiyahopu to Cholapuram Highway Project

Date: 31-08-2018

Project No. PSCHP/NHA/TN/001

Figure 1: Project Location Map

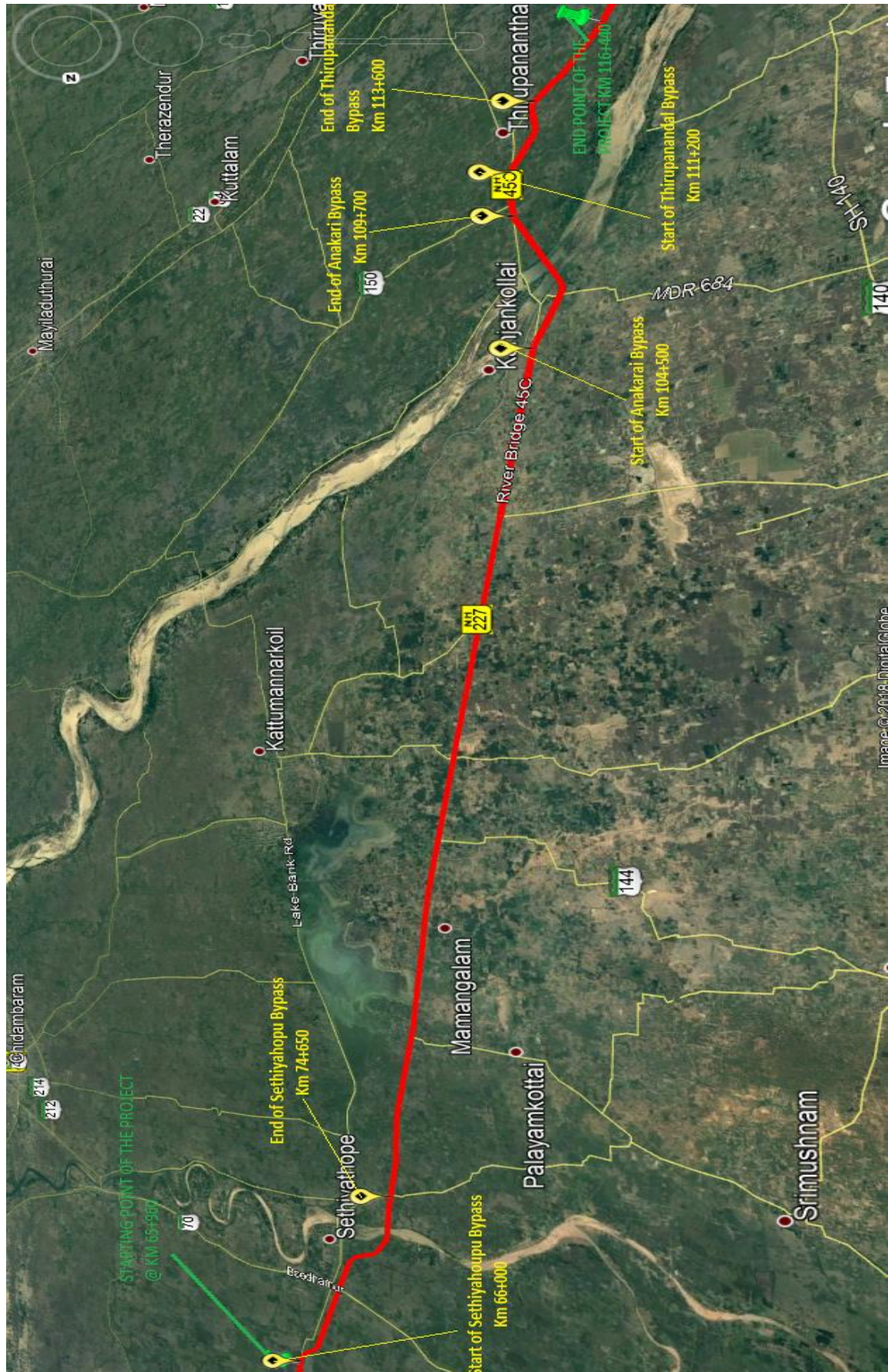


Table - 1.1: Details of Project Alignments

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, 1st 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
Revised Completion Date as per IEOT of (257 D + 180 D) 437 days	25.10.2021
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 214 th day from the Appointed Date.	18 th 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 334 th day from the Appointed Date.	16 th 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 584 th day from the Appointed Date.	22 nd March 2020
Scheduled Completion	Concessionaire shall have completed Project on 730 th day from the Appointed Date.	15 th August 2020

Note: PD NHA1 has recommended the PCOD proposal for the 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 NHA1. 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.)	31.6%	
2	Completion of 35.940 Kms (i.e. 28.345 Kms + 7.595 Kms) by 30.11.2021	72.25% (1055.57 Crore)	36.546%	
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)	Remarks
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	11.490	
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	33.61	
C)	Total Project Length (both Side)	Km	100.96	
D)	% Hindered Length	%	33.29%	

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.:

S. No	Chainage		Length (km)	Net Affected Length (Km)	Side	Remarks
	From	To				
1	66.100	66.260	0.16	0.16	BHS	Obstruction of Veeranam Pipe Line
2	72.550	72.560	0.01	0.01	BHS	Land handed over on Appointed date but hindered due to disputes in compensation disbursement protests by Landowners
3	77.050	77.220	0.17	0.085	LHS	Land handed over on Appointed date but hindered due to disputes in compensation disbursement protests by Landowners
4	80.100	81.150	1.05	1.05	BHS	RE Wall Location: Fully buildup area, payment made to all owners and not accepting to vacate. Need police force and requested DRO in this regards.
5	82.050	82.150	0.10	0.10	BHS	Shifting of Sluice. Estimate awaited from PWD
6	83.400	84.280	0.88	0.88	BHS	Land handed over on Appointed date but hindered due to disputes in compensation disbursement protests by Landowners
7	85.800	86.200	0.40	0.40	BHS	Land handed over on Appointed date but hindered due to disputes in compensation disbursement protests by Landowners
8	86.400	86.560	0.16	0.16	BHS	Land handed over on Appointed date but hindered due to disputes in compensation disbursement protests by Landowners
9	87.500	88.200	0.70	0.70	BHS	RE Wall Location: - Diversion ProblemsRHS - 01 unauthorised building, 01 Temple,.LHS - Electric Lines to be removed.
10	95.050	95.850	0.80	0.80	BHS	RE Wall Location: RHS - Police station arch, House compound wall, 01 building, 01 Temple, LHS - School compound wall, 02 building under revaluation, 01 trees and 14 nos of commercial building(shops) & EB poles to be removed.
11	98.500	99.400	0.90	0.90	BHS	RE Wall Location: RHS - 01 transformer, 01 Temple, 02 unpaid building, 07 shops to be removed. EB lines to be removed.LHS - 02 building compound wall, school compound wall, 02 shops to be removed.
12	113.600	113.850	0.25	0.25	BHS	Pending Disbursement
13	114.400	114.650	0.25	0.25	BHS	Pending Disbursement
Total Hindrances (in Km)			5.745			

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	Agriculture 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					
		Building	77+100	77+300				

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
			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					
		Flag Poles	80+530	80+570	Flag Poles			6nos
			80+710		Existing Culvert			

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
		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
			83+615		Temple			
		EB, Transformer	83+850					
			83+890		Flag Poles			4 nos
















Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
			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			
			86+720		Flag Pole			
			87+500	88+000	Buildings & Huts			
			87+690		Temple			
			87+835		Water Tank			

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
			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			
		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		

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	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			
	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			

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
		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					
	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					

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
		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					
		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

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.

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	

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.

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

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 January 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	40.62	0.00	40.62	0	6.66	85.91%
	RHS	47.28	39.53	0.00	39.53	0	7.75	83.61%
2	Embankment							
	LHS	47.28	25.61	0.00	25.61	3.13	21.67	54.17%
	RHS	47.28	20.665	0.00	20.665	5.54	26.615	43.71%
3	Sub grade							
	LHS	47.28	24.16	0.00	24.16	0.80	23.12	51.10%
	RHS	47.28	19.87	0.12	19.99	0.40	27.29	42.28%
4	GSB/ Cement Treated Base							
	LHS	47.28	19.07	0.16	19.23	2.14	28.05	40.67%
	RHS	47.28	16.07	0.00	16.07	2.75	31.21	33.99%
5	Wet Mix Macadam							
	LHS	47.28	18.25	0.14	18.39	0	28.89	38.90%
	RHS	47.28	14.05	0.48	14.53	0	32.75	30.73%
6	Dense Bitumen Macadam							
	LHS	47.28	16.91	0.33	17.24	0	30.04	36.46%
	RHS	47.28	13.86	0.40	14.26	0	33.02	30.16%
7	Bituminous Concrete							
	LHS	47.28	0.00	0.00	0.00	0.00	47.28	0.00%
	RHS	47.28	0.00	0.00	0.00	0.00	47.28	0.00%

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	6.80	1.46	8.26	2.81	44.93	15.53%
2	Sub grade	53.19	4.91	0.42	5.33	1.29	47.86	10.02%
3	GSB/ Cement Treated Base	53.19	2.47	0.63	3.10	0.35	50.09	5.83%
4	Wet Mix Macadam	53.19	1.62	1.30	2.92	0	50.27	5.49%
5	Dense Bitumen Macadam	53.19	1.00	1.87	2.87	0	50.32	5.40%
6	Bituminous Concrete	53.19	0	0	0	0	53.19	0.00%

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	27	14	19
2	Light Vehicular Underpass	2	1	0	1
3	Vehicular Underpass	13	4	8	1
4	Minor Bridges	25	10.5	10.5	4
5	Major Bridge	4	0	4	0
6	Flyover	8	2.5	4.5	1

The Physical Progress of the Project up to January 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%	33.300	4.733%
	(2) Granular work (sub-base, base, shoulders)					
	(a) GSB/ Cement Treated Base	Km	65.52	3.373%	29.790	1.534%
	(b) WMM/ Cement Treated Base	Km	65.52	4.046%	28.990	1.790%
	(3) Shoulders	Km	17.65	0.112%		
	(4) Bituminous work					
	(a) DBM	Km	65.52	3.344%	28.020	1.430%
	(b) BC	Km	65.52	3.023%		
	(5) Rigid Pavement					
	(6) Widening and repair of culverts	Nos.	16	0.440%	4.50	0.124%
	(7) Widening and repair of minor bridges	Nos.	4	0.959%	2.50	0.599%
	B- New realignment/bypass					
	(1) Earthwork up to top of the sub-grade	Km	28.68	6.437%	10.85	2.435%
	(2) Granular work (sub-base, base, shoulders)					
	(a) GSB/ Cement Treated Base	Km	28.68	1.615%	5.505	0.310%
	(b) WMM/ Cement Treated Base	Km	28.68	1.436%	3.930	0.197%
	(3) Shoulders	Km	24.63	0.112%		
	(4) Bituminous work					
	(a) DBM	Km	28.68	1.279%	3.480	0.155%
	(b) BC	Km	28.68	1.158%		
	(5) Rigid Pavement					
	C- New culverts, minor bridges, underpasses, overpasses on existing road, realignments, bypasses:					
	(1) Culverts	Nos.	44	2.070%	22.50	1.059%
	(2) Minor bridges					

MPR JANUARY 2021

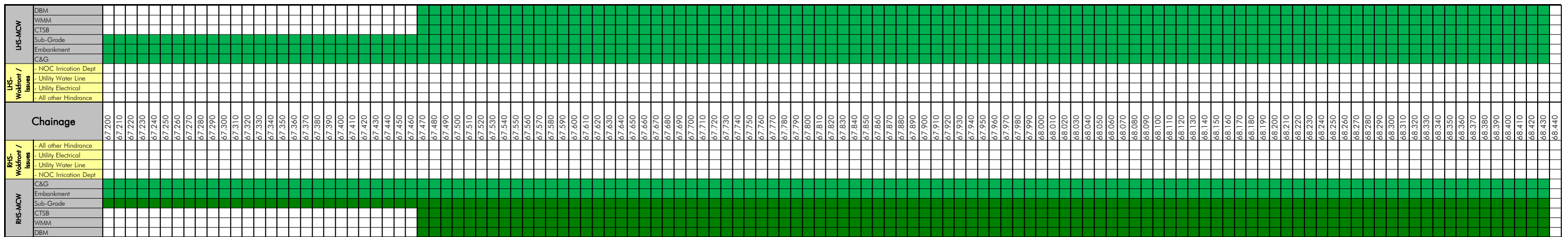
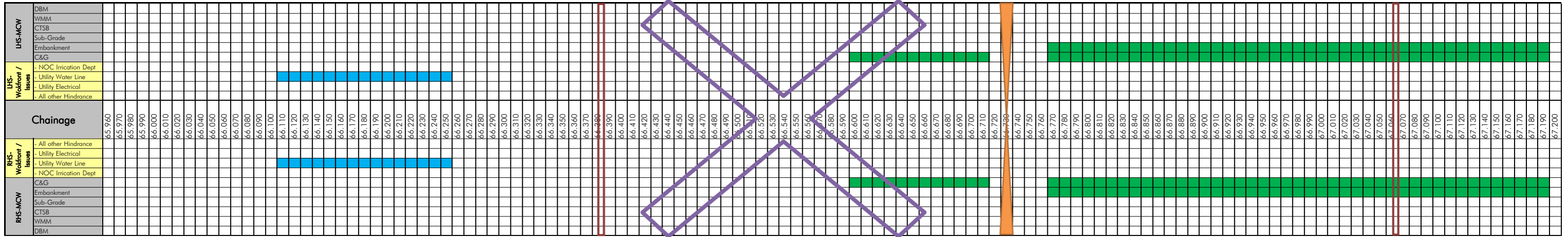
	(a) Foundation	Nos.	58	3.953%	34.00	2.317%
	(b) Substructure	Nos.	134	2.623%	83.00	1.625%
	(c) Superstructure (including crash barrier etc. complete)	Nos.	50	1.559%	26.00	0.811%
	(3) Cattle/Pedestrian underpasses					
	(a) Foundation	Nos.				
	(b) Substructure	Nos.				
	(c) Superstructure (including 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%	42.00	1.931%
	(ii) Substructure	Nos.	60	0.751%	41.00	0.513%
	(iii) Superstructure (including crash barrier etc. complete)	Nos.	30	1.289%	10.00	0.430%
	(b) Overpass					
	(i) Foundation					
	(ii) Substructure					
	(iii) Superstructure (including crash barrier etc. complete)					
	(c) Flyover					
	(i) Foundation	Nos.	36	2.426%	27.00	1.819%
	(ii) Substructure	Nos.	36	0.470%	25.00	0.327%
	(iii) Superstructure (including crash barrier etc. complete)	Nos.	20	1.244%	6.00	0.373%
	(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%	53.00	6.120%
	(2) Sub-structure	Nos.	84	4.576%	41.00	2.233%
	(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%	326.00	0.710%
	(b) Erection of Superstructure (Box Segment)	Nos.	666	1.050%	10.00	0.016%
	(i) For other Major Bridges					
	(a) Super-structure (including crash barriers etc. complete)	Nos.	37	2.500%		
	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%	47734.96	1.852%
Other Works	(i) Service roads/ Slip Roads	Km	53.19	4.690%		

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

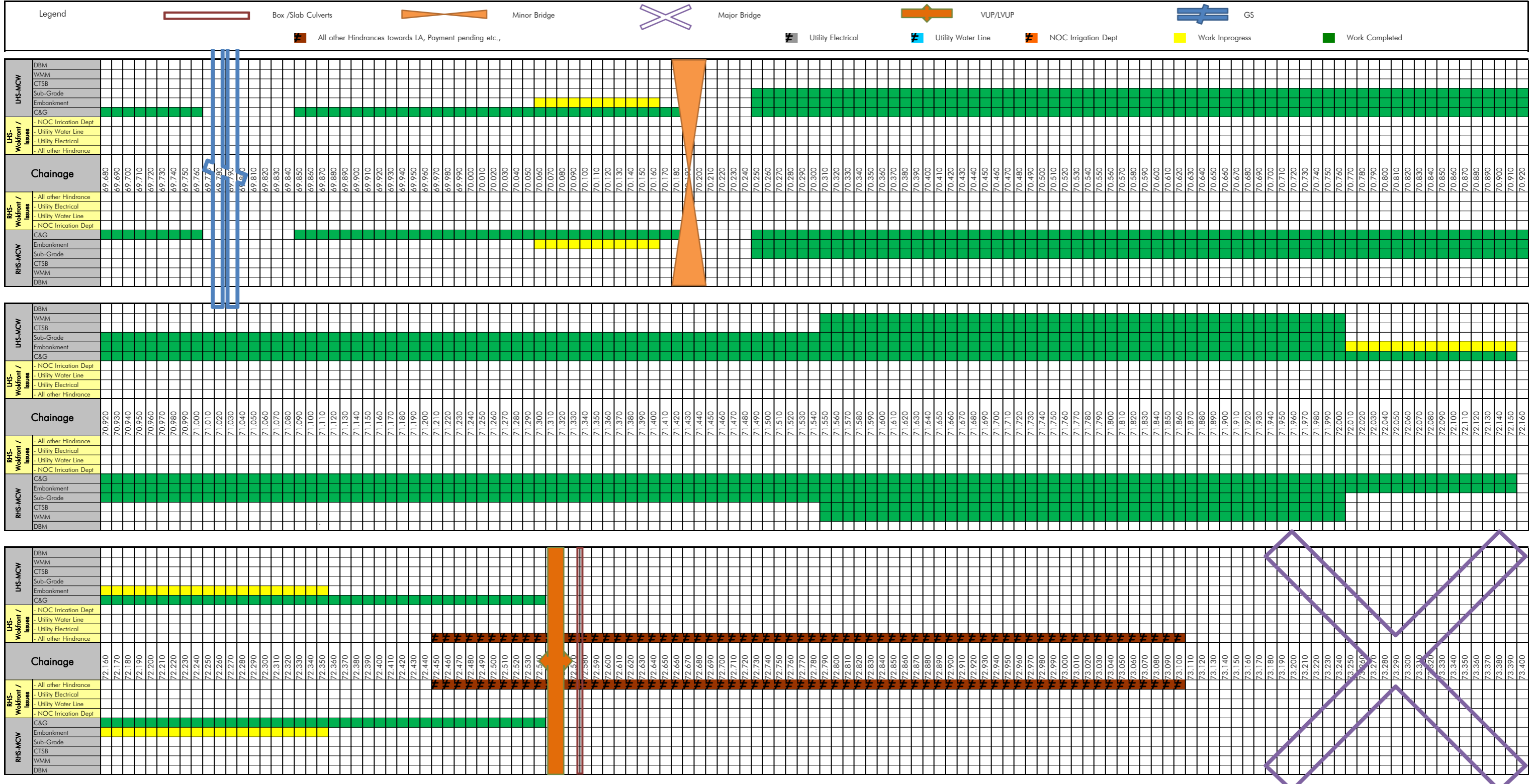
Strip Plan for MCW on 31-01-2021



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

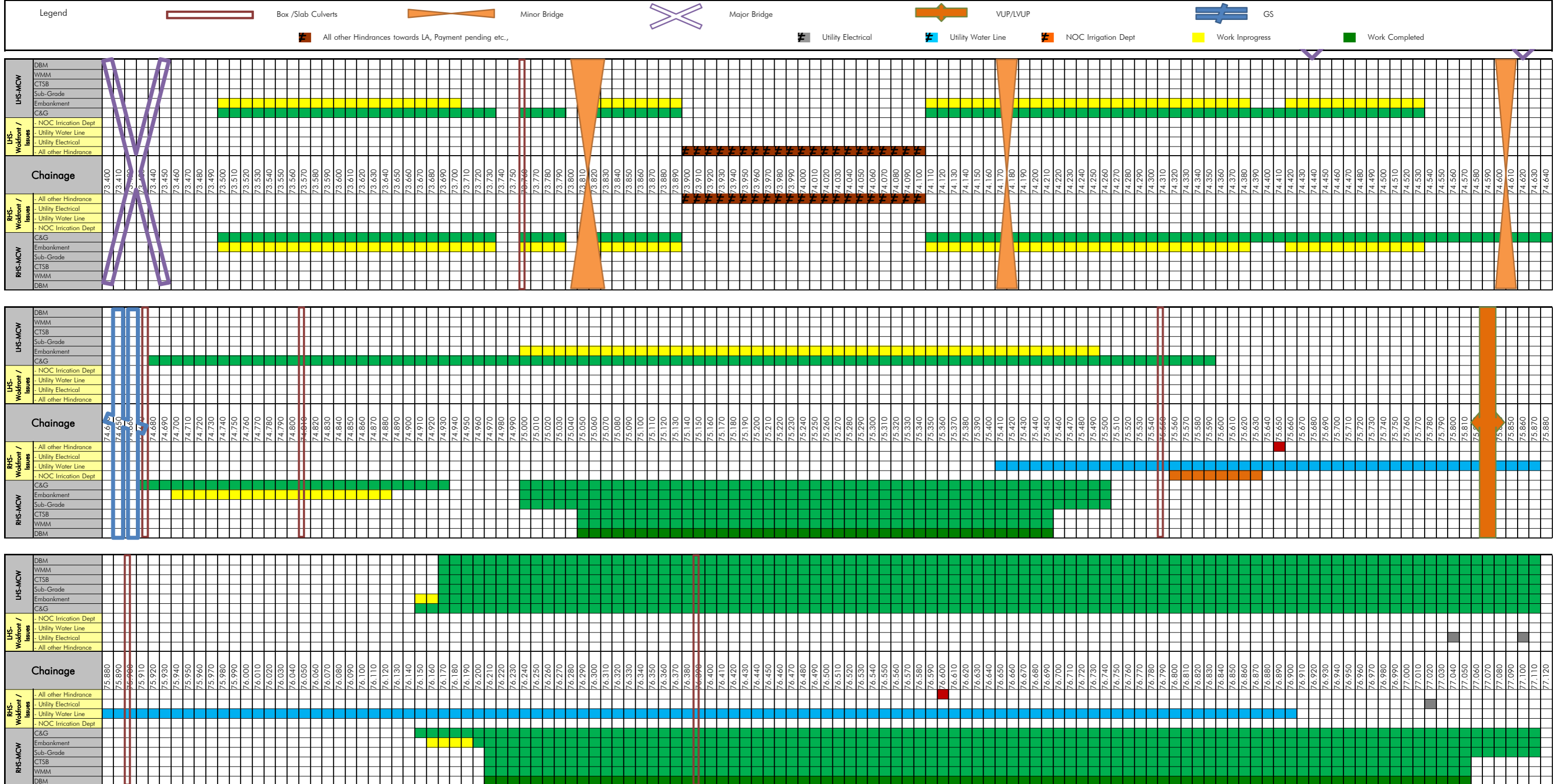
Strip Plan for MCW on 31-01-2021



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

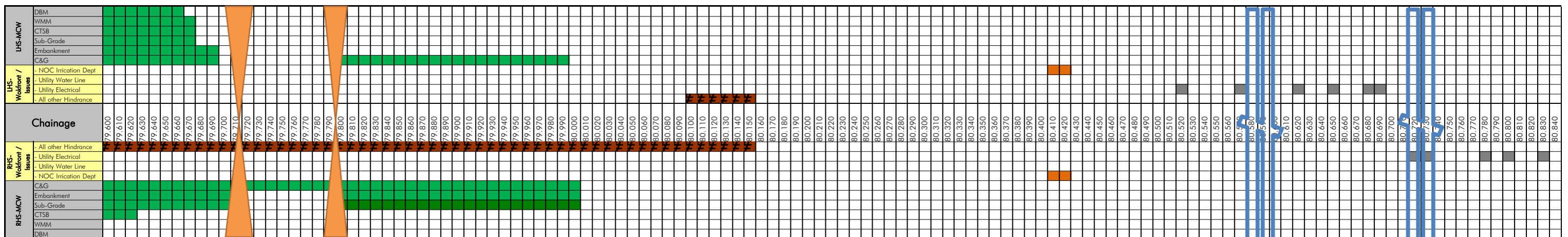
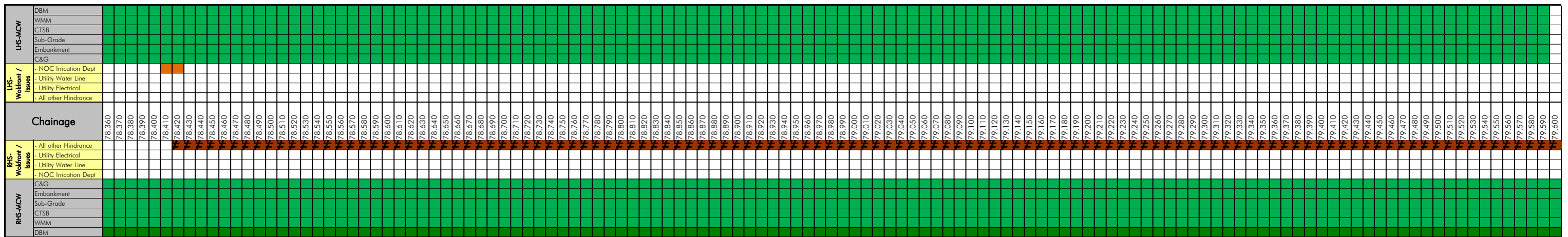
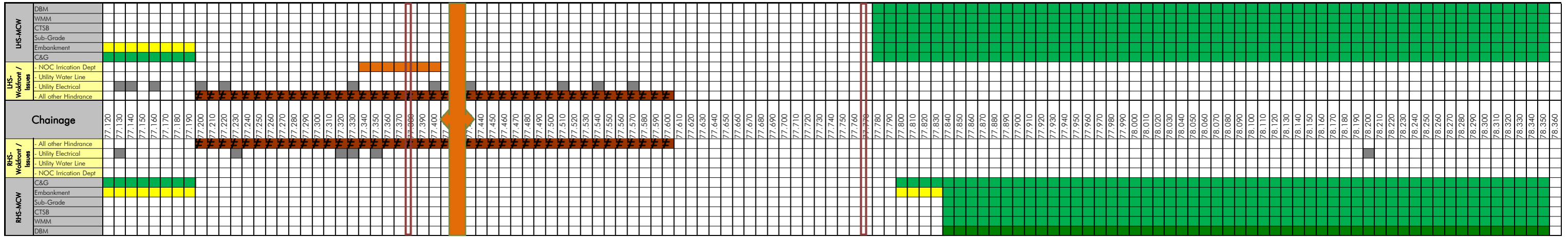
Strip Plan for MCW on 31-01-2021



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

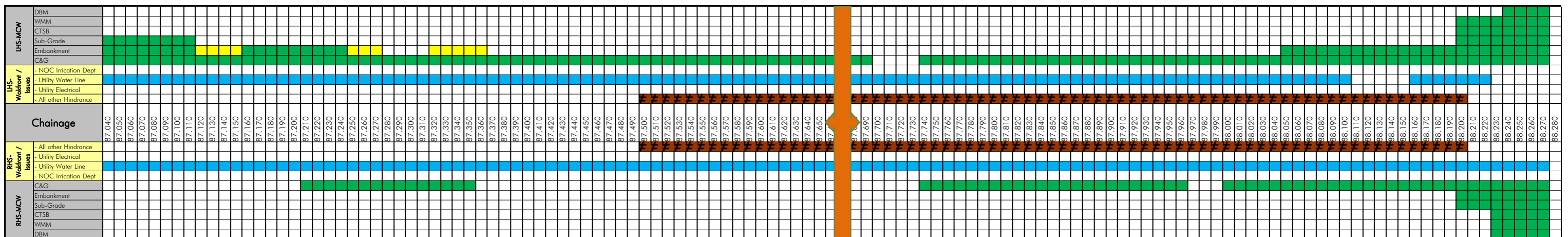
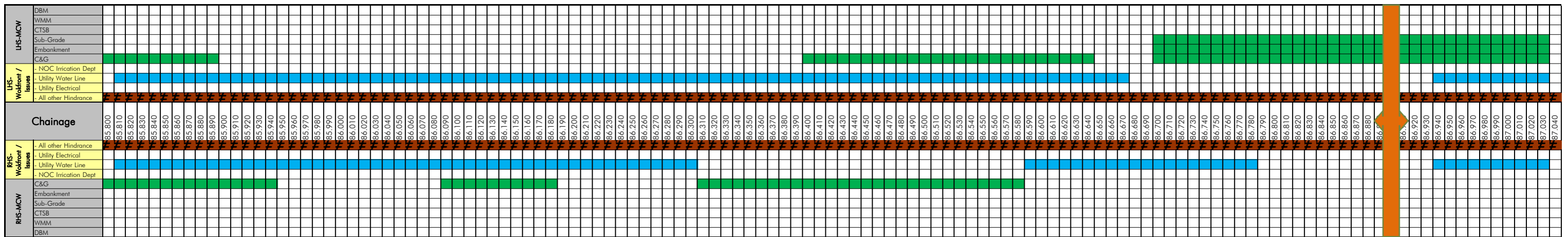
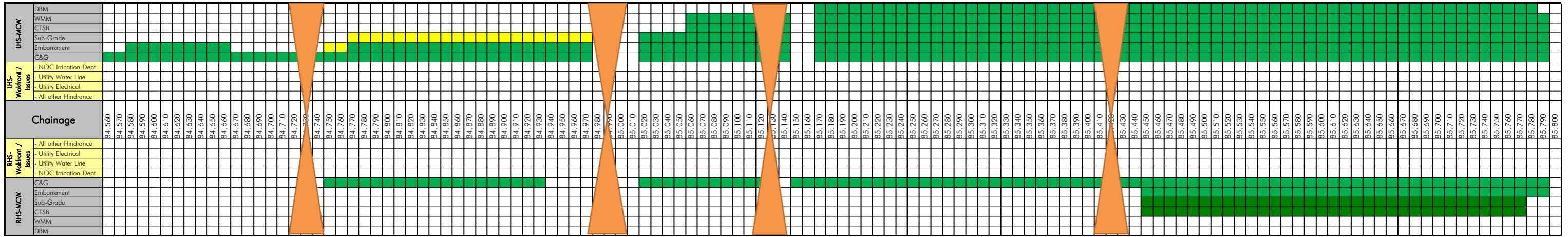
Strip Plan for MCW on 31-01-2021



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

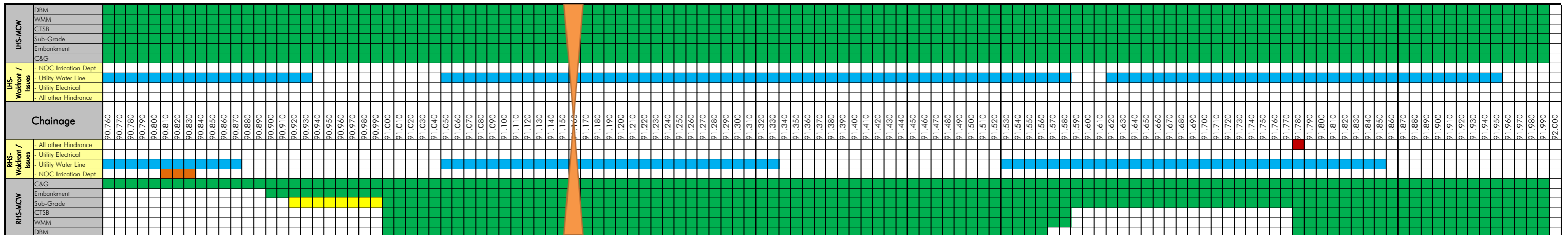
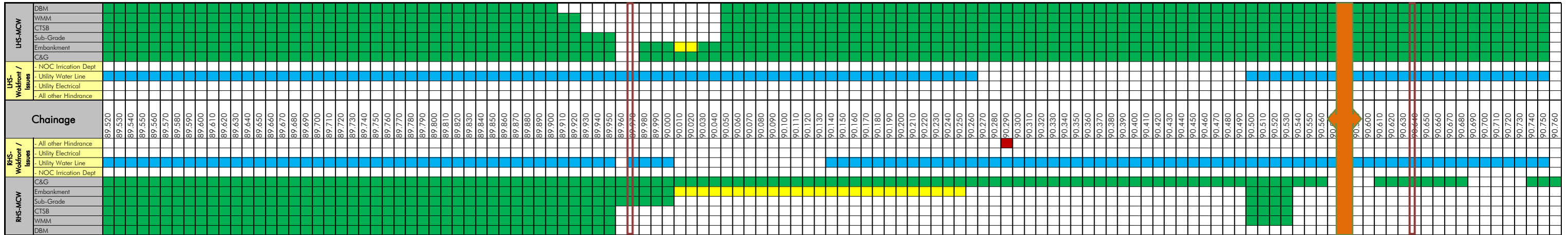
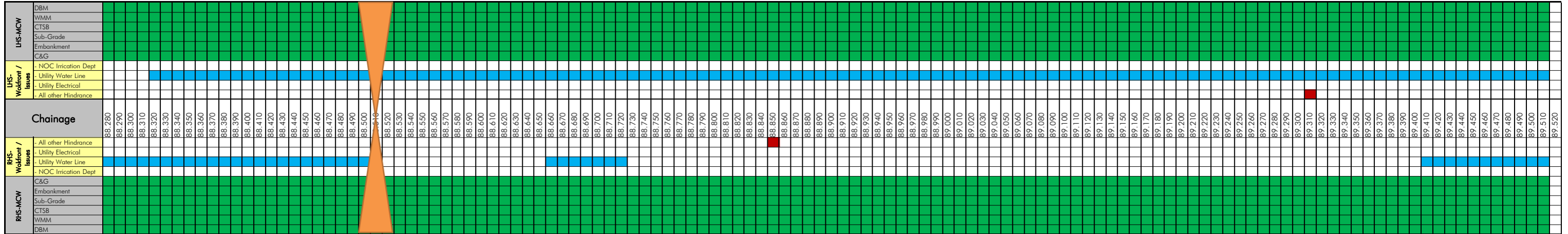
Strip Plan for MCW on 31-01-2021



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

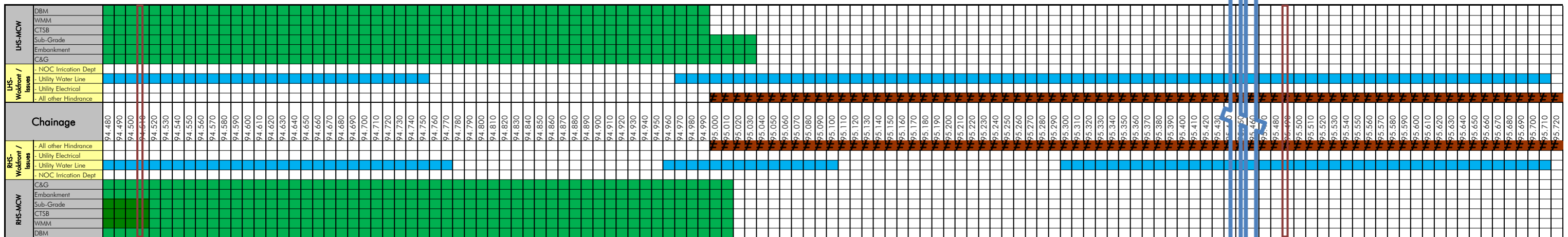
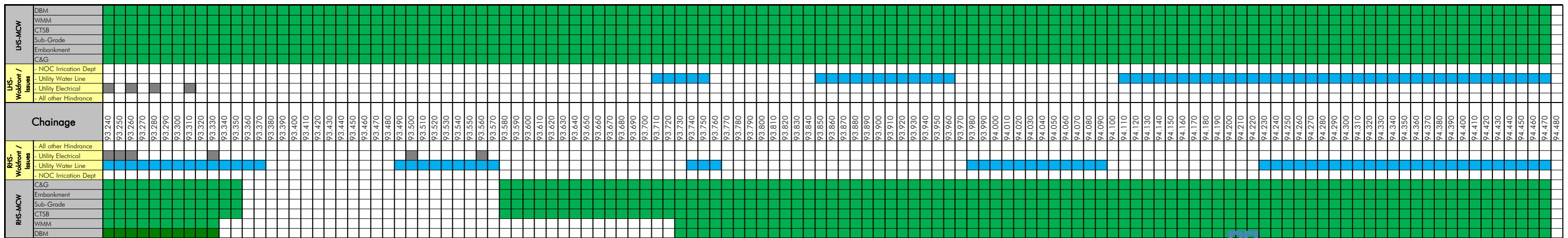
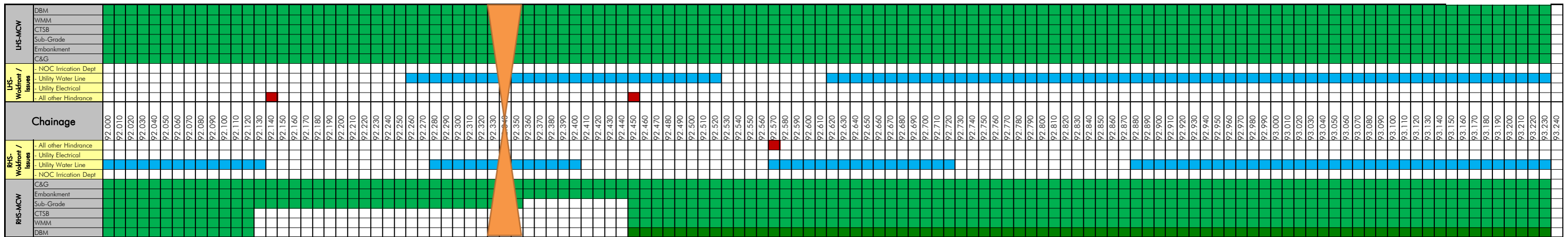
Strip Plan for MCW on 31-01-2021



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

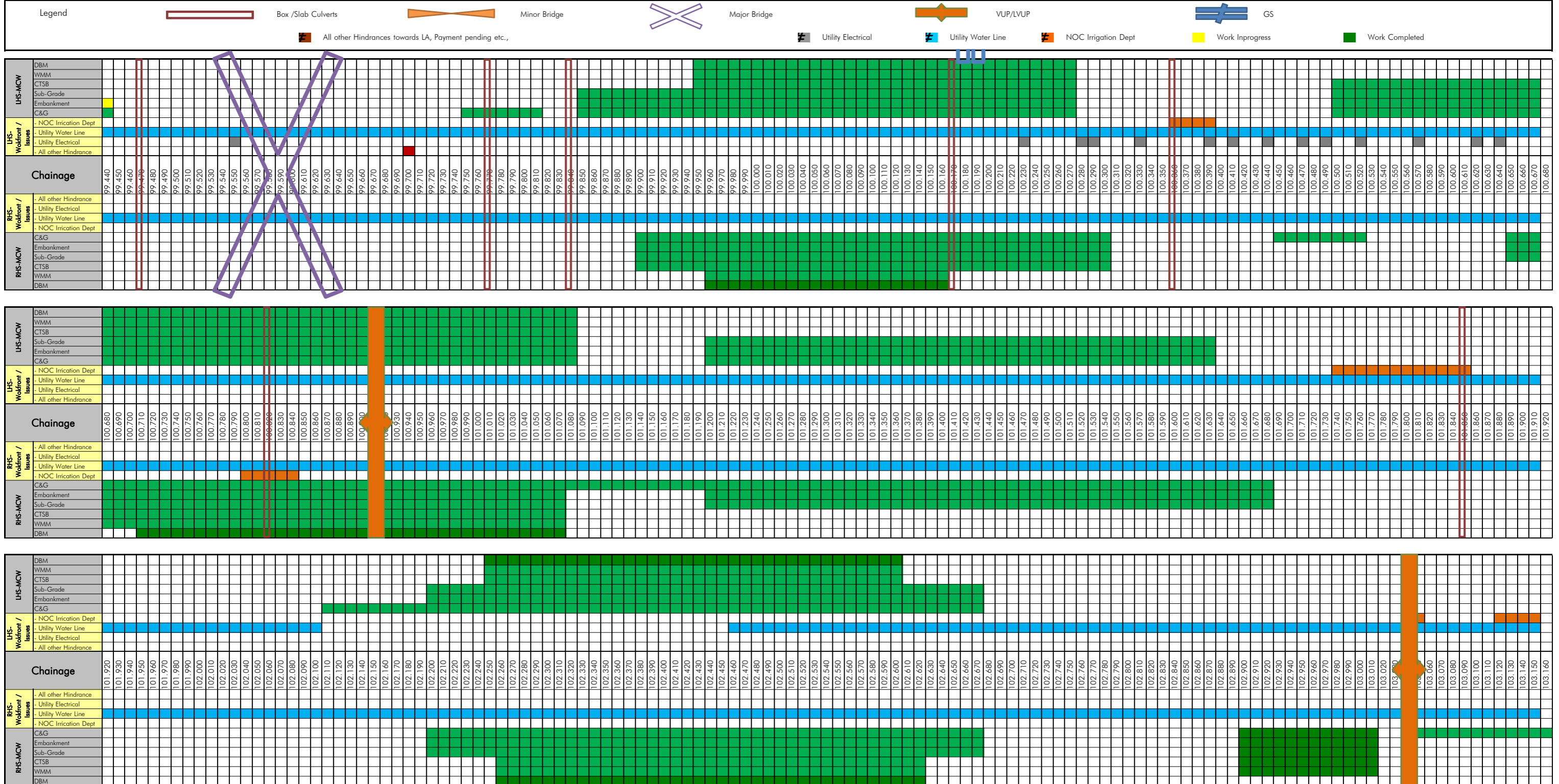
Strip Plan for MCW on 31-01-2021



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

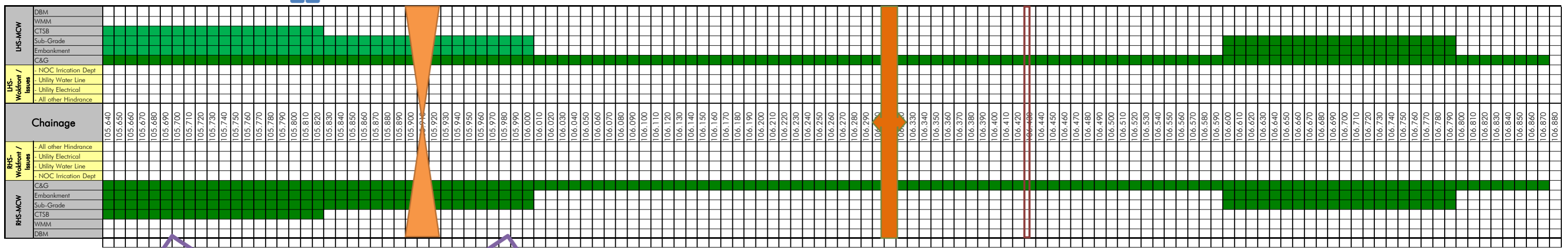
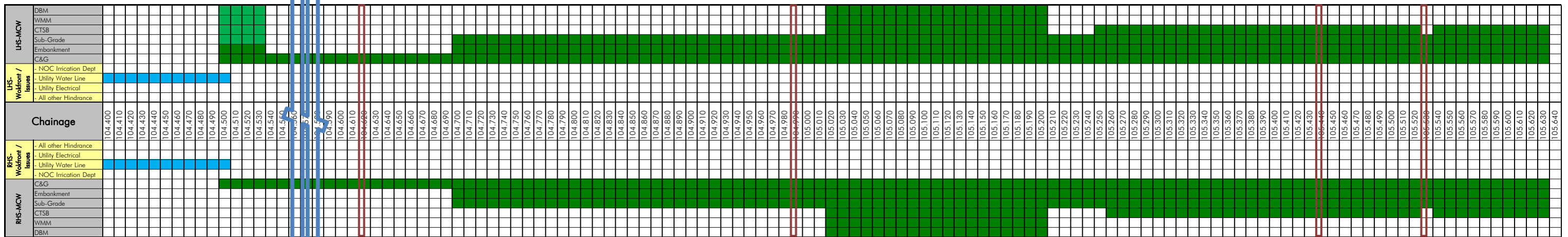
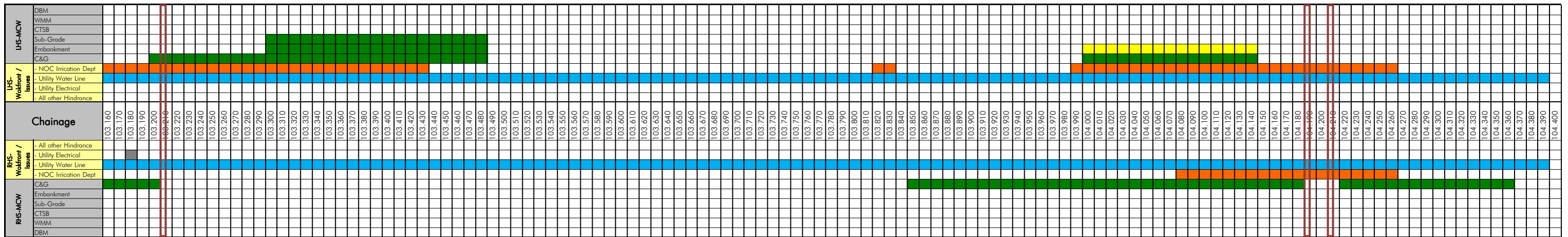
Strip Plan for MCW on 31-01-2021



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

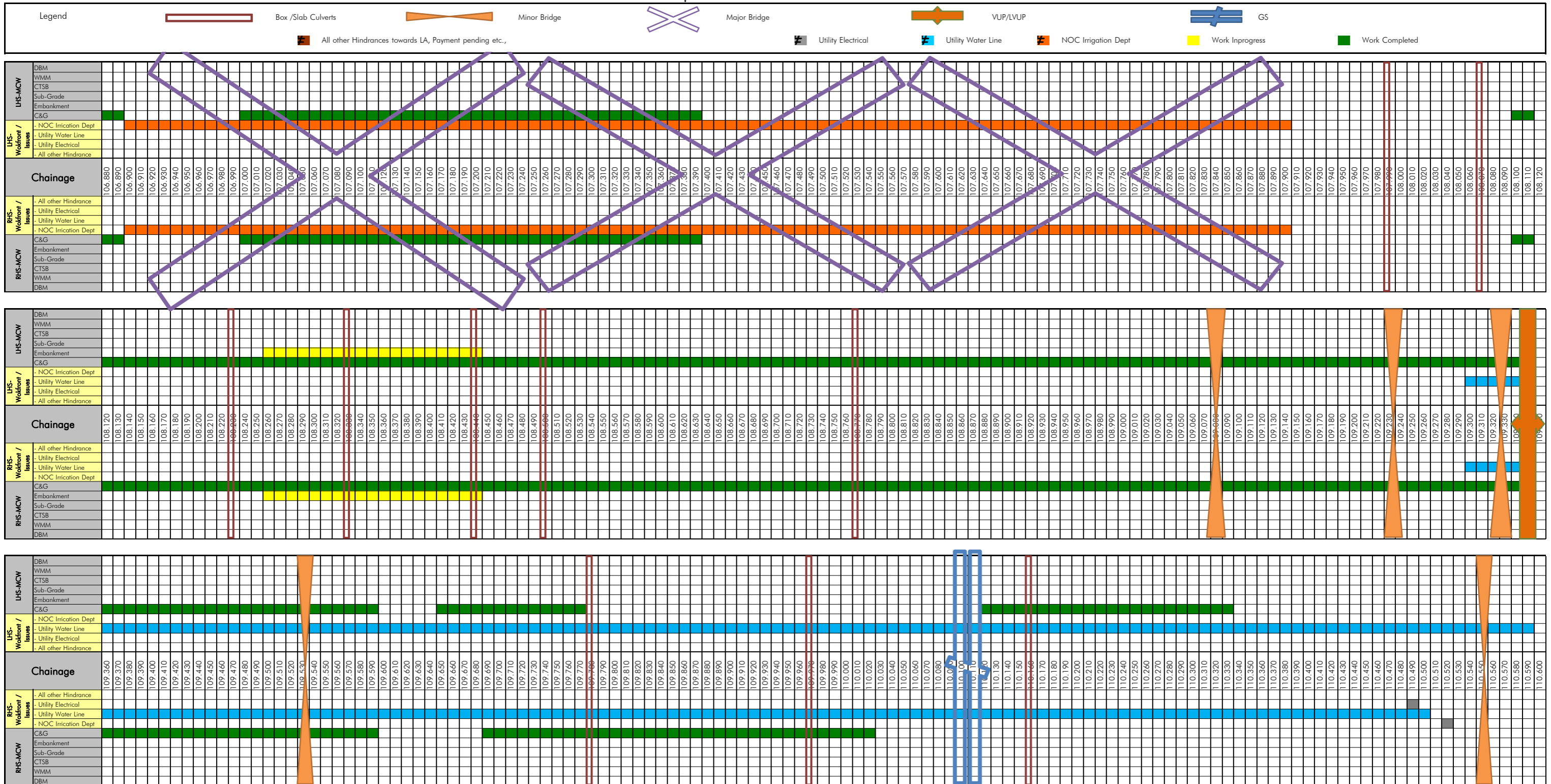
Strip Plan for MCW on 31-01-2021



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

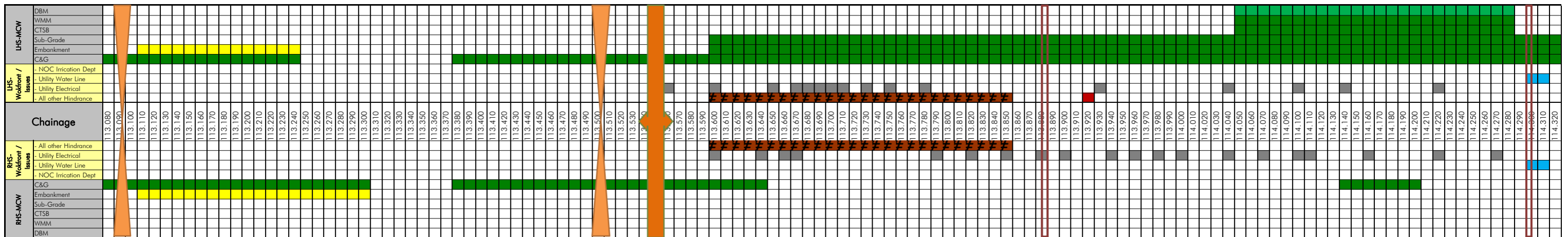
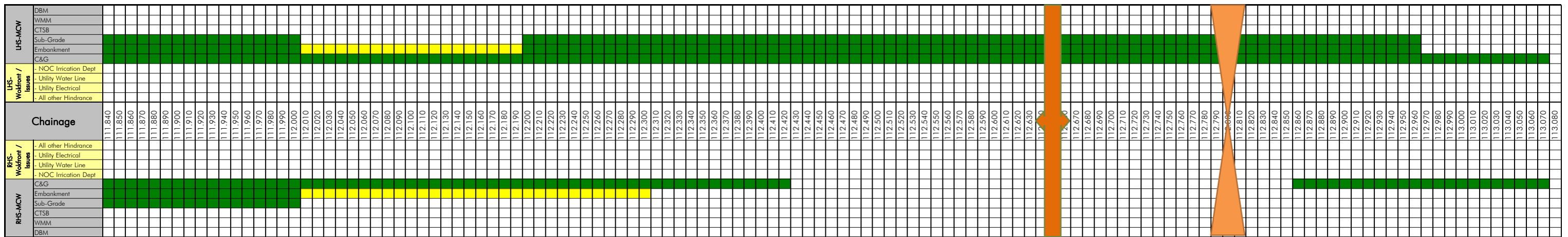
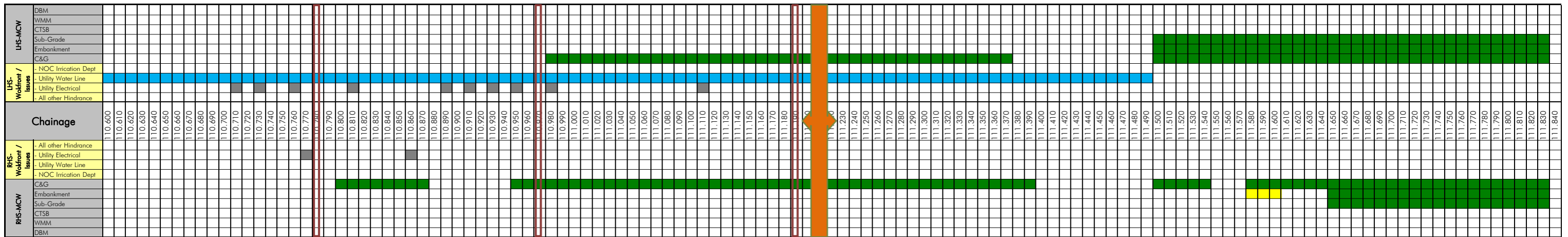
Strip Plan for MCW on 31-01-2021



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

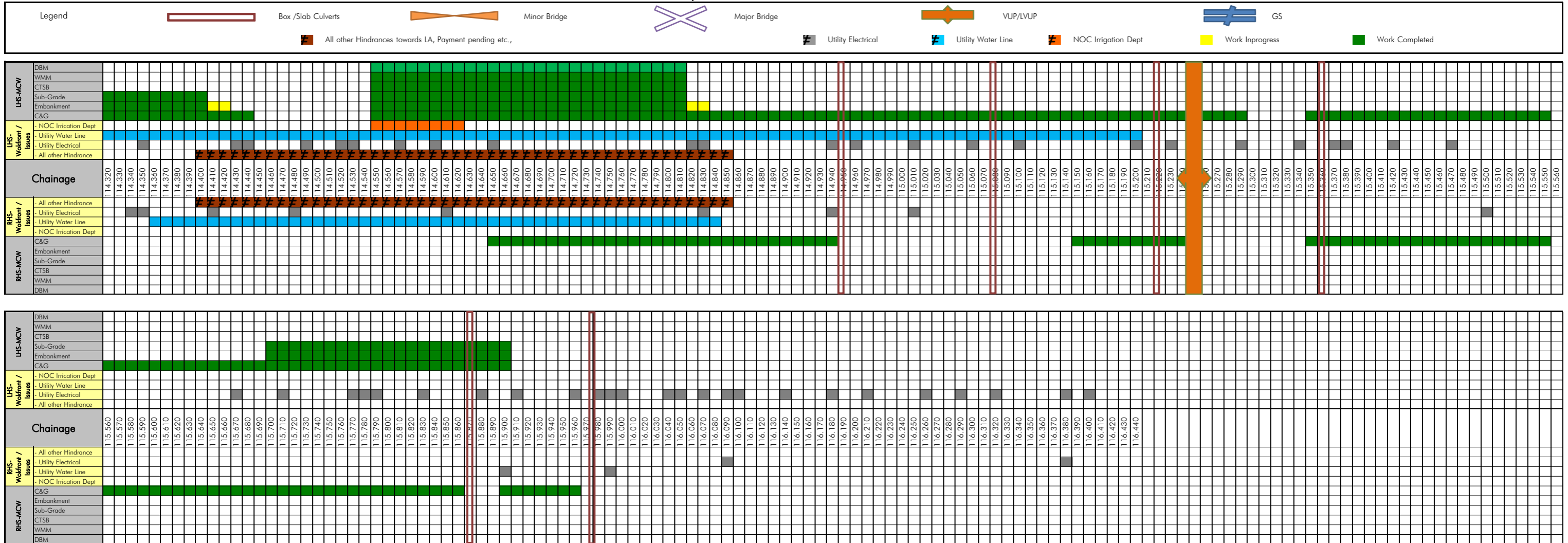
Strip Plan for MCW on 31-01-2021



Four Lining 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 31-01-2021



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 31.01.2021

Legend

Work Front Available	Box /Slab Culverts	LA Pending	Payment Pending	Hindrance Buildings	Temple/Bus Stand	Utility Electrical	Utility Water Line	NOC Irrigation Dept	Work Inprogress	Work Completed	
Major Bridge	VUP/LVUP	GS									

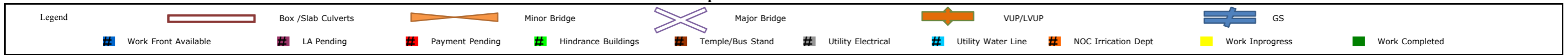
LRS-MCW	DBM	WMM	CTS	Sub-Grade	Embankment	C&G	Chainage	RIS-MCW	DBM	WMM	CTS	Sub-Grade	Embankment	C&G
							69.460							
							69.470							
							69.480							
							69.490							
							69.500							
							69.510							
							69.520							
							69.530							
							69.540							
							69.550							
							69.560							
							69.570							
							69.580							
							69.590							
							69.600							
							69.610							
							69.620							
							69.630							
							69.640							
							69.650							
							69.660							
							69.670							
							69.680							
							69.690							
							69.700							
							69.710							
							69.720							
							69.730							
							69.740							
							69.750							
							69.760							
							69.770							
							69.780							
							69.790							
							69.800							
							69.810							
							69.820							
							69.830							
							69.840							
							69.850							
							69.860							
							69.870							
							69.880							
							69.890							
							69.900							
							69.910							
							69.920							
							69.930							
							69.940							
							69.950							
							69.960							
							69.970							
							69.980							
							69.990							
							70.000							
							70.010							
							70.020							
							70.030							
							70.040							
							70.050							
							70.060							
							70.070							
							70.080							
							70.090							
							72.360							
							72.370							
							72.380							
							72.390							
							72.400							
							72.410							
							72.420							
							72.430							
							72.440							
							72.450							
							72.460							
							72.470							
							72.480							
							72.490							
							72.500							
							72.510							
							72.520							
							72.530							
							72.540							
							72.550							
							72.560							
							72.570							
							72.580							
							72.590							
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							72.640							
							72.650							
							72.660							
							72.670							
							72.680							
							72.690							
							72.700							
							72.710							
							72.720							
							72.730							
							72.740							
							72.750							
							72.760							
							72.770							
							72.780							
							72.790							

LRS-MCW	DBM	WMM	CTS	Sub-Grade	Embankment	C&G	Chainage	RIS-MCW	DBM	WMM	CTS	Sub-Grade	Embankment	C&G
							74.330							
							74.340							
							74.350							
							74.360							
							74.370							
							74.380							
							74.390							
							74.400							
							74.410							
							74.420							
							74.430							
							74.440							
							74.450							
							74.460							
							74.470							
							74.480							
							74.490							
							74.500							
							74.510							
							74.520							
							74.530							
							74.540							
							74.550							
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							74.580							
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							74.600							
							74.610							
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							74.640							
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							74.660							
							74.670							
							74.680							
							74.690							
							74.700							
							74.710							
							74.720							
							74.730							
							74.740							
							74.750							
							74.760							
							74.770							
							74.780							
							74.790							
							74.800							
							74.810							
							74.820							

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 31.01.2021



LRS-MCW	Chainage	LRS-MCW				
		DBM	WMM	CTS	Sub-Grade	Embankment
	96.910					
	96.920					
	96.930					
	96.940					
	96.950					
	96.960					
	96.970					
	96.980					
	96.990					
	97.000					
	97.010					
	97.020					
	97.030					
	97.040					
	97.050					
	97.060					
	97.070					
	97.080					
	97.090					
	97.100					
	97.110					
	97.120					
	97.130					
	97.140					
	97.150					
	97.160					
	97.170					
	97.180					
	97.190					
	97.200					
	97.210					
	97.220					
	97.230					
	97.240					
	97.250					
	97.260					
	97.270					
	97.280					
	97.290					
	97.300					
	97.310					
	97.320					
	97.330					
	97.340					
	97.350					
	97.360					
	97.370					
	97.380					
	97.390					
	97.400					
	97.410					
	97.420					
	97.430					
	97.440					
	97.450					
	97.460					
	97.470					
	97.480					
	97.490					
	97.500					
	97.510					
	97.520					
	97.530					
	97.540					
	97.550					
	97.560					
	97.570					
	97.580					
	97.590					
	97.600					
	97.610					
	97.620					
	97.630					
	97.640					
	97.650					
	97.660					
	97.670					
	97.680					
	97.690					
	97.700					
	97.710					
	97.720					
	97.730					
	97.740					
	97.750					
	97.760					
	97.770					
	97.780					
	97.790					
	97.800					
	97.810					
	97.820					
	97.830					
	97.840					
	97.850					
	97.860					
	97.870					
	97.880					
	97.890					
	97.900					
	97.910					
	97.920					
	97.930					
	97.940					
	97.950					
	97.960					
	97.970					
	97.980					
	97.990					
	98.000					
	98.010					
	98.020					
	98.030					
	98.040					
	98.050					
	98.060					
	98.070					
	98.080					
	98.090					
	98.100					
	98.110					
	98.120					
	98.130					
	98.140					
	98.150					
	98.160					
	98.170					
	98.180					
	98.190					
	98.200					
	98.210					
	98.220					
	98.230					
	98.240					
	98.250					
	98.260					
	98.270					
	98.280					
	98.290					
	98.300					
	98.310					
	98.320					
	98.330					
	98.340					
	98.350					
	98.360					
	98.370					
	98.380					
	98.390					
	98.400					
	98.410					
	98.420					
	98.430					
	98.440					
	98.450					
	98.460					
	98.470					
	98.480					
	98.490					
	98.500					
	98.510					
	98.520					
	98.530					
	98.540					
	98.550					
	98.560					
	98.570					
	98.580					
	98.590					
	98.600					
	98.610					
	98.620					
	98.630					
	98.640					
	98.650					
	98.660					
	98.670					
	98.680					
	98.690					
	98.700					
	98.710					
	98.720					
	98.730					
	98.740					
	98.750					
	98.760					
	98.770					
	98.780					
	98.790					
	98.800					
	98.810					
	98.820					
	98.830					
	98.840					
	98.850					
	98.860					
	98.870					
	98.880					
	98.890					
	98.900					
	98.910					
	98.920					
	98.930					
	98.940					
	98.950					
	98.960					
	98.970					
	98.980					
	98.990					
	99.000					
	99.010					
	99.020					
	99.030					
	99.040					
	99.050					
	99.060					
	99.070					

LRS-MCW	Chainage	LRS-MCW				
		DBM	WMM	CTS	Sub-Grade	Embankment
	99.080					
	99.090					
	99.100					
	99.110					
	99.120					
	99.130					
	99.140					
	99.150					
	99.160					
	99.170					
	99.180					
	99.190					
	99.200					
	99.210					
	99.220					
	99.230					
	99.240					
	99.250					
	99.260					
	99.270					
	99.280					
	99.290					
	99.300					
	99.310					
	99.320					
	99.330					
	99.340					
	99.350					
	99.360					
	99.370					
	99.380					
	99.390					
	99.400					
	99.410					
	99.420					
	99.430					
	99.440					
	99.450					
	99.460					
	99.470					
	99.480					
	99.490					
	99.500					
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	99.520					
	99.530					
	99.540					
	99.550					
	99.560					
	99.570					
	99.580					
	99.590					
	99.600					
	99.610					
	99.620					
	99.630					
	99.640					
	99.650					
	99.660					
	99.670					
	99.680					
	99.690					
	99.700					
	99.710					
	99.720					
	99.730					
	99.740					
	99.750					
	99.760					
	99.770					
	99.780					
	99.790					
	99.800					
	99.810					

SETHIAHOPU CHOLOPURAM PROJECT - STATUS OF BOX CULVERTS ON EXISTING ROAD - MCW							Completed	In Progress													
Status Upto	31.01.2021						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	Slab	Wall	Raft	PCC	Granular Filling	Excavation	Excavation	Granular Filling	PCC	Raft	Wall	Slab	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+766	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+795	110.785	EXISTING	1 x 1.2m x 2.0m	Repair & Widening	BOX CULVERT															
34	110+980	110.971	EXISTING	1 x 1.5m x 2.0m	Repair & Reconstruction	BOX CULVERT															
35	113+897	113.885	EXISTING	1 x 1.0m	Repair & Widening	BOX CULVERT															
36	114+313	114.300	EXISTING	1 x 1.0m	Repair & Widening	BOX CULVERT															
37	114+703	114.703	EXISTING			BOX CULVERT															
38	114+954	114.952	EXISTING	1 x 1.0m	Repair & Reconstruction	BOX CULVERT															
39	115+097	115.087	EXISTING	2 x 1.0m	Repair & Reconstruction	BOX CULVERT															
40	115+232	115.221	EXISTING	1 x 2.0m x 2.0m	Repair & Reconstruction	BOX CULVERT															
41	115+381	115.368	EXISTING	1 x 2.0m	Repair & Reconstruction	BOX CULVERT															
42	115+884	115.872	EXISTING	2 x 1.0m	Repair & Widening	BOX CULVERT															
43	115+978	115.978	EXISTING	1 x 2.0m x 2.0m	Repair & Widening	BOX CULVERT															

SETHIAHOPU CHOLOPURAM PROJECT - STATUS OF BOX CULVERTS ON EXISTING ROAD - SERVICE ROAD							Completed							In Progress							
Status Upto	31.01.2021						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	Slab	Wall	Raft	PCC	Granular Filling	Excavation	Excavation	Granular Filling	PCC	Raft	Wall	Slab	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															
6	77+382	77.379	EXISTING	1 x 4.0m	Reconstruction	BOX CULVERT															
7	77+766	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+795	110.785	EXISTING	1 x 1.2m x 2.0m	Repair & Widening	BOX CULVERT															
29	110+980	110.971	EXISTING	1 x 1.5m x 2.0m	Repair & Reconstruction	BOX CULVERT															
30	113+897	113.885	EXISTING	1 x 1.0m	Repair & Widening	PIPE CULVERT															
31	114+313	114.300	EXISTING	1 x 1.0m	Repair & Widening	PIPE CULVERT															
32	114+954	114.952	EXISTING	1 x 1.0m	Repair & Reconstruction	PIPE CULVERT															
33	115+097	115.087	EXISTING	2 x 1.0m	Repair & Reconstruction	PIPE CULVERT															
34	115+232	115.221	EXISTING	1 x 2.0m x 2.0m	Repair & Reconstruction	BOX CULVERT															
35	115+381	115.368	EXISTING	1 x 2.0m	Repair & Reconstruction	BOX CULVERT															
36	115+884	115.872	EXISTING	2 x 1.0m	Repair & Widening	PIPE CULVERT															
37	115+978	115.978	EXISTING	1 x 2.0m x 2.0m	Repair & Widening	BOX CULVERT															

SETHIAHOPU CHOLOPURAM PROJECT - STATUS OF BOX CULVERTS ON BYPASS - MCW						Completed							In Progress							
Status Upto	31.01.2021					LHS							RHS							
Sr. No.	As Approved by IE	Design Chainage As per CA		Number and Length of Spans (m)	Type of Structure	Protection Work	Slab	Wall	Raft	PCC	Granular Filling	Excavation	Excavation	Granular Filling	PCC	Raft	Wall	Slab	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	111+452	111.452	BYPASS		PIPE CULVERT															

SETHIYAHOPU CHOLOPURAM PROJECT - STATUS OF BOX CULVERTS ON BYPASS - SERVICE ROAD						Completed							In Progress							
Status Upto	31.01.2021					LHS							RHS							
Sr. No.	As Approved by IE	Design Chainage As per CA		Number and Length of Spans (m)	Type of Structure	Protection Work	Slab	Wall	Raft	PCC	Granular Filling	Excavation	Excavation	Granular Filling	PCC	Raft	Wall	Slab	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															

SETHIAHOPU CHOLOPURAM PROJECT - STATUS OF MNB-BOX - MCW						Completed	In Progress													
Status Upto	31.01.2021					LHS							RHS							
Sr. No.	As Approved by IE	Design Chainage As per CA	Number and Length of Spans (m)	Type of Structure		Protection Work	Slab	Wall	Raft	PCC	Granular Filling	Excavation	Excavation	Granular Filling	PCC	Raft	Wall	Slab	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															
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															

SETHIAHOPU CHOLOPURAM PROJECT - STATUS OF MNB-BOX - SERVICE ROAD						Completed							In Progress							
Status Upto	31.01.2021					LHS							RHS							
Sr. No.	As Approved by IE	Design Chainage As per CA	Number and Length of Spans (m)	Type of Structure		Protection Work	Slab	Wall	Raft	PCC	Granular Filling	Excavation	Excavation	Granular Filling	PCC	Raft	Wall	Slab	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	31.01.2021				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	31.01.2021				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							
MJB at Chainage 66+530 (8x30) - BYPASS									In Progress							
Status Upto 31.01.2021	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									Completed							
Status Upto 31.01.2021	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							
Status Upto 31.01.2021									In Progress							
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				Completed				Completed	Existing Major Bridge need to be retained.							
P1				Completed	Completed	Completed	Completed									
P2				Completed	Completed	Completed	Completed									
A2				Completed			Completed									
MJB at Chainage 107+400 - BYPASS									Completed							
Status Upto 31.01.2021									In Progress							
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			Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed
P1			Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed
P2			In Progress	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed
P3			Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed
P4			Completed	In Progress	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed
P5			Completed	In Progress	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed
P6			Completed	In Progress	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed
P7			Completed	In Progress	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed
P8			Completed	In Progress	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed
P9			Completed	In Progress	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed
P10			Completed	In Progress	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	In Progress	Completed	Completed	Completed
P11			Completed	In Progress	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	In Progress	Completed	Completed	Completed
P12			Completed	In Progress	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	In Progress	Completed	Completed	Completed
P13			Completed	In Progress	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	In Progress	Completed	Completed	Completed
P14			Completed	In Progress	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	In Progress	Completed	Completed	Completed
P15			Completed	In Progress	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	In Progress	Completed	Completed	Completed
P16			Completed	In Progress	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	In Progress	Completed	Completed	Completed
P17			Completed	In Progress	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	In Progress	Completed	Completed	Completed
P18			Completed	In Progress	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	In Progress	Completed	Completed	Completed
P19			Completed	In Progress	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	In Progress	Completed	Completed	Completed
A2			Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	In Progress	Completed	Completed	Completed

SETHIYAHOPU CHOLOPURAM PROJECT - STATUS OF FLYOVER					Completed									In Progress											
Status upto	31.01.2021				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	31.01.2021				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																			

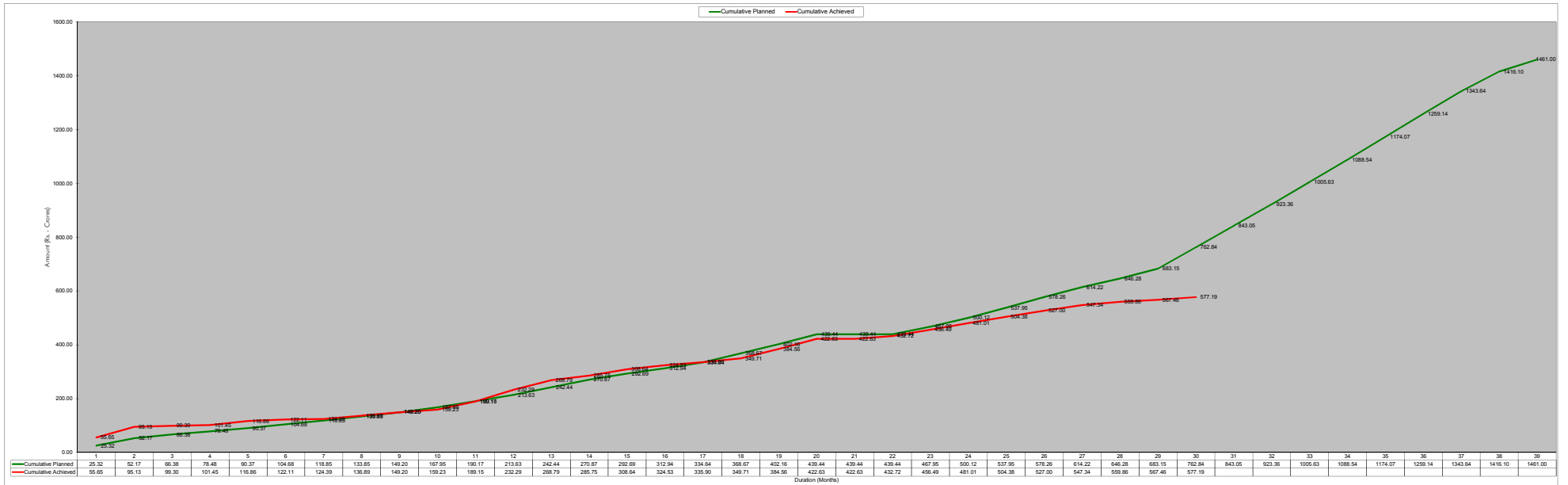
5. Financial & Physical Progress of Work

Figure 3a: Financial Progress - Planned vs Achieved - S Curve

Figure 3b: Physical Progress - Planned vs Achieved - S Curve

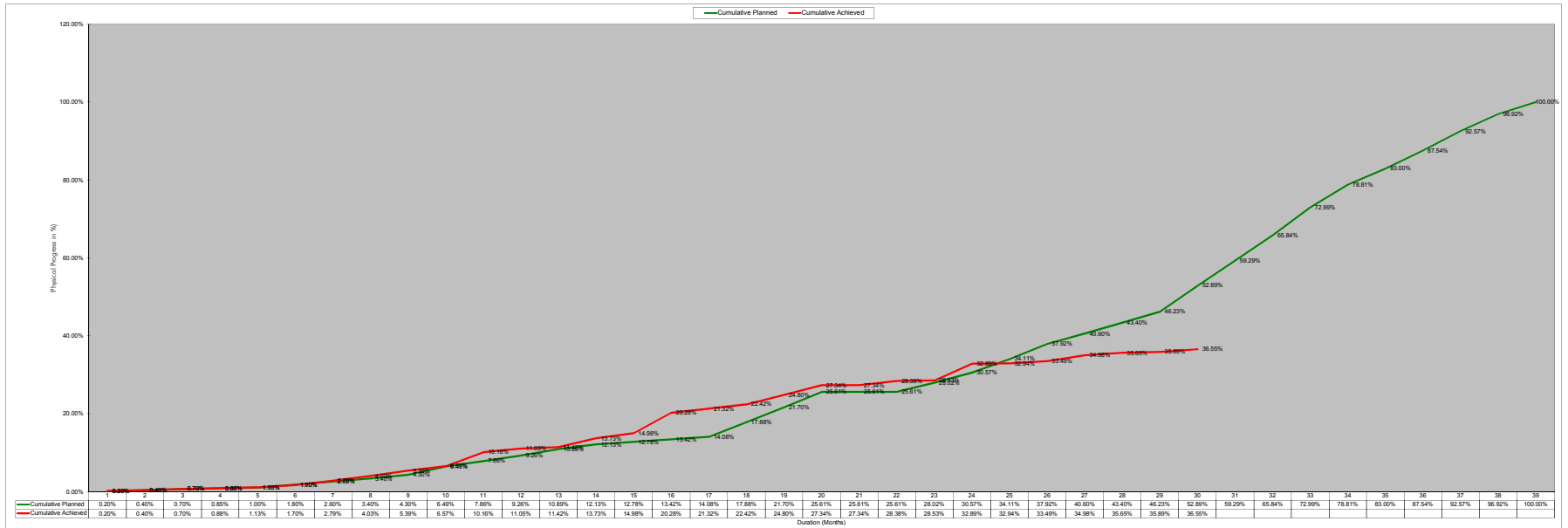
Four Laning of Sethiyahopu - Cholopuram from Km. 65.960 to 116.440 Section of NH45C in the state of Tamilnadu under NHDP-IV on Hybrid Annuity Mode

Fig. 03a- Financial Progress (S-Curve) as per revised Target based on EOT of 437 days (257 days+180 Days)



Schedule	2018					2019												2020												2021									
	Aug 1	Sep 2	Oct 3	Nov 4	Dec 5	Jan 6	Feb 7	Mar 8	Apr 9	May 10	Jun 11	Jul 12	Aug 13	Sep 14	Oct 15	Nov 16	Dec 17	Jan 18	Feb 19	Mar 20	Apr 21	May 22	Jun 23	Jul 24	Aug 25	Sep 26	Oct 27	Nov 28	Dec 29	Jan 30	Feb 31	Mar 32	Apr 33	May 34	Jun 35	Jul 36	Aug 37	Sep 38	Oct 39
Monthly Planned	25.32	26.85	14.21	12.10	11.88	14.31	14.17	15.00	15.36	18.74	22.22	23.46	28.81	28.43	21.82	20.24	21.71	34.03	33.49	37.28	0.00	0.00	28.51	32.17	37.83	40.31	35.96	32.06	36.87	79.69	80.21	80.31	82.27	82.91	85.53	85.07	84.50	72.46	44.90
Monthly Achieved	55.65	39.48	4.17	2.15	15.41	5.28	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									
Cumulative Planned	25.32	52.17	66.38	78.48	90.37	104.68	118.85	133.85	149.20	167.95	190.17	213.63	242.44	270.87	292.69	312.94	334.64	368.67	402.16	439.44	439.44	439.44	467.95	500.12	537.95	578.26	614.22	646.28	683.15	762.84	843.05	923.36	1005.63	1088.54	1174.07	1259.14	1343.64	1416.10	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									
Monthly Planned (%)	1.7%	1.8%	1.0%	0.8%	0.8%	1.0%	1.0%	1.0%	1.1%	1.3%	1.5%	1.6%	2.0%	1.9%	1.5%	1.4%	1.5%	2.3%	2.3%	2.6%	0.0%	0.0%	2.0%	2.2%	2.6%	2.8%	2.5%	2.2%	2.5%	5.5%	5.5%	5.5%	5.6%	5.7%	5.9%	5.8%	5.0%	3.1%	
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%									
Cumulative Planned (%)	1.7%	3.6%	4.5%	5.4%	6.2%	7.2%	8.1%	9.2%	10.2%	11.5%	13.0%	14.6%	16.6%	18.5%	20.0%	21.4%	22.9%	25.2%	27.5%	30.1%	30.1%	30.1%	32.0%	34.2%	36.8%	39.6%	42.0%	44.2%	46.8%	52.2%	57.7%	63.2%	68.8%	74.5%	80.4%	86.2%	92.0%	96.9%	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%									

Four Laning of Sethiyahopu - Cholapuram 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 based on EOT of 437 days (257 days+180 Days)



Schedule	2018					2019												2020												2021									
	Aug 1	Sep 2	Oct 3	Nov 4	Dec 5	Jan 6	Feb 7	Mar 8	Apr 9	May 10	Jun 11	Jul 12	Aug 13	Sep 14	Oct 15	Nov 16	Dec 17	Jan 18	Feb 19	Mar 20	Apr 21	May 22	Jun 23	Jul 24	Aug 25	Sep 26	Oct 27	Nov 28	Dec 29	Jan 30	Feb 31	Mar 32	Apr 33	May 34	June 35	July 36	Aug 37	Sep 38	Oct 39
Revised Target vs Achieved as per IEOT	0.20%	0.20%	0.30%	0.15%	0.15%	0.80%	0.80%	0.80%	0.90%	2.19%	1.37%	1.40%	1.63%	1.24%	0.65%	0.64%	0.66%	3.80%	3.82%	3.91%	0.00%	0.00%	2.41%	2.55%	3.54%	3.81%	2.69%	2.80%	2.83%	6.66%	6.40%	6.56%	7.14%	5.83%	4.19%	4.54%	5.03%	4.35%	3.07%
Monthly Planned	0.20%	0.20%	0.30%	0.15%	0.15%	0.80%	0.80%	0.80%	0.90%	2.19%	1.37%	1.40%	1.63%	1.24%	0.65%	0.64%	0.66%	3.80%	3.82%	3.91%	0.00%	0.00%	2.41%	2.55%	3.54%	3.81%	2.69%	2.80%	2.83%	6.66%	6.40%	6.56%	7.14%	5.83%	4.19%	4.54%	5.03%	4.35%	3.07%
Monthly Achieved	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%									
Cumulative Planned	0.20%	0.40%	0.70%	0.85%	1.00%	1.80%	2.60%	3.40%	4.30%	6.49%	7.86%	9.26%	10.89%	12.13%	12.78%	13.42%	14.08%	17.88%	21.70%	25.61%	25.61%	25.61%	28.02%	30.57%	34.11%	37.92%	40.60%	43.40%	46.23%	52.89%	59.29%	65.84%	72.99%	78.81%	83.00%	87.54%	92.57%	96.92%	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%									

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

Sl. 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
Sl. 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	pycnometer 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 apparatus with accessories	1 Nos
45	field 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	standard penetrometer - automatic with digital timer	1 Nos
55	Beaking head assembly - 6'	1 Nos
56	Bulk density cylindrical metal measure - 15 LTR	1 Nos
57	Bulk density cylindrical metal measure - 5 LTR	1 Nos
58	Bulk density cylindrical 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 collar 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
Sl. 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 aprpratus 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 aprpratus	1 Nos
106	Needle Intial setting time for vicat needle aprpratus	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 January - 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

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

Sr. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month				Tests conducted during reporting month 2021						Test conducted upto this month			
				No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos.of test witnessed by IE	Tested		Passed		Failed		No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos.of test witnessed by IE
								Concession arie	IE	Concession arie	IE	Concessio narie	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	958	958	0	546	40	20	40	20	0	0	998	998	0	566
2.2	Atterberg Limits	IS:2720 (Part5)	1 test /1500 m ³	958	958	0	546	40	20	40	20	0	0	998	998	0	566
2.3	Proctor	IS:2720 (Part8)	1 test /1500 m ³	958	958	0	546	40	20	40	20	0	0	998	998	0	566
2.4	Free Swell index	IS:2720 (Part40)	1 test /1500 m ³	958	958	0	546	40	20	40	20	0	0	998	998	0	566
2.5	California bearing ratio	IS:2720 (Part16)	1 test / 3000 m ³	225	219	6	115	10	5	10	5	0	0	235	229	6	120
2.6	Direct shear Test	IS:2720 (Part13)	1 test /3000 m ³	122	119	3	58	10	5	10	5	0	0	132	129	3	63
3.0 Cutting portion & Existing for EMB/SG site sampling (MoRT&H 305)																	
3.1	Grain size analysis	IS:2720 (Part4)	1 test /1500 m ³	55	53	2	21	2	1	2	1	0	0	57	55	2	22
3.2	Atterberg Limits	IS:2720 (Part5)	1 test /1500 m ³	55	53	2	21	2	1	2	1	0	0	57	55	2	22
3.3	Proctor	IS:2720 (Part8)	1 test /1500 m ³	55	53	2	21	2	1	2	1	0	0	57	55	2	22
3.4	Free Swell index	IS:2720 (Part40)	1 test /1500 m ³	55	53	2	21	2	1	2	1	0	0	57	55	2	22
3.5	California bearing ratio	IS:2720 (Part16)	1 test / 3000 m ³	27	25	2	13	1	1	1	1	0	0	28	26	2	14
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																	
4.1	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
4.2	Atterberg Limits	IS:2720 (Part5)	1 test /1500 m ³	27	27	0	20	0	0	0	0	0	0	27	27	0	20
4.3	Proctor	IS:2720 (Part8)	1 test /1500 m ³	27	27	0	20	0	0	0	0	0	0	27	27	0	20
4.4	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
4.5	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
4.6	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	247	247	0	146	0	0	0	0	0	0	247	247	0	146
5.2	Maximum Dry Density	Clause 5.2	1 test /1500 m ³	247	247	0	158	0	0	0	0	0	0	247	247	0	158
5.3	Grain size analysis	IS:2720 (Part4)	1 test /3000 m ³	117	117	0	75	0	0	0	0	0	0	117	117	0	75
5.4	Direct shear Test	IS:2720 (Part13)	1 test /3000 m ³	97	97	0	57	0	0	0	0	0	0	97	97	0	57
6.0 Field Density Test MORT&H 305																	
6.1	Field density (OGL)	IS:2720 (Part28)	1 test /3000 sqm	3959	3839	120	988	0	0	0	0	0	0	3959	3839	120	988
6.2	EMB field density	IS:2720 (Part28)	1 test /3000 sqm	49370	47525	1845	12260	10	0	10	0	0	0	49380	47535	1845	12260
6.3	SG field density	IS:2720 (Part28)	1 test / 2000 sqm	7317	7098	219	3514	158	85	152	82	6	3	7475	7250	225	3599
6.4	Shoulder field density	IS:2720 (Part28)	1 test / 2000 sqm	323	320	3	30	0	0	0	0	0	0	323	320	3	30
6.5	Ground improvement (Soil)	IS:2720 (Part28)	1 test / 2000 sqm	2511	2443	68	371	0	0	0	0	0	0	2511	2443	68	371
6.6	Ground improvement & Midean filling (Flyash)	IS:2720 (Part28)	1 test / 2000 sqm	7471	7344	127	1255	1485	366	1440	330	45	36	8956	8784	172	1621
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	812	812	0	48	0	0	0	0	0	0	812	812	0	48
7.3	RE Wall field density		As required	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	86	80	6	70	3	3	3	3	0	0	89	83	6	73
8.2	Grain size analysis	IS:2720 (Part4)	As required	86	86	0	70	3	3	3	3	0	0	89	89	0	73

Sr. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month				Tests conducted during reporting month 2021						Test conducted upto this month			
				No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos.of test witnessed by IE	Tested		Passed		Failed		No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos.of test witnessed by IE
								Concessionaire	IE	Concessionaire	IE	Concessionaire	IE				
8.3	Proctor	IS:2720 (Part8)	As required	86	86	0	70	3	3	3	3	0	0	89	89	0	73
8.4	Direct shear Test	IS:2720 (Part13)	As required	86	77	9	70	3	3	3	3	0	0	89	80	9	73
8.5	Bearing Capacity / Plate Load Test	IS:6403 / IS 1888	As required	86	44	42	42	3	3	1	1	2	2	89	45	44	45
9.0 CTSB Mix Design/Site Frequency MoRT&H 403																	
9.1	Gradation	Table 400-4	1 test/400m ³	317	317	0	171	14	7	14	7	0	0	331	331	0	178
9.2	Atterberg Limits	IS:2720 (Part5)	1 test/400m ³	196	196	0	94	14	7	14	7	0	0	210	210	0	101
9.3	Proctor	IS:2720 (Part8)	As required	19	19	0	17	1	1	1	1	0	0	20	20	0	18
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 500Sq.m	2115	2115	0	1545	58	43	58	43	0	0	2173	2173	0	1588
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	754	754	0	279	30	10	30	10	0	0	784	784	0	289
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 1000Sq.m	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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 & Elongation 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	196	196	0	105	15	8	15	8	0	0	211	211	0	113
13.2	Aggregate Impact Value	IS:2386 Part-4	1 test/ 1000 m ³	104	104	0	49	10	5	10	5	0	0	114	114	0	54
13.3	Flakiness & Elongation index	IS:2386 Part1	1 test/ 500 m ³	106	106	0	36	10	5	10	5	0	0	116	116	0	41
13.4	Atterberg Limits	IS:2720 (Part5)	1 test/200m ³	173	173	0	82	15	8	15	8	0	0	188	188	0	90
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	6	6	0	4	1	1	1	1	0	0	7	7	0	5
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 1000Sq.m / 3 pits	393	393	0	279	39	36	39	36	0	0	432	432	0	315
14.0 Dense Bituminous Macadam (Grade - II)																	
14.1	Bitumen Extraction Test		1 Test/400MT	166	166	0	71	13	4	13	4	0	0	179	179	0	75
14.2	Gradation	Table 500 - 18, Grad.II	1 Test/400MT	166	166	0	71	13	4	13	4	0	0	179	179	0	75
14.3	Flakiness & Elongation index	MORTH Table 900 - 4	1 test/ 350 m ³	127	127	0	53	7	2	7	2	0	0	134	134	0	55

Sr. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month				Tests conducted during reporting month 2021						Test conducted upto this month			
				No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos.of test witnessed by IE	Tested		Passed		Failed		No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos.of test witnessed by IE
								Concessionaire	IE	Concessionaire	IE	Concessionaire	IE				
14.4	Aggregate Impact Value	MORTH Table 900 - 4	1 test/350m ³	169	169	0	73	7	2	7	2	0	0	176	176	0	75
14.5	Marshall Density	ASTM D 2726	1 Set/400MT	202	202	0	89	13	4	13	4	0	0	215	215	0	93
14.6	GMM	MORTH Table 900 - 4	1 Test/400MT	171	171	0	73	13	4	13	4	0	0	184	184	0	77
14.7	DBM Core Cutting	MORTH Table 900 - 4	1 Test/700M ²	440	440	0	197	40	10	40	10	0	0	480	480	0	207
Bitumen test																	
14.8	Softening Point	IS:1205 - 1978	1 Test/ 1 lot	67	67	0	25	3	1	3	1	0	0	70	70	0	26
14.9	Penetration	IS:1205 - 1978	1 Test/ 1 lot	67	67	0	25	3	1	3	1	0	0	70	70	0	26
14.9	viscosity	IS:1205 - 1978	1 Test/ 1 lot	67	67	0	25	3	1	3	1	0	0	70	70	0	26
15.0 Prime Coat																	
15.1	Rate of Spread of Binder		Three tests per day	293	293	0	157	38	8	38	8	0	0	331	331	0	165
16.0 Tack Coat																	
16.1	Rate of Spread of Binder		Three tests per day	69	69	0	32	16	4	16	4	0	0	85	85	0	36
17.0 Fine Aggregate MoRT&H 1008																	
17.1	Grade / Sieve analysis	IS:2386 (Part1)	1 test per day	1180	1180	0	447	53	13	53	13	0	0	1233	1233	0	460
17.2	Specific gravity& Water absorption	IS:2386 (Part2)	As required	16	16	0	15	0	0	0	0	0	0	16	16	0	15
17.3	Fineness Modulus	MORT&H Sec. 1008&383	1 test per day	1038	1038	0	375	53	13	53	13	0	0	1091	1091	0	388
17.4	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
17.5	Deleterious material/silt	IS:2386 (Part2)	1 test per source	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0 Coarse Aggregate MoRT&H 1007																	
18.1	Gradation	IS:2386 (Part2)	1 test per day	1078	1078	0	434	53	13	53	13	0	0	1131	1131	0	447
18.2	Specific gravity& Water absorption	IS:2386 (Part3)	As required	18	18	0	15	0	0	0	0	0	0	18	18	0	15
18.3	Aggregate Impact Value	IS:2386 (Part4)	1 test / each source & monthly	317	317	0	160	12	2	12	2	0	0	329	329	0	162
18.4	Flakiness index	IS:2386 (Part1)	1 test / each source & monthly	287	287	0	147	12	2	12	2	0	0	299	299	0	149
18.5	Soundness	IS:2386 (Part5)	As required	2	2	0	2	0	0	0	0	0	0	2	2	0	2
18.6	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
18.7	Deleterious constituents	IS:2386 (Part2)	1 test per source	2	2	0	2	0	0	0	0	0	0	2	2	0	2
18.8	Petrographic Examination	IS:2386 (Part8)	1 test per source	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0 Cement MoRT&H 1006																	
19.1	Chemical test / Physical test	IS:4031,4032	1 test per source	6	0	0	6	0	0	0	0	0	0	6	0	0	6
19.2	Fineness	IS:4031 (Part1)	Every batch	391	391	0	193	14	6	14	6	0	0	405	405	0	199
19.3	Normal Consistency	IS:4031 (Part4)	Every batch	363	363	0	193	14	6	14	6	0	0	377	377	0	199
19.4	Initial,Final setting time	IS:4031 (Part5)	Every batch	363	363	0	193	14	6	14	6	0	0	377	377	0	199
19.5	Soundness of Cement	IS:4031 (Part3)	Every batch	307	307	0	159	14	6	14	6	0	0	321	321	0	165
19.6	Compressive Strength-set	IS:4031 (Part6)															
	3 days		1 test per Lot	320	320	0	151	12	2	12	2	0	0	332	332	0	153
	7 days		1 test per Lot	310	310	0	148	14	5	14	5	0	0	324	324	0	153
	28 days		1 test per Lot	301	301	0	143	12	3	12	3	0	0	313	313	0	146
20.0.(A) Concrete Cube Strength																	
	M15 PCC																
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	386	386	0	164	8	0	8	0	0	0	394	394	0	164
	28Days Compressive Strength			650	650	0	321	6	0	6	0	0	0	656	656	0	321
	M20 KERB																
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	150	150	0	53	10	0	10	0	0	0	160	160	0	53
	28Days Compressive Strength			402	402	0	106	2	0	2	0	0	0	404	404	0	106
	M20 RCC																
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	238	238	0	81	0	0	0	0	0	0	238	238	0	81
	28Days Compressive Strength			464	464	0	182	0	0	0	0	0	0	464	464	0	182

Sr. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month				Tests conducted during reporting month 2021						Test conducted upto this month			
				No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos.of test witnessed by IE	Tested		Passed		Failed		No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos.of test witnessed by IE
								Concessionaire	IE	Concessionaire	IE	Concessionaire	IE				
M30 RCC																	
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	342	342	0	151	27	8	27	8	0	0	369	369	0	159
	28Days Compressive Strength			595	595	0	264	34	8	34	8	0	0	629	629	0	272
M30 RCC PUMPABLE																	
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	26	26	0	16	2	0	2	0	0	0	28	28	0	16
	28Days Compressive Strength			73	73	0	41	5	2	5	2	0	0	78	78	0	43
M35 RCC																	
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	233	233	0	145	22	4	22	4	0	0	255	255	0	149
	28Days Compressive Strength			491	491	0	276	17	12	17	12	0	0	508	508	0	288
M35 PILING																	
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	921	921	0	483	14	6	14	6	0	0	935	935	0	489
	28Days Compressive Strength			2737	2737	0	1477	60	25	60	25	0	0	2797	2797	0	1502
M35 RCC PUMPABLE																	
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	564	564	0	235	24	4	24	4	0	0	588	588	0	239
	28Days Compressive Strength			1622	1622	0	660	61	17	61	17	0	0	1683	1683	0	677
M35 RE BLOCK																	
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	741	741	0	226	7	0	7	0	0	0	748	748	0	226
	28Days Compressive Strength			2104	2104	0	704	3	0	3	0	0	0	2107	2107	0	704
M40 PUMP & M40 RCC																	
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	128	128	0	60	53	21	53	21	0	0	181	181	0	81
	28Days Compressive Strength			210	210	0	92	93	38	93	38	0	0	303	303	0	130
M40 PQC																	
	7 Days Flexural Strength	As Per IS:516	As Per IS:516	0	0	0	0	12	12	12	12	0	0	12	12	0	12
	28 Days Flexural Strength			0	0	0	0	30	30	30	30	0	0	30	30	0	30
	7Days Compressive Strength	As Per IS:516	As Per IS:516	0	0	0	0	12	12	12	12	0	0	12	12	0	12
	28Days Compressive Strength			0	0	0	0	30	30	30	30	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	194	194	0	73	38	11	38	11	0	0	232	232	0	84
	28Days Compressive Strength			504	504	0	175	80	44	80	44	0	0	584	584	0	219
M50 RCC																	
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	6	6	0	6	0	0	0	0	0	0	6	6	0	6
	28Days Compressive Strength			12	12	0	12	0	0	0	0	0	0	12	12	0	12
M60 PUMP																	
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	270	270	0	66	13	8	13	8	0	0	283	283	0	74
	28Days Compressive Strength			915	915	0	210	30	15	30	15	0	0	945	945	0	225

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

SOURCE APPROVAL SUMMARY

S.No	Item	Source	Submission Letter No	Approved Letter No	Remarks
1	Cement	M/s Ramco Cements Limited, Chennai.	PSCHPL/SCP/IE/2018/012	TES/IE/SC/PIL/2018/005	
		M/s Dalmia Bharat Cement, Ariyalur	PSCHPL/SCP/IE/2018/009	TES/IE/SC/PIL/2018/006	
		M/s Ultratech	PSCHPL/SCP/IE/2018/090	TES/IE/SC/PIL/2018/060	
		M/s India Cement (Coremendal)	PSCHPL/SCP/IE/2018/063	TES/IE/SC/PIL/2018/040	
		M/s Chettinad Cement, Chennai.	PSCHPL/SCP/IE/2018/009	TES/IE/SC/PIL/2018/052	
		M/s Barathi Cement,	PSCHPL/SCP/IE/2018/154	TES/IE/SC/PIL/2018/128	
		M/s JSW Cement,	PSCHPL/SCP/IE/2018/294	TES/IE/SC/PIL/2018/257	
2	Steel	M/s Jindal Steel & Power Limited, New Delhi.	PSCHPL/SCP/IE/2018/202	TES/IE/SC/PIL/2018/010	
		M/s shyam Steel	PSCHPL/SCP/IE/2018/202	TES/IE/SC/PIL/2018/016	
		M/s Kamachi Industries limited, Chennai.	PSCHPL/SCP/IE/2018/301	TES/IE/SC/PIL/2018/056	
		M/s SAIL	PSCHPL/SCP/IE/2018/202	TES/IE/SC/PIL/2018/173	
		M/s VIZAG STEEL	PSCHPL/SCP/IE/2018/202	TES/IE/SC/PIL/2018/173	
		M/s Tata Steel Limited,	PSCHPL/SCP/IE/2018/202	TES/IE/SC/PIL/2018/173	
		M/s Essar Steel Ltd,	PSCHPL/SCP/IE/2018/202	TES/IE/SC/PIL/2018/173	
		M/s Electrosteel Steels Limited,	PSCHPL/SCP/IE/2018/202	TES/IE/SC/PIL/2018/173	
		M/s Agarwal Foundries pvt Limited,	PSCHPL/SCP/IE/2019/516	TES/IE/SC/PIL/2019/402	
3	HT strands	M/s Usha Martin Limited	PSCHPL/SCP/IE/2018/286		
		M/s D.P.Wires Limited	PSCHPL/SCP/IE/2018/045		
		M/s Kataria industries Pvt Ltd,	PSCHPL/SCP/IE/2018/253	TES/IE/SC/PIL/2018/213	
4	Prestressing Agency	M/s Dynamic Prestressing India Pvt. Ltd	PSCHPL/SCP/IE/2018/059	TES/IE/SC/PIL/2018/037	
5	Mechanical couplers	M/s Unitech couplers India (P) ltd., Coimbatore.	PSCHPL/SCP/IE/2018/018	TES/IE/SC/PIL/2018/009	
		M/s Splicetek India Pvt Ltd., Mumbai.	PSCHPL/SCP/IE/2018/018		
6	Chemical Admixture	M/s Fosroc, Bangalore	PSCHPL/SCP/IE/2018/008	TES/IE/SC/PIL/2018/003	
		M/s Kunal Conchem Pvt.Ltd, Faridabad	PSCHPL/SCP/IE/2018/008	TES/IE/SC/PIL/2018/067	
		M/s Rheoplast Technology Pvt. Ltd, Mumbai	PSCHPL/SCP/IE/2018/008	TES/IE/SC/PIL/2018/066	
		M/s BASF India Limited	PSCHPL/SCP/IE/2018/072	TES/IE/SC/PIL/2018/043	
		M/s Sika India Pvt Ltd,	PSCHPL/SCP/IE/2018/272	TES/IE/SC/PIL/2018/234	
		M/s B&B Specialities India Pvt Ltd,	PSCHPL/SCP/IE/2018/233	TES/IE/SC/PIL/2018/179	
		M/S CAC Pvt Ltd,	PSCHPL/SCP/IE/2018/219	TES/IE/SC/PIL/2018/180	
		M/s CBS Chemicals,	PSCHPL/SCP/IE/2018/293	TES/IE/SC/PIL/2018/256	
7	Curing Compound	M/s Kunal Conchem Pvt.Ltd, Faridabad	PSCHPL/SCP/IE/2018/094	TES/IE/SC/PIL/2018/067	
		M/s CBS Chemicals Pvt.Ltd, Faridabad	PSCHPL/SCP/IE/2019/464	TES/IE/SC/PIL/2019/369	
8	Emulsion	M/s Indian Oil Corporation	PSCHPL/SCP/IE/2018/061	TES/IE/SC/PIL/2018/039	
		M/s IWL India Limited	PSCHPL/SCP/IE/2018/073	TES/IE/SC/PIL/2018/054	
		M/s Hindustan Colas Private Limited	PSCHPL/SCP/IE/2018/062	TES/IE/SC/PIL/2018/035	
		M/s Ooms Polymer Modified Bitumen Pvt Ltd,	PSCHPL/SCP/IE/2018/314	TES/IE/SC/PIL/2018/254	
		M/s Tiki Tar and shell india pvt ltd	PSCHPL/SCP/IE/2020/674	TES/IE/SC/PIL/2020/485	
9	Bitumen	M/s Indian Oil Corporation	PSCHPL/SCP/IE/2018/061	TES/IE/SC/PIL/2018/039	
		M/s Hindustan Colas Private Limited	PSCHPL/SCP/IE/2018/282	TES/IE/SC/PIL/2018/0238	
		M/s IWL India Limited	PSCHPL/SCP/IE/2018/073	TES/IE/SC/PIL/2018/054	
		M/s Tiki Tar industries,	PSCHPL/SCP/IE/2018/250	TES/IE/SC/PIL/2018/0215	
10	Mastic Ashphalt	M/s IWL India Limited	PSCHPL/SCP/IE/2018/073	TES/IE/SC/PIL/2018/053	
11	Micro Silica	M/s Elkem South Asia pvt Ltd,	PSCHPL/SCP/IE/2018/201	TES/IE/SC/PIL/2018/170	
12	Anti Stripping	M/s HCPL & Tiki Tar Pvt Ltd,	PSCHPL/SCP/IE/2019/495	TES/IE/SC/PIL/2019/384	
13	Micro Fine	M/s Suyag Elements India Pvt Ltd	PSCHPL/SCP/IE/2019/580		
14	Expansion Joint	M/s Kantaflex India Pvt Ltd	PSCHPL/SCP/IE/2020/784	TES/IE/SC/PIL/2021/544	
		M/s Sanfield India Ltd	PSCHPL/SCP/IE/2020/781	TES/IE/SC/PIL/2021/543	
		M/s Hercules Structural Systems Pvt Ltd	PSCHPL/SCP/IE/2020/782	TES/IE/SC/PIL/2021/545	

BORROW AREA SUMMARY										
S.NO	B/A NO.	Chainage	Lead Form NH-45C	Side	Suitable For	Approved Qty In M ³	Submission Letter No	Approved Letter No	Remark	
1	1	Maruvay 61+090	1.5 km	LHS	Embankment	18000	PSCHPL/SCP/IE/2018/093	TES/IE/SCP/PIL/2018/059	Approved	
2	1	61+090 LHS (Maruvai) EX - 01	1.5km	LHS	Embankment	30000	PSCHPL/SCP/IE/2020/656	TES/IE/SC/PIL/2020/470	Approved	
3	1	61+090 LHS (Maruvai) EX - 02	1.5 KM	LHS	Embankment& Subgrade	30000	PSCHPL/SCP/IE/2020/656	TES/IE/SC/PIL/2020/470	Approved	
4	1	61+090 LHS (Maruvai) EX - 03	1.5km	LHS	Embankment	30000	PSCHPL/SCP/IE/2020/670	TES/IE/SC/PIL/2020/477	Approved	
5	1	61+090 LHS (Maruvai) EX - 04	1.5km	LHS	Embankment& Subgrade	30000	PSCHPL/SCP/IE/2020/679	TES/IE/SC/PIL/2020/486	Approved	
6	1	61+090 LHS (Maruvai) EX - 05	1.5km	LHS	Embankment	30000	PSCHPL/SCP/IE/2020/679	TES/IE/SC/PIL/2020/486	Approved	
7	1	61+090 LHS (Maruvai) EX - 06	1.5km	LHS	Embankment	45000	PSCHPL/SCP/IE/2020/683	TES/IE/SC/PIL/2020/500	Approved	
9	2	106+350 RHS Kodali	4.0 km	RHS	Embankment	18000	PSCHPL/SCP/IE/2018/084	TES/IE/SCP/PIL/2018/061	Approved	
10	2	106+350 RHS (Kodali) EX - 01	4.0 km	RHS	Embankment	30000	PSCHPL/SCP/IE/2020/670	TES/IE/SC/PIL/2020/477	Approved	
11	2	106+350 RHS (Kodali) EX - 02	4.0 km	RHS	Embankment	30000	PSCHPL/SCP/IE/2020/689	TES/IE/SC/PIL/2020/490	Approved	
12	3	113+250 LHS Paalur	2.0 km	LHS	Embankment	15000	PSCHPL/SCP/IE/2018/101	TES/IE/SCP/PIL/2018/098	Approved	
13	4	113+250 LHS Kattanakaram	4.0 km	LHS	Embankment	15000	PSCHPL/SCP/IE/2018/147	TES/IE/SCP/PIL/2018/122	Approved	
14	5	113+250 LHS Manikudi	5.0 km	LHS	Embankment	15000	PSCHPL/SCP/IE/2018/116	TES/IE/SCP/PIL/2018/099	Approved	
15	6	112+250 RHS Ammiyapan	8.0 km	RHS	Embankment	15000	PSCHPL/SCP/IE/2018/160	TES/IE/SCP/PIL/2018/131	Approved	
16	7	80+500 RHS Palayan kottai	6.0 km	RHS	Embankment	30000	PSCHPL/SCP/IE/2018/160	TES/IE/SCP/PIL/2018/129	Approved	
17	7	80+500 RHS Palayan kottai EX-01	6.0 km	RHS	Embankment	60000	PSCHPL/SCP/IE/2019/374	TES/IE/SCP/PIL/2018/300	Approved	
18	7	80+500 RHS Palayan kottai EX-02	6.0 km	RHS	Embankment	60000	PSCHPL/SCP/IE/2019/396	TES/IE/SCP/PIL/2018/315	Approved	
19	7	80+500 RHS Palayan kottai EX-03	6.0 km	RHS	Embankment& Subgrade	60000	PSCHPL/SCP/IE/2019/435	TES/IE/SCP/PIL/2019/343	Approved	
20	8	98+950 RHS Ponnerly	5.0 km	RHS	Embankment	30000	PSCHPL/SCP/IE/2019/302	TES/IE/SCP/PIL/2018/247	Approved	
21	8	98+950 RHS Ponnerly EX-01	5.0 km	RHS	Embankment& Subgrade	30000	PSCHPL/SCP/IE/2019/488	TES/IE/SCP/PIL/2019/386	Approved	
22	9	106+320 RHS (Uthayanatham)	3.0 km	RHS	Embankment	25500	PSCHPL/SCP/IE/2019/302	TES/IE/SCP/PIL/2018/247	Approved	
23	9	106+320 RHS (Uthayanatham EX-01)	3.0 km	RHS		15000	PSCHPL/SCP/IE/2019/472	TES/IE/SCP/PIL/2019/365	Approved	
24	10	96+600 LHS (Pandianeery)	3.0 km	LHS	Embankment	34500	PSCHPL/SCP/IE/2019/302	TES/IE/SCP/PIL/2018/247	Approved	
25	10	96+600 LHS (Pandianeery) EX-01	3.0 km	LHS		30000	PSCHPL/SCP/IE/2019/345	TES/IE/SCP/PIL/2018/268	Approved	
26	11	88+550 (Kaduvetti)	1.0 Km	LHS	Embankment	25500	PSCHPL/SCP/IE/2019/335		Approved	
27	11	88+550 (Kaduvetti) EX - 01	1.0 Km	LHS	Embankment& Subgrade	30000	PSCHPL/SCP/IE/2019/352	TES/IE/SCP/PIL/2018/280	Approved	
28	12	90+500 Puthueary	7.0 Km	RHS	Embankment& Subgrade	30000	PSCHPL/SCP/IE/2019/390	TES/IE/SCP/PIL/2018/307	Approved	
29	12	90+500 Puthueary EX-01	7.0 Km	RHS	RE WALL	30000	PSCHPL/SCP/IE/2019/510			
30	13	87+900 Andi Madam	12.0 Km	RHS	Using For Filter Media					
31	14	87+900 Vilanthai	8.0 km	RHS						
32	15	87+600 Velanery	4.0 km	RHS	Embankment	18000	PSCHPL/SCP/IE/2019/387	TES/IE/SCP/PIL/2018/302	Approved	
33	16	82+900 Aandi Palayam	2.0 Km	RHS	Embankment	18000	PSCHPL/SCP/IE/2019/381	TES/IE/SCP/PIL/2018/299	Approved	
34	16	82+900 Aandi Palayam EX-01	2.0 Km	RHS	RE WALL	36000	PSCHPL/SCP/IE/2019/501	TES/IE/SC/PIL/2019/390	Approved	
35	16	82+900 Aandi Palayam EX-02	2.0 Km	RHS	Subgrade & RE WALL	30000			Testing in Progress	
35	17	94+400 kundaveli East	1.0 Km	LHS	Embankment	30000	PSCHPL/SCP/IE/2019/408	TES/IE/SC/PIL/2019/320	Approved	
36	18	83+000 Vanamadevi	1.0 Km	LHS	Embankment	15000	PSCHPL/SCP/IE/2019/397	TES/IE/SC/PIL/2019/314	Approved	
37	19	101+900 Thaluthalai Medu	1.0 Km	RHS	Embankment	30000	PSCHPL/SCP/IE/2019/422	TES/IE/SC/PIL/2019/355	Approved	
38	20	110+100 Athipakkam	6.0 km	RHS	Embankment	15000	PSCHPL/SCP/IE/2019/452	TES/IE/SC/PIL/2019/354	Approved	
39	21	103+200 VEmbankmentankudi	0.5 Km	LHS	Subgrade & RE WALL	30000	PSCHPL/SCP/IE/2019/463	TES/IE/SC/PIL/2019/362	Approved	
40	21	103+200 VEmbankmentankudi EX-01	0.5 Km	LHS	Subgrade & RE WALL	22500	PSCHPL/SCP/IE/2020/717	TES/IE/SC/PIL/2020/504	Approved	
41	21	103+200 VEmbankmentankudi EX-02	0.5 Km	LHS	Subgrade & RE WALL	30000	PSCHPL/SCP/IE/2020/775	TES/IE/SC/PIL/2020/538	Approved	
41	22	97+300 Muthuservamadam	2.0 Km	RHS	Embankment	30000	PSCHPL/SCP/IE/2019/447	TES/IE/SC/PIL/2019/349	Approved	
42	23	80+500 Kandiyankuppam	15.00	RHS	Embankment&Subgrade	30000	PSCHPL/SCP/IE/2019/561	TES/IE/SC/PIL/2019/418	Approved	
43	23	80+500 Kandiyankuppam EX - 01	15.00	RHS	Embankment&Subgrade	30000	PSCHPL/SCP/IE/2020/626	TES/IE/SC/PIL/2020/452	Approved	
44	24	106+900 Karaikuruchi	20.00	RHS	Embankment	15000	PSCHPL/SCP/IE/2020/636	TES/IE/SC/PIL/2020/453	Approved	
45	24	106+900 Karaikuruchi EX - 01	20.00	RHS	Subgrade	30000	PSCHPL/SCP/IE/2020/691	TES/IE/SC/PIL/2020/491	Approved	
46	25	90+500 RHS (IDAIPALLAM)	6.00	LHS	Embankment	15000	PSCHPL/SCP/IE/2020/637	TES/IE/SC/PIL/2020/454	Approved	
47	25	90+500 RHS (IDAIPALLAM) EX-01	6.00	RHS	Embankment&Subgrade	30000	PSCHPL/SCP/IE/2020/640	TES/IE/SC/PIL/2020/469	Approved	
48	26	98+900 LHS (kommedu)	19.00	LHS	Embankment&Subgrade	30000	PSCHPL/SCP/IE/2020/661	TES/IE/SC/PIL/2020/472	Approved	
49	27	91+400RHS (pappakudi)	0.80	RHS	Embankment	15000	PSCHPL/SCP/IE/2020/657	TES/IE/SC/PIL/2020/471	Approved	
50	28	92+600 RHS Chokalingapuram	0.70	RHS	Embankment&Subgrade	30000	PSCHPL/SCP/IE/2020/676	TES/IE/SC/PIL/2020/471	Approved	
51	29	90+580 RHS Irudhayapuram	10.00	RHS	Embankment	15000	PSCHPL/SCP/IE/2020/711	TES/IE/SC/PIL/2020/501	Approved	
52	30	80+500 RHS Keelpathi	6.00	RHS	Embankment	15000	PSCHPL/SCP/IE/2020/711	TES/IE/SC/PIL/2020/501	Approved	
53	31	87+600 RHS Thirukalappur	10.00	RHS	Subgrade& RE WALL	30000	PSCHPL/SCP/IE/2020/717	TES/IE/SC/PIL/2020/504	Approved	
54	32	106+300 RHS Keelnatham	35.00	RHS	Subgrade& RE WALL	30000	PSCHPL/SCP/IE/2020/725	TES/IE/SC/PIL/2020/505	Approved	
55	33	87+600 RHS Thathur	10.00	RHS	Embankment& RE WALL	30000	PSCHPL/SCP/IE/2020/736	TES/IE/SC/PIL/2020/511	Approved	

S.NO	B/A NO.	Chainage	Lead Form NH-45C	Side	Suitable For	Approved Qty In M ³	Submission Letter No	Approved Letter No	Remark
FLYASH									
1	1	FLYASH Ex-01	30 Km	LHS	RE WALL	25500	PSCHPL/SCP/IE/2018/122	TES/IE/SC/PIL/2018/101	Approved
2	2	FLYASH EX-02	30 Km	LHS		25500	PSCHPL/SCP/IE/2019/303	TES/IE/SC/PIL/2019/255	Approved
3	3	FLYASH EX-03	30 Km	LHS		30000			Approved
4	4	FLYASH EX-04	30 Km	LHS		30000	PSCHPL/SCP/IE/2019/448	TES/IE/SC/PIL/2019/350	Approved
5	5	FLYASH EX-05	30 Km	LHS		45000	PSCHPL/SCP/IE/2019/489	TES/IE/SC/PIL/2019/385	Approved
6	6	FLYASH EX-06	30 Km	LHS		30000	PSCHPL/SCP/IE/2019/518	TES/IE/SC/PIL/2019/400	Approved
7	7	FLYASH EX-07	30 Km	LHS		30000	PSCHPL/SCP/IE/2019/570	TES/IE/SC/PIL/2019/430	Approved
8	8	FLYASH EX-08	30 Km	LHS		30000	PSCHPL/SCP/IE/2019/571	TES/IE/SC/PIL/2019/431	Approved
9	9	FLYASH EX-09	30 Km	LHS		30000	PSCHPL/SCP/IE/2020/728	TES/IE/SC/PIL/2020/512	Approved
10	10	FLYASH EX-10	30 Km	LHS		30000	PSCHPL/SCP/IE/2020/761	TES/IE/SC/PIL/2020/527	Approved
11	11	FLYASH EX-11	30 Km	LHS		30000			

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 of 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			
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			
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			
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.639_13.03.2020		Rejected the compliance vide 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	83+950 to 84+100 (RHS)		Excavated Embankment fill and using in subgrade layer NCR No.11	Lr.No.523_12.11.2020	Lr.No.774_02.12.2020	Lr No 552_29.01.2021	Closed
12	NCR - 12	02.12.2020	83+940 to 84+080 (LHS)		Im proper Kerb laying	Lr.No.531_02.12.2020			

7. Weather Report -Meensuritti

DATE	Temperature (°C)		Rainfall in mm	Humidity in %		Remarks
	Max	Min		Max	Min	
01/01/2021	30.40	23.8	0.00	90	52	Sunny
02/01/2021	30.30	23.9	3.00	86	51	Rainy
03/01/2021	30.50	24.2	20.00	92	52	Rainy
04/01/2021	30.80	25.2	2.00	97	52	Rainy
05/01/2021	30.30	24.8	2.00	93	51	Rainy
06/01/2021	29.70	24.9	105.00	97	68	Rainy
07/01/2021	29.90	25.2	0.00	98	65	Sunny
08/01/2021	30.10	25.5	0.00	97	63	Sunny
09/01/2021	29.30	25.8	0.00	93	68	Sunny
10/01/2021	29.40	25.4	15.00	96	74	Rainy
11/01/2021	29.50	25.6	32.00	97	75	Rainy
12/01/2021	29.40	24.6	70.00	99	65	Rainy
13/01/2021	29.80	24.4	6.00	98	66	Rainy
14/01/2021	28.60	24.2	19.00	97	65	Rainy
15/01/2021	28.90	25.1	Drizzling	96	68	Cloudy
16/01/2021	29.90	24.2	0.00	94	62	Sunny
17/01/2021	30.20	23.6	0.00	95	58	Sunny
18/01/2021	30.40	22.8	0.00	84	59	Sunny
19/01/2021	31.60	23.2	0.00	85	60	Sunny
20/01/2021	31.10	24.9	0.00	84	58	Sunny
21/01/2021	31.50	25.1	0.00	91	60	Sunny
22/01/2021	32.50	26.1	0.00	96	61	Sunny
23/01/2021	32.50	25.2	0.00	93	57	Sunny
24/01/2021	32.50	23.8	0.00	87	49	Sunny
25/01/2021	31.60	24.5	0.00	88	51	Sunny
26/01/2021	32.50	25.1	0.00	90	49	Sunny
27/01/2021	32.60	23.1	0.00	81	50	Sunny
28/01/2021	32.50	23.3	0.00	82	49	Sunny
29/01/2021	32.60	24.4	0.00	84	50	Sunny
30/01/2021	32.50	24.3	0.00	86	49	Sunny
31/01/2021	32.10	23.8	0.00	85	52	Sunny

MPR JANUARY 2021

Weather Report Anakarai

DATE	Temperature (°C)		Rainfall in mm	Humidity in %		Remarks
	Max	Min		Max	Min	
01/01/2021	30.8	26.5	0.00	93	69	Sunny
02/01/2021	32.3	24.4	10.00	83	60	Rainy
03/01/2021	32.1	25.6	13.00	90	74	Rainy
04/01/2021	31.4	26.5	0.00	96	73	Sunny
05/01/2021	30.7	24.8	0.00	92	70	Sunny
06/01/2021	30.1	25.2	88.00	96	80	Rainy
07/01/2021	34.2	27.4	0.00	89	71	Sunny
08/01/2021	31.9	26.3	0.00	93	73	Sunny
09/01/2021	32.6	25.9	0.00	90	78	Sunny
10/01/2021	33.1	26.2	30.00	93	77	Rainy
11/01/2021	31.3	25.4	0.00	96	81	Sunny
12/01/2021	27.1	24.3	57.00	96	90	Rainy
13/01/2021	26.3	24.7	0.00	94	60	Sunny
14/01/2021	30.7	24.5	0.00	92	76	Sunny
15/01/2021	31.2	25.5	0.00	94	78	Sunny
16/01/2021	31.9	26.3	0.00	92	76	Sunny
17/01/2021	32.0	25.4	0.00	90	67	Sunny
18/01/2021	32.4	25.9	0.00	90	68	Sunny
19/01/2021	31.6	24.5	0.00	87	64	Sunny
20/01/2021	31.2	25.1	0.00	85	62	Sunny
21/01/2021	31.0	24.8	0.00	90	68	Sunny
22/01/2021	30.9	26.1	0.00	94	71	Sunny
23/01/2021	32.3	25.6	0.00	91	70	Sunny
24/01/2021	31.0	25.4	0.00	88	66	Sunny
25/01/2021	32.3	24.3	0.00	82	53	Sunny
26/01/2021	31.9	26.4	0.00	84	58	Sunny
27/01/2021	30.3	22.1	0.00	86	52	Sunny
28/01/2021	31.9	22.4	0.00	78	58	Sunny
29/01/2021	31.4	23.6	0.00	81	60	Sunny
30/01/2021	32.3	24.3	0.00	87	66	Sunny
31/01/2021	32.6	25.5	0.00	90	68	Sunny

MPR JANUARY 2021

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	Approval of estimate is pending with NHAI
2	81+850	9.3m	To be shifted to edge of PROW	
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	

13. Permission for Removal of Teak wood trees from the Project Highway in Cuddalore District in a length of 2.84 Kms.

Sl no	Name of the Village	Location/Chainage	Effected Length (in Km)	Remarks
1	Nandeeswaramanagalam	78+400 to 79+400	1.00	Teak Trees under

2	Cholatharam	79+730	0.25	Forest Dept. to be removed.
3	Pudaiyur	81+860	0.20	
4	Pudaiyur	82+100	0.15	
5	Agaraputhur	84+680	0.25	
6	Agaraputhur	84+830	0.25	
7	Agaraputhur	84+990	0.28	
8	Mamangalam Addl.	85+450	0.21	
9	Mamangalam Addl.	85+420	0.15	

14. 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	

15. Removal of Government Buildings like VAO office, School, Post Office & Ration Shop etc.

16. Removal of unauthorized occupations in 38 nos. in Cuddalore dist. & 32 nos. in Ariyalur dist. in the project highways.
17. 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.
18. Revised Estimates for Electrical Shifting due to non-available of vertical clearance – Request Authority for earlier Approval.
19. Estimate for shifting of water supply utilities in Missing locations-Request Authority for earlier Approval.
20. Providing/finalization of land by the concern owning department for construction of Over Head Tank in the following locations:

S. No	Name of the Village	Location/ Chainage	Capacity of OHT	Remarks
1	Nandeeswaramangalam	77+760	30 KL	Land yet to be finalized
2	Cholatharam	80+120	30 KL	

21. 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 & Machinerics 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 of control of Concessionaire.

22. 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

10. Important Events

Table 10.1. Details of Important Events

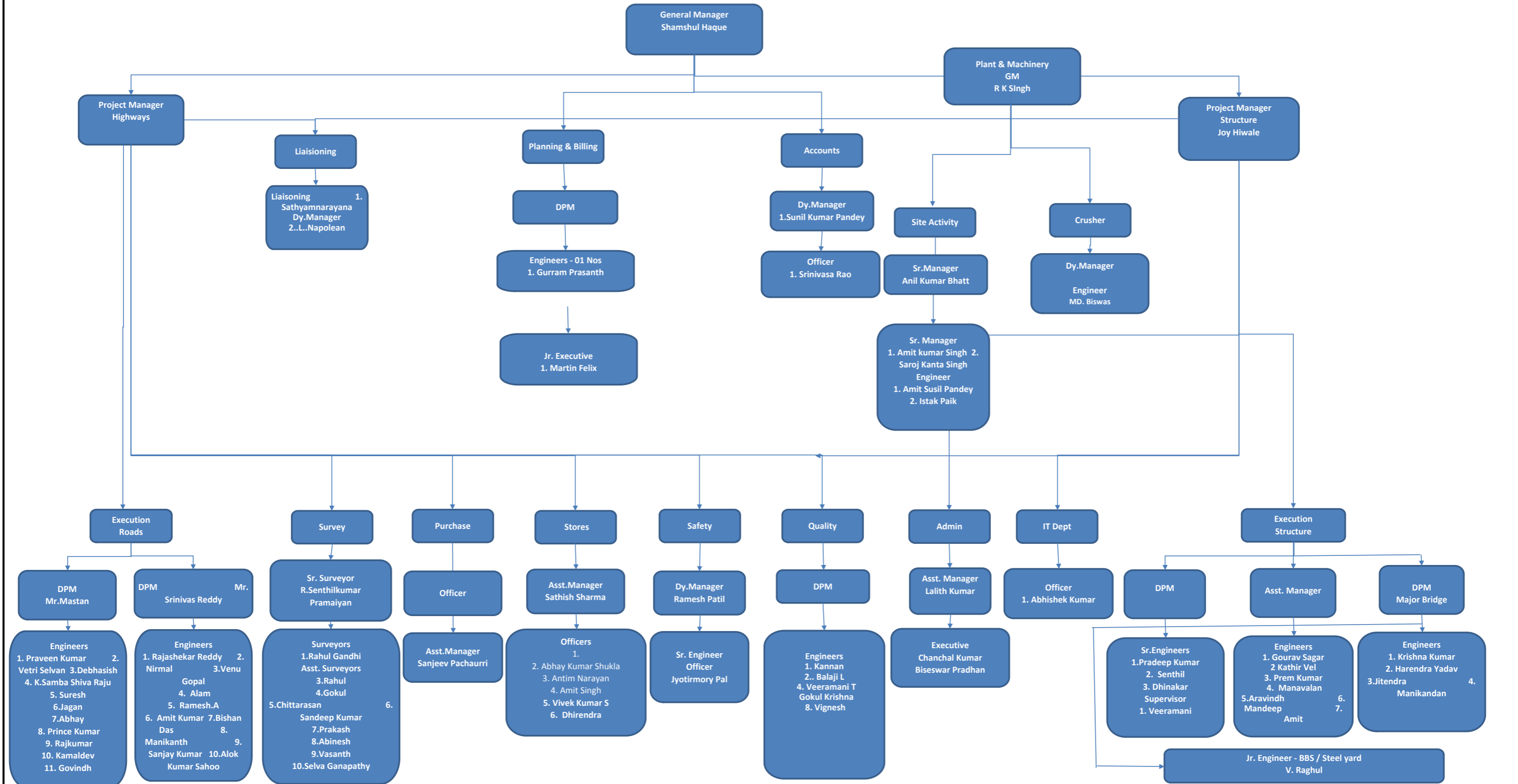
Sl. No	Date of Events	Description of Events	Remarks
1.	01.01.2021 to 15.01.2021	Observance of Swachhata Pakhwada	
2	18.01.2021 to 17.02.2021	National Road Safety Week	

11. Organization Chart

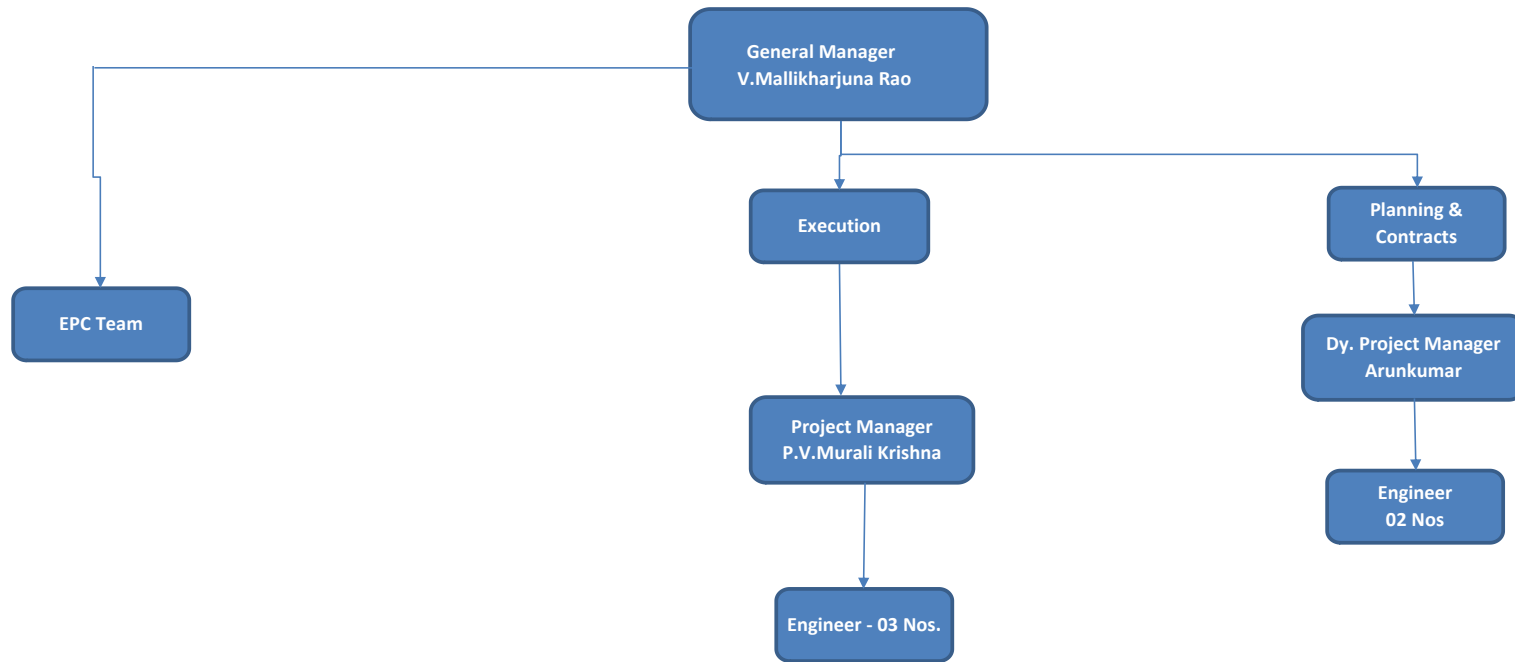
The following figures represents the organization structure of the EPC and SPV Team.

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	9	
3	Dozer		3	
4	Soil Compactor	HAMM 311	8	
5	Backhoe Loader	JCB 3DX	7	
6	Tipper	Bharat Benz- 3128C	73	
7	Transit Mixture	2523C	8	
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	1	
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	1	
20	Genset 63KVA Boiler	63KVA Boile	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	1 no. in operation at site & 1 no. under erection.
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13. Change of Scope Proposals

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/up grade the incident Management Service	10.05.2019	Required COS notice for Strengthening/upgrade the incident Management Service.	NA	NA
3	COS proposal for 09 nos of Box culvert and 01 MNB under +ve COS and 01 nos of Box culvert under -ve COS.	24.09.2020	PD, NHAI, PIU, Thanjavur recommended to the Competent Authority vide Lr.No. NHAI/PIU/THanj/11025/28/2019/1613 dated 24.09.2020 for obtaining in principle approval of the same.	(-) 13.99 Cr../byru5['5	Under process of approval
4	Alternate proposal for construction of VUP at Km.113+550 to avoid shifting of Electrical substation of TANGEDCO				
5	Proposal for deletion of VUP at Km:86+900 under Negative COS				
6	Proposal for deletion of GSI at Km:80+710 under Negative COS				

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

TABLE 14.1 - CORRESPONDANCE - CONCESSIONAIRE TO NHAI

S.No	Date	Letter No	Subject	Remarks
1	08.01.2021	PSCHPL/SCP/NHAI/2020/795	Compliance report on information sought for under right to information Act 2005 by Smt.Priyanka	
2	11.01.2021	PSCHPL/SCP/NHAI/2020/797	Construction activities hampered due to unseasonal intermittent rains over the project highway-Notification	
3	11.01.2021	PSCHPL/SCP/NHAI/2020/798	Compliance report-Conciliation with PCTHPL-Additional information for freezing supplementary Agreement	
4	18.01.2021	PSCHPL/SCP/NHAI/2020/800	Compliance report-Existing lower Anaikarai Bridge-damaged Repairing and alternative arrangements requested	
5	21.01.2021	PSCHPL/SCP/NHAI/2020/803	Delay in approval of Estimate for shifting of Electrical utilities	
6	25.01.2021	PSCHPL/SCP/NHAI/2020/804	Delay in approval of Estimates for shifting of water supply pipeline	
7	25.01.2021	PSCHPL/SCP/NHAI/2020/805	Delay in approval of Soil Borrow area	

TABLE 14.2 - CORRESPONDANCE - NHAI TO CONCESSIONAIRE

S.No	Date	Letter No	Subject	Remarks
1	05.01.2021	NHAI/PIU/Thanj/11099/05/2009/019	Information sought for under Right to Information Act'2005 by Sh.L.Sundarrajan-Reply Requested	
2	05.01.2021	NHAI/PIU/Thanj/11099/05/2009/032	Information sought under Right to Information Act 2005 by Sh.tamilnesan-Report called for	
3	07.01.2021	NHAI/PIU/Thanj/11025/11/2018/050	Conciliation with Ms PSCHPL -Addition information for freezing Supplementary Agreement-Report Submitted	
4	07.01.2021	NHAI/PIU/Thanj/11025/04/2018/058	Cuddalore district-Monthly Road safety Meeting conducted-copy of minutes communicated-action requested	
5	09.01.2021	NHAI/PIU/Thanj/11027/09/2009/070	Policy Guidelines -Communicated	
6	09.01.2021	NHAI/PIU/Thanj/11023/01/2009/072	Performance security, Additional security deposit Bank guarantee in case of Abnormally low bids-policy Guidelines issued	
7	09.01.2021	NHAI/PIU/Thanj/11019/56/2017/077	Maintaining of shift break timings -Instruction Issued - Copy	
8	11.01.2021	NHAI/PIU/Thanj/11025/12/2018/085	Conciliation with Ms PSCHPL-Additional Information for freezing of Supplementary Agreement-Report called for	
9	11.01.2021	NHAI/PIU/Thanj/11025/09/2018/089	Shifting of infringement of veeranam pipeline pertaining to CMWSSB-Estimate submission -Remarks called for	
10	19.01.2021	NHAI/PIU/Thanj/11025/25/2018/127	Police protection for removal of Structures taking over posession of lands-requested	
11	20.01.2021	NHAI/PIU/Thanj/11025/28/2018/143	Comprehensive proposal for COS-2 - Proposal submitted - observations called for	

TABLE 14.3 - CORRESPONDANCE - CONCESSIONAIRE TO INDEPENDENT ENGINEER

S.No	Date	Letter No	Subject	Remarks
1	02.01.2021	PSCHPL/SCP/IE/2020/790	Compliance Report-Submission of Design and drawings of Box Culvert at Km 113+372 & Km 114+703	
2	05.01.2021	PSCHPL/SCP/IE/2020/792	Compliance Report Concilation with Ms PSCHPL-Additional Information for freezing of Supplementary Agreement	
3	06.01.2021	PSCHPL/SCP/IE/2020/793	Submission of Monthly progress report for the month of December 2020	
4	08.01.2021	PSCHPL/SCP/IE/2020/796	Proposal for geosynthetic Membrane instead of mastic Asphalt over deckslab	
5	18.01.2021	PSCHPL/SCP/IE/2020/801	Unprecedentedunseasonal Heavy rainfall over the project Alignment -	
6	27.01.2021	PSCHPL/SCP/IE/2020/806	Procurement of Modified binder from Ms ooms Polymer modified Bitumen Pvt Ltd	

TABLE 14.4 - CORRESPONDANCE - INDEPENDENT ENGINEER TO CONCESSIONAIRE / NHA

S.No	Date	Letter No	Subject	Remarks
1	06.01.2021	TES/IE/SC/PIL/2020/543	Source Approval for Ms Hercules Structural Systems PVT LTD, Delhi. Expansion joints	
2	06.01.2021	TES/IE/SC/PIL/2020/544	Source Approval for Ms Kantaflex India Private LTD, Chennai.Expansion joints	
3	06.01.2021	TES/IE/SC/PIL/2020/545	Source Approval for Ms Hercules Structural Systems PVT LTD, Delhi. Expansion joints	
4	16.01.2021	TES/IE/SC/PIL/2020/549	Submission of Revised (R1) Design & Drawings of Box Culvert at Km. 113+372 & Km. 114+703	
5	27.01.2021	TES/IE/SC/PIL/2020/550	Comprehensive Proposal for COS-2 - Proposal submitted- Observations called for	
6	29.01.2021	TES/IE/SC/PIL/2020/551	NCR No. 06 -WMM Segregation	
7	29.01.2021	TES/IE/SC/PIL/2020/552	Excavated embankment fill and using subgrade layer	

15. Progress Photographs

Sl.No	Description	Location	Side
1	RE Wall Filling work in Progress	69+775	LHS
2	Subgrade work in Progress	102+540	LHS



Sl.No	Description	Location	Side
3	RE Wall Ground Improvement in Progress	70+060	RHS
4	Subgrade work in progress	92+600	LHS



Sl.No	Description	Location	Side
5	CTSB Laying work in Progress	92+650	RHS



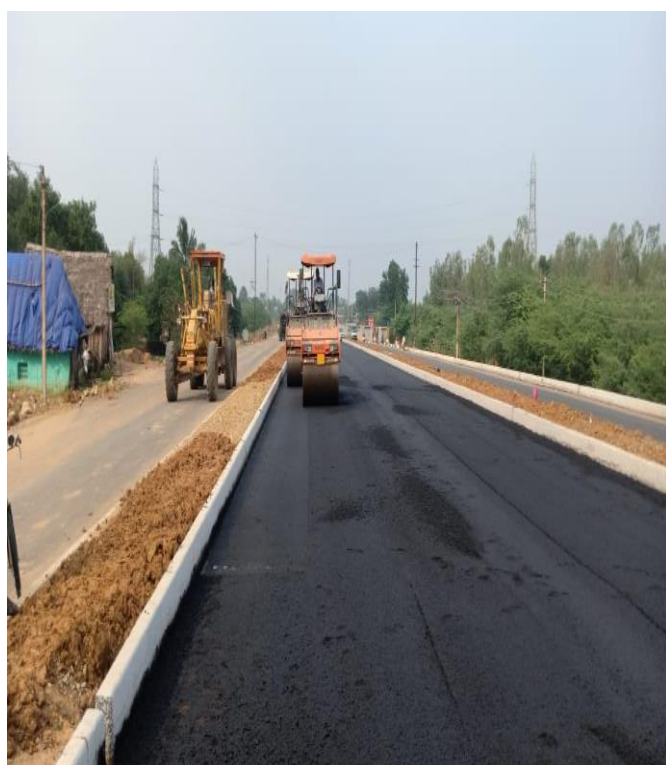
Sl.No	Description	Location	Side
6	WMM Laying work in Progress	84+120 to 84+400	RHS



Sl.No	Description	Location	Side
7	WMM Laying work in Progress	92+000 to 92+310	LHS
8	WMM Laying work in Progress	89+330 to 89+510	RHS



Sl.No	Description	Location	Side
9	DBM Laying work in Progress	99+960 to 100+260	LHS



Sl.No	Description	Location	Side
10	VUP Deck Slab work in Progress	115+258	RHS
11	VUP Pile Cap work in Progress	101+910	LHS



Sl.No	Description	Location	Side
12	MNB Crash Barrier in Progress	92+342	LHS
13	Friction Slab Crash Barrier in progress	105+600	LHS



Sl.No	Description	Location	Side
14	MJB-PSC Girder Concrete in progress	66+491	
15	MJB-PSC Girder Concrete in progress	73+340	



Sl.No	Description	Location	Side
16	A1 P1 Span Segment Launching Completed	107+400	LHS

