

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
NOVEMBER 2020

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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.

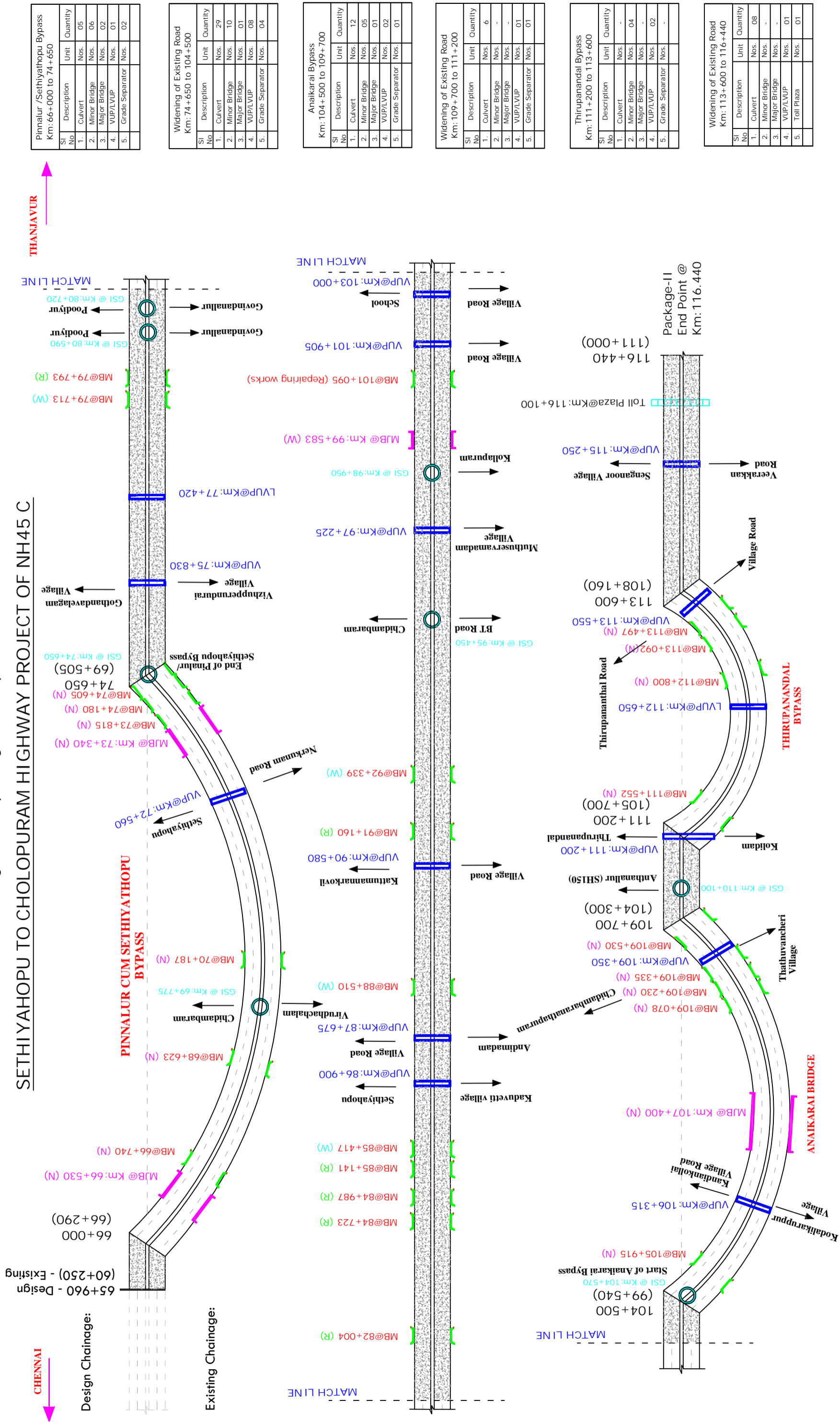
The Sethiyahopu to Cholopuram section of NH-45C is an important link to connect Metropolitan city of Chennai to religious and tourist places of Cholopuram, Thanjavur, kumbakonam, Puducherry. The project is also expected to provide improved connectivity to other religious places & other major cities like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



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

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

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

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

Analkarai Bypass
 Km: 104+500 to 109+700

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

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

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

Thirupanandal Bypass
 Km: 111+200 to 113+600

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

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

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

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.	01
7.	Minor Bridge	Nos.	07
8.	Major Bridge	Nos.	25
9.	VUP/LVUP	Nos.	04
10.	Grade Separated Structure	Nos.	15
11.	Minor Intersection	Nos.	08
12.	Major Intersection	Nos.	09
13.	Bus Bays and Shelters	Nos.	01

Drawing Title

Strip Plan - Sethiyahopu to Cholapuram Highway Project

Date: 31-08-2018

Project No. PSCHP/NHA/TN/001

Figure 1: Project Location Map

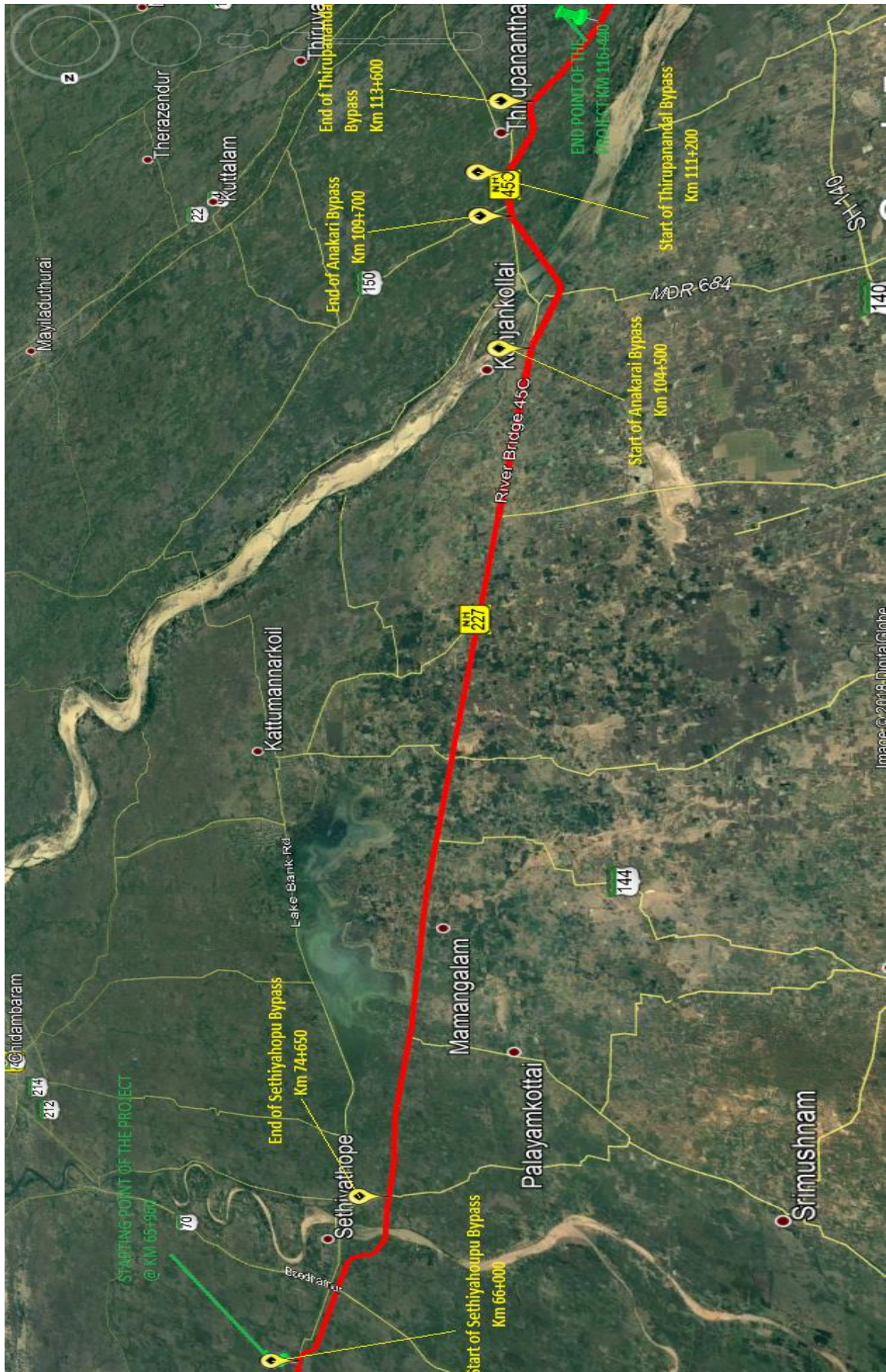


Table - 1.1: Details of Project Alignments

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	Revised Target as per proposed IEOT of 437 days	Achieved 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	27 th May 2020	15 th Dec 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	24 th Sept 2020	20 th Nov 2020
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	01 st June 2021	NA
Scheduled Completion	Concessionaire shall have completed Project on 730 th day from the Appointed Date.	15 th August 2020	25 th Oct 2021	NA

Note: PD NHA1 recommended the PCOD proposal for the completion of 20 Kms on 31.05.2021 and target for Completion of balance workable length of 15.73 kms is 30.11.2021

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.

	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		

	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.

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			
		Telephone Poles	74+710	74+850	Telephone Poles			2 - Telephone Pole
		Temple, Hand Pump,	74+710					
		Hut	75+210					
		Huts	75+270	75+350	Huts			
		Flag Poles	75+390					
			75+520		Huts			
			75+560		Huts			
			75+565	75+640	Pond			
		Building	75+640					
			75+650		Temple			

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
			75+660		Water Tap			
		Building	75+680					
			75+700		OFC			
		Bore Well & Water Tank	75+700					
		Kothanda vilagam Village	75+700	76+200	Kothanda vilagam Village			
		Hand Pump	75+710					
		Water Tap	75+810					
		Street Light	75+840					
		Flag Pole	75+840		Existing Culvert			
		Water Tap	75+880					
		Bore Well & Water Tank	76+025					
		Pump Set	76+260					
			76+600		Temple			
			76+695		OFC & Compound Wall			

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
			76+800	77+300	Telephone Pole			3 nos
			76+850		OFC			
			76+940		Bore & Water Tank			
		Buildings	76+980		Buildings			
			77+060		Bore & Water Tank			
			77+080	77+190	School Compound Wall			
		Building	77+100	77+300				
			77+220		Building			
			77+240		OFC			
			77+280		Compound Wall			
	300	Buildings	77+300	77+600	Buildings	300		
		Flag Pole	77+390	77+420				4 Nos
		Hand Pump	77+505					
		Telephone Pole	77+390	77+510				3 Nos

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
		Hand Pump	77+590					
			77+700		OFC			
		Building	77+730					
			77+760		Water Tank & Motor Room			
		Water Tap	77+975					
			78+120		OFC			
			78+390		EB Pole, Bore Well			
			78+725		Transformer			
			79+080		OFC			
		Hand Pump	79+105					
		Existing Culvert	79+110					
			79+220		Flag Pole			
		Water Tank & Motor Room	79+240					
			79+260		OFC			

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
			79+565		OFC			
		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+190		OFC			
			80+300	80+390	Pond			
		Transformer	80+340					
		Flag Poles	80+530	80+570	Flag Poles			6nos
			80+710		Existing Culvert			
		Bore Well	80+740					
			80+900		OFC			
			81+325	81+360	Existing Culvert & Compound Wall			
















Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
		Pond	81+360	81+460				
		OFC & Temple	81+445					
			81+585		OFC			
		Transformer	81+715					
			82+875		Existing Culvert			
			82+890		OFC			
		Existing Culvert	82+975					
	450	Water Tap	83+000	83+500	Water Tap	450		Tap - 6
			83+060		OFC			
		Existing Culvert	83+205					
		OFC	83+265					
			83+310		OFC			
		Flag Post	83+385					
			83+425		Transformer			25

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	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			
			83+625		OFC			
		EB, Transformer	83+850					
			83+890		Flag Poles			4 nos
			83+935		Water Tank			
			83+995		Hand Pump			
		Temple & Well	84+070					
			84+110		OFC & Flag Pole			
			84+280		Transformer			
		Transformer	84+480					
			84+560		Flag & Ex Culvert			Pole 2 Nos
			84+650		OFC			
			84+920		OFC			

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
		Building	84+930	84+980				
		Hut	85+045					
			85+060		EB, Transformer			
			85+090		OFC			
		Transformer	85+865					
		Building	85+910					
		Hut	85+930					
			85+955		Temple			
			86+280		Temple			
			86+350		Bore Well			
		Temple	86+390					
			86+585		Motor Room			
		Buildings	86+000	86+700	Buildings			
	700	Building & Huts	86+700	87+500	Building & Huts	700		















Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
			86+720		Flag Pole			
			86+830		OFC, Transformer			
		Transformer	86+915					
			86+985		OFC			
		Existing Culvert	87+080					
			87+155		OFC			
		Transformer	87+330					
			87+360		OFC			
	400	EB Pole, Tree, Tap, Telephone Pole	87+500	88+000	EB Pole, Tree, Tap, Telephone Pole	400		EB - 24, Tree - 163, Tap - 13, T Pole - 5
		Buildings & Huts	87+500	88+000	Buildings & Huts			
		Temple	87+500					
			87+640		OFC			
			87+670		Water Tank, Motor Room			
			87+690		Temple			

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
			87+735		Flag Pole			
			87+835		Water Tank			
			87+990		OFC			
			88+225		Transformer			
		House	88+500	89+000	House			
			88+910		Temple			
		Existing Culvert	88+965					
	450	water Tap, Telephone Pole	89+000	89+500	water Tap, Telephone Pole	450		Tap - 15, T Pole - 5, Tree - 195
		Flag Post Pedestal	89+110					
			89+355		Temple			
		Water Tank	89+515					
	400	EB Pole, Water Tap, House	90+000	90+500	EB Pole, Water Tap, House	400		EB - 34, Tap - 4
			90+180		Transformer			

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
			90+195		OFC			
			90+230		Transformer			
			90+325		Temple			
			90+375		Existing Culvert			
	400	EB Pole, Telephone Pole, Water Tap	90+500	91+000	EB Pole, Telephone Pole, Water Tap	400		EB - 14, Tap - 5, T. Pole 7
			90+560		OFC			
			90+610		Water Tank			
			90+830	90+860	Pond			
			91+080		OFC			
			91+480		OFC			
	450	EB Pole, Water Tap, Telephone Pole, Trees	91+500	92+000	EB Pole, Water Tap, Telephone Pole, Trees	450		
			91+600		OFC			
			91+730		OFC			
			91+780		Temple			

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
		Pond	91+780	91+860				
	700	EB Pole, Water Tap, Telephone Pole	92+000	93+000	EB Pole, Water Tap, Telephone Pole	700		EB - 16, Tap - 10, T, T Pole - 7
		Temple	92+135					
			92+300	92+380	Water Pipe Crossing			
			92+390		OFC			
		Temple	92+455					
			92+570		Temple			
			92+600		OFC			2 Nos
			92+770		OFC			2 Nos
		OFC	92+995					
	750	EB Pole, Water Tap, Tree	93+000	94+000	EB Pole, Water Tap, Tree	750		EB - 44, Tape - 14, Tree - 270
			93+045		OFC			
			93+115		Transformer			
			93+200		OFC			














Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
			93+360		OFC			
			93+660		OFC			
			93+930		Hand Pump			
			93+975		OFC			
		TEMPLE	94+440					
			94+530		OFC			
			94+780		OFC, Transformer			
		Pond, Pipe Line	94+830	94+900				
	450	EB Pole, Tape, Telephone Pole	95+000	95+500	EB Pole, Tape, Telephone Pole	450		EB - 16, T Pole - , Tap 5
			95+130	95+230	Compound Wall			
			95+210		Telephone Panel, Water Tank With Well			
			95+255		Police Station Arch			
			95+290		OFC			
			95+435		Street Light			

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	400	EB Pole, Tape, Telephone Pole	95+500	96+000	EB Pole, Tape, Telephone Pole	400		EB - 25, T Pole - 7, Tap - 6,
			95+570		Temple			
		Pond	95+950					
	400	EB Pole, Tape, Telephone Pole	96+000	96+500	EB Pole, Tape, Telephone Pole	400		EB - 39, T Pole - 5, Tap - 6,
			96+120		OFC			
			96+150		Transformer			
			96+480		Transformer			
	450	EB Pole, Tape, Telephone Pole	96+500	97+000	EB Pole, Tape, Telephone Pole	450		EB - 16, T Pole - 3,
			97+195		OFC			
			97+395		OFC			
			97+390	97+500	Pond			
	300	EB Pole, Tape, Telephone Pole	97+500	98+000	EB Pole, Tape, Telephone Pole	300		EB - 16, Tap - 5,
		Temple	97+520					
			97+600		OFC			







Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
			97+680		Motor Room With Bore			
	350	EB Pole, Tape, Telephone Pole	98+500	99+000	EB Pole, Tape, Telephone Pole	350		EB - 19, T Pole - 3
			98+620		Transformer			
		OFC	98+635		Temple			
		Water Tank with Bore	98+735					
		OFC	98+825					
	750	EB Pole, Tree, Tape, Telephone Pole	99+000	100+000	EB Pole, Tree, Tape, Telephone Pole	750		EB - 47, T Pole - 4, Tap - 5, Tree 118
			99+120		Temple			
		Motor Room With Bore	99+150					
			99+160		Transformer			
			99+195		Temple With Water Tank			
		OFC	99+300					
		OFC	99+490					
	650	EB Pole, Tree, Tape, Telephone Pole	100+000	101+000	EB Pole, Tree, Tape, Telephone Pole	650		EB - 32, Tap - 12, Tree 210, T Pole - 3

















Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
		Transformer	100+150					
			100+195		Bore Well			
			100+200		OFC			
		OFC	100+320					
		Pond	100+350					
		Motor Room With Tank	100+390					
			100+475		Water Tank			
		OFC	100+600					
		OFC	100+670					
		OFC	100+720					
		OFC	100+740					
		Pond	100+740	100+820				
	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+005		OFC			
















Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
		OFC	101+125					
			101+120	101+300	Pond			
		OFC	101+330					
			101+480		Hand Pump			
			101+805		OFC			
		Transformer	101+835					
	750	EB Pole, Tree, Tape, Telephone Pole	102+000	103+000	EB Pole, Tree, Tape, Telephone Pole	750		EB - 30, T Pole - 2, Tap - 13, Tree 110
		OFC	102+100					
			102+240		Temple			
			102+365		Transformer			
		OFC	102+390					
		OFC	102+435					
		OFC	102+575					
		OFC	102+730					




Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
		Schooh Arch	102+960					
	800	Tape, Telephone Pole	103+000	104+000	Tape, Telephone Pole	800		T Pole - 2, Tap - 13
		OFC	103+025					
		Pond	103+090	103+300				
		OFC	103+530					
			103+590		Temple			
		OFC & Flag Pole	103+720					
		Pond	103+775	103+815				
			103+860	103+910	Pond			
		Pond	103+935	104+250				
		Existing Irrigation Sluice	103+990					
	400	EB Pole, Tree	104+000	104+500	EB Pole, Tree	400		EB - 4, Tree - 3
		House	104+500		House			
	350	EB Pole, Tree, Tape	104+500	105+200	EB Pole, Tree, Tape	350		Tree - 21, EB - 23, Tap - 3

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	500	EB Pole, Tree, Tape	105+200	105+900	EB Pole, Tree, Tape	500		Tree - 42, EB - 4, Tap - 4
			105+850		Motor Room			
	750	EB Pole, Tree, Tape	105+900	106+900	EB Pole, Tree, Tape	750		Tree - 100, EB - 1, Tap - 7
			105+920		Well			
		Motor Room	106+900					
	1150	EB Pole, Tree, Tape	107+900	109+700	EB Pole, Tree, Tape	1150		Tree - 94, EB - 9, Tap - 6
	1350	Tape	109+700	111+200	Tape	1350		Tap - 18
		OFC	109+705					
		OFC	109+710					
			109+720		Motor Room			
			109+985		Water Pipe			
		OFC	110+330					
		Water Tank	110+450					
			110+725		OFC			


Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
			110+740		Motor Room with well			
	1750	EB Pole, Tree, Tape	111+200	113+500	EB Pole, Tree, Tape	1750		Tree - 460, EB -23, Tap - 12
		OFC	111+230		OFC			
			111+450		Motor Room With Bore			
		Gate Valve	111+500					
		Motor Room With Bore	111+600					
			111+680		Motor Room With Bore			
		Motor Room With Bore	112+300					
			112+310		House & Hand Pump			
			112+390		Motor Room With Bore			
			113+220		Motor Room With Bore			
			113+250		House			
			113+330		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








Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
			113+670	113+720	Sub Station			
			113+700		HT Line Crossing			
			114+060		Flag Pole			
			114+090		Flag Pole, Water Tank			
		HT Line	114+130					
		Transformer	114+460					
		Water Tank	114+450					
		Water Tank	114+495					
		OFC	114+520		Temple			
		Pond	114+540	114+580				
	650	EB Pole, Telephone Pole, Tree, Tape	114+600	115+600	EB Pole, Telephone Pole, Tree, Tape	650		Tree - 80, EB -18, Tap - 2
		Hand Pump	114+610					
		Transformer	114+950					
		Transformer	115+210					

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
			115+230		Flag Pole			5 Nos
	700	Telephone Pole, Tape	115+600	116+440	Telephone Pole, Tape	700		EB -26, T Pole - 2 Tap - 16
			115+650		Motor Room			
		OFC	115+820					
		Transformer	115+970					
		OFC	116+095					
		OFC	116+170					
		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			Effectuated 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 November 2020 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	2.32	21.67	54.17%
	RHS	47.28	20.665	0.00	20.665	5.34	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	19.60	0.27	19.87	0.51	27.41	42.03%
4	GSB/ Cement Treated Base							
	LHS	47.28	18.95	0.12	19.07	1.20	28.21	40.33%
	RHS	47.28	15.55	0.19	15.74	2.65	31.54	33.29%
5	Wet Mix Macadam							
	LHS	47.28	18.21	0.00	18.21	0	29.07	38.52%
	RHS	47.28	13.49	0.43	13.92	0	33.36	29.44%
6	Dense Bitumen Macadam							
	LHS	47.28	16.70	0.00	16.70	0	30.58	35.32%
	RHS	47.28	13.76	0.00	13.76	0	33.52	29.10%
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	5.71	1.09	6.80	4.01	46.39	12.78%
2	Sub grade	53.19	4.78	0.13	4.91	0.47	48.28	9.23%
3	GSB/ Cement Treated Base	53.19	2.47	0.00	2.47	0.45	50.72	4.64%
4	Wet Mix Macadam	53.19	1.62	0.00	1.62	0	51.57	3.05%
5	Dense Bitumen Macadam	53.19	1.00	0.00	1.00	0	52.19	1.88%
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	13	20
2	Light Vehicular Underpass	2	1	0	1
3	Vehicular Underpass	13	3	9	1
4	Minor Bridges	25	9.5	11.5	4
5	Major Bridge	4	0	4	0
6	Flyover	8	1	6	1

The Physical Progress of the Project up to November 2020 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%	33.18	4.716%
	(2) Granular work (sub-base, base, shoulders)					
	(a) GSB/ Cement Treated Base	Km	65.52	3.373%	29.30	1.508%
	(b) WMM/ Cement Treated Base	Km	65.52	4.046%	28.20	1.741%
	(3) Shoulders	Km	17.65	0.112%		
	(4) Bituminous work					
	(a) DBM	Km	65.52	3.344%	26.98	1.377%
	(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%	5.51	0.310%
	(b) WMM/ Cement Treated Base	Km	28.68	1.436%	3.93	0.197%
	(3) Shoulders	Km	24.63	0.112%		
	(4) Bituminous work					
	(a) DBM	Km	28.68	1.279%	3.48	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%	

MPR NOVEMBER 2020

	(2) Minor bridges					
	(a) Foundation	Nos.	58	3.953%	32.00	2.181%
	(b) Substructure	Nos.	134	2.623%	82.00	1.605%
	(c) Superstructure (including crash barrier etc. complete)	Nos.	50	1.559%	21.00	0.655%
	(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%	41.00	1.885%
	(ii) Substructure	Nos.	60	0.751%	34.00	0.426%
	(iii) Superstructure (including crash barrier etc. complete)	Nos.	30	1.289%	8.00	0.344%
	(b) Overpass					
	(i) Foundation					
	(ii) Substructure					
	(iii) Superstructure (including crash barrier etc. complete)					
	(c) Flyover					
	(i) Foundation	Nos.	36	2.426%	26.00	1.752%
	(ii) Substructure	Nos.	36	0.470%	22.00	0.287%
	(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					

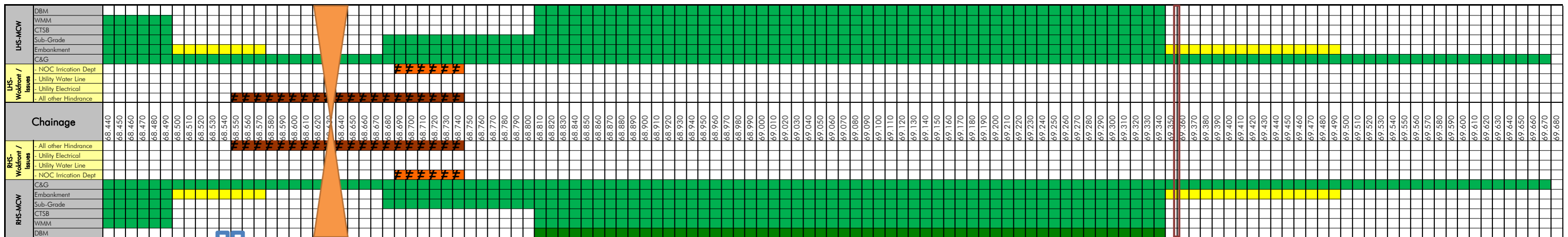
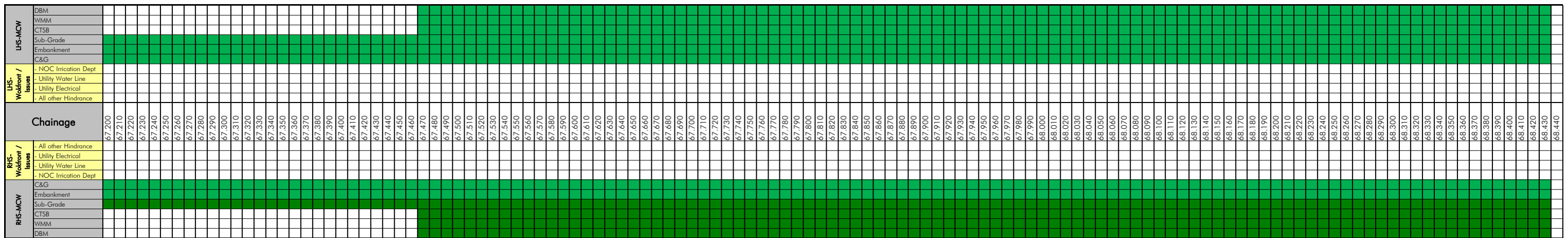
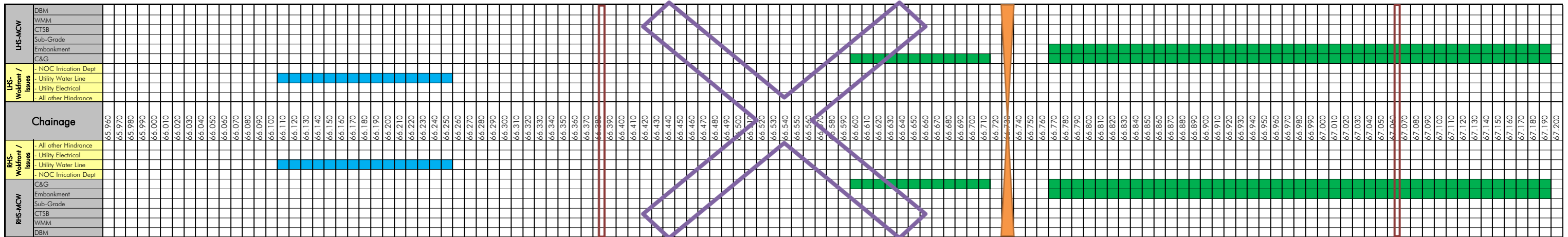
	(2) Sub-structure					
	(3) Super-structure (including crash barriers etc. complete)					
	C- New Major Bridges					
	(1) Foundation					
	(a) Open Foundation					
	(b) Pile Foundation/ Well Foundation					
	(i) Foundation	Nos.	84	9.699%	53.00	6.120%
	(2) Sub-structure	Nos.	84	4.576%	41.00	2.233%
	(3) Super-structure (including crash barriers etc. complete)					
	(i) For MJB at Km. 107+400					
	(a) Casting of Superstructure (Box Segment)	Nos.	666	1.450%	296.00	0.644%
	(b) Erection of Superstructure (Box Segment)	Nos.	666	1.050%		
	(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%	46910.34	1.820%

Other Works	(i) Service roads/ Slip Roads	Km	53.19	4.690%		
	(ii) Toll Plaza	Nos.	1	1.821%		
	(iii) Road side drains	Km	28.85	5.429%	5.35	1.007%
	(iv) Road signs, markings, km stones, safety devices,					
	(a) Road signs, markings, km stones, ...	Km	100.96	2.558%		
	(b) Concrete Crash Barrier/ W-Beam Crash Barrier in Road work					
	(i) Concrete Crash Barrier	Km	26.5	1.179%		
	(ii) W-Beam Crash Barrier	Km	10.03	0.788%		
	(v) Project facilities					
	(a) Bus Bays	No.	18	0.009%		
	(b) Truck Lay-byes	No.				
	(c) Rest areas	No.				
	(vi) Repairs to bridges/structures	Nos.				
	(vii) Road side plantation	Km	23.66	0.451%		
	(viii) Protection works					
	(a) Boulder pitching on slopes	Km	10.03	0.218%		
	(b) Toe/Retaining wall	Km	10.03			
	(x) Miscellaneous	Ls.	100%	0.164%	0.098%	0.098%
		Total			100.00%	

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

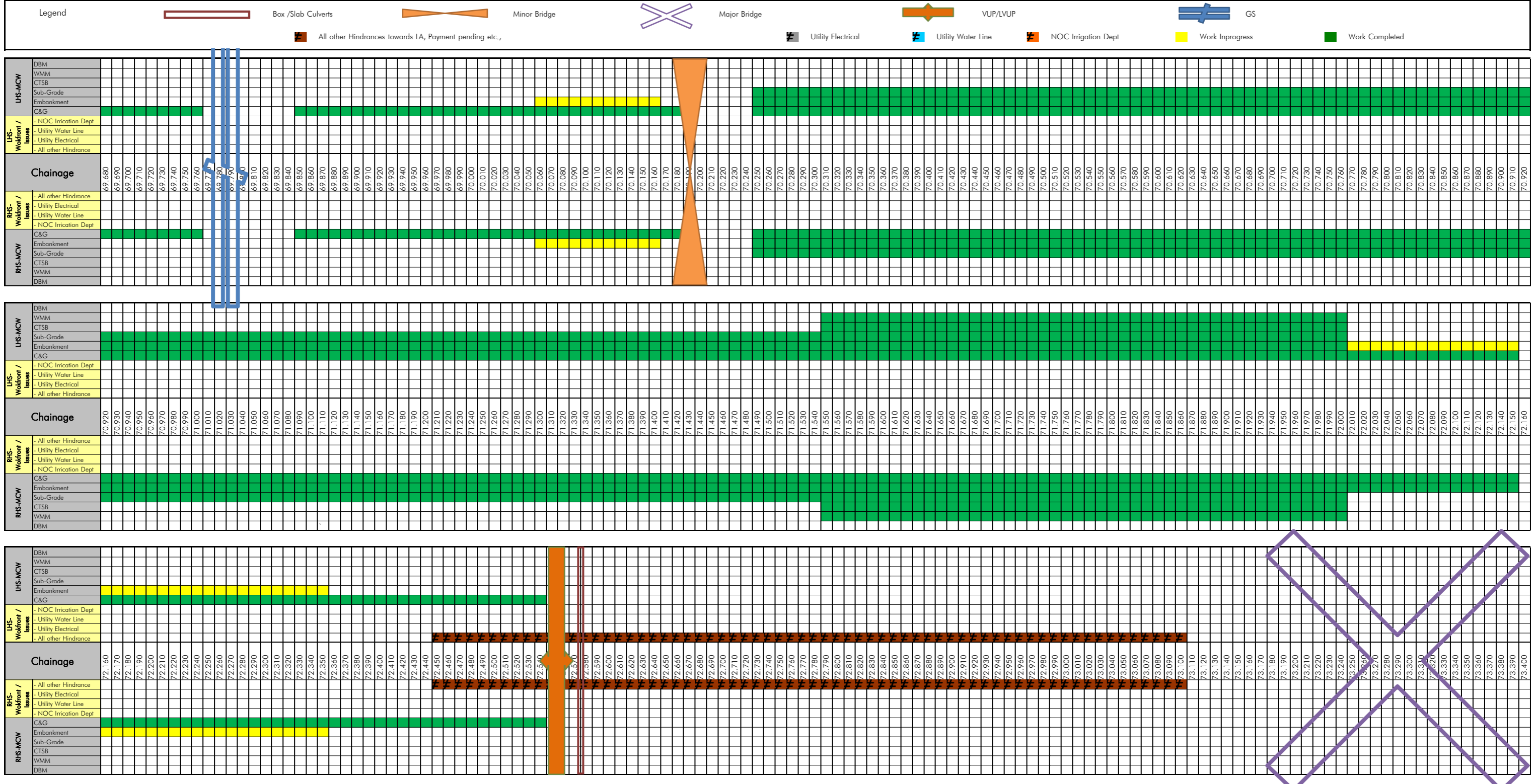
Strip Plan for MCW on 30-11-2020



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

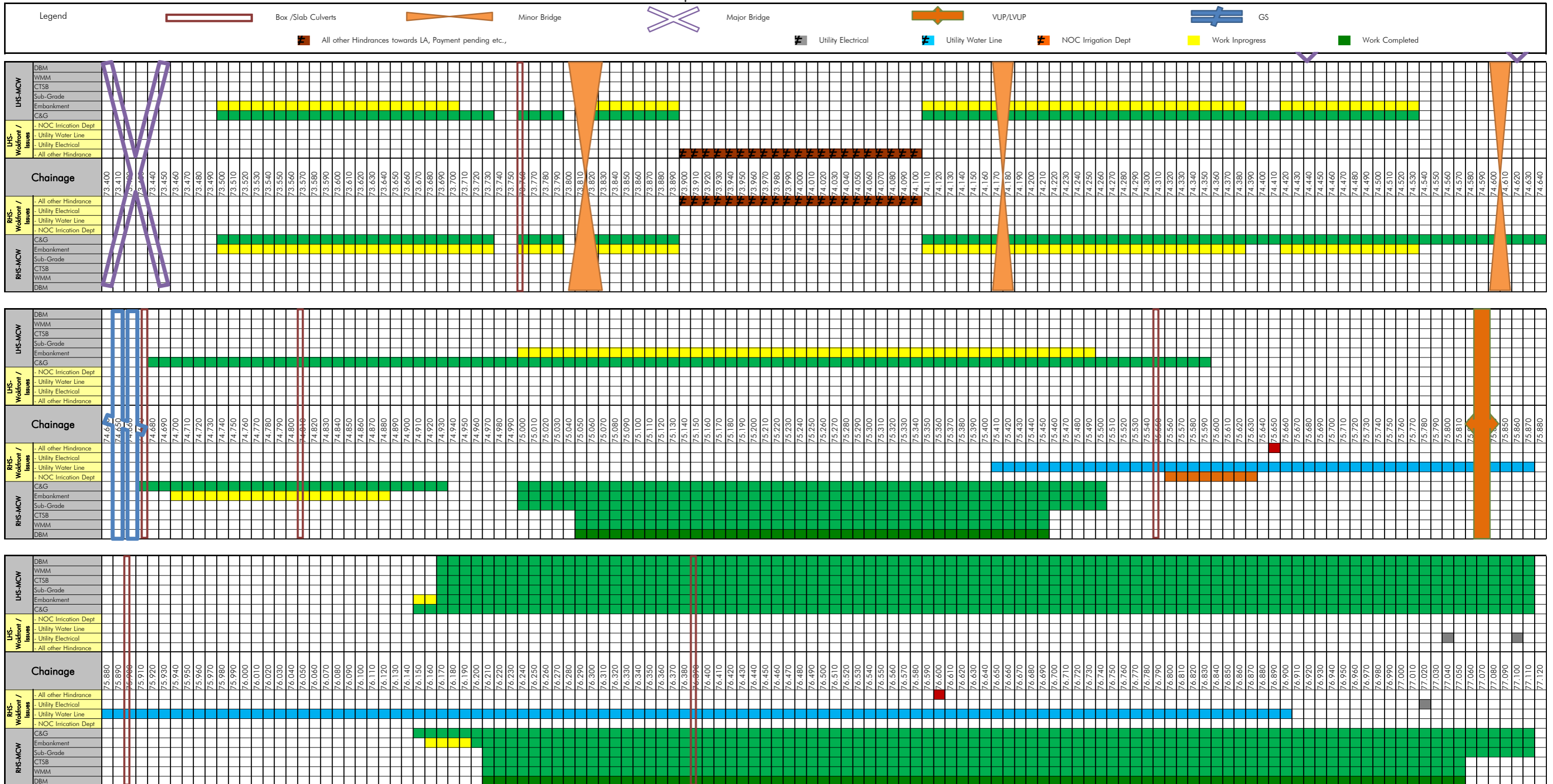
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Sethiyahopu - Cholopuram Road Projects

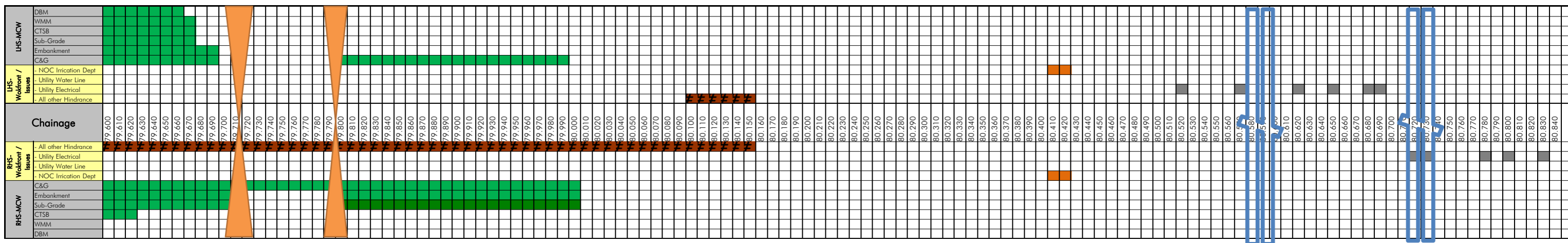
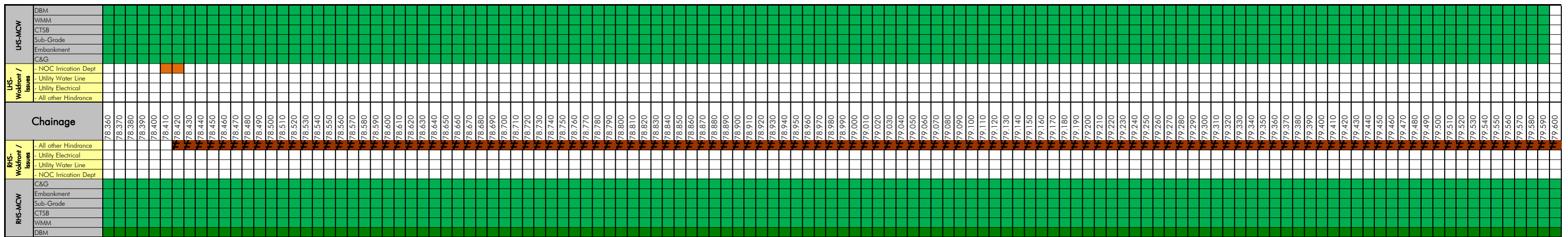
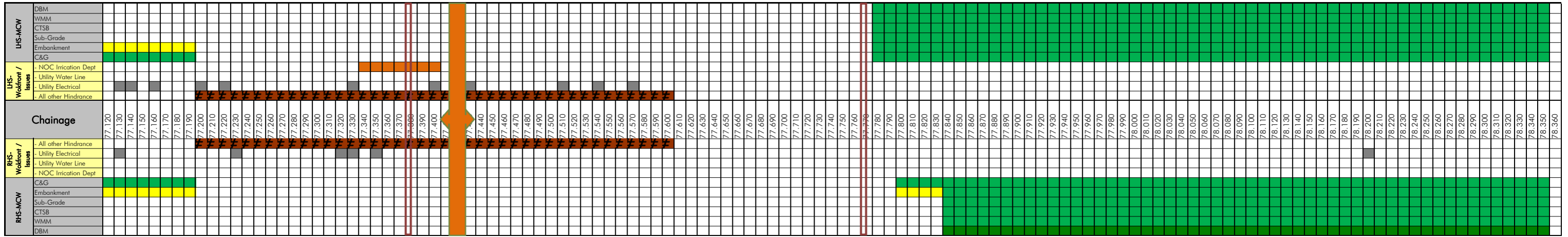
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Sethiyahopu - Cholopuram Road Projects

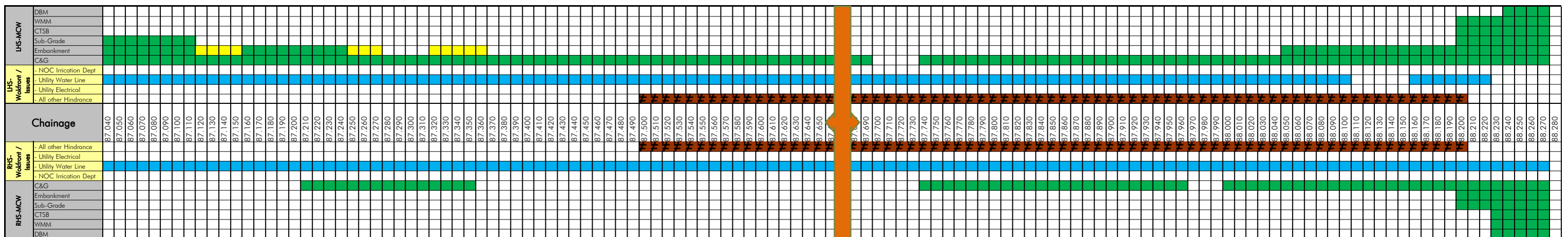
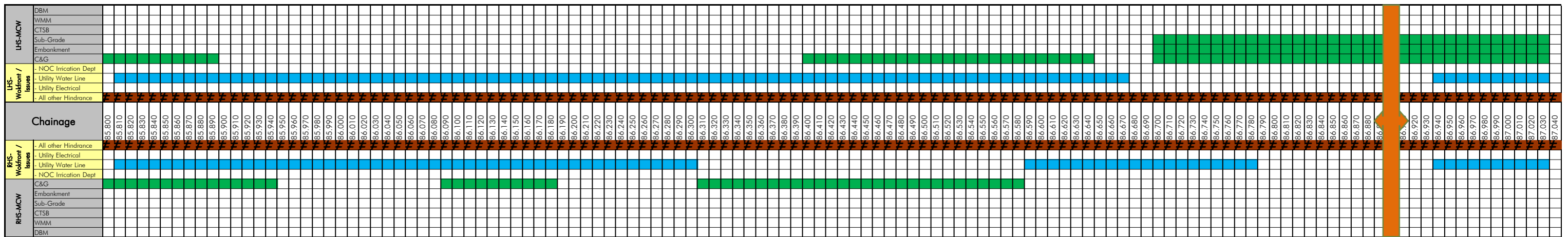
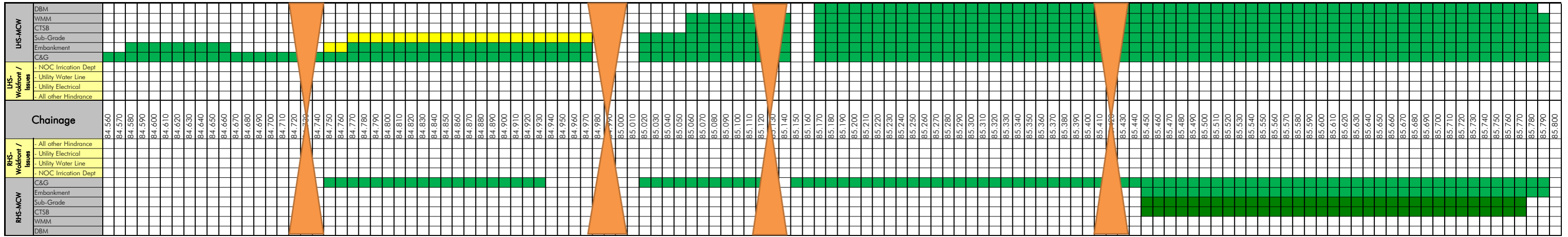
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Sethiyahopu - Cholopuram Road Projects

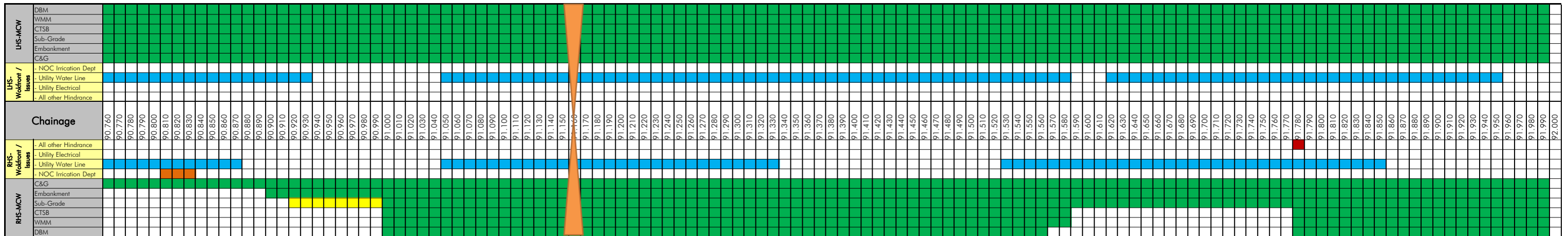
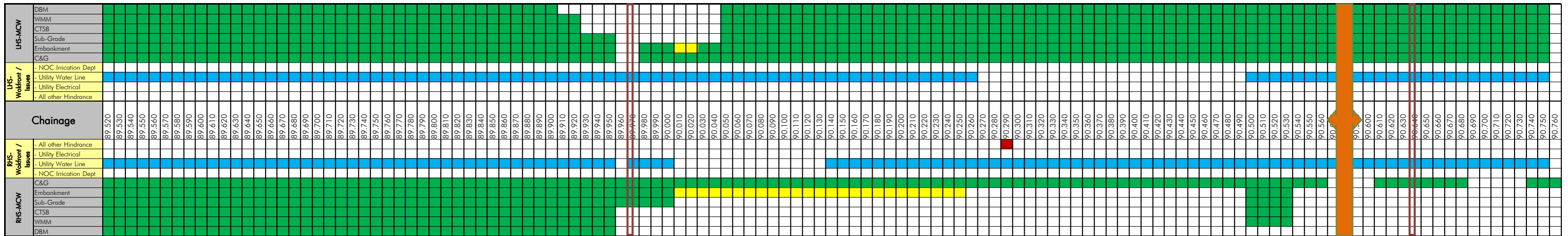
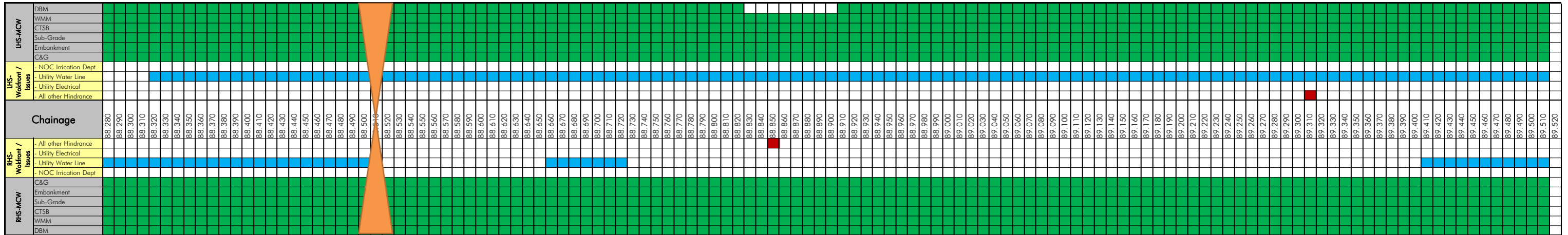
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Sethiyahopu - Cholopuram Road Projects

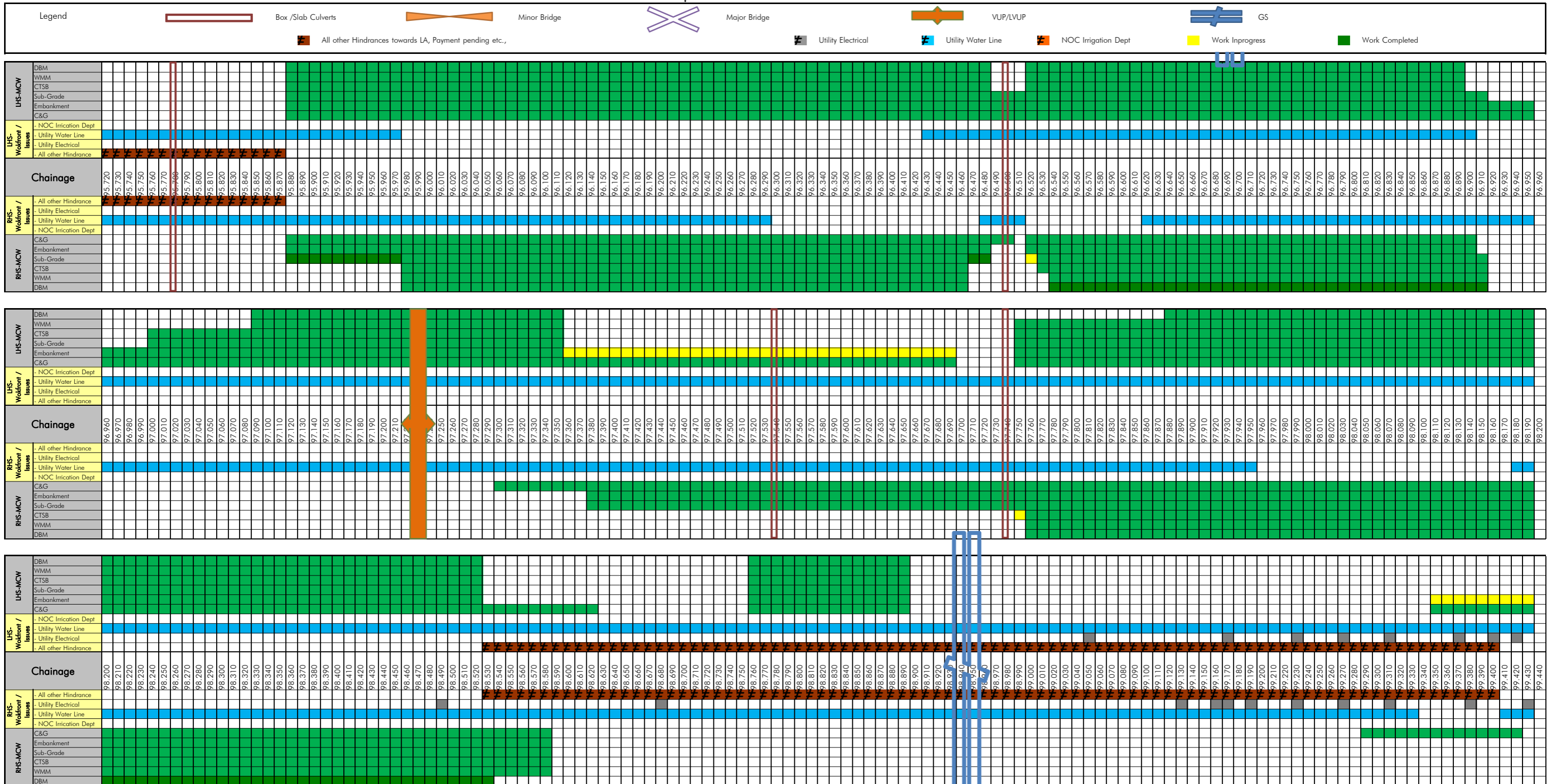
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Sethiyahopu - Cholopuram Road Projects

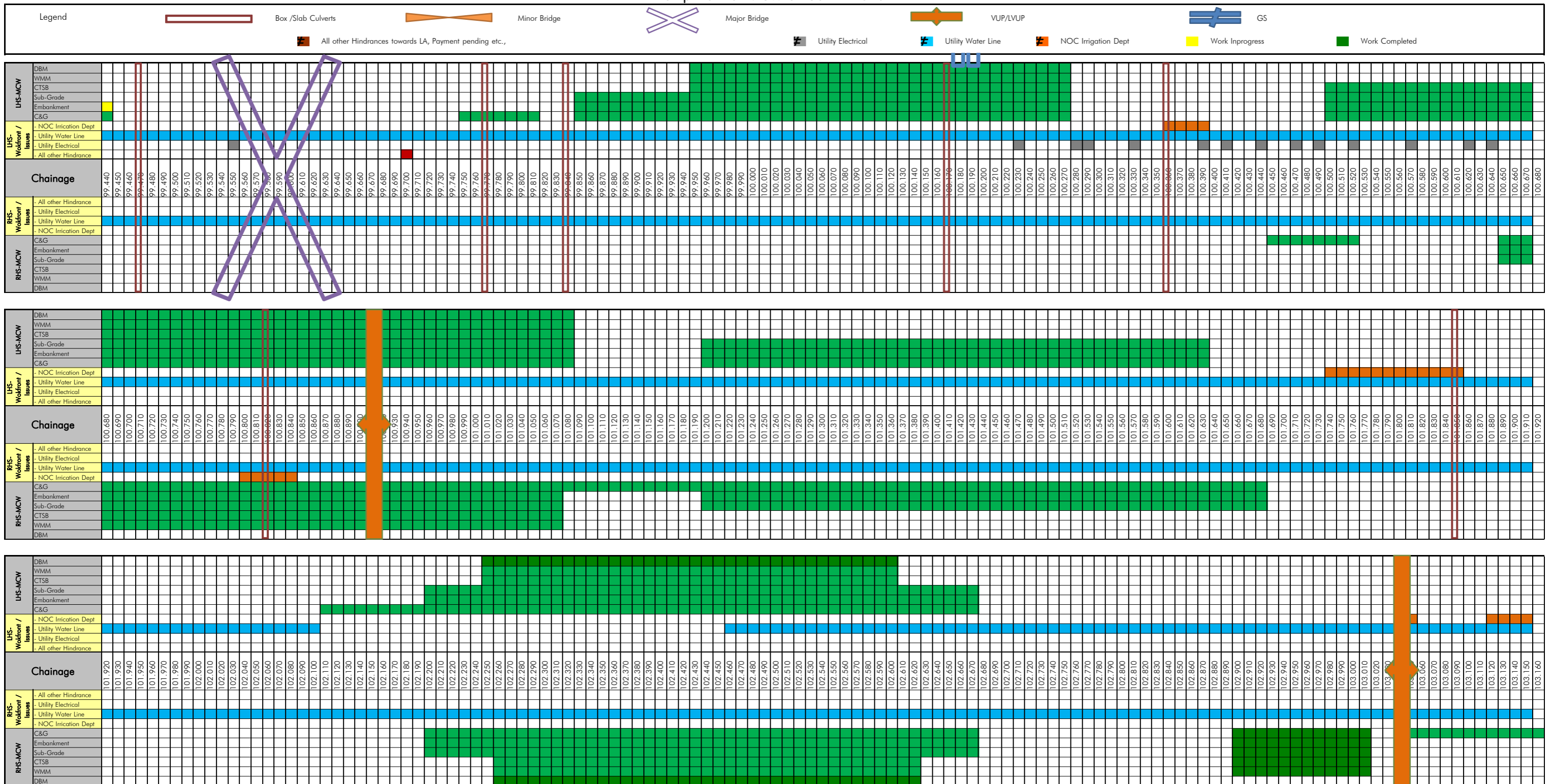
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Sethiyahopu - Cholopuram Road Projects

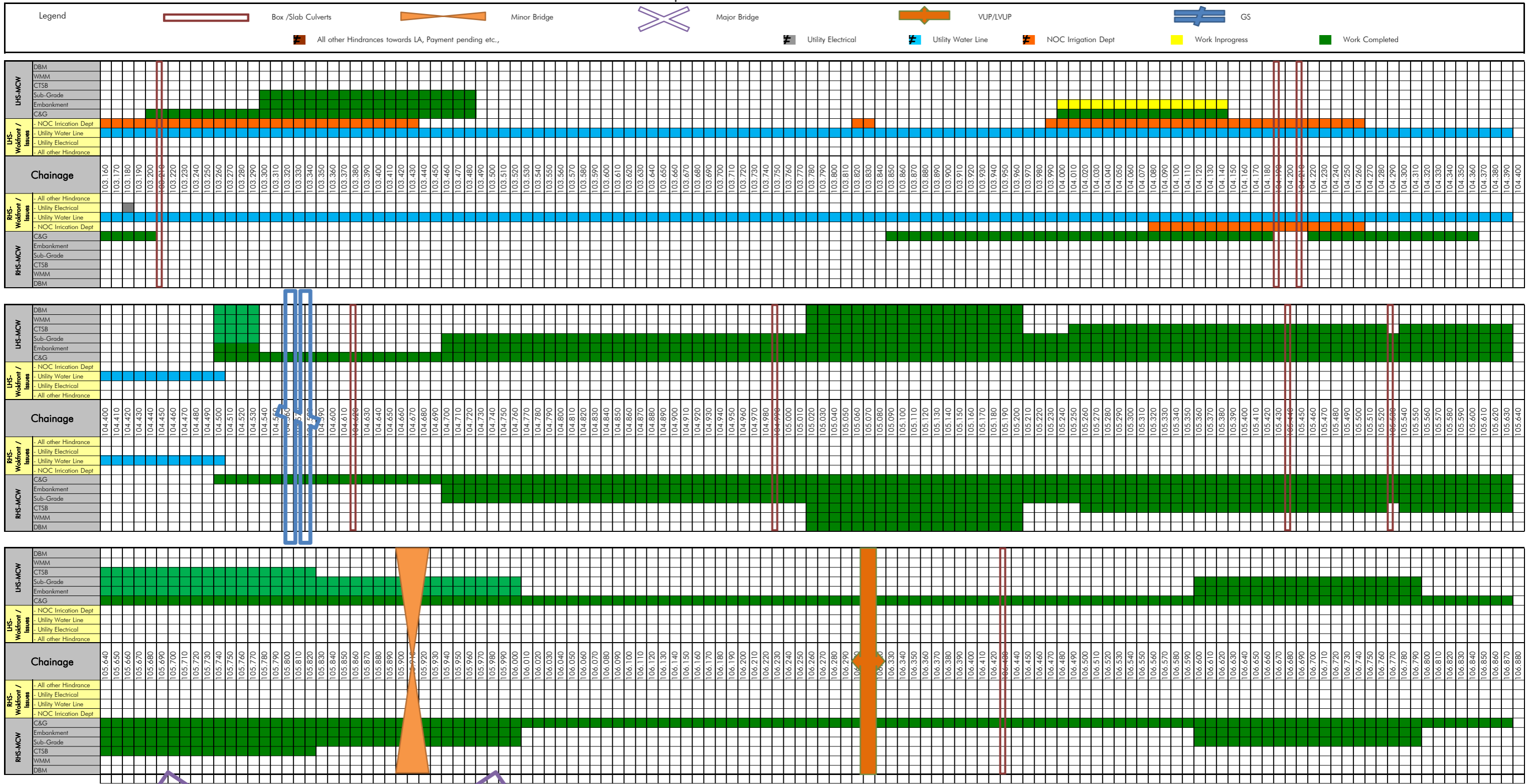
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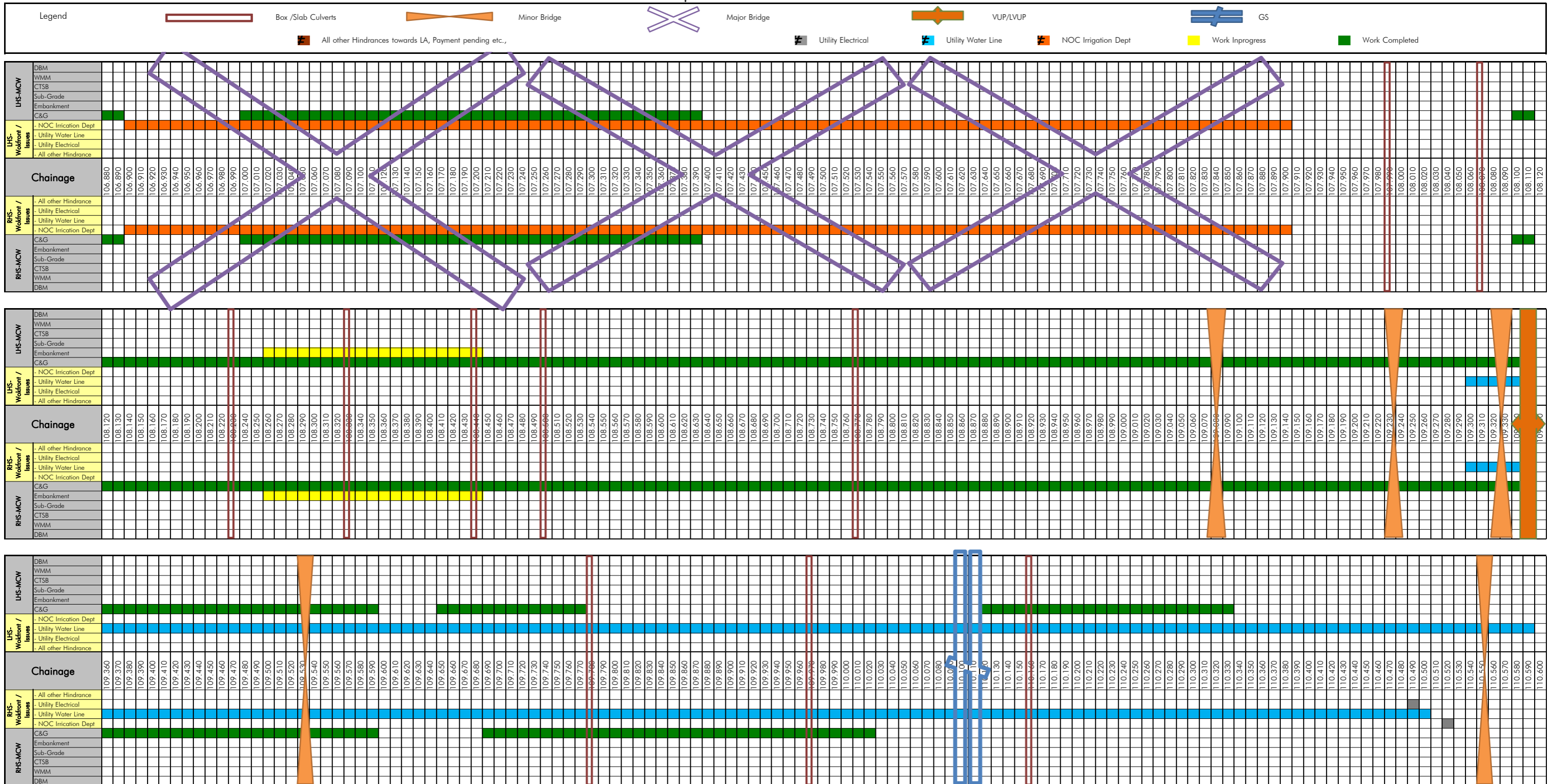
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Sethiyahopu - Cholopuram Road Projects

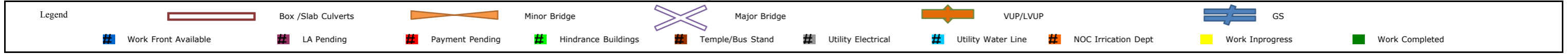
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Sethiyahopu - Cholopuram Road Projects

Strip Plan for SR on 30-11-2020



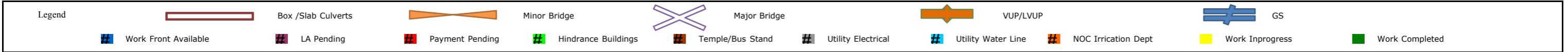
LIIS-MCW	DBM	WMM	CTS	Sub-Grade	Embankment	C&G
Chainage	69.460					
	69.470					
	69.480					
	69.490					
	69.500					
	69.510					
	69.520					
	69.530					
	69.540					
	69.550					
69.560						
69.570						
69.580						
69.590						
69.600						
69.610						
69.620						
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70.780						
70.790						
70.800						
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70.850						
70.860						
70.870						
70.880						
70.890						
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70.910						
70.920						
70.930						
70.940						
70.950						
70.960						
70.970						
70.980						
70.990						
71.000						
71.010						
71.020						
71.030						
71.040						
71.050						
71.060						
71.070						
71.080						
71.090						
71.100						
71.110						
71.120						

LIIS-MCW	DBM	WMM	CTS	Sub-Grade	Embankment	C&G
Chainage	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						
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74.480						
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75.340						
75.350						
75.360						
75.370						
75.380						
75.390						
75.400						
75.410						
75.420						
75.430						
75.440						
75.450						
75.460						
75.470						
75.480						
75.490						
75.500						
75.510						
75.520						
75.530						
75.540						
75.550						
75.560						
75.570						
75.580						
75.590						
75.600						
75.610						
75.620						
75.630						
75.640						
7						

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 30-11-2020



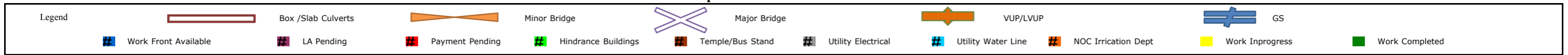
LHS-MCW	DBM	WMM	CTS	Sub-Grade	Embankment	C&G	Chainage	RHS-MCW	C&G	Embankment	Sub-Grade	CTS	WMM	DBM
							89.520							
							89.530							
							89.540							
							89.550							
							89.560							
							89.570							
							89.580							
							89.590							
							89.600							
							89.610							
							89.620							
							89.630							
							89.640							
							89.650							
							89.660							
							89.670							
							89.680							
							89.690							
							89.700							
							89.710							
							89.720							
							89.730							
							89.740							
							89.750							
							89.760							
							89.770							
							89.780							
							89.790							
							89.800							
							89.810							
							89.820							
							89.830							
							89.840							
							89.850							
							89.860							
							89.870							
							89.880							
							89.890							
							89.900							
							89.910							
							89.920							
							89.930							
							89.940							
							89.950							
							89.960							
							89.970							
							89.980							
							89.990							
							90.000							
							90.010							
							90.020							
							90.030							
							90.040							
							90.050							
							90.060							
							90.070							
							90.080							
							90.090							
							90.100							
							90.110							
							90.120							
							90.130							
							90.140							
							90.150							
							90.160							
							90.170							
							90.180							
							90.190							
							90.200							
							90.210							
							90.220							
							90.230							
							90.240							
							90.250							
							90.260							
							90.270							
							90.280							
							90.290							
							90.300							
							90.310							
							90.320							
							90.330							
							90.340							
							90.350							
							90.360							
							90.370							
							90.380							
							90.390							
							90.400							
							90.410							
							90.420							
							90.430							
							90.440							
							90.450							
							90.460							
							90.470							
							90.480							
							90.490							
							90.500							
							90.510							
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							90.620							
							90.630							
							90.640							
							90.650							
							90.660							
							90.670							
							90.680							
							90.690							
							90.700							
							90.710							
							90.720							
							90.730							
							90.740							
							90.750							
							90.760							

LHS-MCW	DBM	WMM	CTS	Sub-Grade	Embankment	C&G	Chainage	RHS-MCW	C&G	Embankment	Sub-Grade	CTS	WMM	DBM
							90.760							
							90.770							
							90.780							
							90.790							
							90.800							
							90.810							
							90.820							
							90.830							
							90.840							
							90.850							
							90.860							
							90.870							
							90.880							
							90.890							
							90.900							
							90.910							
							90.920							
							90.930							
							90.940							
							90.950							
							90.960							
							90.970							
							90.980							
							90.990							
							91.000							
							91.010							
							91.020							
							91.030							
							91.040							
							91.050							
							91.060							
							91.070							
							91.080							
							91.090							
							91.100		</					

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 30-11-2020

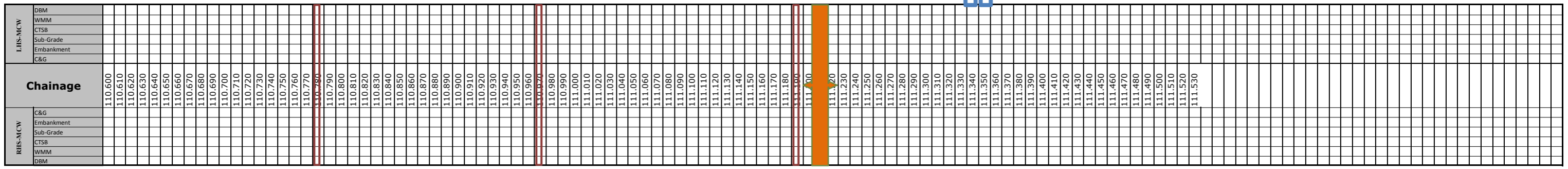
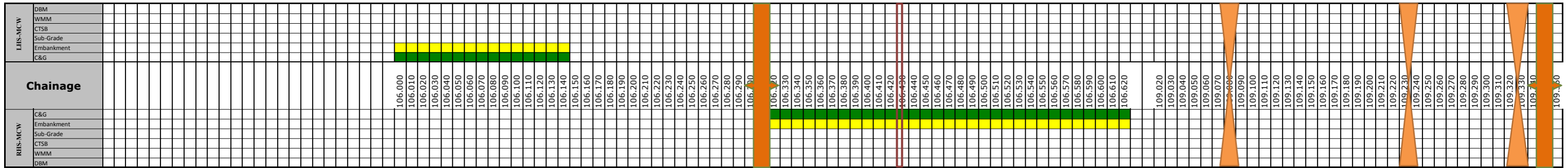
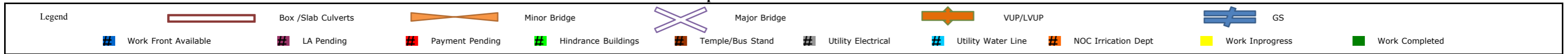


LRS-MCW	DBM	WMM	CTS	Sub-Grade	Embankment	C&G	Chainage	RIS-MCW	DBM	WMM	CTS	Sub-Grade	Embankment	C&G
							96.910							
							96.920							
							96.930							
							96.940							
							96.950							
							96.960							
							96.970							
							96.980							
							96.990							
							97.000							
							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							
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							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							
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							98.070							
							98.080							
							98.090							
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							98.120							
							98.130							
							98.140							
							98.150							
							98.160							
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							98.180							
							98.190							
							98.200							
							98.210							
							98.220							
							98.230							
							98.240							
							98.250							
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							98.270							
							98.280							
							98.290							
							98.300							
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							98.340							
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							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.							

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 30-11-2020



SETHIAHOPU CHOLOPURAM PROJECT - STATUS OF BOX CULVERTS ON EXISTING ROAD - MCW							Completed							In Progress							
Status Upto	30.11.2020						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	30.11.2020						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	30.11.2020					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	30.11.2020					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	30.11.2020					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	30.11.2020					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															

SETHIAHOPU CHOLOPURAM PROJECT - STATUS OF LVUP					Completed							In Progress						
Status Upto	30.11.2020				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	30.11.2020				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 30.11.2020	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							
MJB at Chainage 73+340 (9x30) - BYPASS									In Progress							
Status Upto 30.11.2020	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									<div style="display: flex; justify-content: space-between; align-items: center;"> Completed In Progress </div>							
Status Upto 30.11.2020	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																
A2																
MJB at Chainage 107+400 - BYPASS									<div style="display: flex; justify-content: space-between; align-items: center;"> Completed In Progress </div>							
Status Upto 30.11.2020	LHS/LSR								RHS/LSR							
	Crash Barrier	Slab	Girder Launching	Girder Casting	Pier Cap/Abt Cap	Pier/Abt	Pile Cap	Pile	Pile	Pile Cap	Pier/Abt	Pier Cap/Abt Cap	Girder Casting	Girder Launching	Slab	Crash Barrier
A1																
P1																
P2																
P3																
P4																
P5																
P6																
P7																
P8																
P9																
P10																
P11																
P12																
P13																
P14																
P15																
P16																
P17																
P18																
P19																
A2																

SETHIYAHOPU CHOLOPURAM PROJECT - STATUS OF FLYOVER					Completed									In Progress									
Status upto	30.11.2020				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																			
6	98+950	2x30	EXISTING	A1																			
				P1																			
7	104+570	1x30	BYPASS	A1																			
				A2																			
8	110+110	1x30	EXISTING	A1																			
				A2																			

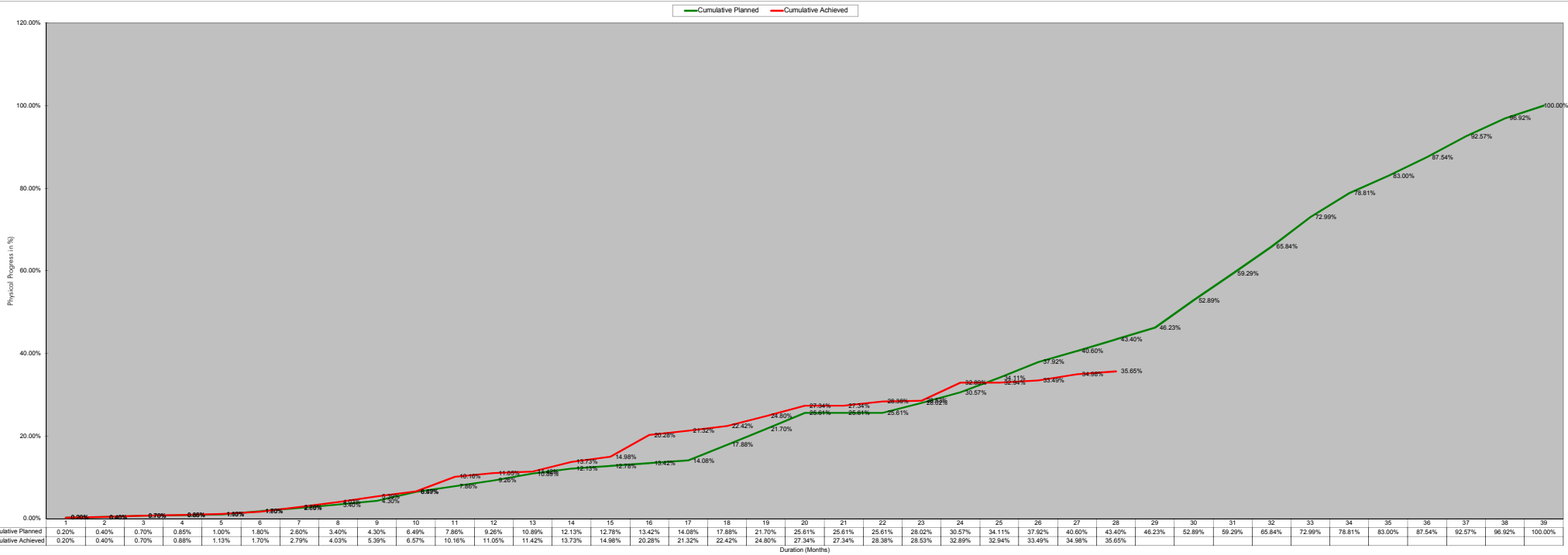
SETHIYAHOPU CHOLOPURAM PROJECT - STATUS OF VUP					Completed									In Progress									
Status upto	30.11.2020	LHS													RHS								
SR.NO.	VUP at Chainage	Span			Crash Barrier	Slab	Girder Launching	Girder Casting	Piercap /Abtcap	Abt Shaft	Pile Cap	PCC	Pile	Pile	PCC	Pile Cap	Abt Shaft	Piercap /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. 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
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%											
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%											

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 apparaus with accessories	1 Nos
45	fileld density test app - sand replacement method small	2 Set
46	shrinkage limit set W/O mercury	1 Nos
47	Mercury 250 Gm	1 Nos
48	Buoyancy balance	1 Nos
49	Spatula 8"	10 Nos
50	Spatula 4"	10 Nos
51	Standard sand - grade III - Bag of 25 kg	2 Nos
52	Standard sand - grade I - Bag of 25 kg	2 Bag
53	Standard sand - grade II - Bag of 25 kg	2 Bag
54	stanard penetrometer - automatic with digital timer	1 Nos
55	Beaking head assembly - 6'	1 Nos
56	Bulk density 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 November - 2020 are tabulated below -

Four Laning of Sethiyahopu - Cholapuram 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 November-2020

S. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month				Tests conducted during reporting month November 2020				Test conducted upto this month			
				No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos.of test witnessed by IE	No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos.of test witnessed by IE	No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos.of test witnessed by IE
1.0 Tests on OGL															
1.1	Grain size analysis	IS:2720 (Part4)	1 test / 250 meters	329	329	0	89	16	16	16	8	345	345	16	97
1.2	Atterberg Limits	IS:2720 (Part5)	1 test / 250 meters	329	329	0	89	16	16	16	8	345	345	16	97
1.3	Proctor	IS:2720 (Part8)	1 test / 250 meters	329	329	0	89	16	16	16	8	345	345	16	97
1.4	Free Swell index	IS:2720 (Part40)	1 test / 250 meters	329	324	5	89	16	14	2	8	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
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	0	0	0	0	958	958	0	546
2.2	Atterberg Limits	IS:2720 (Part5)	1 test /1500 m ³	958	958	0	546	0	0	0	0	958	958	0	546
2.3	Proctor	IS:2720 (Part8)	1 test /1500 m ³	958	958	0	546	0	0	0	0	958	958	0	546
2.4	Free Swell index	IS:2720 (Part40)	1 test /1500 m ³	958	958	0	546	0	0	0	0	958	958	0	546
2.5	California bearing ratio	IS:2720 (Part16)	1 test / 3000 m ³	225	218	10	115	0	0	0	0	225	218	10	115
2.6	Direct shear Test	IS:2720 (Part13)	1 test /3000 m ³	130	119	3	58	0	0	0	0	130	119	3	58
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	51	49	0	19	2	2	0	1	53	51	0	20
3.2	Atterberg Limits	IS:2720 (Part5)	1 test /1500 m ³	51	49	0	19	2	2	0	1	53	51	0	20
3.3	Proctor	IS:2720 (Part8)	1 test /1500 m ³	51	49	0	19	2	2	0	1	53	51	0	20
3.4	Free Swell index	IS:2720 (Part40)	1 test /1500 m ³	51	49	0	19	2	2	0	1	53	51	0	20
3.5	California bearing ratio	IS:2720 (Part16)	1 test / 3000 m ³	24	22	2	11	1	1	0	1	25	23	2	12
3.6	Direct shear Test	IS:2720 (Part13)	1 test /3000 m ³	1	1	0	1	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	27	27	0	20
4.2	Atterberg Limits	IS:2720 (Part5)	1 test /1500 m ³	27	27	0	20	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	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	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	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
5.0 FLYASH For Embankment															
5.1	Liquid Limit & Plastic limit	TABLE-1	1 test /1500 m ³	227	227	0	136	0	0	0	0	227	227	0	136
5.2	Maximum Dry Density	Clause 5.2	1 test /1500 m ³	227	227	0	148	0	0	0	0	227	227	0	148
5.3	Grain size analysis	IS:2720 (Part4)	1 test /3000 m ³	107	107	0	70	0	0	0	0	107	107	0	70
5.4	Direct shear Test	IS:2720 (Part13)	1 test /3000 m ³	87	87	0	52	0	0	0	0	87	87	0	52

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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	3959	3839	120	988
6.2	EMB field density	IS:2720 (Part28)	1 test /3000 sqm	46461	44769	1692	11608	1425	1386	39	241	47886	46155	1731	11849
6.3	SG field density	IS:2720 (Part28)	1 test / 2000 sqm	7141	6925	216	3396	136	133	3	88	7277	7058	219	3484
6.4	Shoulder field density	IS:2720 (Part28)	1 test / 2000 sqm	323	320	3	30	0	0	0	0	323	320	3	30
6.5	Ground improvement (Soil)	IS:2720 (Part28)	1 test / 2000 sqm	2435	2373	62	348	76	70	6	23	2511	2443	68	371
6.6	Ground improvement & Midean filling (Flyash)	IS:2720 (Part28)	1 test / 2000 sqm	5697	5609	85	887	1293	1257	36	201	6990	6866	121	1088
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
7.2	Backfilling field density		1 test /1000 m ³	752	752	0	40	0	0	0	0	752	752	0	40
7.3	RE Wall field density		As required	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	75	69	6	61	5	5	0	3	80	74	6	64
8.2	Grain size analysis	IS:2720 (Part4)	As required	75	75	0	61	5	5	0	3	80	80	0	64
8.3	Proctor	IS:2720 (Part8)	As required	75	75	0	61	5	5	0	3	80	80	0	64
8.4	Direct shear Test	IS:2720 (Part13)	As required	75	66	9	61	5	5	0	3	80	71	9	64
8.5	Bearing Capacity / Plate Load Test	IS:6403 / IS 1888	As required	10	10	0	10	0	0	0	0	10	10	0	10
9.0 CTSB Mix Design/Site Frequency MoRT&H 403															
9.1	Gradation	Table 400-4	1 test/400m ³	301	301	0	164	5	5	0	2	306	306	0	166
9.2	Atterberg Limits	IS:2720 (Part5)	1 test/400m ³	180	180	0	87	5	5	0	2	185	185	0	89
9.3	Proctor	IS:2720 (Part8)	As required	18	18	0	16	0	0	0	0	18	18	0	16
9.4	CBR Test or unconfined compressive	IS:2720 (Part16)	As required	1	1	0	1	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	2	2	0	2
9.6	Aggregate Impact value	IS:2386 Part-4	As required	28	28	0	17	0	0	0	0	28	28	0	17
9.7	Field Density	IS:2720 (Part28)	1 set of 2 Test per	2015	2015	0	1458	26	26	0	26	2041	2041	0	1484
9.8	Specific gravity & Water absorption	IS:2386 (Part2)	As required	2	2	0	2	0	0	0	0	2	2	0	2
9.9	Cubes	IRC SP 89 (2010)	1 set 400MT	730	730	0	265	14	14	0	6	744	744	0	271
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
10.2	Atterberg Limits	IS:2720 (Part5)	1 test/400 m ³	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
10.4	CBR Test	IS:2720 (Part16)	As required	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
10.6	Field Density	IS:2720 (Part28)	1 Test per 1000Sq.m	0	0	0	0	0	0	0	0	0	0	0	0

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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	3	3	0	3
11.2	Atterberg Limits	IS:2720 (Part5)	1 test/400 m ³	3	3	0	3	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
11.4	CBR Test	IS:2720 (Part16)	As required	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
11.6	Field Density	IS:2720 (Part28)	1 Test per 1000Sq.m	90	90	0	21	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	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	5	5	0	5
12.3	Flakiness & Elagation index	IS:2386 Part1	1 test/ 500 m ³	4	4	0	4	0	0	0	0	4	4	0	4
12.4	Atterberg Limits	IS:2720 (Part5)	1 test/200m ³	4	4	0	4	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	8	8	0	8
12.6	Proctor	IS:2720 (Part8)	As required	4	4	0	4	0	0	0	0	4	4	0	4
12.7	CBR	IS:2720 (Part16)	As required	2	2	0	2	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	183	183	0	100	9	9	0	3	192	192	0	103
13.2	Aggregate Impact Value	IS:2386 Part-4	1 test/ 1000 m ³	98	98	0	47	4	4	0	1	102	102	0	48
13.3	Flakiness & Elagation index	IS:2386 Part1	1 test/ 500 m ³	100	100	0	34	4	4	0	1	104	104	0	35
13.4	Atterberg Limits	IS:2720 (Part5)	1 test/200m ³	160	160	0	77	9	9	0	3	169	169	0	80
13.5	Water absorption	IS:2386 Part2	As required	4	4	0	4	0	0	0	0	4	4	0	4
13.6	Proctor	IS:2720 (Part8)	As required	5	8	0	4	0	0	0	0	5	8	0	4
13.7	CBR	IS:2720 (Part16)	As required	1	1	0	1	0	0	0	0	1	1	0	1
13.8	Field Density	IS:2720 (Part28)	1 set Test per 1000Sq.m	363	363	0	263	19	19	0	12	382	382	0	275
14.0 Dense Bituminous Macadam (Grade - II)															
14.1	Bitumen Extraction Test		1 Test/400MT	147	147	0	60	13	13	0	7	160	160	0	67
14.2	Gradation	Table 500 - 18, Grad.II	1 Test/400MT	147	147	0	60	13	13	0	7	160	160	0	67
14.3	Flakiness & Elagation index	MORTH Table 900 - 4	1 test/ 350 m ³	117	117	0	47	7	7	0	4	124	124	0	51
14.4	Aggregate Impact Value	MORTH Table 900 - 4	1 test/350m ³	156	156	0	65	7	7	0	4	163	163	0	69
14.5	Marshall Density	ASTM D 2726	1 Set/400MT	183	183	0	78	13	13	0	7	196	196	0	85
14.6	GMM	MORTH Table 900 - 4	1 Test/400MT	152	152	0	62	13	13	0	7	165	165	0	69
14.7	DBM Core Cutting	MORTH Table 900 - 4	1 Test/700M ²	390	390	0	153	37	37	0	31	427	427	0	184
Bitumen test															
14.8	Softening Point	IS:1205 - 1978	1 Test/ 1 lot	60	60	0	20	3	3	0	2	63	63	0	22
14.9	Penetration	IS:1205 - 1978	1 Test/ 1 lot	60	60	0	20	3	3	0	2	63	63	0	22
14.9	viscosity	IS:1205 - 1978	1 Test/ 1 lot	60	60	0	20	3	3	0	2	63	63	0	22

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15.0 Prime Coat															
15.1	Rate of Spread of Binder		Three tests per day	259	259	0	130	17	17	0	10	276	276	0	140
16.0 Tack Coat															
16.1	Rate of Spread of Binder		Three tests per day	69	69	0	32	0	0	0	0	69	69	0	32
17.0 Fine Aggregate MoRT&H 1008															
17.1	Grade / Sieve analysis	IS:2386 (Part1)	1 test per day	1088	1088	0	410	45	45	0	15	1133	1133	0	425
17.2	Specific gravity & Water absorption	IS:2386 (Part2)	As required	16	16	0	15	0	0	0	0	16	16	0	15
17.3	Fineness Modulus	MORT&H Sec. 1008&383	1 test per day	946	946	0	338	45	45	0	15	991	991	0	353
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
17.5	Deleterious material/silt	IS:2386 (Part2)	1 test per source	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	986	986	0	397	45	45	0	15	1031	1031	0	412
18.2	Specific gravity & Water absorption	IS:2386 (Part3)	As required	18	18	0	15	0	0	0	0	18	18	0	15
18.3	Aggregate Impact Value	IS:2386 (Part4)	1 test / each source	294	294	0	153	11	11	0	3	305	305	0	156
18.4	Flakiness index	IS:2386 (Part1)	1 test / each source & monthly	264	264	0	140	11	11	0	3	275	275	0	143
18.5	Soundness	IS:2386 (Part5)	As required	2	2	0	2	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	2	2	0	2
18.7	Deleterious constituents	IS:2386 (Part2)	1 test per source	2	2	0	2	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
19.0 Cement MoRT&H 1006															
19.1	Chemical test / Physical test	IS:4031,4032	1 test per source	6	15	0	6	0	0	0	0	6	15	0	6
19.2	Fineness	IS:4031 (Part1)	Every batch	366	366	0	184	13	13	0	4	379	379	0	188
19.3	Normal Consistency	IS:4031 (Part4)	Every batch	338	338	0	184	13	13	0	4	351	351	0	188
19.4	Initial, Final setting time	IS:4031 (Part5)	Every batch	338	338	0	184	13	13	0	4	351	351	0	188
19.5	Soundness of Cement	IS:4031 (Part3)	Every batch	282	282	0	150	13	13	0	4	295	295	0	154
19.6	Compressive Strength-set	IS:4031 (Part6)													
	3 days		1 test per Lot	292	292	0	144	16	16	0	5	308	308	0	149
	7 days		1 test per Lot	289	289	0	140	12	12	0	7	301	301	0	147
	28 days		1 test per Lot	274	274	0	129	15	15	0	6	289	289	0	135

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20.0.(A) Concrete Cube Strength															
M15 PCC															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	357	354	0	158	20	20	0	4	377	374	0	162
	28Days Compressive Strength			602	602	0	309	17	17	0	7	619	619	0	316
M20 KERB															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	128	128	0	48	15	15	0	3	143	143	0	51
	28Days Compressive Strength			326	326	0	86	48	48	0	17	374	374	0	103
M20 RCC															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	238	238	0	81	0	0	0	0	238	238	0	81
	28Days Compressive Strength			464	464	0	182	0	0	0	0	464	464	0	182
M30 RCC															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	300	300	0	138	34	34	0	8	334	334	0	146
	28Days Compressive Strength			509	509	0	227	50	50	0	22	559	559	0	249
M30 RCC PUMPABLE															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	25	25	0	16	1	1	0	0	26	26	0	16
	28Days Compressive Strength			69	69	0	39	4	4	0	2	73	73	0	41
M35 RCC															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	195	195	0	129	30	30	0	11	225	225	0	140
	28Days Compressive Strength			392	392	0	245	65	65	0	20	457	457	0	265
M35 PILING															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	877	877	0	454	32	32	0	25	909	909	0	479
	28Days Compressive Strength			2655	2649	0	1416	41	41	0	37	2696	2690	0	1453
M35 RCC PUMPABLE															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	503	503	0	199	41	41	0	30	544	544	0	229
	28Days Compressive Strength			1382	1382	0	539	137	137	0	59	1519	1519	0	598
M35 RE BLOCK															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	712	712	0	222	28	28	0	3	740	740	0	225
	28Days Compressive Strength			1996	1996	0	653	68	68	0	29	2064	2064	0	682
M40 PUMP & M40 RCC															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	87	87	0	40	12	12	0	6	99	99	0	46
	28Days Compressive Strength			186	186	0	71	6	6	0	6	192	192	0	77
M40 PILING															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	306	306	0	92	0	0	0	0	306	306	0	92
	28Days Compressive Strength			997	997	0	271	0	0	0	0	997	997	0	271
M45 PUMP															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	153	153	0	51	26	26	0	13	179	179	0	64
	28Days Compressive Strength			384	384	0	120	69	69	0	29	453	453	0	149
M50 RCC															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	6	6	0	6	0	0	0	0	6	6	0	6
	28Days Compressive Strength			12	12	0	12	0	0	0	0	12	12	0	12
M60 PUMP															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	255	255	0	59	6	6	0	4	261	261	0	63
	28Days Compressive Strength			861	861	0	183	36	36	0	18	897	897	0	201

Four Lining of Sethiyahopu - Cholapuram 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 Ashophalt	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		

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&subgrade	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 Ponnery	5.0 km	RHS	Embankment	30000	PSCHPL/SCP/IE/2019/302	TES/IE/SCP/PIL/2018/247	Approved
21	8	98+950 RHS Ponnery 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		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	Embankment	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	
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 Velaneary	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	PSCHPL/SCP/IE/2019/758	TES/IE/SC/PIL/2019/528	Approved
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 Vembankudi	0.5 Km	LHS	Subgrade& RE WALL	30000	PSCHPL/SCP/IE/2019/463	TES/IE/SC/PIL/2019/362	Approved
40	21	103+200 Vembankudi 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 Vembankudi EX-02	0.5 Km	LHS	Subgrade& RE WALL	30000			Testing in Progress
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
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	RE WALL	25500	PSCHPL/SCP/IE/2019/303	TES/IE/SC/PIL/2019/255	Approved
3	3	FLYASH EX-03	30 Km	LHS	RE WALL	30000			Approved
4	4	FLYASH EX-04	30 Km	LHS	RE WALL	30000	PSCHPL/SCP/IE/2019/448	TES/IE/SC/PIL/2019/350	Approved
5	5	FLYASH EX-05	30 Km	LHS	RE WALL	45000	PSCHPL/SCP/IE/2019/489	TES/IE/SC/PIL/2019/385	Approved
6	6	FLYASH EX-06	30 Km	LHS	RE WALL	30000	PSCHPL/SCP/IE/2019/518	TES/IE/SC/PIL/2019/400	Approved
7	7	FLYASH EX-07	30 Km	LHS	RE WALL	30000	PSCHPL/SCP/IE/2019/570	TES/IE/SC/PIL/2019/430	Approved
8	8	FLYASH EX-08	30 Km	LHS	RE WALL	30000	PSCHPL/SCP/IE/2019/571	TES/IE/SC/PIL/2019/431	Approved
9	9	FLYASH EX-09	30 Km	LHS	RE WALL	30000	PSCHPL/SCP/IE/2020/728	TES/IE/SC/PIL/2020/512	Approved
10	10	FLYASH EX-10	30 Km	LHS	RE WALL	30000	PSCHPL/SCP/IE/2020/761	TES/IE/SC/PIL/2020/527	Approved

PATEL SETHIAHOPU 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

SI 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			
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 layerNCR No.11	Lr.No.523_12.11.2020			

7. Weather Report -Meensuritti

DATE	Temperature (°C)		Rainfall in mm	Humidity in %		Remarks
	Max	Min		Max	Min	
01/11/2020	34.10	27.8	0.00	81	51	Sunny
02/11/2020	34.00	28.1	0.00	80	50	Sunny
03/11/2020	34.10	28.2	0.00	82	49	Sunny
04/11/2020	32.80	28.8	0.00	84	51	Sunny
05/11/2020	33.60	28.9	2.00	81	50	Rainy
06/11/2020	31.00	27.0	5.00	82	72	Rainy
07/11/2020	32.50	27.5	2.00	85	63	Rainy
08/11/2020	32.60	26.2	3.00	88	61	Rainy
09/11/2020	32.40	26.8	0.00	82	60	Sunny
10/11/2020	29.50	24.8	0.00	76	54	Sunny
11/11/2020	30.10	24.1	0.00	77	55	Sunny
12/11/2020	31.20	27.5	0.00	76	70	Sunny
13/11/2020	32.10	26.6	15.00	91	63	Rainy
14/11/2020	29.50	27.5	12.00	70	60	Rainy
15/11/2020	30.60	28.1	13.00	72	62	Rainy
16/11/2020	30.10	26.4	55.00	70	58	Rainy
17/11/2020	29.40	26.1	12.00	94	80	Rainy
18/11/2020	30.80	26.4	0.00	98	82	Sunny
19/11/2020	31.50	26.6	0.00	95	69	Sunny
20/11/2020	31.60	27.1	0.00	94	60	Sunny
21/11/2020	31.50	26.0	0.00	85	56	Sunny
22/11/2020	32.60	23.6	0.00	79	55	Sunny
23/11/2020	30.70	24.7	10.00	81	56	Sunny
24/11/2020	30.50	25.8	0.00	82	56	Sunny
25/11/2020	30.00	24.3	83.00	82	55	Rainy
26/11/2020	31.50	24.5	0.00	90	56	Sunny
27/11/2020	31.20	25.4	7.00	88	55	Sunny
28/11/2020	31.50	24.9	0.00	89	56	Sunny
29/11/2020	30.10	25.6	0.00	95	71	Sunny
30/11/2020	30.00	25.5	0.00	89	69	Cloudy

Weather Report Anakarai

DATE	Temperature (°C)		Rainfall in mm	Humidity in %		Remarks
	Max	Min		Max	Min	
01/11/2020	33.60	25.1	-	94	64	Sunny
02/11/2020	34.50	26.4	-	97	63	Sunny
03/11/2020	32.80	25.3	-	94	67	Sunny
04/11/2020	32.30	25.1	5.00	92	59	Rainy
05/11/2020	32.40	26.3	-	94	72	Sunny
06/11/2020	30.10	25.5	9.00	92	70	Rainy
07/11/2020	33.60	25.1	10.00	90	64	Rainy
08/11/2020	33.10	26.2	4.00	82	53	Rainy
09/11/2020	32.70	26.7	-	95	69	Sunny
10/11/2020	33.60	25.7	-	95	69	Sunny
11/11/2020	32.40	25.4	-	92	68	Sunny
12/11/2020	31.70	26.1	-	91	42	Sunny
13/11/2020	28.10	24.9	21.00	96	88	Rainy
14/11/2020	32.90	27.1	24.00	95	68	Rainy
15/11/2020	32.80	27.5	18.00	90	69	Rainy
16/11/2020	28.70	24.5	42.20	94	80	Rainy
17/11/2020	32.70	23.2	25.00	95	80	Rainy
18/11/2020	35.20	25.0	-	90	60	Sunny
19/11/2020	32.30	24.8	8.00	89	69	Rainy
20/11/2020	32.20	22.2	-	84	63	Sunny
21/11/2020	31.10	22.6	-	91	60	Sunny
22/11/2020	32.30	23.1	-	91	64	Sunny
23/11/2020	32.80	24.1	-	92	65	Sunny
24/11/2020	32.10	23.2	18.00	94	68	Rainy
25/11/2020	31.20	22.9	80.00	93	61	Rainy
26/11/2020	31.30	26.1	-	92	67	Sunny
27/11/2020	32.60	24.3	-	90	66	Sunny
28/11/2020	32.10	25.4	2.00	91	69	Rainy
29/11/2020	33.40	25.3	-	90	60	Sunny
30/11/2020	33.10	26.1	-	93	64	sunny

MPR NOVEMBER 2020

- Various issues related to environment and safety, such as traffic management, safety signage, disposal of waste materials and oil spillage, housekeeping, area barricading and traffic management, etc, are being taken care of during the execution of the project.

Periodic Safety meetings being conducted on a regular basis and the details of the photographs for the same along with action taken are as below.

9. Support required from NHAI

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

1. Pending Disbursement of Payment to the beneficiaries from CALA towards Land and Buildings in Cuddalore, Ariyalur & Thanjavur District. – Request Authority to advise/instruct the Competent Authority of Land Acquisition to speed up the process of disbursement of pending payment.
2. Additional land acquisition for toll plaza, bus bays, turning radius of major junctions along the project highways.
3. Finalization of Toll plaza location.
4. Change of Scope notice required for relocation of VUP @ Km 113+500 due to existence of electrical substation of TANGENDCO at Km:113+700 to 113+800(RHS).
5. Change of Scope notice required for widening of Existing Minor Bridge @ Km 101+095 from two lane to four-lane carriageway.
6. Change of Scope notice required for reconstruction of Existing Box Culvert @ Km 110+785 because the existing structure of said location at site is a Pipe Culvert, which has been mentioned as Box type in the concession agreement.
7. Removal of Electrical substation 85+300 to 85+400, which is obstructing the project highways.
8. NOC from PWD/WRO, Govt of Tamil Nadu for construction of Minor Bridge (13 Nos) and Major Bridge (3 Nos) as per below

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

9. In sufficient Right of Way with respect to the land handed over as per Clause 10.3.1 of Concession Agreement at the time of Signing of Joint Memorandum.
10. Payment disbursement and necessary clearances required for removal of religious and Govt. buildings.
11. NOC from PWD/WRO, Govt. of Tamil Nadu for construction of project highways in the existing ponds (in a length of 1.702 Kms).

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

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

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

Sl. No.	Chainage	Distance from PCL	Remarks/Action to be taken	Present Status
1	68+644 (02 Nos)	-	To be shifted to edge of PROW	Estimate for irrigation sluices submitted by EE/PWD Chidambaram to NHA and same is under review.
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	Approval of estimate is pending with NHA

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	Nandeewaramanagalam	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. 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	Nandeewaramangalam	77+760	30 KL	Land yet to be finalized
2	Cholatharam	80+120	30 KL	

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

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

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

Further, vide our letter no. 16 dated 08.05.2020 & 19 dated 20.05.2020 we informed that Government of Tamilnadu had instructed to continue to enforce all the existing restrictions issued by MHA order dated 24.03.2020 during extended lock down period i.e. up to 31.05.2020. After that, a notification issued by Revenue and Disaster Management (D-II)

Department, Govt. of Tamilnadu bearing no. 203 dated 23.04.2020 vide which it is informed that resumption of construction of road & bridge project can be done with taking all precaution as per Standard Operating Procedure (SOPs) for social distancing and obtain permission from District Administration.

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

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

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

In addition to that due to surge of cases of COVID-19 in State of Tamilnadu, 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.

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

10. Important Events

Table 10.1. Details of Important Events

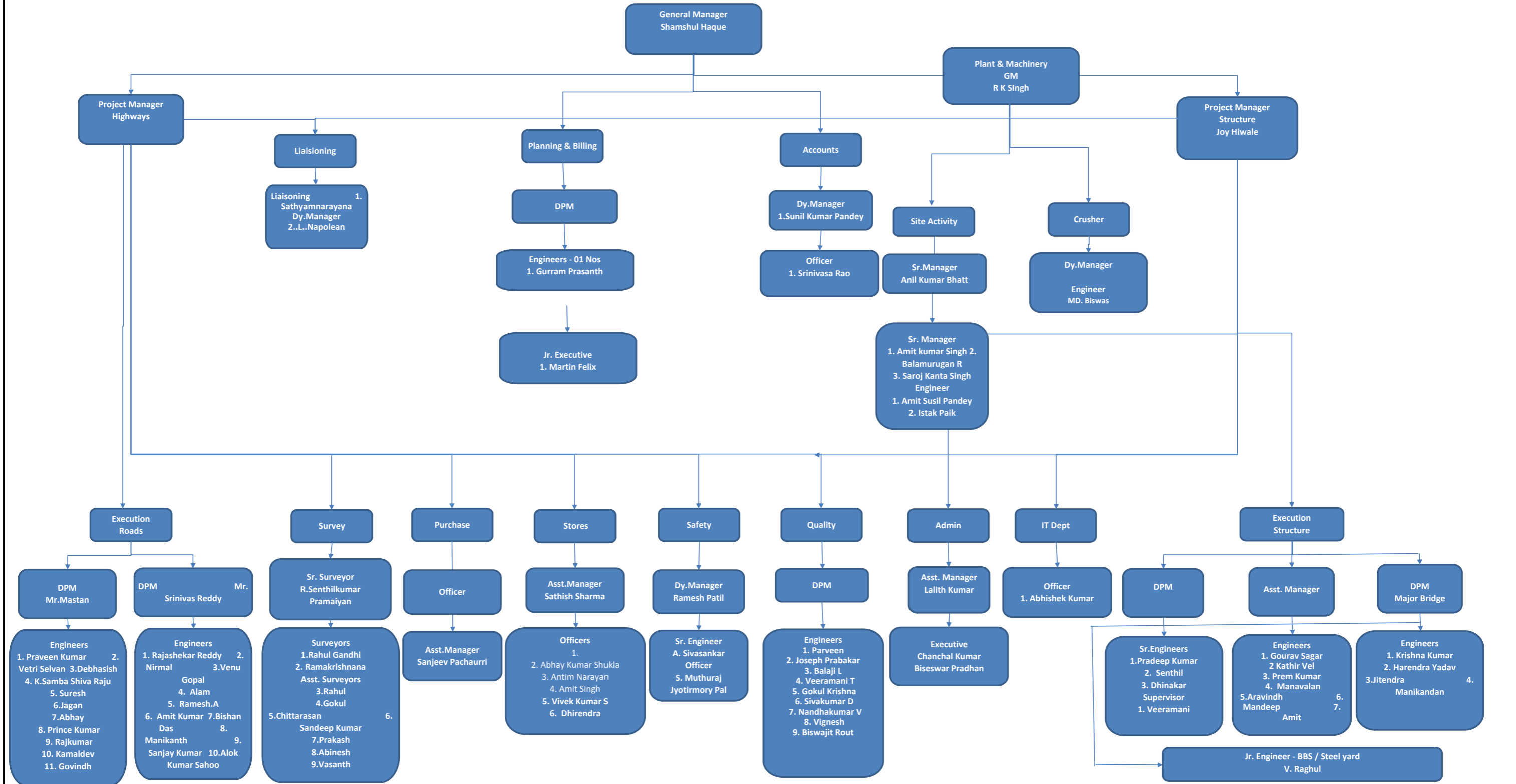
Sl. No	Date of Events	Description of Events	Remarks
1.	25.11.2020	Occurrence of NIVAR Cyclone	

11. Organization Chart

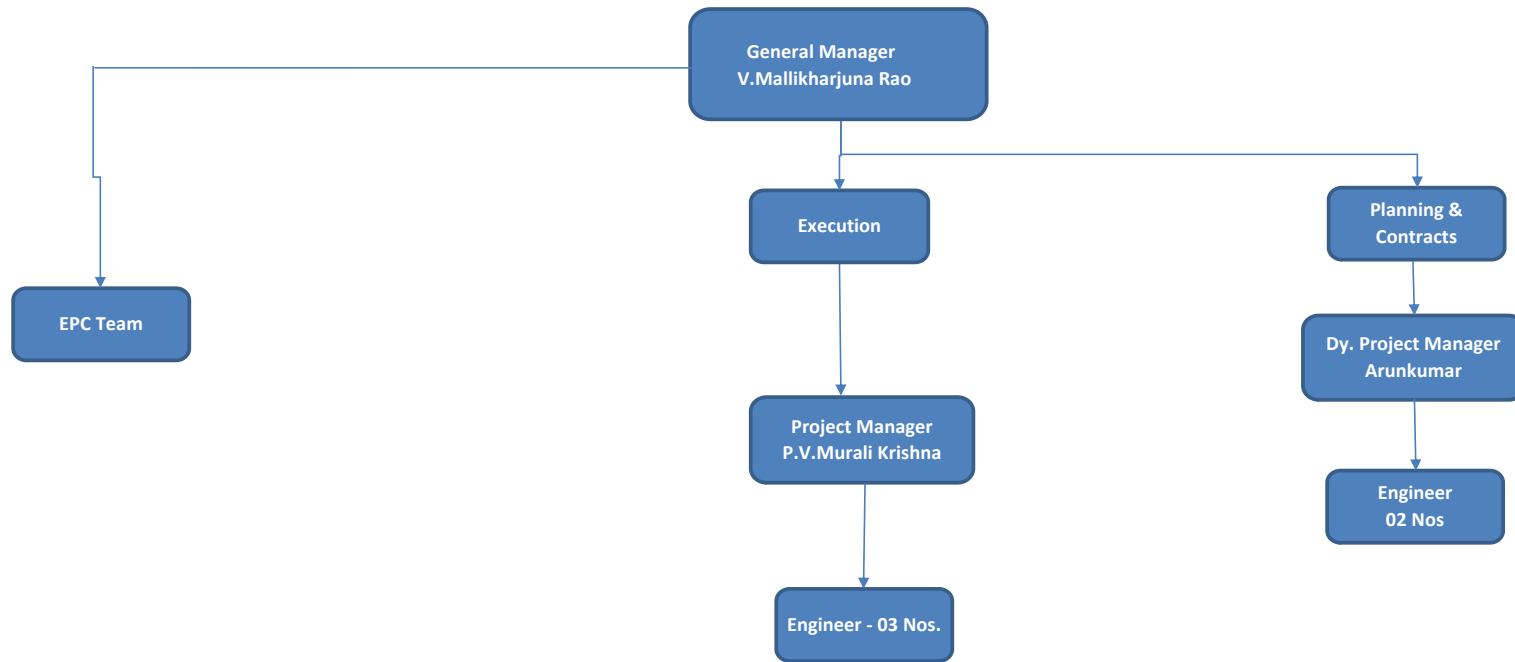
The following figures represents the organization structure of the EPC and SPV Team.

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	

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	10.11.2020	PSCHPL/SCP/NHAI/2020/757	Construction activities stopped by the local villagers by demanding to provide Underpass with release of excess water at Veeramudainatham village requested	
2	10.11.2020	PSCHPL/SCP/NHAI/2020/759	Action taken report on Road safety meeting -Cuddalore District	
3	10.11.2020	PSCHPL/SCP/NHAI/2020/760	RA Bill No 16- Shifting of HT line & Tower at km 113+720	
4	20.11.2020	PSCHPL/SCP/NHAI/2020/762	Compliance Report-Non Amedment of Certificate of Registration-Violation of Contract Labour (Regulation & Abolition) Central Rules 1971 -Obtain License by the contractor	
5	20.11.2020	PSCHPL/SCP/NHAI/2020/763	Compliance report -Review of monthly progress Report submitted by Concessionaire for the month of September 2020	
6	21.11.2020	PSCHPL/SCP/NHAI/2020/766	Transportation of Pond Ash from Ms Neiveli lignite Corporation-Request extension of time for the transportation of pond Ash	
7	23.11.2020	PSCHPL/SCP/NHAI/2020/769	Compliance Report on Information sought for under right to information ACT 2005 by Ms.Priyanka Agarwal	
8	25.11.2020	PSCHPL/SCP/NHAI/2020/770	Compliance Report-Providing of Irrigation Pipe line across the NH at Km 108+540	

TABLE 14.2 - CORRESPONDANCE - NHAI TO CONCESSIONAIRE

S.No	Date	Letter No	Subject	Remarks
1	03.11.2020	NHAI/PIU/Thanj/11025/04/2018/1891	Road safety Meeting -Cuddalore District -Decision taken-action requested	
2	03.11.2020	NHAI/PIU/Thanj/11025/33/2020/1917	Provide underpass with release of excess water at veeramudainatham village-joint inspection requested	
3	09.11.2020	NHAI/PIU/Thanj/11025/52/2017/1982	Independent consultancy services for the month of september 2020-50% Claim	
4	11.11.2020	NHAI/PIU/Thanj/11025/03/2018/1997	Construction of ROB at Km 86+677 requested	
5	11.11.2020	NHAI/PIU/Thanj/11025/08/2018/2002	Shifting of HT Line & Tower at Km 113+720-Report called for	
6	11.11.2020	NHAI/PIU/Thanj/11099/05/2009/2004	Information sought for under Right to information Act 2005 by Sh.Tamilnesan - Report called for	
7	07.11.2020	NHAI/PIU/Thanj/11025/76/2011/1939	Non Amedment of certificate of registratiion-Violation of Contract Labour (Regulation & Abolition) Central Rules 1971 -Obtain licences by the contractors	
8	07.11.2020	NHAI/PIU/Thanj/11025/03/2018/1957	Acquisition of land in Ukkarai village of Thiruvidadimaruthur Taluk in thanjavur District-Provision of pipe to cross NH for irrigation purpose requested	
9	07.11.2020	NHAI/PIU/Thanj/11025/03/2018/1958	Public representation of Anaiwari village of Bhuvanagiri Taluk in Cuddalore District-Requested to provide an underpass at Anaiwari, mmettutheru	
10	13.11.2020	NHAI/PIU/Thanj/11025/25/2018/2026	Compensation Paid land owners protesting to remove the structures support for removal of structures taking over the posession of land requested	
11	13.11.2020	NHAI/PIU/Thanj/11025/18/2018/2032	Papakudi village of Ariyalur Dist-Construction of Culvert	
12	18.11.2020	NHAI/PIU/Thanj/11099/05/2009/2088	Independent consultancy services for the month of october 2020-50% Claim	
13	17.11.2020	NHAI/PIU/Thanj/11099/63/2018/2039	Acquisition of land -Encumbrance & Hindrances to be removed-Details called for	
14	17.11.2020	NHAI/PIU/Thanj/11025/36/2018/2041	Provisional No objection certificate issued-Request for one time extension for one year -granted-regarding	
15	18.11.2020	NHAI/PIU/Thanj/11025/08/2018/2062	HindranceObstruction of Electrical substation between km 85+300 to Km 85+400	
16	19.11.2020	NHAI/PIU/Thanj/11099/05/2009/2082	Information sought for under Right to Information Act 2005 by Sh.Habeeb Rahman -Report called for	
17	19.11.2020	NHAI/PIU/Thanj/11099/05/2009/2085	Information sought for under Right to Information Act'2005 by Ms.Priyanka Agarwal-Report called for	
18	19.11.2020	NHAI/PIU/Thanj/11099/54/2020/2109	Issuing provisional NOC and In-Principle Approbal-Observations	
19	20.11.2020	NHAI/PIU/Thanj/11025/03/2018/2095	Provide an irrigation pipeline across the NH road at k 108+540	
20	23.11.2020	NHAI/PIU/Thanj/11025/05/2009/2112	Information sought for under Right to information Act'2005 by Sh.L.Sundarrajan-Reply requested	
21	23.11.2020	NHAI/PIU/Thanj/11025/03/2008/2113	Kumarakudi village-Drainage channel has been damaged restoration requested	
22	24.11.2020	NHAI/PIU/Thanj/11099/04/2018/2138	Road safety proposal to be sent to Govt in Ariyalur District	
23	24.11.2020	NHAI/PIU/Thanj/11099/14/2007/2140	Implementation of (NPCB & VI) for the drivers plying on National Highways so as to provide requisite eye traetment as per the specific needs	

TABLE 14.3 - CORRESPONDANCE - CONCESSIONAIRE TO INDEPENDENT ENGINEER

S.No	Date	Letter No	Subject	Remarks
1	03.11.2020	PSCHPL/SCP/IE/2020/750	Submission of soil test reports for Borrow area No 12 (Extension 02)	
2	05.11.2020	PSCHPL/SCP/IE/2020/751	Submission of RE Wall drawing for the proposed LVUP at Km 112+643	
3	05.11.2020	PSCHPL/SCP/IE/2020/752	Submission of RE Wall drawings for the proposed GSI at Km 110+110	
4	06.11.2020	PSCHPL/SCP/IE/2020/753	Submission of monthly progress Report for the month of October 2020	
5	07.11.2020	PSCHPL/SCP/IE/2020/754	Submission Revised RE Wall drawings for the proposed VUP at Km 75+830 & GSI at 80+556	
6	10.11.2020	PSCHPL/SCP/IE/2020/755	Providing of escape channel on either side of major Bridge at Km 73+340-Request to issue COS notice as per Article 16 of concession agreement	
7	10.11.2020	PSCHPL/SCP/IE/2020/756	Construction activities hampered due to delay in issuance of change of scope notice as per clause 16.2.1 of concession agreement	
8	10.11.2020	PSCHPL/SCP/IE/2020/758	Soil test reports for the proposed borrow area of the project (BA No 16 Ex 02)	
9	20.11.2020	PSCHPL/SCP/IE/2020/761	Submission of test reports for Fly Ash (EX No-10)	
10	20.11.2020	PSCHPL/SCP/IE/2020/764	Providing of irrigation pipe line across the NH road at Km 108+540-Request to issue COS notice as per Article 16 of Concession Agreement	
11	20.11.2020	PSCHPL/SCP/IE/2020/765	Drainage System Adequacy and effectiveness -Stoppage of drain works in the ongoing works and finalization of drainage plan for the above balance works	
12	21.11.2020	PSCHPL/SCP/IE/2020/767	Achievement of Project Milestone-II in pursuant to Schedule-G of the concession Agreement	
13	23.11.2020	PSCHPL/SCP/IE/2020/768	Submission of drawings for avenue and median plantation	

TABLE 14.4 - CORRESPONDANCE - INDEPENDENT ENGINEER TO CONCESSIONAIRE / NHA

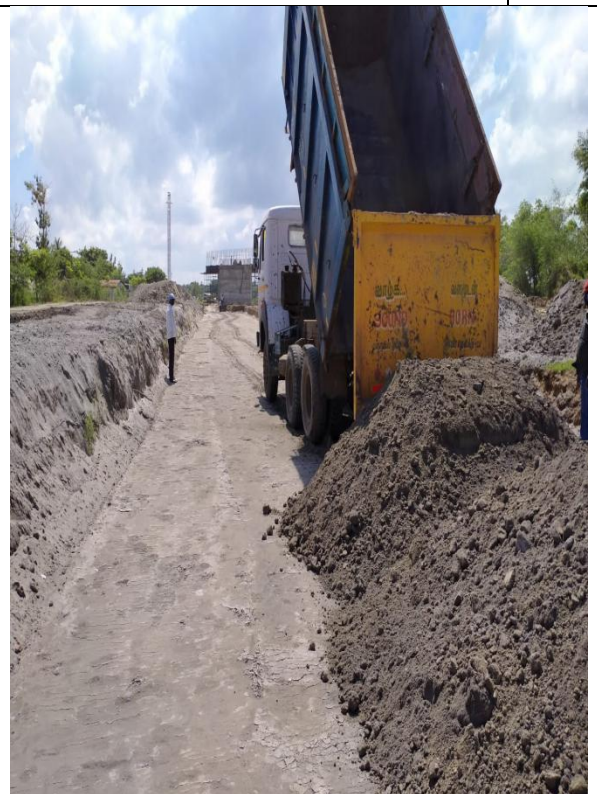
S.No	Date	Letter No	Subject	Remarks
1	03.11.2020	TES/IE/SC/PIL/2020/207	Submission of IPC 03 of payment milestone 03 -Recommendation for payment	
2	11.11.2020	TES/IE/SC/PIL/2020/519	Procurement of Metal beam crash barrier from Ms. Safety First (ASEBAL), New Delhi	
3	11.11.2020	TES/IE/SC/PIL/2020/520	Procurement of Traffic sign boards from Ms S.N.I Infratech Pvt Ltd	
4	11.11.2020	TES/IE/SC/PIL/2020/521	Procurement of Traffic sign borads from Ms SMA Infraa Projects .	
5	11.11.2020	TES/IE/SC/PIL/2020/522	Using of unsuitable soil for the Subgrade Layers	
6	12.11.2020	TES/IE/SC/PIL/2020/523	Excavated Embankment fill and using in subgrade layer NCR No.11 –Excavated Embankment fill and using in Subgrade layer	
7	12.11.2020	TES/IE/SC/PIL/2020/208	Review and Comments of IE on concessionaire Monthly Progress Report for the month of October 2020	
8	19.11.2020	TES/IE/SC/PIL/2020/209	Inspection Report for the month of October 2020	
9	23.11.2020	TES/IE/SC/PIL/2020/210	Shifting of HT Line & Tower at 113+720	
10	23.11.2020	TES/IE/SC/PIL/2020/211	Shifting of existing drainage inlet sluices at Km 81.850, 82.100, 81.870, 81.910 & 82.010 –Estimate Submission – Remarks called for – Observations	
11	23.11.2020	TES/IE/SC/PIL/2020/524	Unauthorized dumping of Bituminous waste in the shoulder portions	
12	23.11.2020	TES/IE/SC/PIL/2020/525	Construction of VUP at Km. 86+677 requested	

15. Progress Photographs

Sl.No	Description	Location	Side
1	RE Wall Filling Work in Progress	90+580	RHS
2	RE Wall Filling Work in Progress	90+850	LHS



Sl.No	Description	Location	Side
3	RE Wall Ground Improvement Work In Progress	109+350	RHS

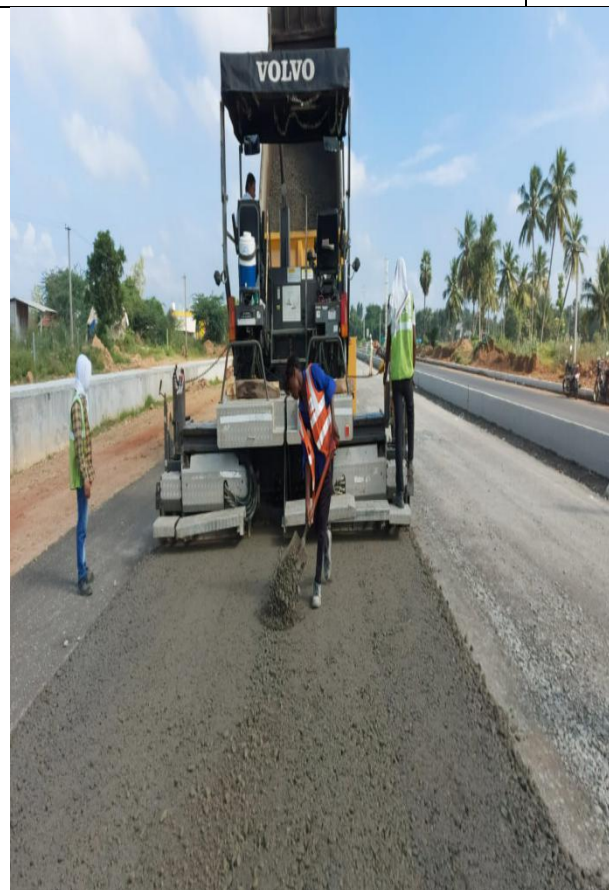


MPR NOVEMBER 2020

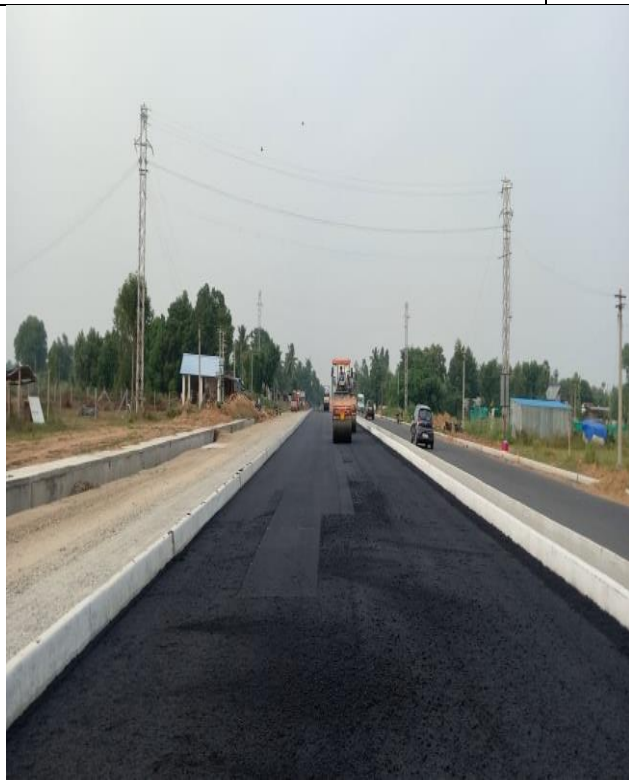
Sl.No	Description	Location	Side
4	CTSB Laying Work in Progress	94+890 to 95+000	LHS
5	CTSB Laying Work in Progress	81+240	LHS



Sl.No	Description	Location	Side
6	WMM Laying Work in Progress	78+900	RHS
7	WMM Laying Work in Progress	84+500	RHS



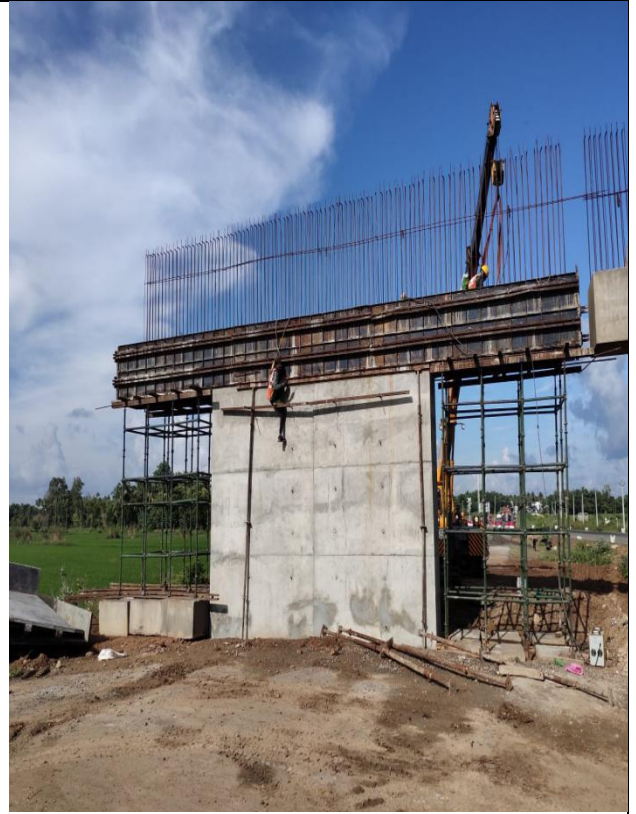
Sl.No	Description	Location	Side
8	DBM Laying Work in Progress	102+240 to 102+630	RHS
9	DBM Laying Work in Progress	84+120 to 84+500	RHS



Sl.No	Description	Location	Side
10	DBM Laying Work in Progress	92+930 to 93+130	LHS



Sl.No	Description	Location	Side
11	Piling in progress	73+340	LHS
12	VUP Abutment Cap in Progress	115+250	BHS



Sl.No	Description	Location	Side
13	P.S.C. Girder Erection Work in Progress	69+785	RHS
14	VUP Piling Work in progress	111+235	LHS



Sl.No	Description	Location	Side
15	MNB Wall Work in progress	109+540	RHS
16	MJB Segment casting Work in Progress	107+400	-

