

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

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



PATEL SETHIYAHOPU-CHOLOPURAM HIGHWAY PRIVATE LIMITED

Four laning of Sethiyahopu – Cholopuram 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.

INDEPENDENT ENGINEER

M/s. Theme Engineering Services Pvt. Ltd

MONTHLY PROGRESS REPORT

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Table of Content

Table of Content	02
List of Tables	03
List of Figures	03
Executive Summary	04
Project Synopsis	04
1. Background and Project Details	10
1.1. Project Overview.....	10
1.2. Salient Project Features	11
1.3. Contractual Project Milestones	12
1.4. Payment Milestones During Construction Period.....	12
1.5. Permits & Approvals.....	12
2. Right of Way Status	14
2.1. Land Acquisition	14
2.2. Removal of Religious Structures.....	17
2.3. Shifting of Utilities and Electrical HT/LT Lines	17
2.4. Tree felling.....	18
3. Progress Briefing – Contractor Activities	42
3.1. Pre-Construction Activities	42
4. Physical Progress of Work	43
4.1 Physical Progress of Work	44
5. Financial & Physical Progress of Work	82
6. Quality Control and Quality Assurance	87
6.1 List of Lab Equipment's	85
6.2 Quality Control Test Summary	89
7. Weather Report.....	95
8. Safety	96
9. Support required from NHAI	97
10. Important Events.....	100
11. Organization Chart.....	101
12. List of Plants, Machinery and Equipments.....	104
13 Change of Scope Proposals	105
14 Details of Correspondences	106
15 Progress Photographs.....	111

List of Tables

Table 1.1: Details of Project Alignment	06
Table 2.1-1: Details of proposed ROW as per Schedule-A	14
Table 2.1-2: Status of Land Acquisition	14
Table 2.1-3: Compensation disbursement for land	15
Table 2.1-4: Compensation disbursement for Structures	15
Table 2.1-5: Details of Stretches under Hindrance	15
Table 2.2-1: Status of Removal of Religious structures	20
Table 2.2-1: Status of sanction of Estimates-Relocation of RWS Pipe Line	20
Table 2.3-1: Status of sanction of Estimates- Electrical Lines Relocation	20
Table 2.3-2: Status of Utility Relocation	21
Table 2.3-3: Status of Tree Cutting	21
Table 2.4-1: Hindrance Photos	22
Table 3.1-1: Status of Design and Drawings - Highway	47
Table 3.1-2: Status of Design and Drawings - Structures	47
Table 4.1 : Strip Chart for Highway Works	52
Table 4.2 - 1 : Strip Chart for status of Box Culverts on Existing Road	70
Table 4.2 - 2 : Strip Chart for status of Box Culverts on Bypass	72
Table 4.2 - 3 : Strip Chart for status of MNB - Box	74
Table 4.2 - 4 : Strip Chart for status of LVUP	76
Table 4.2 - 5 : Strip Chart for status of MNB (> 15m Span)	77
Table 4.2 - 6 : Strip Chart for status of MJB	79
Table 4.2 - 7 : Strip Chart for status of FLYOVER	80
Table 4.2 - 8 : Strip Chart for status of VUP	81
Table 6.1 - 1 QA/QC Lab Equipment at Annaikarai Lab	85
Table 6.1 - 2 QA/QC Lab Equipment at Meensurthy Lab	86
Table 6.2-1: Summary of Quality Control Tests	90
Table 10.1 : Details of Important Events	100
Table 12.1 - List of Plants, Machinery and Equipment's	104
Table 13.1 - Status of Change of Scope Proposals	105
Table 14.1. - Concessionaire to NHAI	107
Table 14.2. - NHAI to Concessionaire	108
Table 14.3. - Concessionaire to Independent Engineer	108
Table 14.4. - Independent Engineer to Concessionaire	109

List of Figures

Figure 1 : Project Location Map	05
Figure 2 : Project Alignment Map	06
Figure 3a : Financial Progress - Planned vs Achieved	83
Figure 3b : Physical Progress - Planned vs Achieved	84
Figure 4 : Organization Chart - EPC Team	102
Figure 5 : Organization Chart - SPV Team	103

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 1: Project Location Map

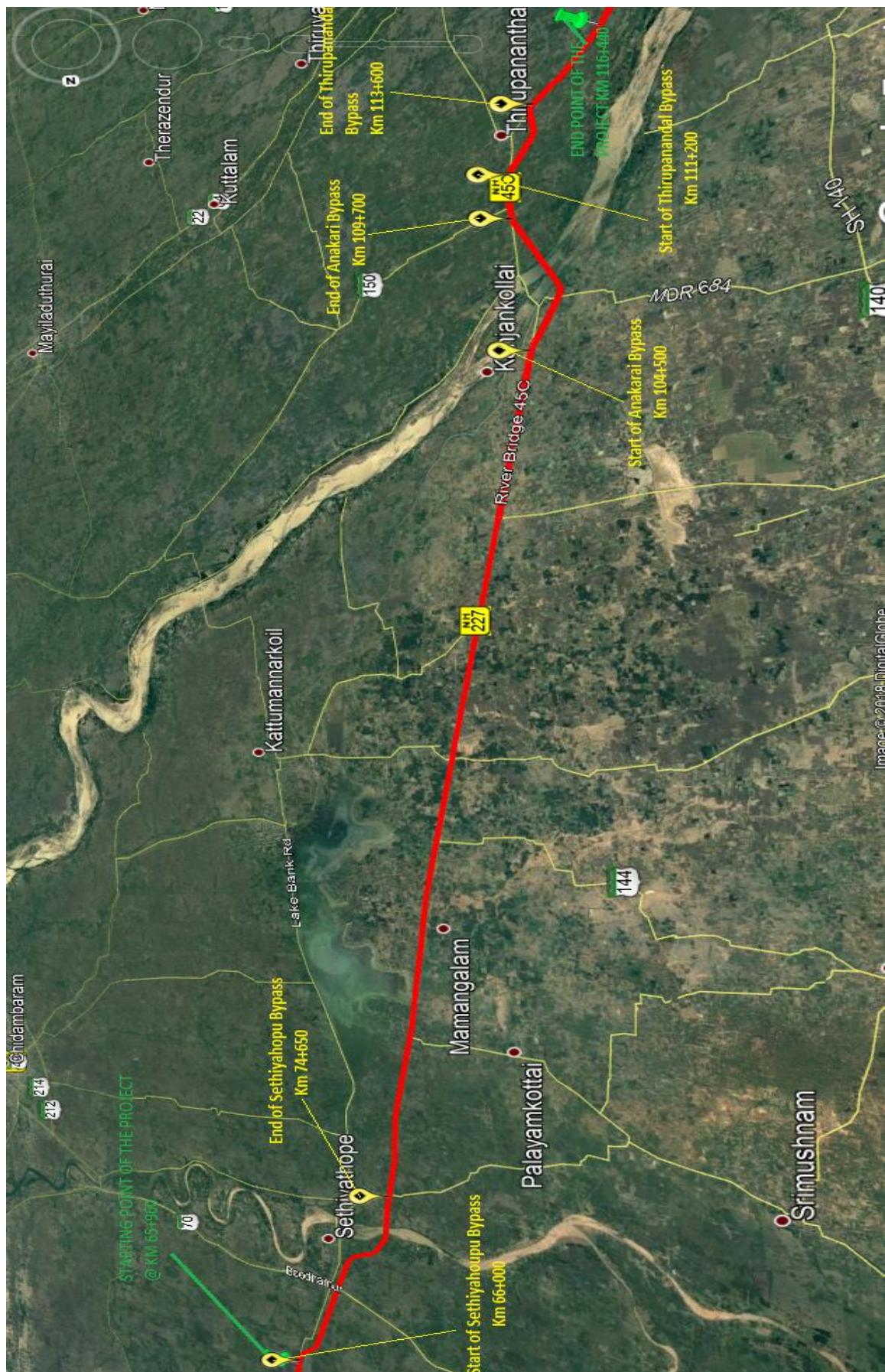


Table - 1.1: Details of Project Alignments

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

1.1. 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
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
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 date as per recommended IEOT
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	22 th Sep 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	20 th Jan 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	26 th Sep 2020
Scheduled Completion	Concessionaire shall have completed Project on 730 th day from the Appointed Date.	15 th August 2020	19 th Feb 2021

1.4. Payment milestone during Construction Period

Payment Mile Stone	Eligibility Criteria	Payment Amount (Rs.)
Mile Stone-I	On Achievement of 10% of Physical Progress	116.88 Crs.
Mile Stone-II	On Achievement of 30% of Physical Progress	116.88 Crs.
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	

Sr. No.	Details	Authority	Current Status	Remarks
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	8.270	
2.	Hindrance due to Electrical Lines	Km	1.050	
3.	Hindrance due to Rural Water Supply	Km	19.500	
4.	Net Hindered Length (both Side)	Km	29.4	
C)	Total Project Length (both Side)	Km	100.96	[a1]
D)	% Hindered Length	%	29.12%	

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	591	119	
2	Ariyalur	355	302	53	
3	Thanjavur	102	94	8	
	Total in Nos.	1167	987	180	
		Total in %	84.58%	15.42%	

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	325	58	
2	Ariyalur	359	331	28	
3	Thanjavur	153	98	55	
	Total in Nos.	895	754	141	
		Total in %	84.25%	15.75%	

□ 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	68.550	68.620	0.07	0.07	BHS	Land handed over on Appointed date but hindered due to disputes in compensation disbursement protests by Landowners
3	68.620	68.740	0.12	0.12	BHS	For Delay in NOC from PWD/WRO
4	72.450	72.600	0.15	0.15	BHS	Land handed over on Appointed date but hindered due to disputes in compensation disbursement protests by Landowners
5	72.600	72.700	0.10	0.10	BHS	Land handed over on Appointed date but hindered due to disputes in compensation disbursement protests by Landowners
6	72.800	73.100	0.30	0.30	BHS	Land handed over on Appointed date but hindered due to disputes in compensation disbursement protests by Landowners
7	73.900	74.100	0.20	0.20	BHS	Land handed over on Appointed date but hindered due to disputes in compensation disbursement protests by Landowners

8	76.300	76.500	0.20	0.20	BHS	Land handed over on Appointed date but hindered due to disputes in compensation disbursement protests by Landowners
9	77.200	77.600	0.40	0.40	BHS	Land handed over on Appointed date but hindered due to disputes in compensation disbursement protests by Landowners
10	78.420	80.100	1.68	0.84	RHS	Permission pending for removal of Teak wood trees from Forest Department.
11	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.
12	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
13	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
14	86.400	86.800	0.40	0.40	BHS	Land handed over on Appointed date but hindered due to disputes in compensation disbursement protests by Landowners
15	86.900	87.000	0.10	0.10	BHS	RE Wall Location: - Diversion Issues RHS - 01 unauthorised building, 01 trees to be removed. LHS - 01 building unpaid and Electric lines to be removed.
16	87.500	88.200	0.70	0.70	BHS	RE Wall Location: - Diversion Problems RHS - 01 unauthorised building, 01 Temple, LHS - Electric Lines to be removed.
17	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.
18	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.
19	113.600	113.850	0.25	0.25	BHS	Land handed over on Appointed date but hindered due to disputes in compensation disbursement protests by Landowners
20	114.400	114.650	0.25	0.25	BHS	Land handed over on Appointed date but hindered due to disputes in compensation disbursement protests by Landowners.
Total Hindrances (in Km)			8.27			

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	1	1
	Total in Nos.	22	5	17

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.

Table 2.3-3: Status of Utility Relocation

Sl. No.	Authority	Description	Unit	Total Length/ Nos.	Work done	Balance	Remarks
1	BDO & EE, TWAD	Water Supply Pipe Line	Kms.	72.695	24.650	48.045	Work in progress
2	BDO of Concern Union	Hand Pump/Pump Room with Bore well	Nos.	24	14	10	
3	BDO of Concern Union	Over Head Tank	Nos.	15	11 Nos Completed	4	
4	TNEB	Electrical Lines	Kms.	6.83	5.78	1.05	

2.4. Tree felling

Table 2.4-1: Status of Tree felling

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

3. Progress Briefing – Contractor Activities

3.1. Pre-construction Activities

Detailed Design & Drawings

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

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

Sl No.	Description	Unit	Total Scope as per Sch.-B 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	-	-
5	Minor Intersections	No	100	-	-
6	Toll Plaza (Typical Details)	No	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	12
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 May 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)	In Progress (In Km.)	Balance Length to be Completed	Cumulative % of Progress Achieved
1	Clearing and Grubbing							
	LHS	47.28	38.12	0	38.12	0	9.16	80.63%
	RHS	47.28	36.03	0	36.03	0	11.25	76.21%
2	Embankment							
	LHS	47.28	20.50	0	20.50	5.15	26.78	43.36%
	RHS	47.28	13.88	0	13.88	7.42	33.40	29.36%
3	Sub grade							
	LHS	47.28	18.47	0	18.47	1.35	28.81	39.07%
	RHS	47.28	11.33	0	11.33	1.50	35.95	23.96%
4	GSB/ Cement Treated Base							
	LHS	47.28	12.44	0	12.44	2.35	34.84	26.31%
	RHS	47.28	6.81	0	6.81	1.45	40.47	14.40%
5	Wet Mix Macadam							
	LHS	47.28	11.22	0	11.22	0	36.06	23.73%
	RHS	47.28	5.74	0	5.74	0	41.54	12.14%
6	Dense Bitumen Macadam							
	LHS	47.28	8.88	0	8.88	0	38.40	18.78%
	RHS	47.28	4.96	0	4.96	0	42.32	10.49%
7	Bituminous Concrete							
	LHS	47.28	0	0	0	0	47.28	0.00%
	RHS	47.28	0	0	0	0	47.28	0.00%

For Service Road

Sr. No.	Description	Total Length of Service Road (Km.)	Progress up to Previous Month (in Km)	Progress during this Month (In Km.)	Cumulative Progress Achieved up to this Month (In Km)	In Progress (In Km.)	Balance Length to be Completed	Cumulative % of Progress Achieved
1	Embankment	53.19	5.28	0	5.28	2.23	47.91	9.93%
2	Sub grade	53.19	3.90	0	3.90	0.60	49.29	7.33%
3	GSB/ Cement Treated Base	53.19	0.80	0	0.80	0.20	52.39	1.50%
4	Wet Mix Macadam	53.19	0.00	0	0.00	0.00	53.19	0.00%
5	Dense Bitumen Macadam	53.19	0.00	0	0.00	0.00	53.19	0.00%
6	Bituminous Concrete	53.19	0.00	0	0.00	0.00	53.19	0.00%

Structure Work					
Sr. No.	Type of Structure	Total No. of Structures	Nos. of Structures		
			Completed	In Progress	Balance to be taken up
1	Culvert	60	18	26	16
2	Light Vehicular Underpass	2	0.5	0.5	1
3	Vehicular Underpass	13	0	12	1
4	Minor Bridges	25	8	12	5
5	Major Bridge	4	0	4	0
6	Flyover	8	0	7	1

The Physical Progress of the Project up to May 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%	22.80	3.241%
	(2) Granular work (sub-base, base, shoulders)	Km				
	(a) GSB/ Cement Treated Base	Km	65.52	3.373%	19.25	0.991%
	(b) WMM/ Cement Treated Base	Km	65.52	4.046%	16.96	1.047%
	(3) Shoulders	Km	17.65	0.112%		
	(4) Bituminous work	Km				
	(a) DBM	Km	65.52	3.344%	13.84	0.706%
	(b) BC	Km	65.52	3.023%		
	(5) Rigid Pavement					
	(6) Widening and repair of culverts	Nos.	16	0.440%	4.00	0.110%
	(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%	7.00	1.571%
	(2) Granular work (sub-base, base, shoulders)					
	(a) GSB/ Cement Treated Base	Km	28.68	1.615%		
	(b) WMM/ Cement Treated Base	Km	28.68	1.436%		
	(3) Shoulders	Km	24.63	0.112%		
	(4) Bituminous work					
	(a) DBM	Km	28.68	1.279%		
(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%	13.60	0.640%
	(2) Minor bridges					
	(a) Foundation	Nos.	58	3.953%	31.00	2.113%
	(b) Substructure	Nos.	134	2.623%	73.00	1.429%
	(c) Superstructure (including crash barrier etc. complete)	Nos.	50	1.559%	20.00	0.624%
	(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%	34.00	1.563%
	(ii) Substructure	Nos.	60	0.751%	26.00	0.326%
	(iii) Superstructure (including crash barrier etc. complete)	Nos.	30	1.289%	1.00	0.043%
	(b) Overpass					
	(i) Foundation					
	(ii) Substructure					
	(iii) Superstructure (including crash barrier etc. complete)					
	(c) Flyover					
	(i) Foundation	Nos.	36	2.426%	18.00	1.213%
	(ii) Substructure	Nos.	36	0.470%	17.00	0.222%
	(iii) Superstructure (including crash barrier etc. complete)	Nos.	20	1.244%		
	(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	Nos.				
	(i) Piles	Nos.	556	7.018%	495.00	6.248%
	(ii) Pile Cap	Nos.	84	2.681%	42.00	1.341%

	(2) Sub-structure	Nos.	84	4.576%	30.00	1.634%
	(3) Super-structure (including crash barriers etc. complete)	Nos.	0	0.00%		
	(i) For MJB at Km. 107+400					
	(a) Casting of Superstructure (Box Segement)	Nos.	666	1.450%	270.00	0.588%
	(b) Erection of Superstructure (Box Segement)	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%	34393	1.334%
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%	3.92	0.738%
	(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	Km				
	(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%	0.055%	0.055%
	Total			100.00%		28.375%

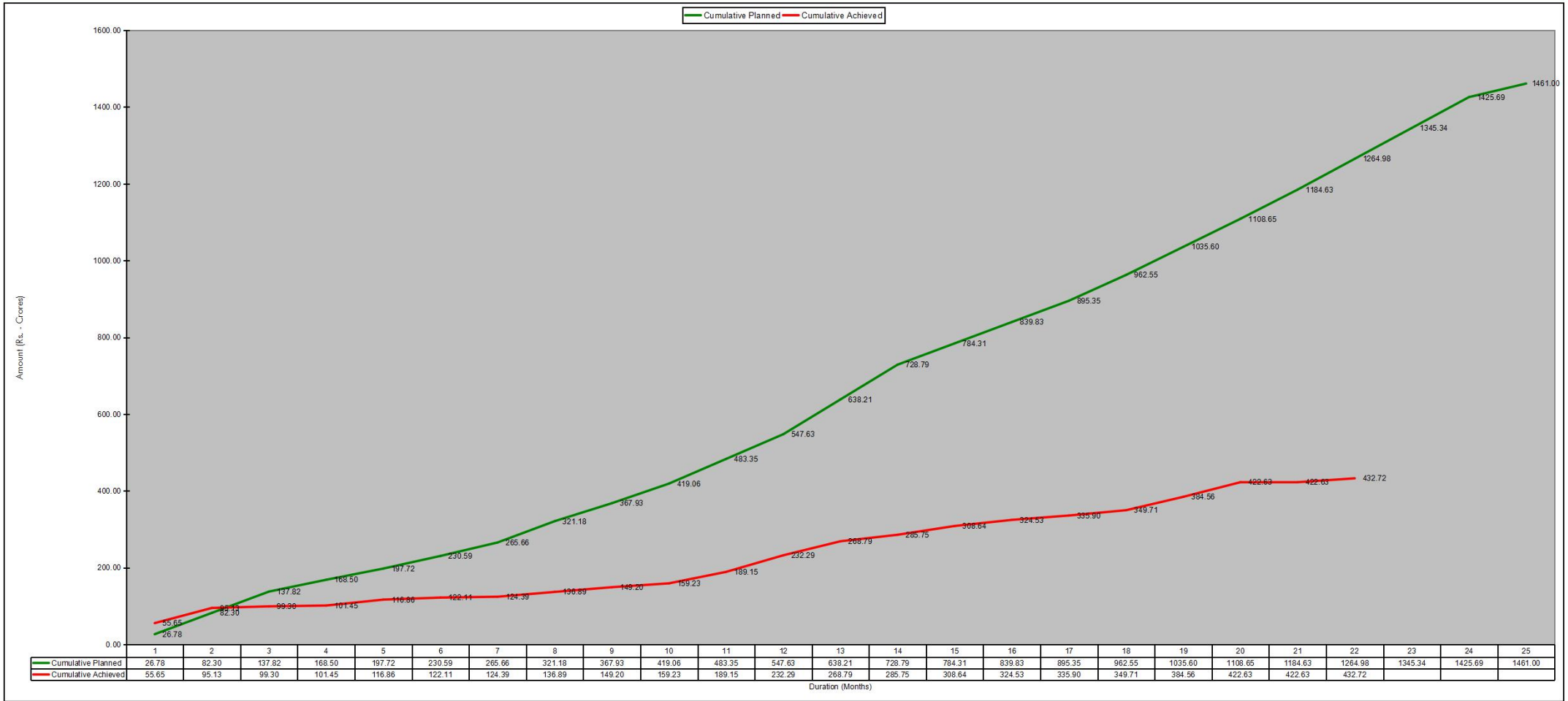
5. Financial & Physical Progress of Work

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

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

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

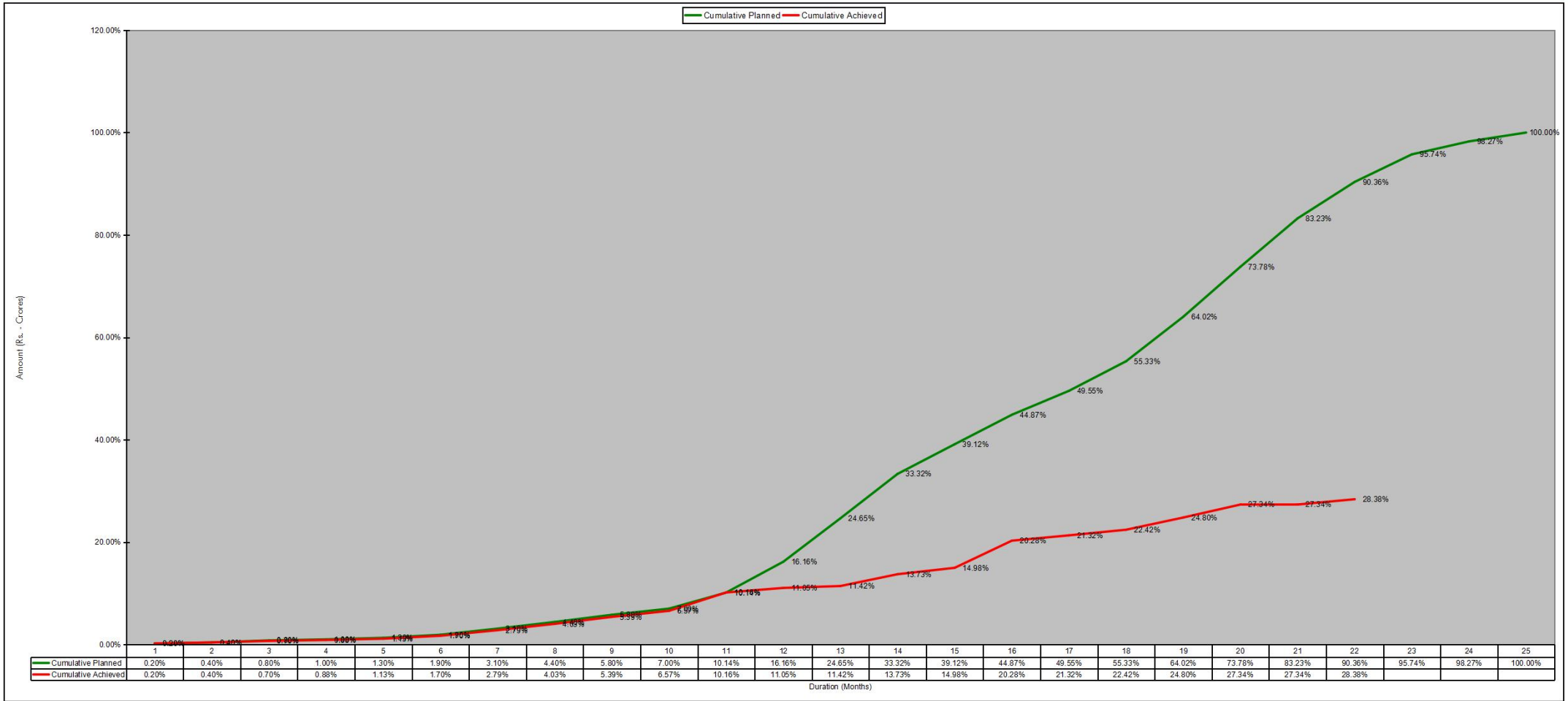
Fig. 03a- Financial Progress (S-Curve)



Schedule	2019												2020												
	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Monthly Planned	26.78	55.52	55.52	30.68	29.22	32.87	35.06	55.52	46.75	51.14	64.28	64.28	90.58	90.58	55.52	55.52	55.52	67.21	73.05	73.05	75.97	80.36	80.36	80.36	35.31
Monthly Achieved	55.65	39.48	4.17	2.15	15.41	5.26	2.27	12.50	12.31	10.03	29.92	43.15	36.50	16.96	22.89	15.89	11.36	13.81	34.85	38.07	0	10.09			
Cumulative Planned	26.78	82.30	137.82	168.50	197.72	230.59	265.66	321.18	367.93	419.06	483.35	547.63	638.21	728.79	784.31	839.83	895.35	962.55	1035.60	1108.65	1184.63	1264.98	1345.34	1425.69	1461.00
Cumulative Achieved	55.65	95.13	99.30	101.45	116.86	122.11	124.39	136.89	149.20	159.23	189.15	232.29	268.79	285.75	308.64	324.53	335.90	349.71	384.56	422.63	422.63	432.72			
Monthly Planned (%)	1.8%	3.8%	3.8%	2.1%	2.0%	2.3%	2.4%	3.8%	3.2%	3.5%	4.4%	4.4%	6.2%	6.2%	3.8%	3.8%	3.8%	4.6%	5.0%	5.0%	5.2%	5.5%	5.5%	5.5%	2.4%
Monthly Achieved (%)	3.8%	2.7%	0.3%	0.1%	1.1%	0.4%	0.2%	0.9%	0.8%	0.7%	2.0%	3.0%	2.5%	1.2%	1.6%	1.1%	0.8%	0.9%	2.4%	2.6%	0.0%	0.7%			
Cumulative Planned (%)	1.8%	5.6%	9.4%	11.5%	13.5%	15.8%	18.2%	22.0%	25.2%	28.7%	33.1%	37.5%	43.7%	49.9%	53.7%	57.5%	61.3%	65.9%	70.9%	75.9%	81.1%	86.6%	92.1%	97.6%	100.0%
Cumulative Achieved (%)	3.8%	6.5%	6.8%	6.9%	8.0%	8.4%	8.5%	9.4%	10.2%	10.9%	12.9%	15.9%	18.4%	19.6%	21.1%	22.2%	23.0%	23.9%	26.3%	28.9%	28.9%	29.6%			

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)

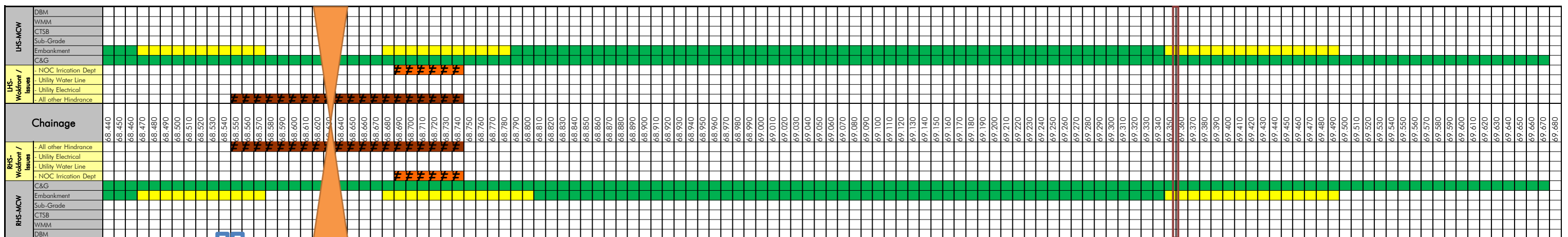
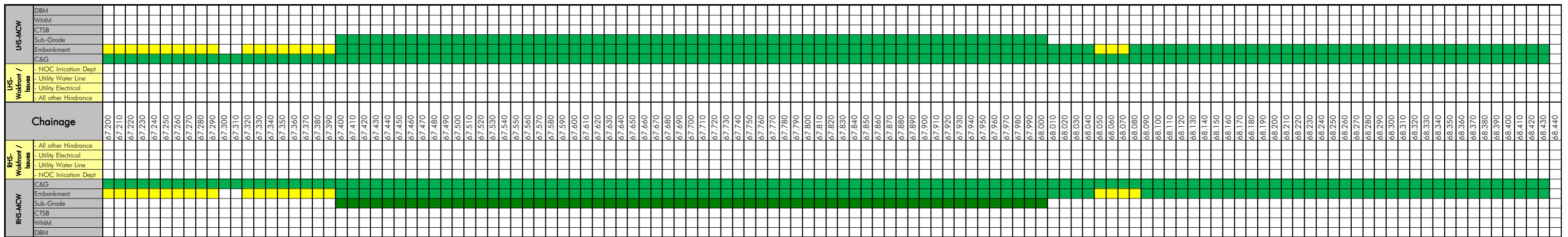
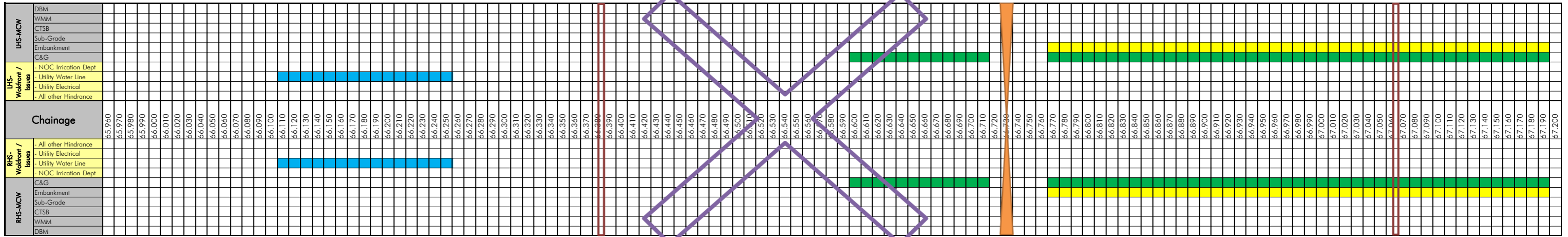


Schedule	Physical Progress (S-Curve)																								
	2019												2020												
	Aug 1	Sep 2	Oct 3	Nov 4	Dec 5	Jan 6	Feb 7	Mar 8	Apr 9	May 10	Jun 11	Jul 12	Aug 13	Sep 14	Oct 15	Nov 16	Dec 17	Jan 18	Feb 19	Mar 20	Apr 21	May 22	Jun 23	Jul 24	Aug 25
Monthly Planned	0.20%	0.20%	0.40%	0.20%	0.30%	0.60%	1.20%	1.30%	1.40%	1.20%	3.14%	6.02%	8.49%	8.67%	5.80%	5.75%	4.68%	5.78%	8.69%	9.76%	9.45%	7.13%	5.38%	2.53%	1.73%
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%			
Cumulative Planned	0.20%	0.40%	0.80%	1.00%	1.30%	1.90%	3.10%	4.40%	5.80%	7.00%	10.14%	16.16%	24.65%	33.32%	39.12%	44.87%	49.55%	55.33%	64.02%	73.78%	83.23%	90.36%	95.74%	98.27%	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%			

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

Sethiyahopu - Cholopuram Road Projects

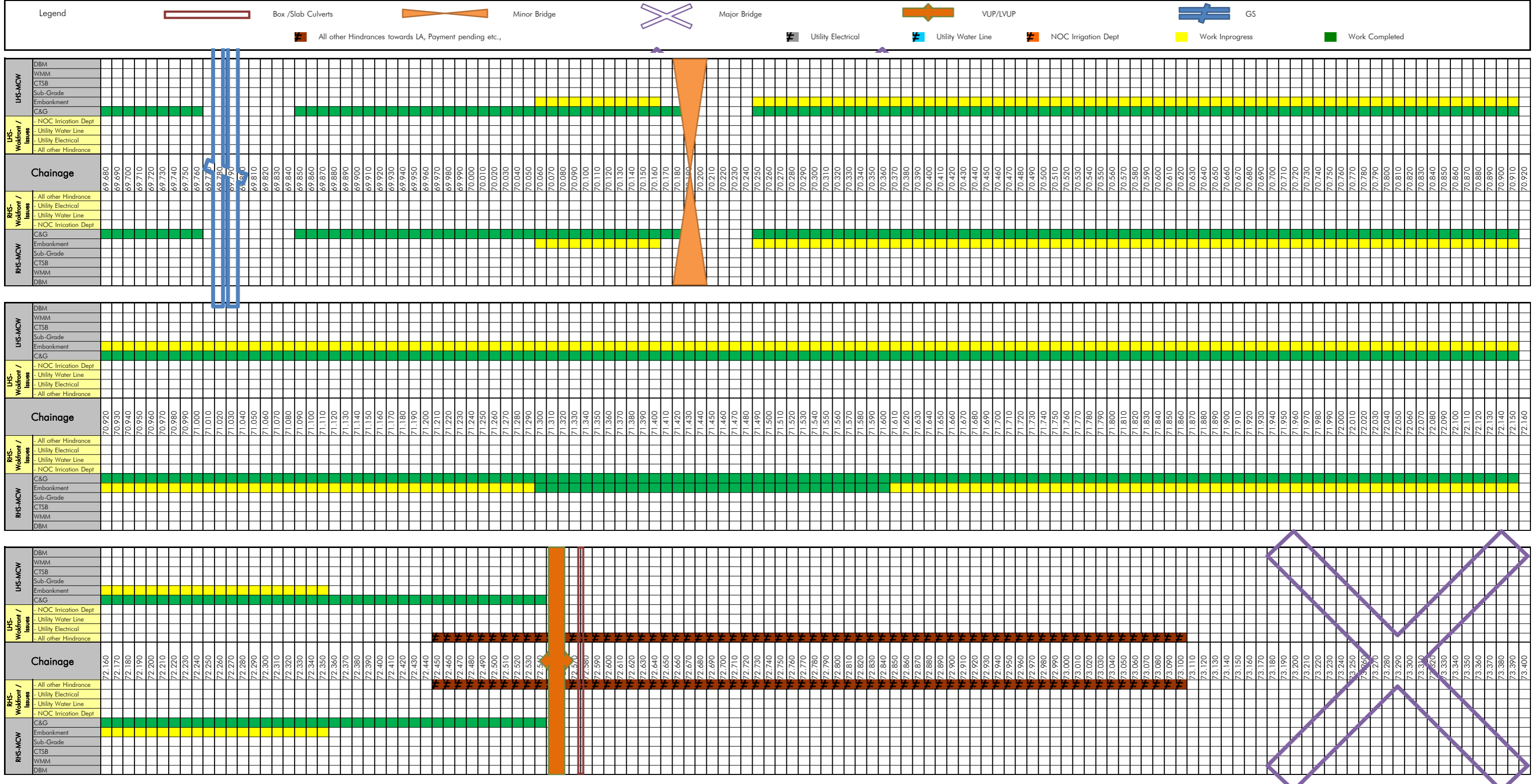
Strip Plan for MCW on 31-05-2020



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

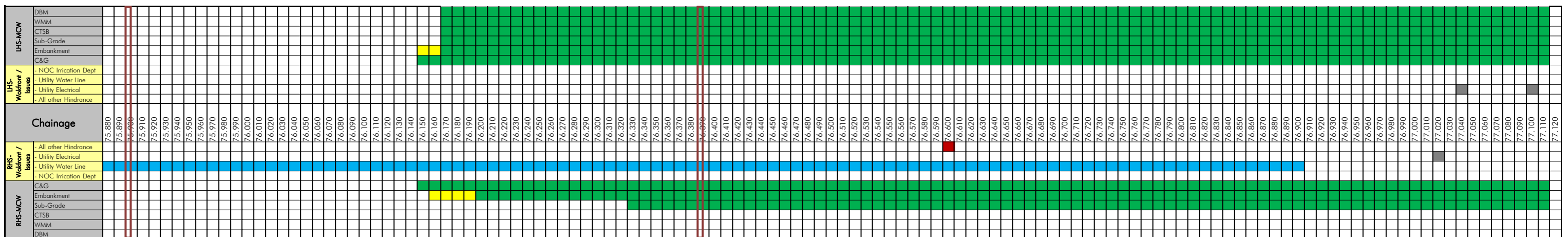
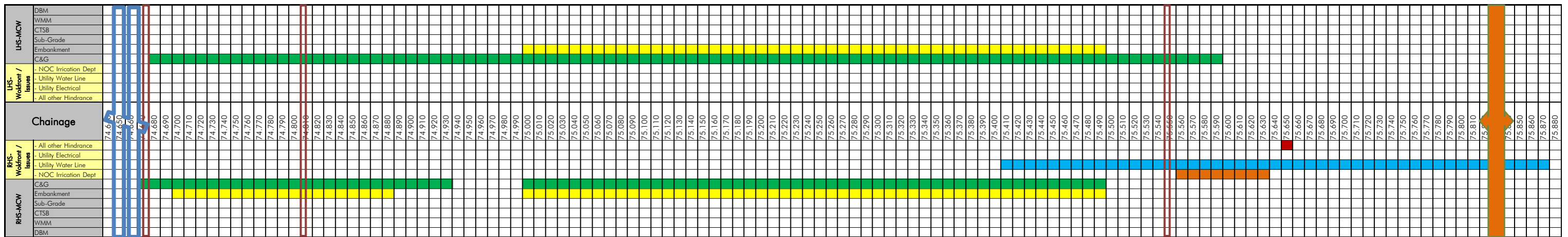
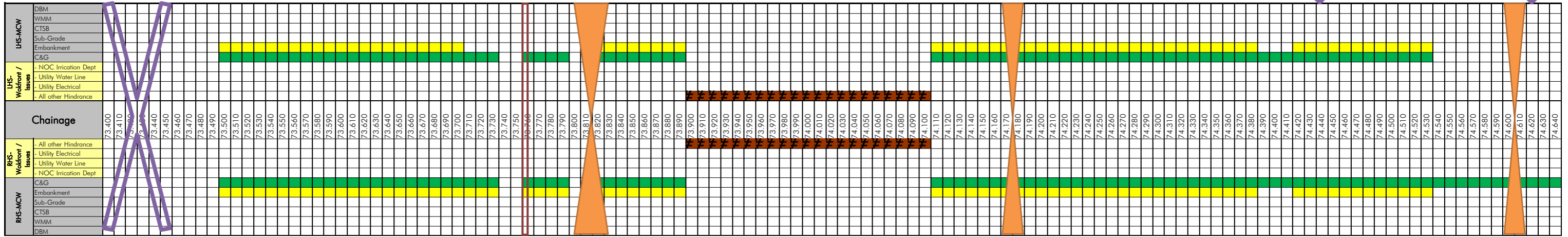
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Four Laning of Sethiyahopu - Cholopuram from Km.65.960 to Km.116.440 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode

Sethiyahopu - Cholopuram Road Projects

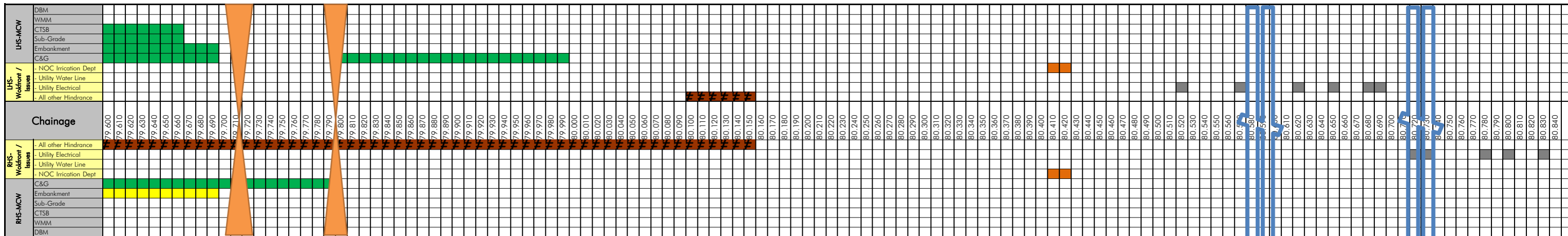
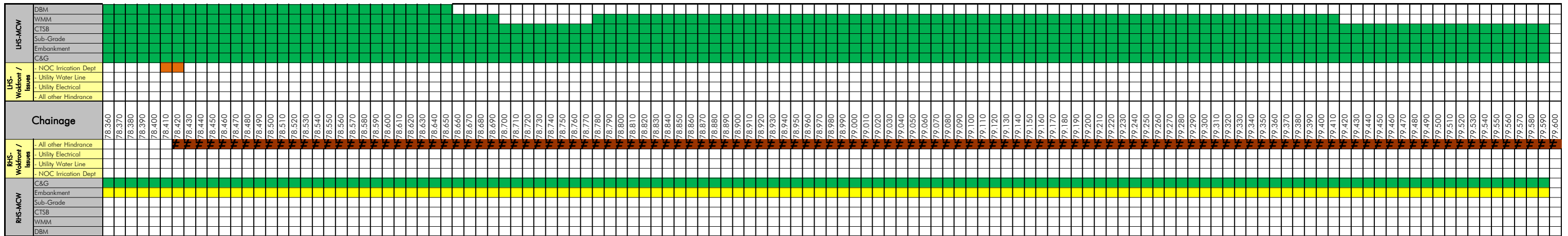
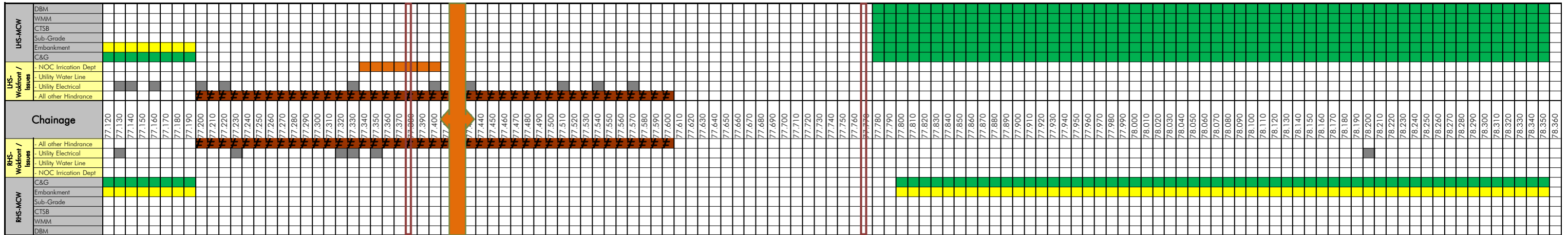
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Four Laning of Sethiyahopu - Cholopuram from Km.65.960 to Km.116.440 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode

Sethiyahopu - Cholopuram Road Projects

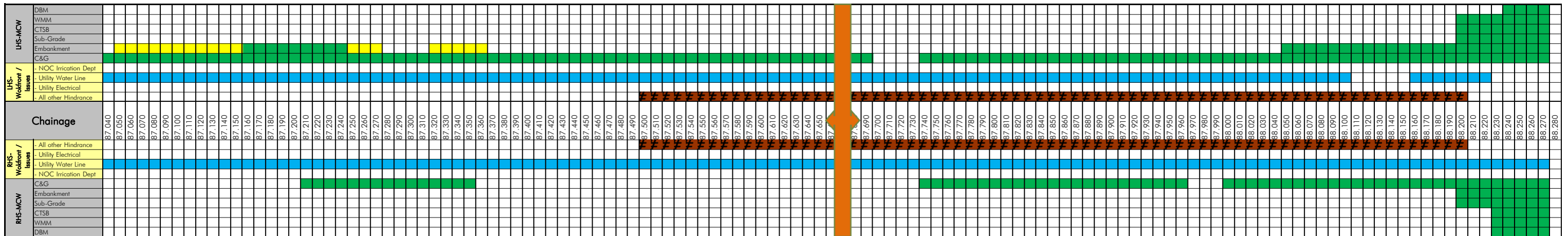
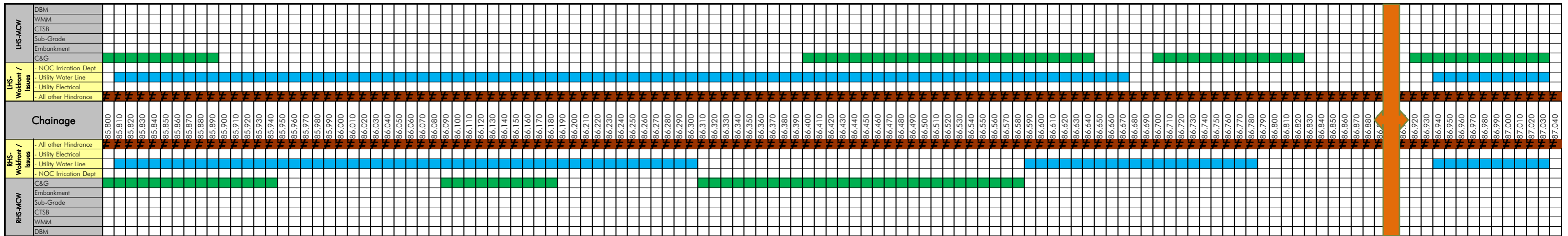
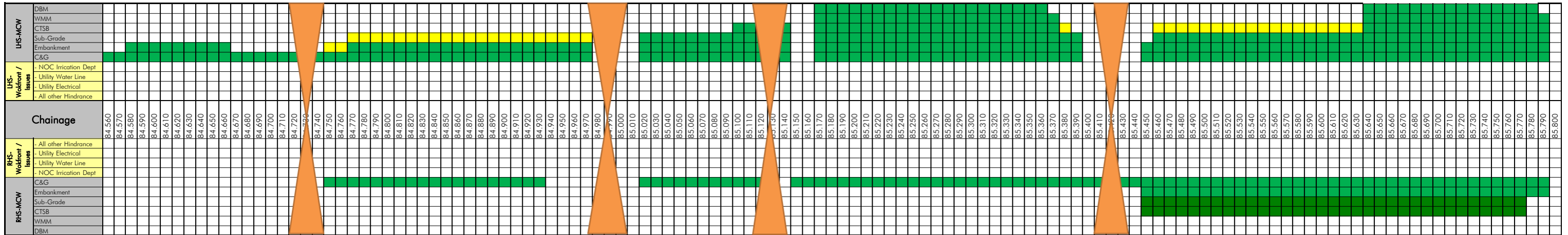
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Four Laning of Sethiyahopu - Cholopuram from Km.65.960 to Km.116.440 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode

Sethiyahopu - Cholopuram Road Projects

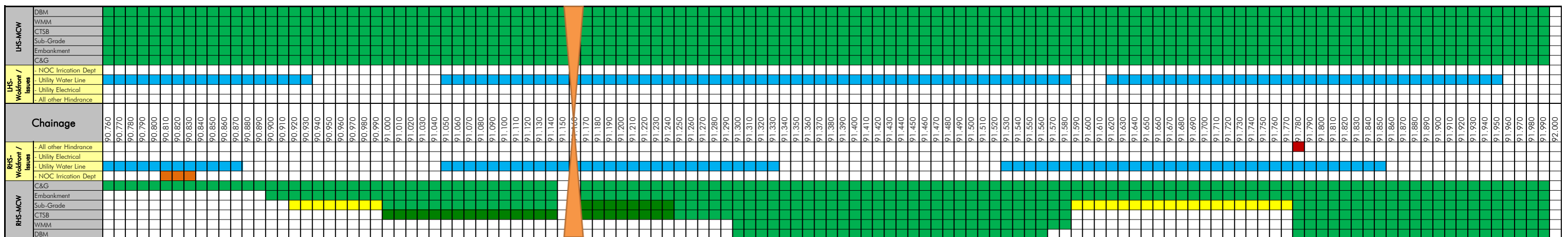
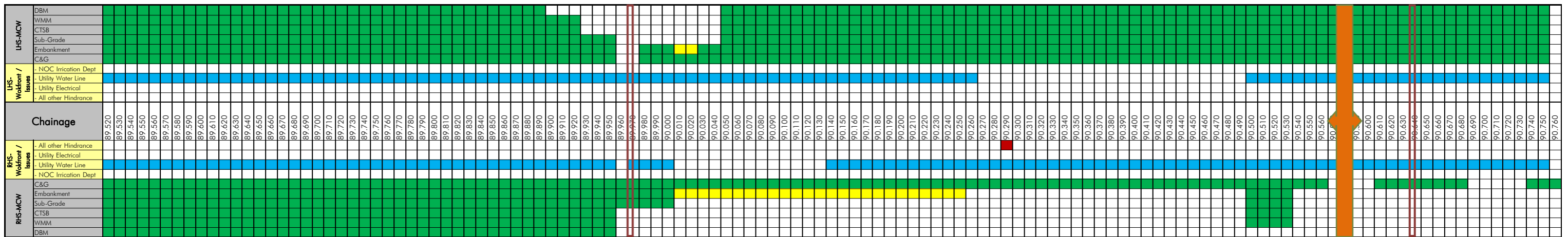
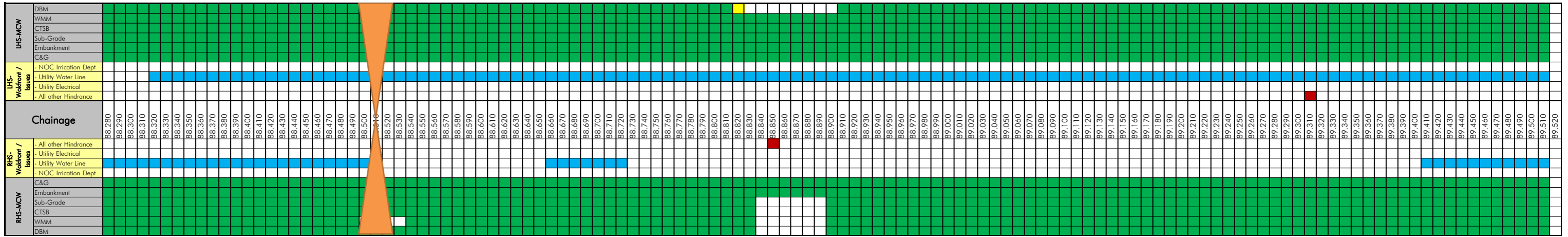
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Four Laning of Sethiyahopu - Cholopuram from Km.65.960 to Km.116.440 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode

Sethiyahopu - Cholopuram Road Projects

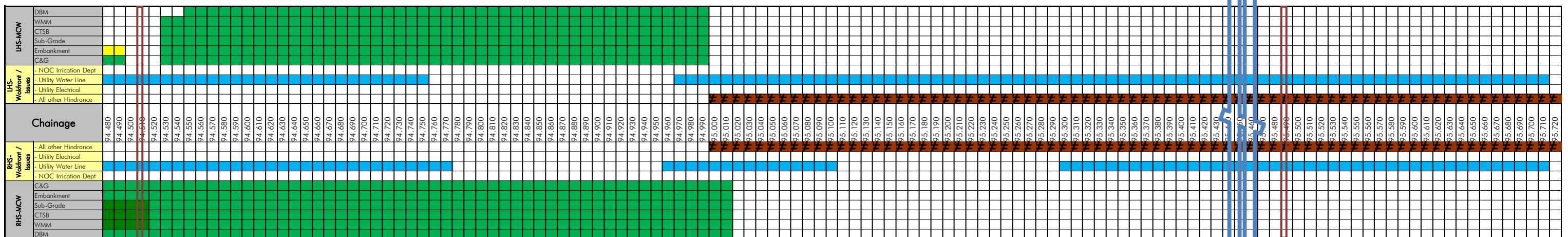
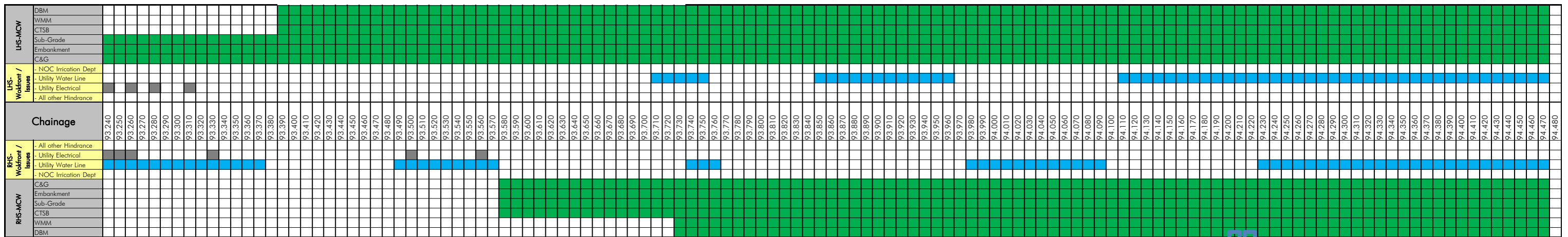
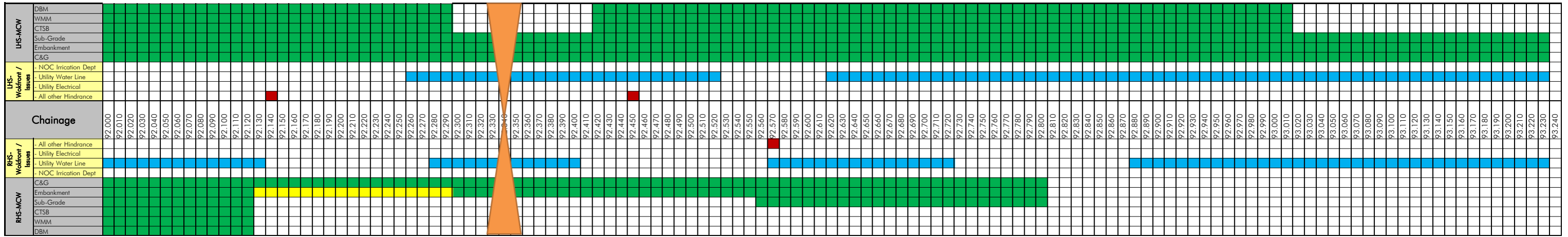
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Four Laning of Sethiyahopu - Cholopuram from Km.65.960 to Km.116.440 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode

Sethiyahopu - Cholopuram Road Projects

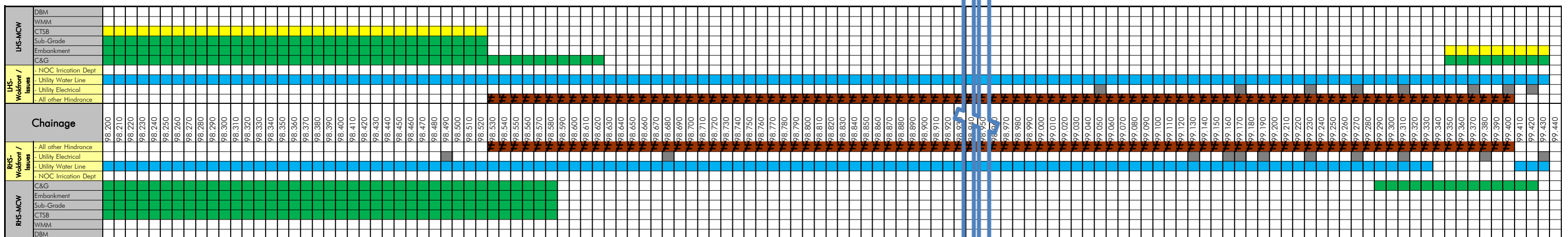
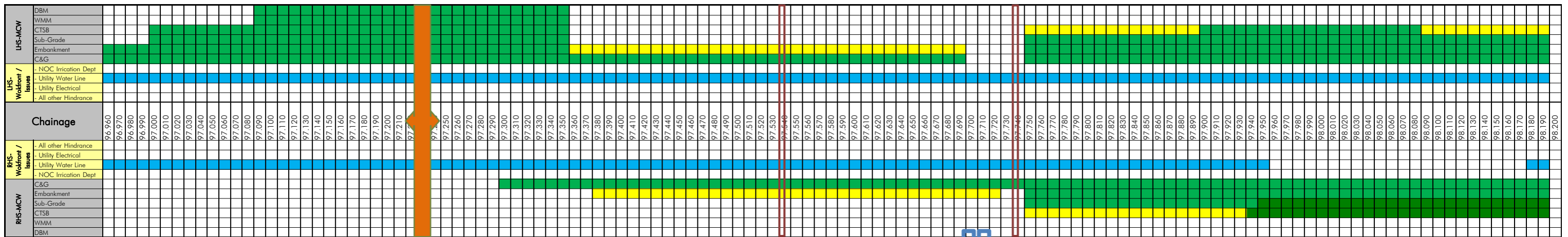
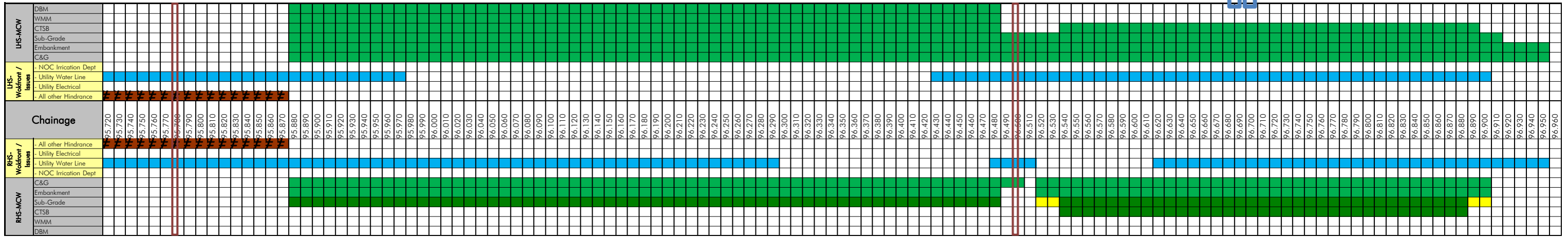
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Four Laning of Sethiyahopu - Cholopuram from Km.65.960 to Km.116.440 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode

Sethiyahopu - Cholopuram Road Projects

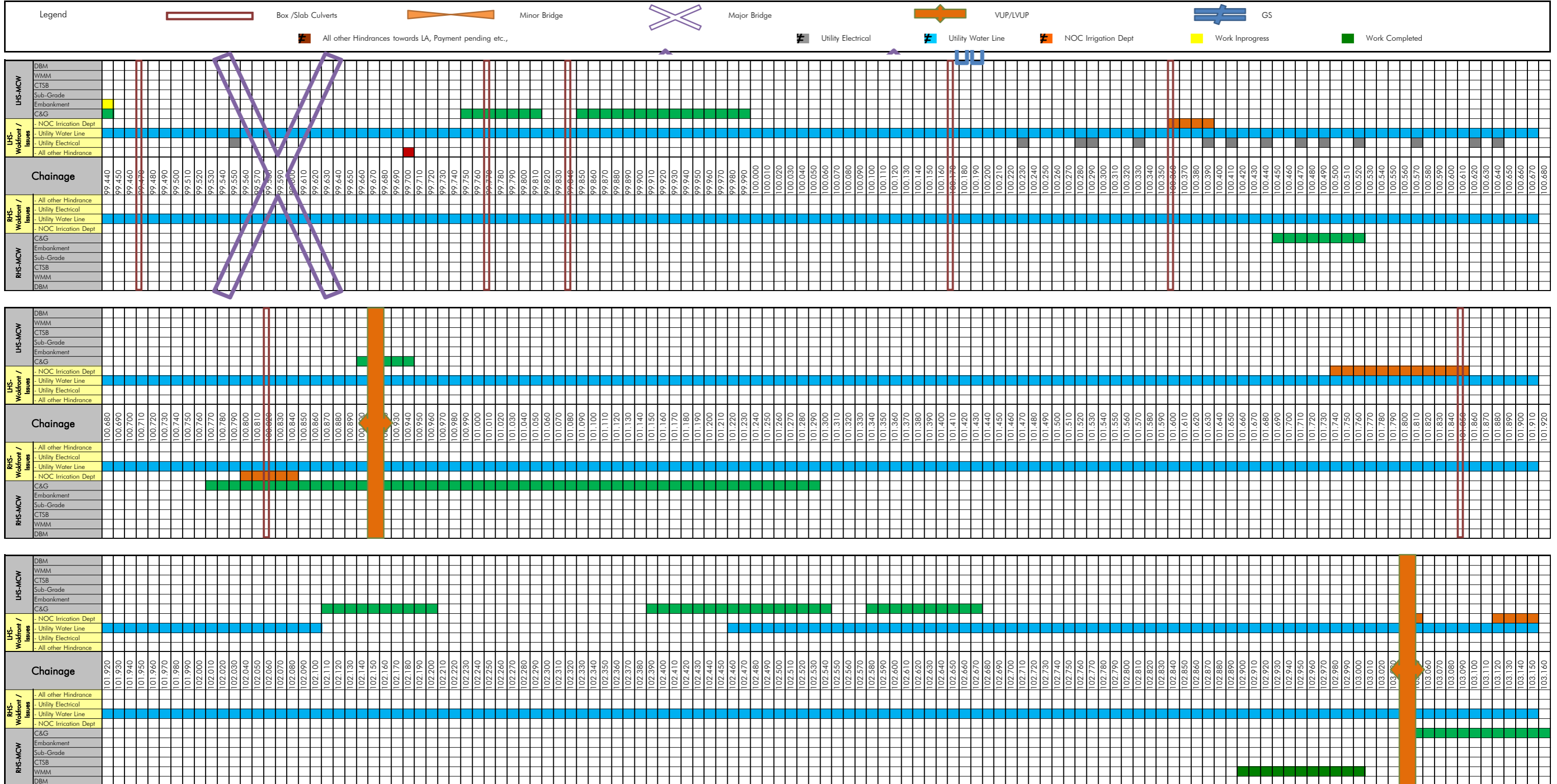
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Four Laning of Sethiyahopu - Cholopuram from Km.65.960 to Km.116.440 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode

Sethiyahopu - Cholopuram Road Projects

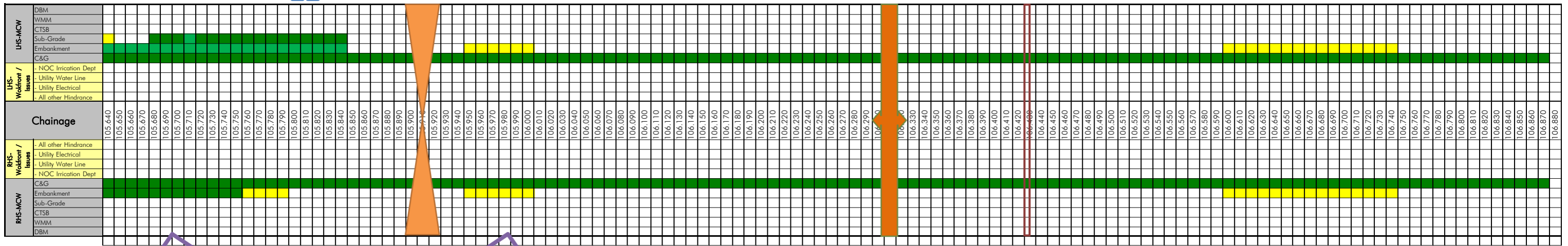
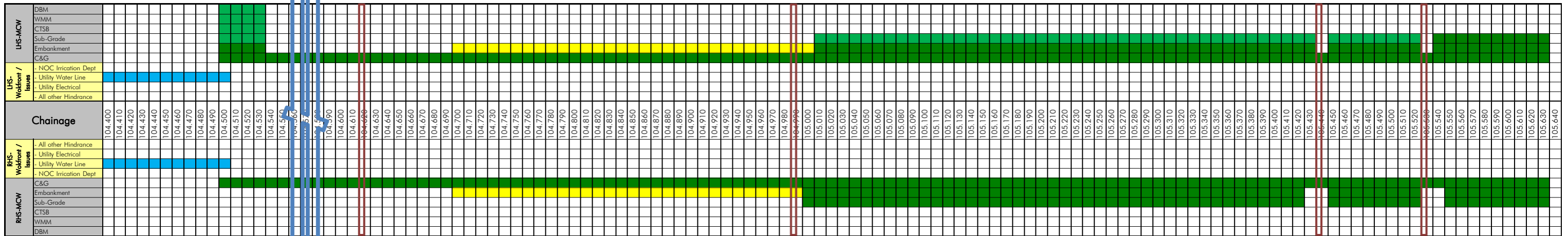
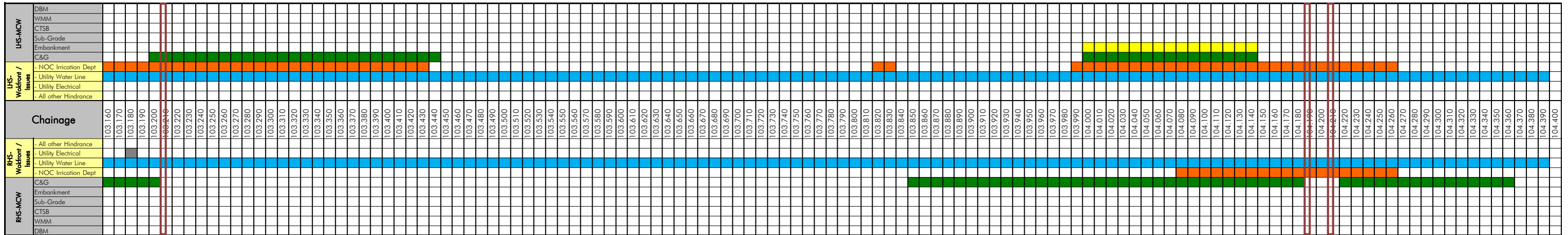
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Four Laning of Sethiyahopu - Cholopuram from Km.65.960 to Km.116.440 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode

Sethiyahopu - Cholopuram Road Projects

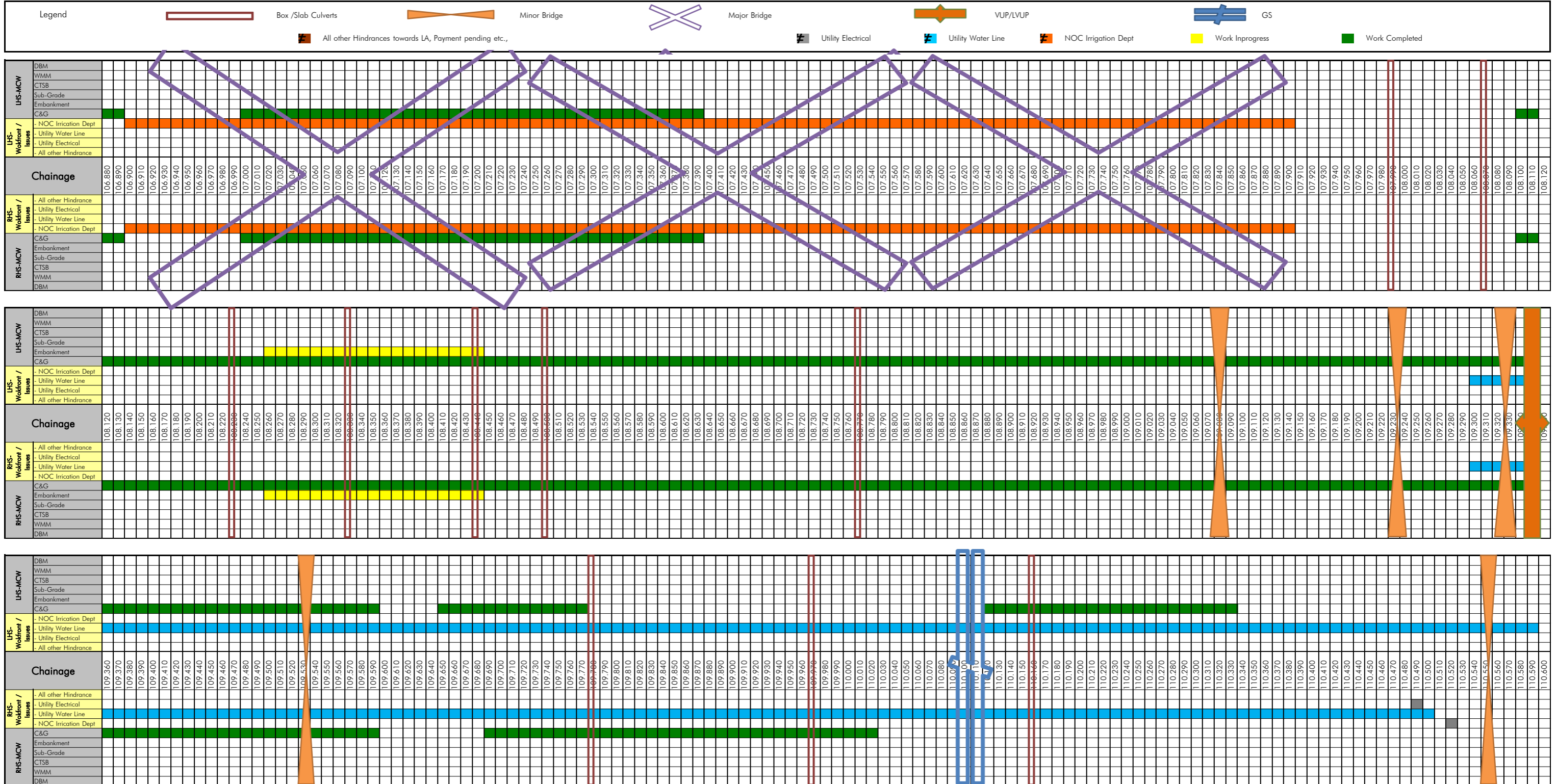
Strip Plan for MCW on 31-05-2020



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

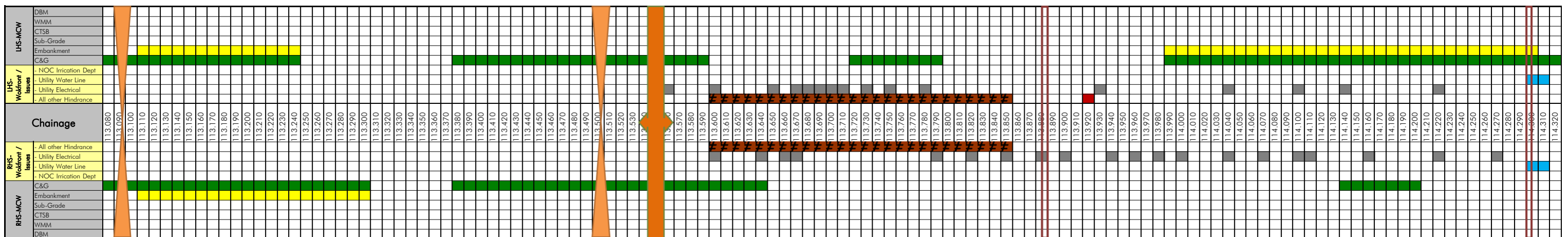
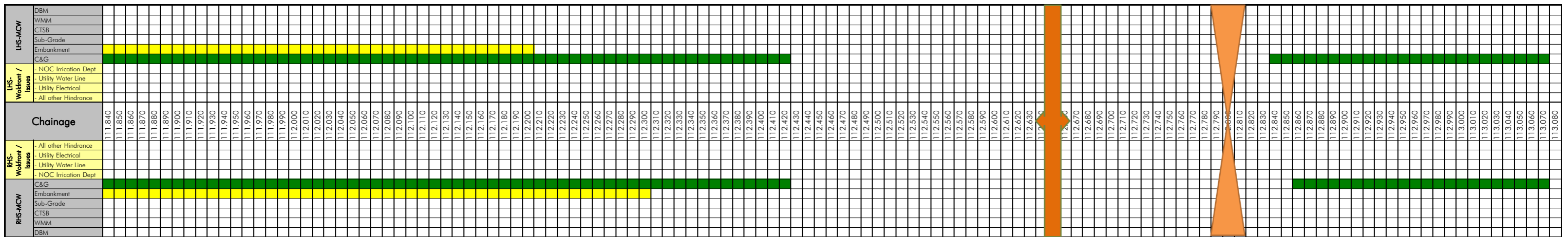
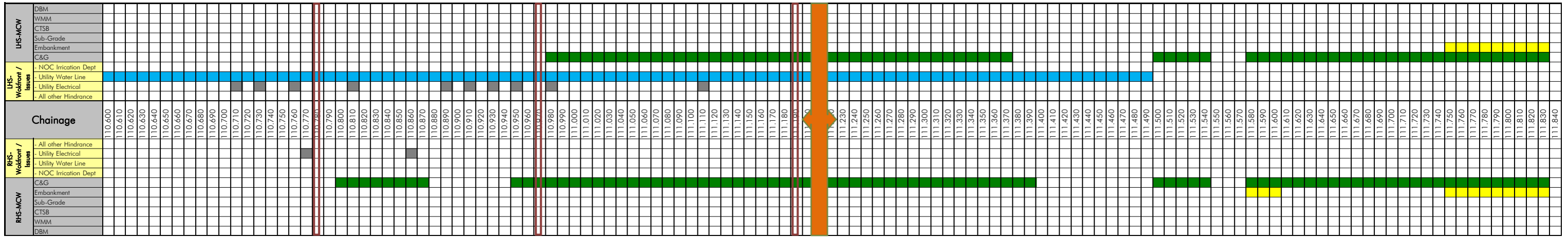
Strip Plan for MCW on 31-05-2020



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

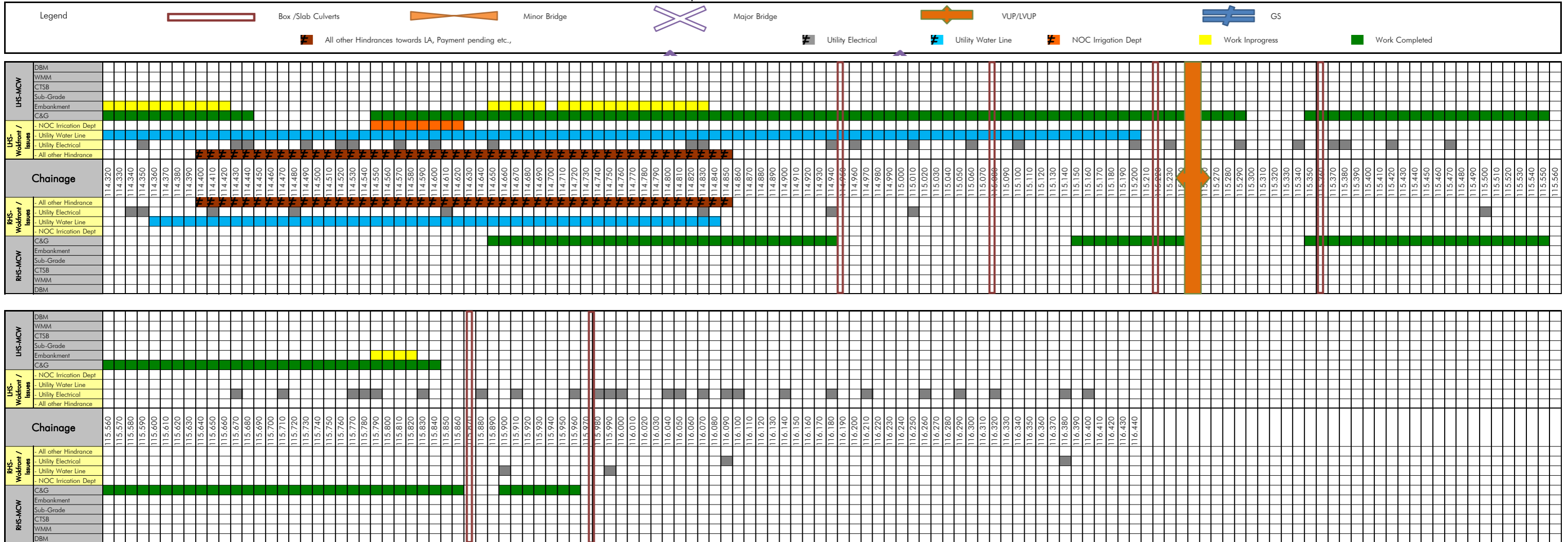
Strip Plan for MCW on 31-05-2020



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

Strip Plan for MCW on 31-05-2020



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

Strip Plan for SR on 31-05-2020

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

LIIS-MCW	Sub-Grade	Embankment	C&G	Chainage	RIS-MCW	C&G	Embankment	Sub-Grade	CTSB
				69.460					
				69.470					
				69.480					
				69.490					
				69.500					
				69.510					
				69.520					
				69.530					
				69.540					
				69.550					
				69.560					
				69.570					
				69.580					
				69.590					
				69.600					
				69.610					
				69.620					
				69.630					
				69.640					
				69.650					
				69.660					
				69.670					
				69.680					
				69.690					
				69.700					
				69.710					
				69.720					
				69.730					
				69.740					
				69.750					
				69.760					
				69.770					
				69.780					
				69.790					
				69.800					
				69.810					
				69.820					
				69.830					
				69.840					
				69.850					
				69.860					
				69.870					
				69.880					
				69.890					
				69.900					
				69.910					
				69.920					
				69.930					
				69.940					
				69.950					
				69.960					
				69.970					
				69.980					
				69.990					
				70.000					
				70.010					
				70.020					
				70.030					
				70.040					
				70.050					
				70.060					
				70.070					
				70.080					
				70.090					
				70.100					
				70.110					
				70.120					
				70.130					
				70.140					
				70.150					
				70.160					
				70.170					
				70.180					
				70.190					
				70.200					
				70.210					
				70.220					
				70.230					
				70.240					
				70.250					
				70.260					
				70.270					
				70.280					
				70.290					
				70.300					
				70.310					
				70.320					
				70.330					
				70.340					
				70.350					
				70.360					
				70.370					
				70.380					
				70.390					
				70.400					
				70.410					
				70.420					
				70.430					
				70.440					
				70.450					
				70.460					
				70.470					
				70.480					
				70.490					
				70.500					
				70.510					
				70.520					
				70.530					
				70.540					
				70.550					
				70.560					
				70.570					
				70.580					
				70.590					
				70.600					
				70.610					
				70.620					
				70.630					
				70.640					
				70.650					
				70.660					
				70.670					
				70.680					
				70.690					
				70.700					
				70.710					
				70.720					
				70.730					
				70.740					
				70.750					
				70.760					
				70.770					
				70.780					
				70.790					
				70.800					
				70.810					
				70.820					
				70.830					
				70.840					
				70.850					
				70.860					
				70.870					
				70.880					
				70.890					
				70.900					
				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	Sub-Grade	Embankment	C&G	Chainage	RIS-MCW	C&G	Embankment	Sub-Grade	CTSB
				74.330					
				74.340					
				74.350					
				74.360					
				74.370					
				74.380					
				74.390					
				74.400					
				74.410					
				74.420					
				74.430					
				74.440					
				74.450					
				74.460					
				74.470					
				74.480					
				74.490					
				74.500					
				74.510					
				74.520					
				74.530					
				74.540					
				74.550					
				74.560					
				74.570					
				74.580					
				74.590					
				74.600					
				74.610					
				74.620					
				74.630					
				74.640					
				74.650					
				74.660					
				74.670					
				74.680					
				74.690					
				74.700					
				74.710					
				74.720					
				74.730					
				74.740					
				74.750					
				74.760					
				74.770					
				74.780					
				74.790					
				74.800					
				74.810					
				74.820					

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

Sethiyahopu - Cholopuram Road Projects

Strip Plan for SR on 31-05-2020



LIIS-MCW	Sub-Grade	Embankment	C&G
85.650			
85.660			
85.670			
85.680			
85.690			
85.700			
85.710			
85.720			
85.730			
85.740			
85.750			
85.760			
85.770			
85.780			
85.790			
85.800			
85.810			
85.820			
85.830			
85.840			
85.850			
85.860			
85.870			
85.880			
85.890			
85.900			
85.910			
85.920			
85.930			
85.940			
85.950			
85.960			
85.970			
85.980			
85.990			
86.000			
86.010			
86.020			
86.030			
86.040			
86.050			
86.060			
86.070			
86.080			
86.090			
86.100			
86.110			
86.120			
86.130			
86.140			
86.150			
86.160			
86.170			
86.180			
86.190			
86.200			
86.210			
86.220			
86.230			
86.240			
86.250			
86.260			
86.270			
86.280			
86.290			
86.300			
86.310			
86.320			
86.330			
86.340			
86.350			
86.360			
86.370			
86.380			
86.390			
86.400			
86.410			
86.420			
86.430			
86.440			
86.450			
86.460			
86.470			
86.480			
86.490			
86.500			
86.510			
86.520			
86.530			
86.540			
86.550			
86.560			
86.570			
86.580			
86.590			
86.600			
86.610			
86.620			
86.630			
86.640			
86.650			
86.660			
86.670			
86.680			
86.690			
86.700			
86.710			
86.720			
86.730			
86.740			
86.750			
86.760			
86.770			
86.780			
86.790			
86.800			
86.810			
86.820			
86.830			
86.840			
86.850			
86.860			
86.870			
86.880			

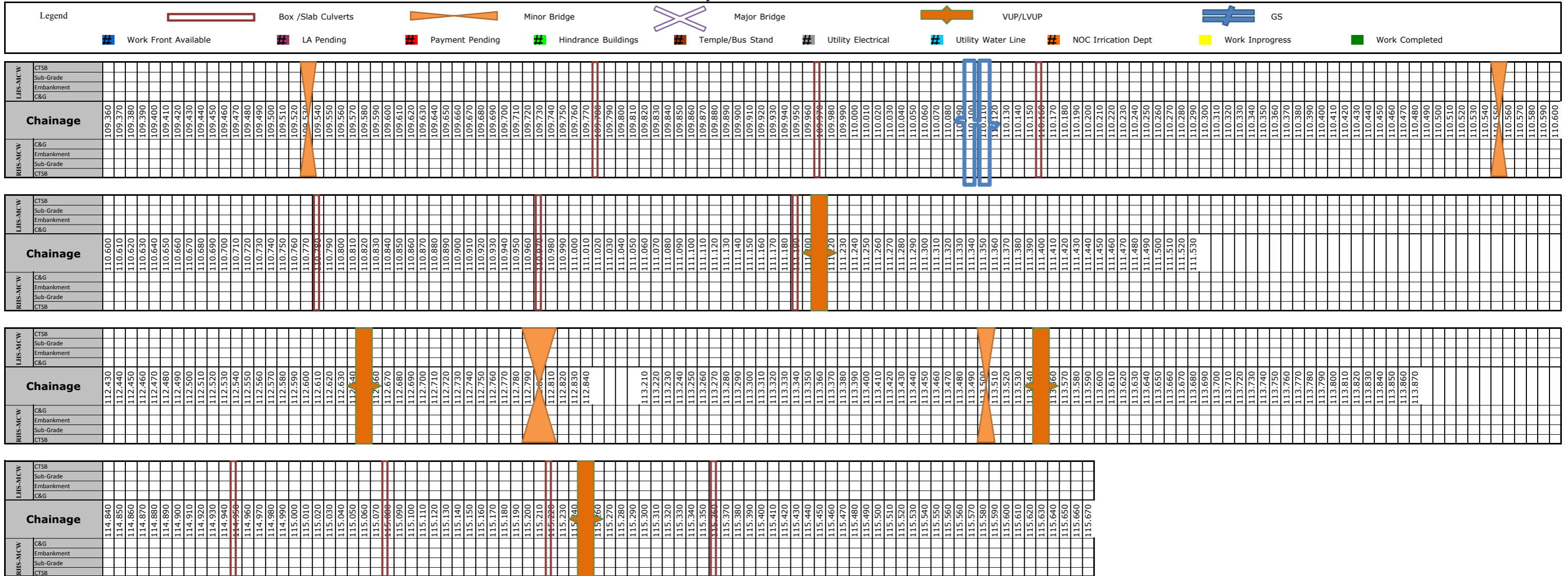
LIIS-MCW	Sub-Grade	Embankment	C&G
86.890			
86.900			
86.910			
86.920			
86.930			
86.940			
86.950			
86.960			
86.970			
86.980			
86.990			
87.000			
87.010			
87.020			
87.030			
87.040			
87.050			
87.060			
87.070			
87.080			
87.090			
87.100			
87.110			
87.120			
87.130			
87.140			
87.150			
87.160			
87.170			
87.180			
87.190			
87.200			
87.210			
87.220			
87.230			
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87.390			
87.400			
87.410			
87.420			
87.430			
87.440			
87.450			
87.460			
87.470			
87.480			
87.490			
87.500			
87.510			
87.520			
87.530			
87.540			
87.550			
87.560			
87.570			
87.580			
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87.600			
87.610			
87.620			
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87.720			
87.730			
87.740			
87.750			
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87.780			
87.790			
87.800			
87.810			
87.820			
87.830			
87.840			
87.850			
87.860			
87.870			
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87.890			
87.900			
87.910			
87.920			
87.930			
87.940			
87.950			
87.960			
87.970			
87.980			
87.990			
88.000			
88.010			
88.020			
88.030			
88.040			
88.050			
88.060			
88.070			
88.080			
88.090			
88.100			
88.110			
88.120			

LIIS-MCW	Sub-Grade	Embankment	C&G
88.130			
88.140			
88.150			
88.160			
88.170			
88.180			
88.190			
88.200			
88.210			
88.220			
88.230			
88.240			
88.250			
88.260			
88.265			
88.280			
88.290			
88.300			
88.310			
88.320			
88.330			
88.340			
88.350			
88.360			
88.370			
88.380			
88.390			
88.400			
88.410			
88.420			
88.430			
88.440			
88.450			
88.460			
88.470			
88.480			
88.490			
88.500			
88.510			
88.520			
88.530			
88.540			
88.550			
88.560			
88.570			
88.580			
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88.620			
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88.660			
88.670			
88.680			
88.690			
88.700			
88.710			
88.720			
88.730			
88.740			
88.750			
88.760			
88.770			
88.780			
88.790			
88.800			
88.810			
88.820			
88.830			
88.840			
88.850			
88.860			
88.870			
88.880			
88.890			
88.900			
88.910			
88.920			
88.930			
88.940			
88.950			
88.960			
88.970			
88.980			
88.990			
89.000			
89.010			
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89.100			
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89.120			
89.130			
89.140			
89.150			
89.160			
89.170			
89.180			
89.190			
89.200			
89.210			
89.220			
89.230			
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89.260			
89.270			
89.280			
89.290			
89.300			
89.310			
89.320			
89.330			
89.340			
89.350			
89.360			
89.370			
89.380			
89.390			
89.400			
89.410			
89.420			
89.430			
89.440			
89.450			
89.460			
89.470			
89.480			
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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			

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

Sethiyahopu - Cholopuram Road Projects

Strip Plan for SR on 31-05-2020



SETHIAHOPU CHOLOPURAM PROJECT - STATUS OF BOX CULVERTS ON EXISTING ROAD - MCW							Completed	In Progress													
Status Upto	31.05.2020						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	31.05.2020						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	31.05.2020					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															

SETHIAHOPU CHOLOPURAM PROJECT - STATUS OF BOX CULVERTS ON BYPASS - SERVICE ROAD						Completed	In Progress													
Status Upto	31.05.2020					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	31.05.2020					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	31.05.2020					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	31.05.2020				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												

SETHIAHOPU CHOLOPURAM PROJECT - STATUS OF MNB (>15m Span)				Completed									In Progress									
Status upto	31.05.2020				LHS								RHS									
Sr. No.	MNB at Chainage	Span			Crash Barrier	Slab	Girder	Piercap /Abtcap	Pier/Abt	Open Foundation	PCC	Excavation	Excavation	PCC	Open Foundation	Pier/Abt	Piercap /Abtcap	Girder	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																		

SETHIAHOPU CHOLOPURAM PROJECT - STATUS OF MJB									Completed						
MJB at Chainage 66+530 (8x30) - BYPASS									In Progress						
Status Upto 31.05.2020	LHS/LSR								RHS/RSR						
	Crash Barrier	Slab	Girder Casting	Pier Cap/Abt Can	Pier/Abt	Pile Cap	Pile		Pile	Pile Cap	Pier/Abt	Pier Cap/Abt Can	Girder Casting	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 31.05.2020	LHS/LSR								RHS/LSR						
	Crash Barrier	Slab	Girder Casting	Pier Cap/Abt Can	Pier/Abt	Pile Cap	Pile		Pile	Pile Cap	Pier/Abt	Pier Cap/Abt Can	Girder Casting	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;"> Completed </div> <div style="display: flex; justify-content: space-between;"> In Progress </div>					
Status Upto 31.05.2020	LHS/LSR							RHS/LSR						
	Crash Barrier	Slab	Girder Casting	Pier Cap/Abt Can	Pier/Abt	Pile Cap	Pile	Pile	Pile Cap	Pier/Abt	Pier Cap/Abt Can	Girder Casting	Slab	Crash Barrier
A1														
P1														
P2														
A2														
MJB at Chainage 107+400 - BYPASS									<div style="display: flex; justify-content: space-between;"> Completed </div> <div style="display: flex; justify-content: space-between;"> In Progress </div>					
Status Upto 31.05.2020	LHS/LSR							RHS/LSR						
	Crash Barrier	Slab	Girder Casting	Pier Cap/Abt Can	Pier/Abt	Pile Cap	Pile	Pile	Pile Cap	Pier/Abt	Pier Cap/Abt Can	Girder Casting	Slab	Crash Barrier
A1														
P1														
P2														
P3														
P4														
P5														
P6														
P7														
P8														
P9														
P10														
P11														
P12														
P13														
P14														
P15														
P16														
P17														
P18														
P19														
A2														

SETHIAHOPU CHOLOPURAM PROJECT - STATUS OF FLYOVER					Completed								In Progress								
Status upto	31.05.2020				LHS								RHS								
Sr.No.	FO at Chainage	Span			Crash Barrier	Slab	Girder Casting	Piercap /Abtcap	Abt Shaft	Pile Cap	PCC	Pile	Pile	PCC	Pile Cap	Abt Shaft	Piercap /Abtcap	Girder Casting	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	31.05.2020				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																			

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 LISTS	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	Perforated 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 appratus with tamping rod 16mm dia *600mm long	9 Nos
98	Thermometer dial 100mm dia * 300mm long 00 - 3000c	10 Nos
99	Tripod stand for CBR test	4 Nos
100	Gauging trowel 6" (150mm)	4 Nos
101	U tube glass viscometer	1 Nos
102	Saybolt viscometer with energy regulator	1 Nos
103	Vacuum pump -Singal Stage	1 Nos
104	Vibrating table -60*60 CM	1 Nos
105	Needle final setting time for vicat needle appratus	1 Nos
106	Needle Intial setting time for vicat needle appratus	1 Nos
107	Vicat Needle apparatus	2 Nos
108	Hammer with Handle - 1000 GM	4 Nos
109	Aggregate Impact testing machine	1 Nos
110	Beakers - glass borosil - low form cap ; 600ML	2 Nos
111	Beam mould -15*15*70 CM - Mild steel	17 Nos

6.2. Quality Control Test Summary

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

The detailed list of quality control test conducted up to the month of May - 2020 are tabulated below -

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



Monthly Progress Report : Summary of Quality Control Report : Month of MAY-2020

S. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous(DEC) month				Tests conducted during reporting month upto May 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	323	323	0	87	0	0	0	0	323	323	0	87
1.2	Atterberg Limits	IS:2720 (Part5)	1 test / 250 meters	323	323	0	87	0	0	0	0	323	323	0	87
1.3	Proctor	IS:2720 (Part8)	1 test / 250 meters	323	323	0	87	0	0	0	0	323	323	0	87
1.4	Free Swell index	IS:2720 (Part40)	1 test / 250 meters	323	318	5	87	0	0	0	0	323	318	5	87
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	654	654	0	426	40	40	0	20	694	694	0	446
2.2	Atterberg Limits	IS:2720 (Part5)	1 test /1500 m ³	654	654	0	426	40	40	0	20	694	694	0	446
2.3	Proctor	IS:2720 (Part8)	1 test /1500 m ³	654	654	0	426	40	40	0	20	694	694	0	446
2.4	Free Swell index	IS:2720 (Part40)	1 test /1500 m ³	654	654	0	426	40	40	0	20	694	694	0	446
2.5	California bearing ratio	IS:2720 (Part16)	1 test / 3000 m ³	130	128	2	68	10	10	0	5	140	138	2	73
2.6	Direct shear Test	IS:2720 (Part13)	1 test /3000 m ³	32	32	0	15	10	10	0	5	42	42	0	20
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	35	33	0	13	0	0	0	0	35	33	0	13
3.2	Atterberg Limits	IS:2720 (Part5)	1 test /1500 m ³	35	33	0	13	0	0	0	0	35	33	0	13
3.3	Proctor	IS:2720 (Part8)	1 test /1500 m ³	35	33	0	13	0	0	0	0	35	33	0	13
3.4	Free Swell index	IS:2720 (Part40)	1 test /1500 m ³	35	33	0	13	0	0	0	0	35	33	0	13
3.5	California bearing ratio	IS:2720 (Part16)	1 test / 3000 m ³	14	12	2	7	0	0	0	0	14	12	2	7
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															
2.1	Grain size analysis	IS:2720 (Part4)	1 test /1500 m ³	27	27	0	20	0	0	0	0	27	27	0	20
2.2	Atterberg Limits	IS:2720 (Part5)	1 test /1500 m ³	27	27	0	20	0	0	0	0	27	27	0	20
2.3	Proctor	IS:2720 (Part8)	1 test /1500 m ³	27	27	0	20	0	0	0	0	27	27	0	20
2.4	Free Swell index	IS:2720 (Part40)	1 test /1500 m ³	27	27	0	20	0	0	0	0	27	27	0	20
2.5	California bearing ratio	IS:2720 (Part16)	1 test / 3000 m ³	8	8	0	8	0	0	0	0	8	8	0	8
2.6	Direct shear Test	IS:2720 (Part13)	1 test /3000 m ³	0	0	0	0	0	0	0	0	0	0	0	0
5.0 FLYASH For Embankment															
5.1	Liquid Limit & Plastic limit	TABLE-1	1 test /1500 m ³	167	167	0	104	0	0	0	0	167	167	0	104
5.2	Maximum Dry Density	Clause 5.2	1 test /1500 m ³	167	167	0	116	0	0	0	0	167	167	0	116
5.3	Grain size analysis	IS:2720 (Part4)	1 test /3000 m ³	57	57	0	43	0	0	0	0	57	57	0	43
5.4	Direct shear Test	IS:2720 (Part13)	1 test /3000 m ³	57	57	0	36	0	0	0	0	57	57	0	36
6.0 Field Density Test MORT&H 305															
6.1	Field density (OGL)	IS:2720 (Part28)	1 test /3000 sqm	3473	3356	117	925	0	0	0	0	3473	3356	117	925

S. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous(DEC) month				Tests conducted during reporting month upto May 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
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	113	113	0	68	0	0	0	0	113	113	0	68
13.2	Aggregate Impact Value	IS:2386 Part-4	1 test/ 1000 m ³	51	51	0	29	0	0	0	0	51	51	0	29
13.3	Flakiness & Elagation index	IS:2386 Part1	1 test/ 500 m ³	45	45	0	21	0	0	0	0	45	45	0	21
13.4	Atterberg Limits	IS:2720 (Part5)	1 test/200m ³	90	90	0	45	0	0	0	0	90	90	0	45
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	3	6	0	2	0	0	0	0	3	6	0	2
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.n	141	141	0	75	0	0	0	0	141	141	0	75
14.0 Dense Bituminous Macadam (Grade - II)															
14.1	Bitumen Extraction Test		1 Test/400MT	84	84	0	54	0	0	0	0	84	84	0	54
14.2	Gradation	Table 500 - 18, Grad.II	1 Test/400MT	84	84	0	54	0	0	0	0	84	84	0	54
14.3	Flakiness & Elagation index	IS:2386 Part1	1 test/ 50 m ³	62	62	0	42	0	0	0	0	62	62	0	42
14.4	Aggregate Impact Value	IS:2386 (Part4)	1 test/50m ³	101	101	0	60	0	0	0	0	101	101	0	60
14.5	Marshall Density	ASTM D 2726	1 Test/400MT	116	116	0	72	0	0	0	0	116	116	0	72
14.6	GMM		1 Test/400MT	84	84	0	56	0	0	0	0	84	84	0	56
14.7	Softening Point		1 Test/ 1 lot	23	23	0	13	0	0	0	0	23	23	0	13
14.8	Penetration		1 Test/ 1 lot	23	23	0	13	0	0	0	0	23	23	0	13
14.9	DBM Core Cutting		1 Test/700M ²	175	175	0	128	0	0	0	0	175	175	0	128
15.0 Prime Coat															
15.1	Rate of Spread of Binder		Three tests per day	87	87	0	45	0	0	0	0	87	87	0	45
16.0 Tack Coat															
14.1	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	850	850	0	295	17	17	0	7	867	867	0	302
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	708	708	0	223	17	17	0	7	725	725	0	230

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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	748	748	0	279	17	17	0	10	765	765	0	289
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 & monthly	236	236	0	112	4	4	0	2	240	240	0	114
18.4	Flakiness index	IS:2386 (Part1)	1 test / each source & monthly	206	206	0	99	4	4	0	2	210	210	0	101
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	295	295	0	150	7	7	0	3	302	302	0	153
19.3	Normal Consistency	IS:4031 (Part4)	Every batch	267	267	0	150	7	7	0	3	274	274	0	153
19.4	Initial, Final setting time	IS:4031 (Part5)	Every batch	267	267	0	150	7	7	0	3	274	274	0	153
19.5	Soundness of Cement	IS:4031 (Part3)	Every batch	214	214	0	118	4	4	0	1	218	218	0	119
19.6	Compressive Strength-set	IS:4031 (Part6)													
	3 days		1 test per Lot	221	221	0	116	7	7	0	2	228	228	0	118
	7 days		1 test per Lot	218	218	0	108	5	5	0	2	223	223	0	110
	28 days		1 test per Lot	208	208	0	102	8	8	0	4	216	216	0	106
20.0.(A) Concrete Cube Strength															
M15 PCC															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700	295	292	0	135	0	0	0	0	295	292	0	135
	28Days Compressive Strength		No of sets	503	503	0	278	21	21	0	4	524	524	0	282
M20 KERB															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700	94	94	0	36	0	0	0	0	94	94	0	36
	28Days Compressive Strength		No of sets	174	174	0	61	47	47	0	12	221	221	0	73
M20 RCC															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700	221	221	0	79	0	0	0	0	221	221	0	79
	28Days Compressive Strength		No of sets	411	411	0	169	47	47	0	13	458	458	0	182
M30 RCC															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700	189	189	0	96	0	0	0	0	189	189	0	96
	28Days Compressive Strength		No of sets	330	330	0	162	9	9	0	3	339	339	0	165
M30 RCC PUMPABLE															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700	17	17	0	13	0	0	0	0	17	17	0	13
	28Days Compressive Strength		No of sets	35	35	0	20	9	9	0	3	44	44	0	23

S. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous(DEC) month				Tests conducted during reporting month upto May 2020				Test conducted upto this month			
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M35 RCC															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700	165	165	0	121	0	0	0	0	165	165	0	121
	28Days Compressive Strength		No of sets	349	349	0	232	12	12	0	4	361	361	0	236
M35 PILING															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700	658	658	0	332	8	8	0	5	666	666	0	337
	28Days Compressive Strength		No of sets	1860	1854	0	1078	106	106	0	26	1966	1960	0	1104
M35 RCC PUMPABLE															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700	357	357	0	137	0	0	0	0	357	357	0	137
	28Days Compressive Strength		No of sets	875	875	0	371	168	168	0	34	1043	1043	0	405
M35 RE BLOCK															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700	578	578	0	197	13	13	0	5	591	591	0	202
	28Days Compressive Strength		No of sets	1581	1581	0	536	74	74	0	14	1655	1655	0	550
M40 PUMP															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700	64	64	0	29	8	8	0	3	72	72	0	32
	28Days Compressive Strength		No of sets	138	138	0	38	10	10	0	2	148	148	0	40
M40 PILE															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700	306	306	0	92	0	0	0	0	306	306	0	92
	28Days Compressive Strength		No of sets	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	73	73	0	11	12	12	0	4	85	85	0	15
	28Days Compressive Strength		No of sets	162	162	0	27	47	47	0	15	209	209	0	42
M50 RCC															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700	6	6	0	6	0	0	0	0	6	6	0	6
	28Days Compressive Strength		No of sets	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	231	231	0	53	5	5	0	2	236	236	0	55
	28Days Compressive Strength		No of sets	584	584	0	135	127	127	0	27	711	711	0	162

7. Weather Report

DATE	Temperature (°C)		Rainfall in mm	Humidity in %		Remarks
	Min	Max		Min	Max	
01/05/2020	25.70	40.2	0.00	31	67	Sunny
02/05/2020	28.90	40.4	0.00	31	68	Sunny
03/05/2020	28.80	40.1	0.00	33	74	Sunny
04/05/2020	28.50	39.7	0.00	41	79	Sunny
05/05/2020	27.00	39.5	3.50	30	81	Sunny
06/05/2020	28.30	41.3	0.00	42	78	Sunny
07/05/2020	28.80	40.4	0.00	43	76	Sunny
08/05/2020	28.90	41.8	0.00	44	73	Sunny
09/05/2020	28.60	40.9	0.00	44	79	Sunny
10/05/2020	28.40	41.4	0.00	45	76	Sunny
11/05/2020	29.30	40.2	0.00	44	73	Sunny
12/05/2020	28.50	36.7	32.00	32	75	Sunny
13/05/2020	26.50	39.8	0.00	50	78	Sunny
14/05/2020	28.70	40.6	0.00	52	73	Sunny
15/05/2020	28.30	40.6	0.00	50	74	Sunny
16/05/2020	29.80	40.7	0.00	48	79	Sunny
17/05/2020	25.90	41.8	0.00	45	68	Sunny
18/05/2020	24.20	35.2	13.00	31	79	Sunny
19/05/2020	28.30	39.3	0.00	47	75	Sunny
20/05/2020	29.80	41.9	0.00	46	74	Sunny
21/05/2020	32.70	37.8	0.00	45	75	Sunny
22/05/2020	29.50	40.5	0.00	49	69	Sunny
23/05/2020	29.70	42.6	0.00	48	65	Sunny
24/05/2020	27.60	42.3	0.00	45	67	Sunny
25/05/2020	26.40	42.5	0.00	48	65	Sunny
26/05/2020	28.20	41.1	0.00	47	72	Sunny
27/05/2020	30.30	39.1	0.00	49	69	Sunny
28/05/2020	33.30	38.3	0.00	48	64	Sunny
29/05/2020	29.90	38.4	0.00	50	67	Sunny
30/05/2020	31.70	38.2	0.00	47	71	Sunny
31/05/2020	31.30	38.0	0.00	45	73	Sunny

- 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. Total affected length due to issues in Land acquisition is 18.35 Km out of 50.48 Km.
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	The site inspection by irrigation officials has been done and the relocation estimate to be forwarded by the PWD, Chidambaram to NHAI.
2	81+850	9.3m	To be shifted to edge of PROW	
3	81+870	1.8m	To be shifted to edge of PROW	
4	81+910	1.8m	To be shifted to edge of PROW	
5	82+010	1.8m	To be shifted to edge of PROW	
6	82+100	7.4m	To be shifted to edge of PROW	
7	103+990	5.97m	To be shifted to edge of PROW	Approval of estimate is pending with NHAI

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

Sl no	Name of the Village	Location/Chainage	Effected Length (in Km)	Remarks
1	Nandeeswaramanagalam	78+400 to 79+400	1.00	Teak Trees under Forest Dept. to be removed.
2	Cholatharam	79+730	0.25	
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 17 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	
5.	114+550	Temple	RHS	17	Type - A3	18.00	22.70	

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
	Cholatharam	80+120	30 KL	
	Pattam	110+860	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)(I) 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.

This movement of migrant labours/ staffs to their home town are continuing. The comparison statement for details of staff/workers/labours availability between before lockdown and current status as listed below for your ready reference.

Description	Available before lockdown	Available in the month of May 2020 (in Nos)																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Availability of staff/workers/labours	1027 Nos	347	347	347	347	347	347	347	347	347	347	346	346	346	346	346	346	338	337	337	337	337	337	337	336	331	329	328	314	304	304	304

10. Important Events

Table 10.1. Details of Important Events

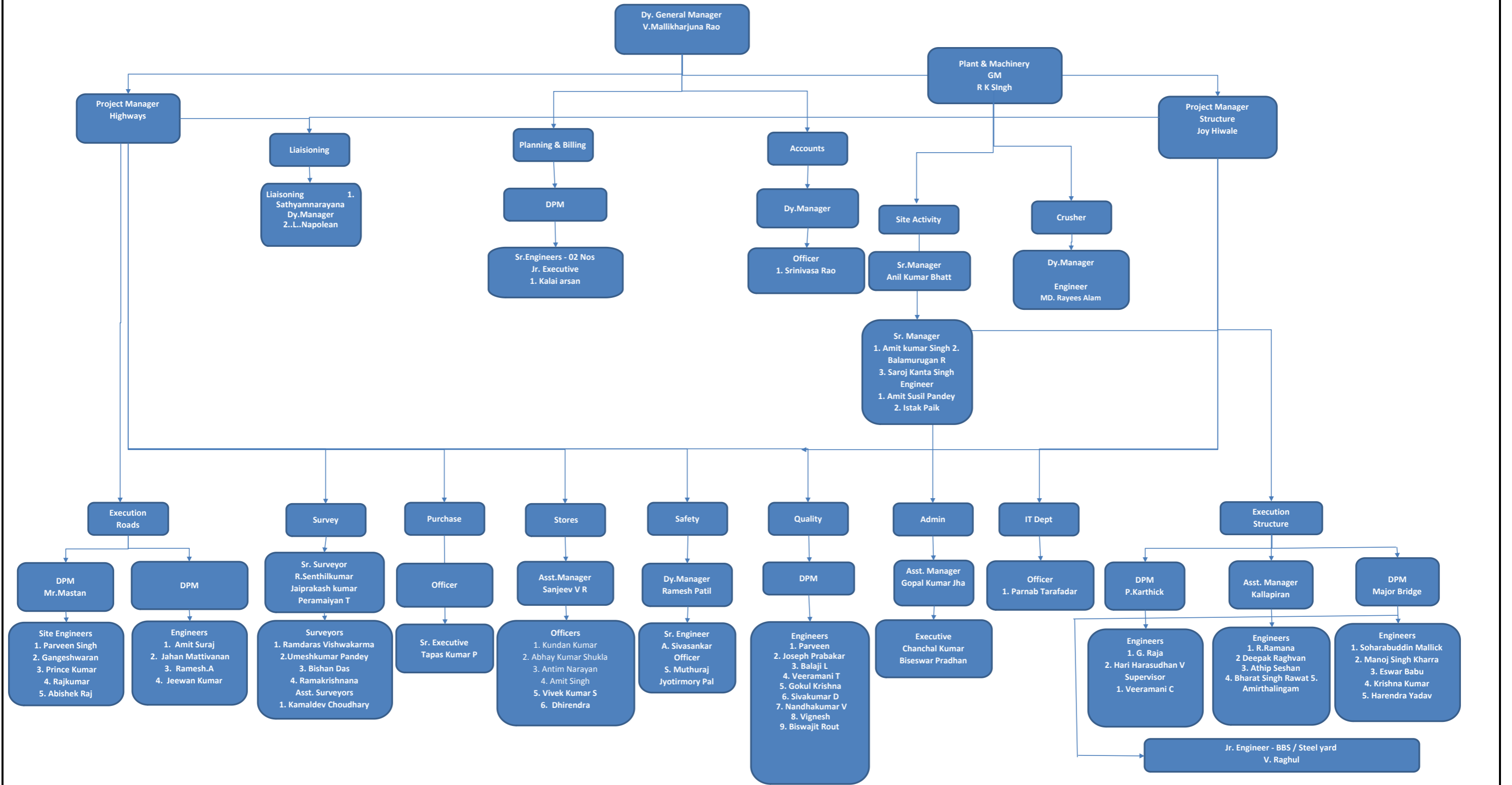
Sl. No	Date of Events	Description of Events	Remarks
1.	03-05-2020 to 31-05-2020	Lockdown due to COVID-19	
2.	25.05.2020	Project Director Site Inspection & Conducted meeting with LA officials for the removal of Hindrances	
3.	28.05.2020	Project Director Site Inspection & Conducted meeting with LA officials for the removal of Hindrances	

11. Organization Chart

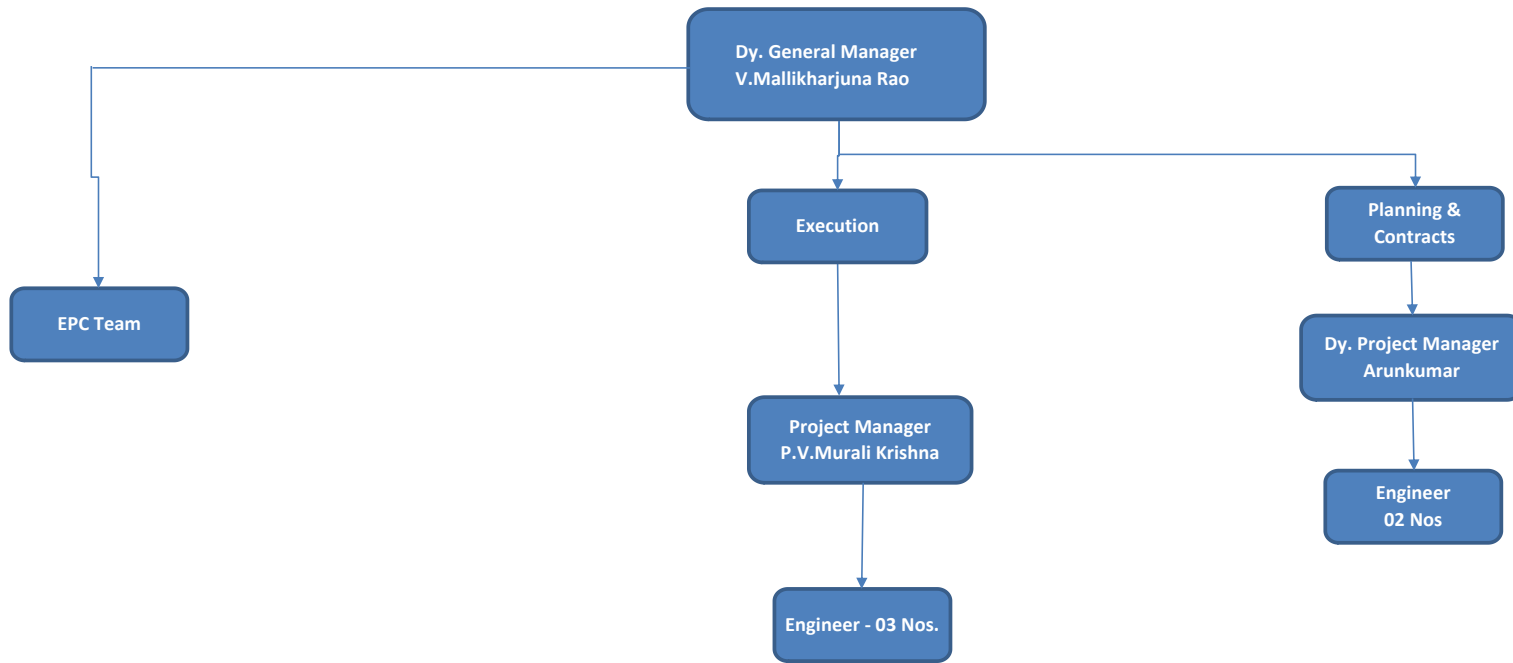
The following figures represents the organization structure of the EPC and SPV Team.

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	Strengthening/up grade the incident Management Service	10.05.2019	Required COS notice for Strengthening/upgrade the incident Management Service.	NA	NA
2	Relocation of VUP from Km. 113+550 to Km. 113+273	13.11.2018	The proposal for Shifting of VUP at Km. 113+550 had been submitted to IE/Authority through letter no. PSCHPL/HO/IE/101/2018 dated 13.11.2018.	NA	NA
3	Widening of existing Box Culvert at Km 110+ 785	25.01.2019	NHAI vide letter no. NHAI/PIU/Thanj./11019/59/20 17/913 dated 17.05.2019 advised the IE to submit the comprehensive statement in this regards.	NA	NA
4	Widening of Existing MNB at Km. 101+095	29.05.2019	The proposal for Widening of Existing MNB at Km. 101+095 had been submitted to IE/Authority through letter no. PSCHPL/HO/SCP/IE/008/2019 dated 29.05.2019.	NA	NA
5	COS proposal for 09 nos of Box culvert and 01 MNB under +ve COS and 01 nos of Box culvert under -ve COS.	07.06.2019	IE had submitted the COS proposal to Authority vide Lr.No.TES/IE/SCP/NHAI/2019/0 87 dated 07.06.2019 for 09 nos of Box culvert and 01 MNB under +ve COS and 01 nos of Box culvert under -ve COS.	NA	NA

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	02-05-2020	PSCHPL/HO/SCP/NHAI/015/2020	Regarding permission from District Administration for resumption of Work as per MHA Order dated 15.04.2020 and amendment dated 16.04.2020 for Sethiyahopu- Cholapuram HAM Project	
2	07-05-2020	PSCHPL/SCP/NHAI/2020/642	Submission of Monthly Progress Report for the month of April 2020	
3	08-05-2020	PSCHPL/SCP/NHAI/2020/643	Submission of GST Payment auditor certificate return and request to release the withheld GST amount.	
4	08-05-2020	PSCHPL/HO/SCP/NHAI/016/2020	Regarding Lock down of the Project Site due to Novel Coronavirus Disease (COVID-19) and its related effect for Sethiyahopu- Cholapuram HAM Project	
5	15-05-2020	PSCHPL/SCP/NHAI/2020/646	Land Acquired - Handing over of Possission of balance land	
6	16-05-2020	PSCHPL/HO/SCP/NHAI/017/2020	Regarding Request to release the Bank guarantee against Performance Security as per OM issued by Ministry of Finance (GOI) for Sethiyahopu- Cholapuram HAM Project	
7	16-05-2020	PSCHPL/HO/SCP/NHAI/018/2020	Regarding Extension of Time on account of Force Majeure Clause as per Office Memorandum dated 13.05.2020 issued by Ministry of Finance, Government of India	
8	19-05-2020	PSCHPL/SCP/NHAI/2020/647	Resubmission of RA Bill No 11-Shifting of Electrical Utilities like HT/LT Lines & Structures in Ariyalur Division-Pappakudi Section	
9	20-05-2020	PSCHPL/SCP/NHAI/2020/648	Request to arrange vehicle Pass for the movement of vehicles in Cuddalore District	
10	20-05-2020	PSCHPL/HO/SCP/NHAI/019/2020	Extension of Lock down period for 14 days i.e. up to 31.05.2020 ordered by Ministry of Home Affairs vide Order No. 40-3/2020-DM-I(A) dated 17.05.2020."Sethiyahopu - Cholapuram Section of NH-45C in the state of Tamilnadu" Project	
11	20-05-2020	PSCHPL/HO/SCP/NHAI/020/2020	Request to release the Bank guarantee against Performance Security as per OM issued by Ministry of Finance (GOI) for "Sethiyahopu - Cholapuram Section of NH-45C in the state of Tamilnadu	
12	20-05-2020	PSCHPL/HO/SCP/NHAI/021/2020	Regarding consent for the execution of supplementary agreement to adopt Dispute Review Board Mechanism for the early resolution of disputes.	

TABLE 14.2 - CORRESPONDANCE - NHAI TO CONCESSIONAIRE

S.No	Date	Letter No	Subject	Remarks
1	02-05-2020	NHAI/PIU/Thanj/11099/36/2020/695	Concurrence for resumption of work	
2	05-05-2020	NHAI/PIU/Thanj/11025/08/2018/699	Shifting of Electrical Utilities like HT/LT Line & Structures in Ariyalur Division-Papakudi Section	
3	30-04-2020	NHAI/PIU/Thanj/11025/11/2018/688	Land Acquired-Handing over of posession of balance land	
4	05-05-2020	NHAI/PIU/Thanjavur/11025/29/2018/722	Notice for occurrence of Non Political Event under Article 28 Clause 28.2 (a) of the Concession agreement	
5	09-05-2020	NHAI/PIU/Thanjavur/11025/29/2018/733	Regarding Lockdown of the Project site from 25.03.2020 to 03.05.2020 due to novel Corona Virus Disease (COVID-19)	
6	11-05-2020	NHAI/PIU/Thanjavur/11025/29/2018/745	Regarding lockdown of the project site for 21 days effect from 25.03.2020 due to Novel Corona Virus Disease (COVID-19)	
7	11-05-2020	NHAI/PIU/Thanjavur/11025/29/2018/746	Regarding Lockdown of the project site upto 31.03.2020 due to Novel Corona Virus Disease (COVID-19)	
8	15-05-2020	NHAI/PIU/Thanj/11025/09/2018/778	Details of Payment made for GST Reimbursement	
9	15-05-2020	NHAI/PIU/Thanj/11025/09/2018/783	Regarding Lock Down of the Project Site extended upto 17.05.2020 due to Novel Corona Virus Disease (COVID-19)	
10	16-05-2020	NHAI/PIU/Thanj/11025/11/2018/802	Request to release the Bank Guarantee against Performance Security as per OM issued by Ministry of Finance (GOI) for the above Project Highway	
11	21-05-2020	NHAI/PIU/Thanj/11019/03/2009/830	Provision to drainage the excess water in Walaja Eri – representation made	
12	29-05-2020	NHAI/PIU/Thanj/11099/05/2019/847	Information sought for under Right to Information Act ' 2005 by Sh. Anurag Pathak –Report called for	

TABLE 14.3 - CORRESPONDANCE - CONCESSIONAIRE TO INDEPENDENT ENGINEER

S.No	Date	Letter No	Subject	Remarks
1	09-05-2020	PSCHPL/SCP/IE/2020/644	Submission of detailed drawings of proposed Major and Minor Intersection of the Project	
2	20-05-2020	PSCHPL/SCP/IE/2020/649	Review of Road Furniture Drawings for the Project Highway- Compliance Report	
3	23-05-2020	PSCHPL/SCP/IE/2020/651	Releasing of Water from Mettur Dam for cultivation in Delta Regions	
4	25-05-2020	PSCHPL/SCP/IE/2020/652	Location of providing median opening- Request Joint inspection	

TABLE 14.4 - CORRESPONDANCE - INDEPENDENT ENGINEER TO CONCESSIONAIRE / NHAI

S.No	Date	Letter No	Subject	Remarks
1	16-05-2020	TES/IE/SCP/NHAI/2020/140	Vehicle Pass Requested	
2	11-05-2020	TES/IE/SCP/NHAI/2020/141	Shifting of Electrical Utility RA Bill No-11	
3	16-05-2020	TES/IE/SCP/NHAI/2020/144	Shifting of Electrical Utility Papakudi Section RA-Bill.No. 11	
4	18-05-2020	TES/IE/SCP/NHAI/2020/145	Inspection Report for the month of march 2020	
5	19-05-2020	TES/IE/SCP/PIL/2020/456	Instruction of Raising RFI for Inspection	
6	20-05-2020	TES/IE/SCP/PIL/2020/457	Observations on the proposed major and minor intersection drawing	
7	20-05-2020	TES/IE/SCP/NHAI/2020/146	Provision of underpass for veermudiyatham village and anaiwari village-Inspection report	
8	21-05-2020	TES/IE/SCP/PIL/2020/458	Submission of drawings of the Major Bridge at design Ch. 73+317	
9	21-05-2020	TES/IE/SCP/NHAI/2020/147	Reply Comments Regarding Lock Down of the Project site due to Novel Corona Virus Disease	
10	22-05-2020	TES/IE/SCP/PIL/2020/458	Weep Holes and rusted steel reinforcement at minor bridge (km 112+815)	
11	27-05-2020	TES/IE/SCP/NHAI/2020/148	Transfer of funds for making payment as compensation for omitted structures in Veeramudiyatham village of formerly Chidambaram Now Bhuvanagiri taluk in cuddalore district- proposals sent – Sanction requested	
12	27-05-2020	TES/IE/SCP/PIL/2020/460	Topography of Toll Plaza at Ch 92+800	
13	29-05-2020	TES/IE/SCP/NHAI/2020/148	Structure Exit in Govt Poramboke lands-Inspection Report	
14	29-05-2020	TES/IE/SCP/NHAI/2020/149	Encroachment I Vanamadevi Village of kattumannarkoil Taluk in Cuddalre District Inspection report	
15	29-05-2020	TES/IE/SCP/NHAI/2020/151	Pinnalur Village – Provision to Drainage the excess water in walaja Eri - Representation made – Inspection report	

15. Progress Photographs

Sl.No	Description	Location	Side	Remarks
1	Subgrade Top	67+460 to 67+600	LHS	
				

Sl.No	Description	Location	Side	Remarks
2	Subgrade Top	67+460 to 67+820	RHS	
				

Sl.No	Description	Location	Side	Remarks
3	Embankment In Progress	66+800 to 67+100	BHS	




Sl.No	Description	Location	Side	Remarks
4	Embankment In Progress	70+260 to 70+500	BHS	



Sl.No	Description	Location	Side	Remarks
5	Pile Work In Progress	73+340 MJB	BHS	



Sl.No	Description	Location	Side	Remarks
6	Pile Work In Progress	73+340 MJB	BHS	



Sl.No	Description	Location	Side	Remarks
7	Subgrade Top In Progress	92+360 TO 92+500	RHS	



Sl.No	Description	Location	Side	Remarks
8	Subgrade Top In Progress	92+560 to 92+800	RHS	



Sl.No	Description	Location	Side	Remarks
9	Embankment Top in Progress	93+100 to 93+300	LHS	



Sl.No	Description	Location	Side	Remarks
10	DBM Completed	95+860 to 96+500	LHS	



Sl.No	Description	Location	Side	Remarks
11	Subgrade Top in Progress	96+220 to 96+500	LHS	



Sl.No	Description	Location	Side	Remarks
12	Subgrade Top In Progress	95+940 to 96+150	RHS	



Sl.No	Description	Location	Side	Remarks
13	Embankment in progress	97+080 to 97+160	LHS	



Sl.No	Description	Location	Side	Remarks
14	Slip Road In Progress	97+400 to 97+530	LHS	



Sl.No	Description	Location	Side	Remarks
15	C&G Completed	103+300 to 103+720	LHS	



Sl.No	Description	Location	Remarks
16	RE Wall Excavation	104+587 to 104+880	
			


Sl.No	Description	Location	Remarks
17	RE Wall Work in Progress	106+320	




Sl.No	Description	Location	Remarks
18	Subgrade Top	105+020 to 105+200	
			

Sl.No	Description	Location	Remarks
19	Subgrade Top	105+240 to 105+530	
			

Sl.No	Description	Location	Side	Remarks
20	Pier Cap In progress	107+400 MJB	BHS	



Sl.No	Description	Location	Side	Remarks
21	Pile Cap In Progress	107+400 MJB	BHS	



Sl.No	Description	Location	Side	Remarks
22	Embankment Top In Progress	111+580 to 112+200	BHS	



Sl.No	Description	Location	Side	Remarks
23	Embankment In progress	112+200 to 112+420	LHS	



Sl.No	Description	Location	Side	Remarks
24	Embankment In Progress	114+540 to 114+620	LHS	



Sl.No	Description	Location	Side	Remarks
25	EMB Layers In Progress	113+100 to 113+230	RHS	

