



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

PATEL SETHIYAHOPU - CHOLOPURAM HIGHWAY PRIVATE LIMITED

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 Hybrid Annuity Mode.

INDEPENDENT ENGINEER
M/s. Theme Engineering Services Pvt. Ltd

MONTHLY PROGRESS REPORT MAY 2019

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.....	51
2.3. Shifting of Utilities and Electrical HT/LT Lines	51
2.4. Tree felling.....	52
3. Progress Briefing – Contractor Activities	53
3.1. Pre-Construction Activities	53
4. Physical Progress of Work	54
4.1 Physical Progress of Work	54
5. Financial & Physical Progress of Work	84
6. Quality Control and Quality Assurance	87
6.1 List of Lab Equipment’s	87
6.2 Quality Control Test Summary	92
7. Weather Report.....	98
8. Safety	99
9. Support required from NHAI	100
10. Important Events.....	103
11. Organization Chart.....	104
12. List of Plants, Machinery and Equipments.....	107
13 Change of Scope Proposals	108
14 Details of Correspondences	109
15 Progress Photographs.....	110

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 2.1-6: Hindrance Photographs	18
Table 2.2-1: Status of Removal of Religious structures	51
Table 2.3-1: Status of sanction of Estimates-Relocation of RWS Pipe Line	51
Table 2.3-2: Status of sanction of Estimates- Electrical Lines Relocation	51
Table 2.3-3: Status of Utility Relocation	52
Table 2.4-1: Status of Tree Cutting	52
Table 3.1-1: Status of Design and Drawings - Highway	53
Table 3.1-2: Status of Design and Drawings - Structures	53
Table 4.1 : Strip Chart for Highway Works	58
Table 4.2 - 1 : Strip Chart for status of Box Culverts on Existing Road	72
Table 4.2 - 2 : Strip Chart for status of Box Culverts on Bypass	75
Table 4.2 - 3 : Strip Chart for status of MNB - Box	78
Table 4.2 - 4 : Strip Chart for status of LVUP	79
Table 4.2 - 5 : Strip Chart for status of MNB (> 15m Span)	77
Table 4.2 - 6 : Strip Chart for status of MJB	81
Table 4.2 - 7 : Strip Chart for status of FLYOVER	80
Table 4.2 - 8 : Strip Chart for status of VUP	83
Table 6.1 - 1 QA/QC Lab Equipment at Annaikarai Lab	87
Table 6.1 - 2 QA/QC Lab Equipment at Meensurity Lab	88
Table 6.2-1: Summary of Quality Control Tests	92
Table 10.1 : Details of Important Events	103
Table 12.1 - List of Plants, Machinery and Equipment's	107
Table 13.1 - Status of Change of Scope Proposals	108
Table 14.1. - Concessionaire to NHAI	109
Table 14.2. - NHAI to Concessionaire	110
Table 14.3. - Concessionaire to Independent Engineer	111
Table 14.4. - Independent Engineer to Concessionaire	112

List of Figures

Figure 1 : Project Location Map	05
Figure 2 : Project Alignment Map	06
Figure 3a : Financial Progress - Planned vs Achieved	85
Figure 3b : Physical Progress - Planned vs Achieved	86
Figure 4 : Organization Chart - EPC Team	106
Figure 5 : Organization Chart - SPV Team	105

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.

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

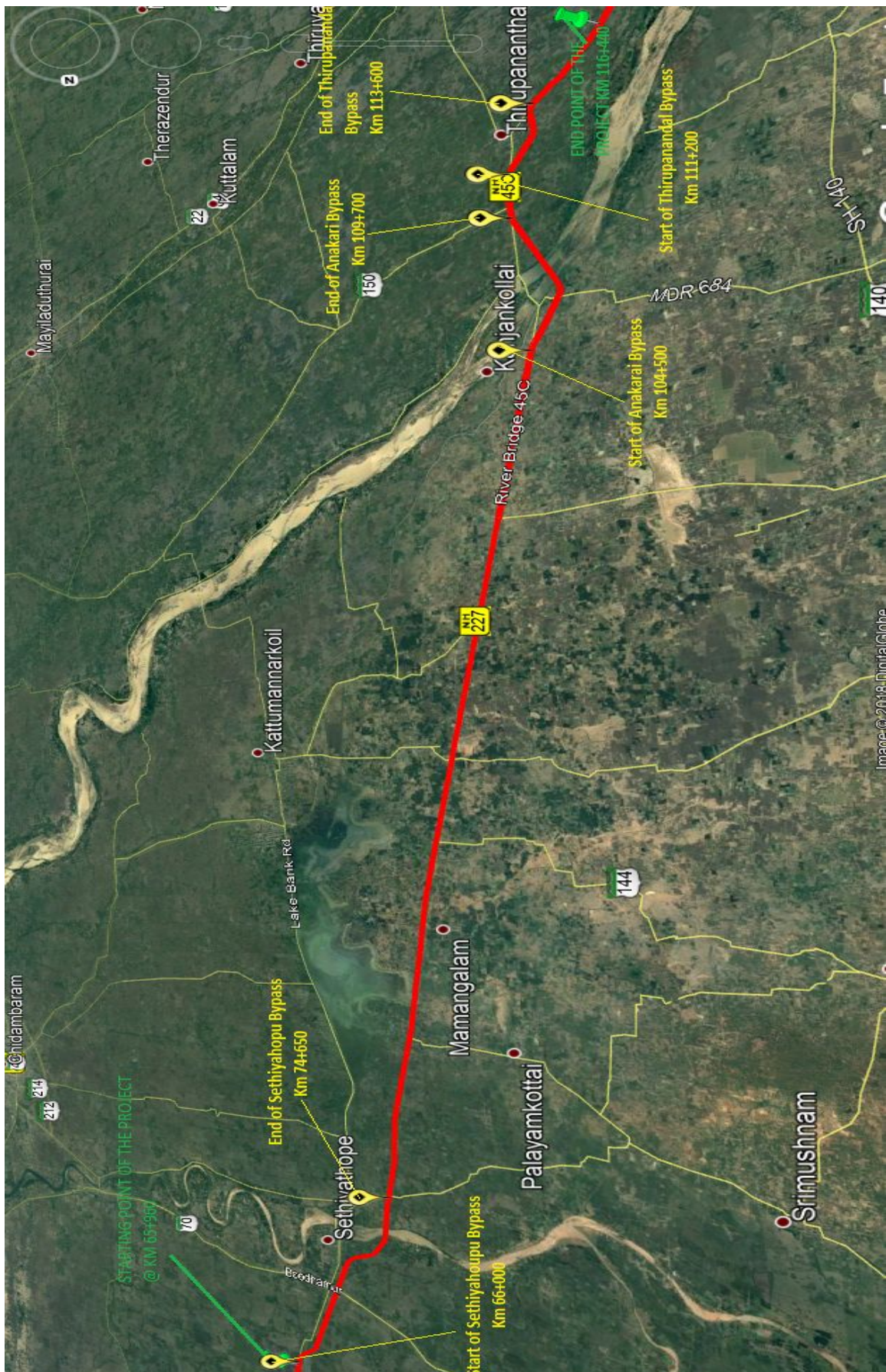
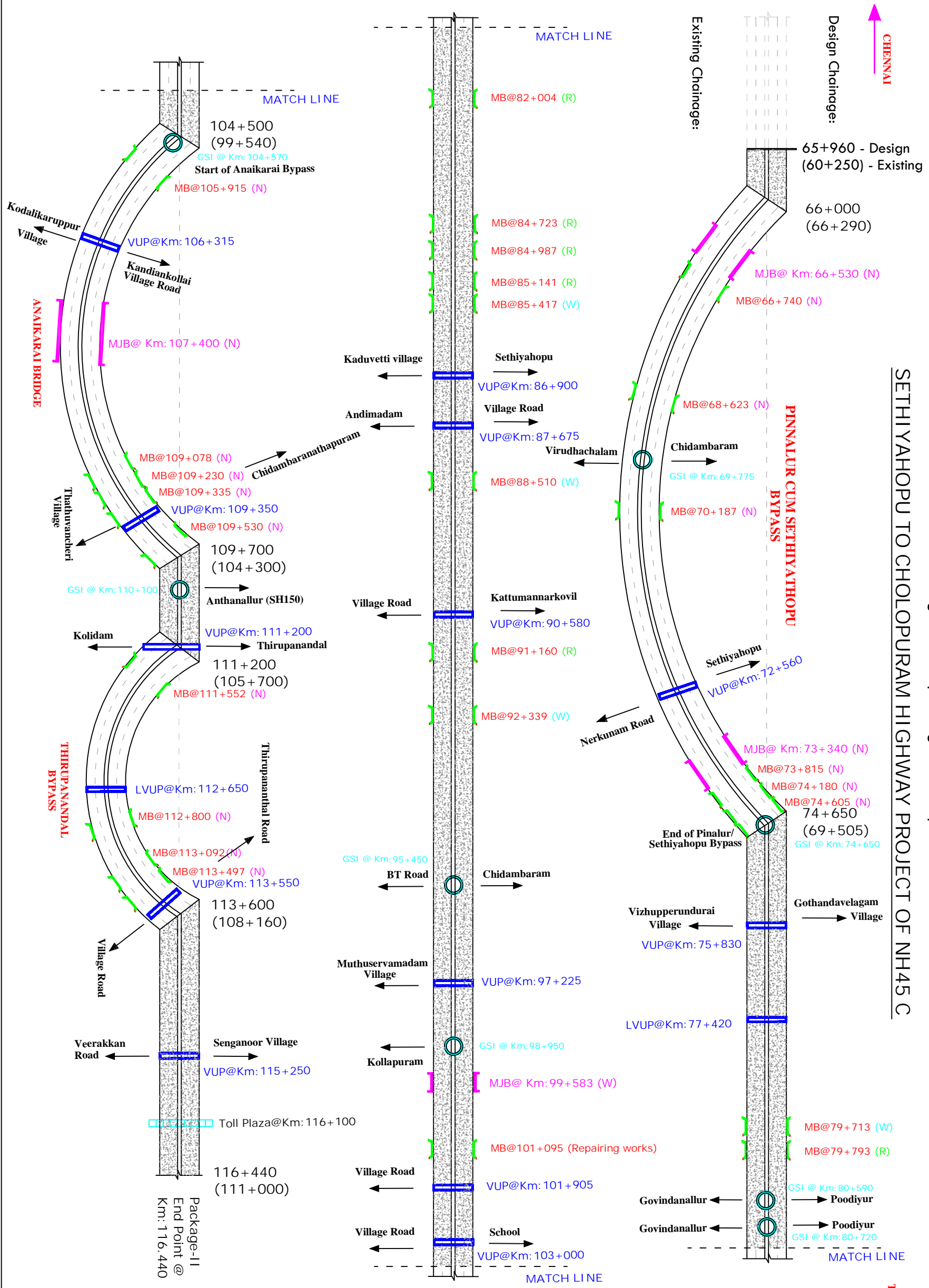


Figure 2: Project Alignment Map

SETHIYAHOPU TO CHOLOPURAM HIGHWAY PROJECT OF NH45 C



LEGENT:

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

Salient Features of Project:

Drawing Title

Date: 31-08-2018

Project No.: PSC/HP/NHAI/TN/001

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

Sl No	Description	Unit	Scope
1	Box Culvert	Nos	07
2	Minor Bridge	Nos	25
3	Major Bridge	Nos	04
4	VUP/LVUP	Nos	15
5	Grade Separated Structure	Nos	08
6	Toll Plaza	Nos	01

Sl No	Description	Unit	Scope
1	Minor Intersection	Nos	100
2	Major Intersection	Nos	07
3	Bus Bays and Shelters	Nos	09

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

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

Thirupannandal Bypass
Km: 111+200 to 113+600

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

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

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

Anaikarai Bypass
Km: 104+500 to 109+700

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

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

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

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

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

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

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.	LA pending	Km	7.620	
2.	Payment Pending	Km	9.775	
3.	Existing Buildings	Km	4.575	
4.	Temple & Bus stand	Km	0.105	
5.	Electrical Lines	Km	3.83	
6.	Rural Water Supply lines	Km	20.01	
7.	NOC Irrigation Dept.	Km	1.965	
8.	Paddy/Cotton fields	Km	0	
9.	Trees	Km	0.736	
10.	Net Hindered Length (both Side)	Km	43.70	
C)	Total Project Length (both Side)	Km	100.96	
D)	% Hindered Length	%	43.28%	

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: -

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	546	164	
2	Ariyalur	355	261	94	
3	Thanjavur	102	89	13	
	Total in Nos.	1167	896	271	
		Total in %	76.77%	23.23%	

Sl No.	Name of the District	Total No. of structures	Amount paid (in Nos.)	Balance to be Paid (in Nos.)	Remarks
1	Cuddalore	383	317	66	
2	Ariyalur	359	312	47	
3	Thanjavur	153	73	80	
	Total in Nos.	895	702	193	
		Total in %	78.43	21.57%	

The details of chainages under hindrance due to such balance compensation issues to their land owners, structure payment issues, standing crops, water pipe lines etc. are as below -

Sr. No.	From	To	Length	Effective Hindered Length	Side	Remarks
1	066+100	066+260	160	320	BHS	Veeranam Pipe Line
2	066+700	067+300	600	1200	BHS	Giri Land
3	068+550	068+620	70	140	BHS	Compensation Disbursement balance - Not allowed to work by owner
4	072+450	072+600	150	300	BHS	Compensation Disbursement balance - Not allowed to work by owner
5	072+600	072+700	100	100	RHS	Compensation Disbursement balance - Not allowed to work by owner
6	072+800	073+100	300	400	BHS	Compensation Disbursement balance - Not allowed to work by owner
7	073+700	073+800	100	100	RHS	Compensation Disbursement balance - Not allowed to work by owner
8	073+900	074+200	300	600	BHS	Compensation Disbursement balance - Not allowed to work by owner
9	074+570		10	20	BHS	Structure - Payment pending
10	075+500	076+150	650	1300	BHS	Compensation Disbursement balance - Not allowed to work by owner
11	077+200	077+600	400	800	BHS	Village Limit - Ribbon Development - Compensation Disbursement balance - Not allowed to work owner

12	078+600	078+700	100	100	RHS	Village Limit - Ribbon Development - Compensation Disbursement balance - Not allowed to work owner
13	080+100	081+150	1050	2100	BHS	Village Limit - Ribbon Development - Compensation Disbursement balance - Not allowed to work owner
14	083+400	084+200	800	1600	BHS	Compensation Disbursement balance - Not allowed to work by owner
15	085+500	086+500	1000	2000	BHS	Compensation Disbursement balance - Not allowed to work by owner
	086+900	087+000	100	200	BHS	
	087+500	088+200	700	1400	BHS	
16	089+400	091+000	1600	3200	BHS	Compensation Disbursement balance - Not allowed to work by owner
17	091+700	091+850	150	300	BHS	Compensation Disbursement balance - Not allowed to work by owner
18	092+750	094+100	1350	2700	BHS	Compensation Disbursement balance - Not allowed to work by owner
19	095+050	095+900	850	1700	BHS	Village Limit - Ribbon Development - Compensation Disbursement balance - Not allowed to work owner
20	097+900	098+750	850	1700	BHS	Village Limit - Ribbon Development - Compensation Disbursement balance - Not allowed to work owner
21	098+500	099+400	900	1800	BHS	Village Limit - Ribbon Development - Compensation Disbursement balance - Not allowed to work owner
22	099+400	099+900	500	1000	BHS	Compensation Disbursement balance - Not allowed to work by owner
23	099+400	099+900	500	1000	BHS	Compensation Disbursement balance - Not allowed to work by owner
24	100+300	101+600	1300	2600	BHS	Compensation Disbursement balance - Not allowed to work by owner
25	101+600	102+230	630	1260	BHS	Village Limit - Ribbon Development - Compensation Disbursement balance - Not allowed to work owner
28	102+230	102+700	470	940	BHS	Village Limit - Ribbon Development - Compensation Disbursement balance - Not allowed to work owner
29	102+700	103+320	620	1240	BHS	Compensation Disbursement balance - Not allowed to work by owner
30	103+320	104+200	880	1760	BHS	Compensation Disbursement balance - Not allowed to work by owner
31	104+200	104+500	300	600	BHS	Compensation Disbursement balance - Not allowed to work by owner
32	109+500	109+700	200	200	LHS	Compensation Disbursement balance - Not allowed to work by owner
33	110+400	110+850	450	900	BHS	Compensation Disbursement balance - Not allowed to work by owner
34	110+900	111+050	150	300	BHS	Compensation Disbursement balance - Not allowed to work by owner
35	113+250	113+450	200	400	BHS	Temple Land, Local not allowing to Work

36	113+550	113+990	440	880	BHS	Village Limit – Ribbon Development - Compensation, Disbursement balance - Not allowed to work owner
37	114+400	114+650	250	500	BHS	Village Limit – Ribbon Development - Compensation, Disbursement balance - Not allowed to work owner
38	115+700	116+440	740	1480	BHS	Toll Plaza Area - LA under Progress

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		
	10	Trees (2 Nos)	66+400					
			67+400		Motor Room	25		
			67+850		Motor Room	50		
			67+850		Bore Well	20		
			68+600		Motor Room	50		
			68+600		Sluice Gate (2 Nos)	40		
		Well & Trees	68+850					
		Huts (3 Nos) & Building	69+720	69+750				
		Bore Well & Water Tank	69+750					
			69+750		Tin Shed			
	250	EB Poles (10 Nos)	69+800	69+950				
		Building	69+800					
		Flag Post Pedestal	69+850					

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	25	Well, Coconut Farm	70+000					
	150	HT Line Crossing	70+030	70+200				
		Pump Set & Coconut Farm	70+150					
		Pump Set & Coconut Farm	70+200					
		Fish Farm	70+650					
			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			
	10	Hand Pump	72+550		Hand Pump			

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	50	Pump Set & Trees	72+700					
			72+850		Pump Set, Bore Well & Trees			
			72+900		Bore & Pump Set			
		Bore & Pump Set	72+950					
			73+400		HT Line Tower	20		
			73+450		Bore Well, Pump Set & Tree EB Pole	50		
	150	Kumarakudi Village	74+500	74+650	Kumarakudi Village	150		
			74+500		Bore Well			
		Telephone Poles	74+710	74+850	Telephone Poles			2 - Telephone Pole
		Temple, Hand Pump,	74+710					
	300	Eb Poles	74+850	75+200	EB Poles	300		8 Nos
			74+900		Marriage Hall			
		Trees	75+200	75+700	Trees			140 Nos















Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
		Hut	75+210					
			75+260		Bore Well & Water Tank			
		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			
			75+660		Water Tap			
		Building	75+680					
			75+700		OFC			
		Bore Well & Water Tank	75+700					


















Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
		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					
		Trees & EB Poles	76 + 300	76 + 800	Trees & EB Poles	450		
		Trees & EB Poles	76 + 300	76 + 800				
		Bus Shelter	76 + 410					
			76 + 410		Flag Pole			
			76 + 600		Temple			











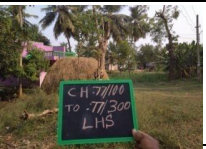





Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
			76+695		OFC & Compound Wall			
		EB Poles	76+800	77+300	EB Poles			
			76+800	77+300	Telephone Pole			3 nos
			76+850		OFC			
			76+940		Bore & Water Tank			
		Buildings	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		

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
		Trees, EB Poles	77+300	77+600	Trees, EB Poles			
		Flag Pole	77+390	77+420				4 Nos
		Hand Pump	77+505					
		Telephone Pole	77+390	77+510				3 Nos
		Hand Pump	77+590					
			77+700		OFC			
		Building	77+730					
			77+760		Water Tank & Motor Room			
		EB Pole	77+900	78+400	EB Pole			10 Nos
		Water Tap	77+975					
			78+120		OFC			
			78+390		EB Pole, Bore Well			
		OFC	78+400					

















Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	450		78+400	79+000	EB Pole, Trees	450		340 Trees, 16 Poles
			78+680		OFC			
			78+725		Transformer			
		Huts	78+670	78+760				
			78+860		OFC			
	400	Trees & EB Poles	79+000	79+500	Trees & EB Poles	400		
			79+080		OFC			
		Hand Pump	79+105					
		Existing Culvert	79+110					
			79+220		Flag Pole			
		Water Tank & Motor Room	79+240					
			79+260		OFC			
			79+520		Transformer			

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					
	400		80+500	81+000	EB Poles, Telephone Poles, Trees, Water Tap	400		
		Flag Poles	80+530	80+570	Flag Poles			6nos
			80+710		Existing Culvert			
		Bore Well	80+740					


















Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
			80+900		OFC			
	400	Tree, EB Poles	81+000	81+500	Tree, EB Poles	400		
			81+125		OFC			
			81+325	81+360	Existing Culvert & Compound Wall			
		Pond	81+360	81+460				
		OFC & Temple	81+445					
	450	EB Pole & Tress	81+500	82+000	EB Pole & Tress	450		
			81+585		OFC			
		Transformer	81+715					
		Sluice Gate	82+020		Sluice Gate			5 Nos
			82+510		OFC			
			82+595		OFC			
			82+875		Existing Culvert			










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

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
			83+890		Flag Poles			4 nos
			83+935		Water Tank			
			83+995		Hand Pump			
	450	Water Tap, Telephone Pole & Buildings	84+000	84+500	Water Tap, Telephone Pole & Buildings	450		Tap - 2, Tree - 185
		Temple & Well	84+070					
		Flag Pole, Telephone Pole	84+110					
			84+110		OFC & Flag Pole			
			84+280		Transformer			
		Transformer	84+480					
			84+500	84+560	Huts			
			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				
	400		85 + 000	85 + 500	EB Pole, Trees	400		Poles - 23 & Tree 200
		Hut	85 + 045					
			85 + 060		EB, Transformer			
			85 + 090		OFC			
	300		85 + 500	86 + 000	Water Tap	300		Tap - 3
			85 + 770		OFC			
		Transformer	85 + 865					
		Building	85 + 910					
		Hut	85 + 930					
			85 + 955		Temple			
			85 + 990		OFC			
	500		86 + 000	86 + 700	EB Pole, Tree, Water Tap, T Poles	500		EB Pole - 20, Tree - 275, Tap - 36, T Pole - 5

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
			86+280		Temple			
			86+350		Bore Well			
		Temple	86+390					
			86+500		OFC			
			86+585		Motor Room			
		Buildings	86+000	86+700	Buildings			
	700	Building & Huts	86+700	87+500	Building & Huts	700		
			86+700	87+500	EB Pole, Tree, Water Tap, T Poles			EB - 38, Tree - 392, Tap - 30, T Pole - 2
			86+720		Flag Pole			
			86+830		OFC, Transformer			
		Transformer	86+915					
			86+985		OFC			
		Existing Culvert	87+080					

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
			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			
			87+735		Flag Pole			
			87+810		Transformer & OFC			
			87+835		Water Tank			
			87+990		OFC			








Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	450	EB Pole, Tree, Tap, Telephone Pole	88+000	88+500	EB Pole, Tree, Tap, Telephone Pole	450		EB - 16, Tree - 145 Water Tap - 15
		Buildings	88+000	88+500	Huts			
			88+190		OFC			
			88+225		Transformer			
	450	EB Pole, Tree, Tap	88+500	89+000	EB Pole, Tree, Tap	450		EB -11. Tap - 2, Tree - 110
		House	88+500	89+000	House			
			88+580		OFC			
			88+590	88+710	Compound Wall			
			88+780		OFC			
			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					












Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
			89+210		Transformer			
			89+240		OFC			
			89+350		Water Tank With Bore Well			
			89+355		Temple			
	450	water Tap, Telephone Pole	89+500	90+000	water Tap, Telephone Pole	450		Tap - 18, T Pole - 3
		Water Tank	89+515					
		Flag Pole	89+590					
		Motor Room	89+690					
			89+710		OFC			
			89+805		Well			
			89+910		OFC			
	400	EB Pole, Water Tap, House	90+000	90+500	EB Pole, Water Tap, House	400		EB - 34, Tap - 4
		Pond	90+000	90+060				






Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
			90+090	90+180	Compound Wall			
			90+180		Transformer			
			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			
		Water Tank	90+630					
			90+830	90+860	Pond			
			90+955		OFC			
	450	EB Pole	91+000	91+500	EB Pole	450		EB - 34
















Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
			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			
		Pond	91+780	91+860				
			91+840		OFC			
			91+955		OFC			
	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
			92+080		OFC			
		Temple	92+135					
			92+265		OFC			















Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
		Pond	92+270	92+330				
			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			
			93+360		OFC			

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
			93+660		OFC			
			93+800		OFC			
			93+930		Hand Pump			
			93+975		OFC			
	400	Tree, EB Poles, T. Pole, Water Tap, House	94+000	94+500	Tree, EB Poles, T. Pole, Water Tap, House	400		Tree - 220, EB - 25, T Pole - 5, Tap - 7
			94+130		OFC			
		OFC	94+170					
			94+385		OFC			
		TEMPLE	94+440					
	400		94+500	95+000	Tree, EB Pole, T. Pole	400		Tree - 146, EB - 23, T Pole - 4, Tap - 6
			94+530		OFC			
		OFC	94+555					
			94+780		OFC, Transformer			

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
		Pond, Pipe Line	94+830	94+900				
			94+935		OFC			
	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			
		Flag Pole & Stage	95+415					
			95+435		Street Light			
	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			
		OFC	95+850					
		Pond	95+950					



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	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,
			96+710		OFC			
			96+965		OFC			
			97+080		OFC			
			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					


Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
			97+600		OFC			
			97+680		Motor Room With Bore			
		Transformer	97+700					
		OFC	97+770					
			97+880		OFC			
		OFC	97+965					
	350	EB Pole, Tape, Telephone Pole	98+000	98+500	EB Pole, Tape, Telephone Pole	350		EB - 9, T Pole - 2
		OFC	98+280					
	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			
			98+710		Temple			
		Water Tank with Bore	98+735					

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
		OFC	98+825					
		Street Light	98+920					
		Flag Pole	98+940					
		OFC	98+950					
	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
		Transformer	100+150					





Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
			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					
			102+520		Flag Pole			














Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
		OFC	102+575					
		OFC	102+730					
		Transformer	102+930					
		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+130					
		OFC	103+320					
		OFC	103+400					
		OFC	103+425					
		OFC	103+530					
			103+590		Temple			

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

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













Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
		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
			113+670	113+720	Sub Station			
			113+700		HT Line Crossing			
			114+060		Flag Pole			


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

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

SI No.	Name of the District	Total No. Of structures	Removed as on Date (in Nos.)	Balance (in Nos.)
1	Cuddalore	10	1	9
2	Ariyalur	10	1	9
3	Thanjavur	2	1	1
	Total in Nos.	22	3	19

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 paid.
2	Ariyalur	86+440	106+860	20.42	5	Estimate Approved	Supervision Charges paid.
3	Thanjavur	106+860	116+440	9.58	5	Estimate Approved	Supervision Charges paid for 4 Nos

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	10.090	62.605	Work in progress
2	BDO of Concern Union	Hand Pump/Pump Room with Bore well	Nos.	24	10	14	
3	BDO of Concern Union	Over Head Tank	Nos.	15	8 Nos Completed	7	
4	TNEB	Electrical Lines	Kms.	6.83	3.0	3.83	

2.4. Tree felling

Table 2.4-1: Status of Tree felling

Sl.No.	Name of the District	Chainages			Effectuated Length in Kms.	Completed as on Date	Balance as on Date	Balance no. of Trees	Remarks
		From	To	Length in Km					
1	Cuddalore	65+960	86+440	20.48	6.535	6.289	0.246	26	Work in Progress
2	Ariyalur	86+440	106+860	20.42	8.385	8.215	0.170	54	
3	Thanjavur	106+860	116+440	9.58	2.515	2.195	0.320	50	
Total				50.48	17.435	16.699	0.736	130	

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	50.480	50.48	50.48
2	Plan & Profile	Km	50.480	50.48	48.48
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	26.169

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	1
2	Minor Bridges	No	25	25	22
3	Grade Separated Intersection	No	08	08	8
4	VUP/LVUP	No	15	15	12
5	Box /Slab Culvert	No	60	60	53

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 2019 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	28.66	0.54	29.20	0	18.08	61.76%
	RHS	47.28	26.26	1.09	27.35	0	19.93	57.85%
2	Embankment							
	LHS	47.28	2.55	2.36	4.91	12.10	42.37	10.38%
	RHS	47.28	1.81	0.33	2.14	13.97	45.14	4.53%
3	Sub grade							
	LHS	47.28	0	3.40	3.40	1.85	43.88	7.19%
	RHS	47.28	0	0.60	0.60	0.60	46.68	1.27%
4	GSB/ Cement Treated Base							
	LHS	47.28	0	0	0	0	47.28	0.00%
	RHS	47.28	0	0	0	0	47.28	0.00%
5	Wet Mix Macadam							
	LHS	47.28	0	0	0	0	47.28	0.00%
	RHS	47.28	0	0	0	0	47.28	0.00%
6	Dense Bitumen Macadam							
	LHS	47.28	0	0	0	0	47.28	0.00%
	RHS	47.28	0	0	0	0	47.28	0.00%
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	0	0	0	0.29	53.19	0.00%
2	Sub grade	53.19	0	0	0	0	53.19	0.00%
3	GSB/ Cement Treated Base	53.19	0	0	0	0	53.19	0.00%
4	Wet Mix Macadam	53.19	0	0	0	0	53.19	0.00%
5	Dense Bitumen Macadam	53.19	0	0	0	0	53.19	0.00%
6	Bituminous Concrete	53.19	0	0	0	0	53.19	0.00%

Structure Work					
Sr. No.	Type of Structure	Total No. of Structures	Nos. of Structures		
			Completed	In Progress	Balance to be taken up
1	Culvert	60	5.5	20.5	34
2	Light Vehicular Underpass	2	0	1	1
3	Vehicular Underpass	13	0	9	4
4	Minor Bridges	25	2	16	7
5	Major Bridge	4	0	2	2
6	Flyover	8	0	5	3

The Physical Progress of the Project up to May 2019 as per Approved Schedule G is as follows:-

Item	Stage for Payment	Unit	Qty.	Weightage in percentage to Contract Price	EPC Cost	Completed up to 31.05.2019	% Physical Progress
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%	1,259,149,811	4.00	0.569%
	(2) Granular work (sub-base, base, shoulders)	Km					
	(a) GSB/ Cement Treated Base	Km	65.52	2.873%	380,125,589		
	(b) WMM/ Cement Treated Base	Km	65.52	3.546%	469,110,512		
	(3) Shoulders	Km	17.65	0.112%	14,871,740		
	(4) Bituminous work	Km					
	(a) DBM	Km	65.52	5.370%	710,391,656		
	(b) BC	Km	65.52	1.998%	264,329,795		
	(5) Rigid Pavement						
	(6) Widening and repair of culverts	Nos.	16	0.440%	58,232,176	0.25	0.007%
	(7) Widening and repair of minor bridges	Nos.	4	0.959%	126,889,505		
	B- New realignment/bypass						
	(1) Earthwork up to top of the sub-grade	Km	28.68	7.437%	983,900,859		
	(2) Granular work (sub-base, base, shoulders)						
	(a) GSB/ Cement Treated Base	Km	28.68	1.615%	213,638,057		
(b) WMM/ Cement Treated Base	Km	28.68	1.436%	189,985,659			
(3) Shoulders	Km	24.63	0.112%	14,871,740			
(4) Bituminous work							

(a) DBM	Km	28.68	1.656%	219,132,172		
(b) BC	Km	28.68	0.781%	103,340,561		
(5) Rigid Pavement						
C- New culverts, minor bridges, underpasses, overpasses on existing road, realignments, bypasses:						
(1) Culverts	Nos.	44	1.570%	207,725,198	5.5	0.196%
(2) Minor bridges						
(a) Foundation	Nos.	58	1.453%	192,185,204	21	0.526%
(b) Substructure	Nos.	134	2.423%	320,544,497	34	0.615%
(c) Superstructure (including crash barrier etc. complete)	Nos.	50	1.559%	206,310,836	10.5	0.327%
(3) Cattle/Pedestrian underpasses						
(a) Foundation	Nos.		0.000%			
(b) Substructure	Nos.		0.000%			
(c) Superstructure (including crash barrier etc. complete)	Nos.		0.000%			
(4) Pedestrian overpasses						
(a) Foundation	Nos.		0.000%			
(b) Substructure	Nos.		0.000%			
(c) Superstructure (including crash barrier etc. complete)	Nos.		0.000%			
(5) Grade separated structures						
(a) Underpass (13 VUP, 2 LVUP)						
(i) Foundation	Nos.	56	1.274%	168,578,361	13	0.296%
(ii) Substructure	Nos.	60	0.751%	99,383,595	3	0.038%
(iii) Superstructure (including crash barrier etc. complete)	Nos.	30	1.589%	210,173,790		
(b) Overpass						
(i) Foundation			0.000%			
(ii) Substructure			0.000%			
(iii) Superstructure (including crash barrier etc. complete)			0.000%			
(c) Flyover						
(i) Foundation	Nos.	36	0.926%	122,463,747	11	0.283%
(ii) Substructure	Nos.	36	0.470%	62,236,342		
(iii) Superstructure (including crash barrier etc. complete)	Nos.	20	1.744%	230,794,019		
(d) Foot over Bridge						
A- Widening and repairs of Major Bridges						
(1) Foundation			0.000%			
(a) Open Foundation			0.000%			
(b) Pile Foundation/ Well Foundation			0.000%			
(2) Sub-structure			0.000%			
(3) Super-structure (including crash barriers etc. complete)			0.000%			
C- New Major Bridges						
(1) Foundation			0.000%			

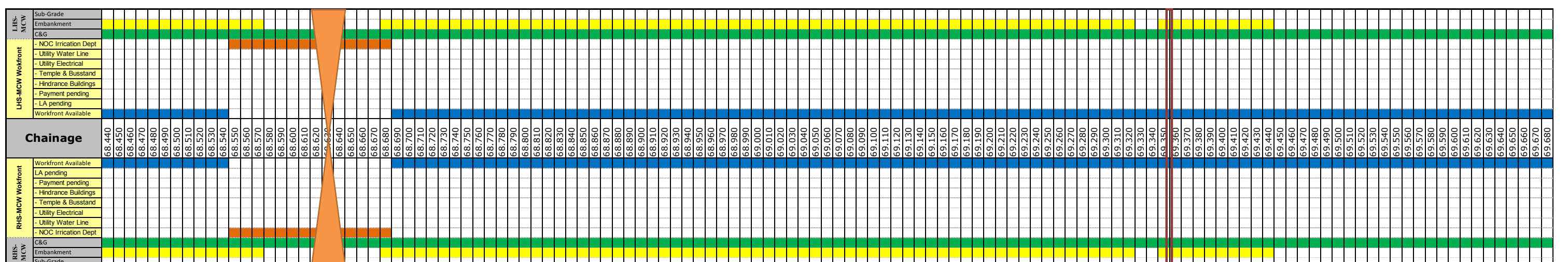
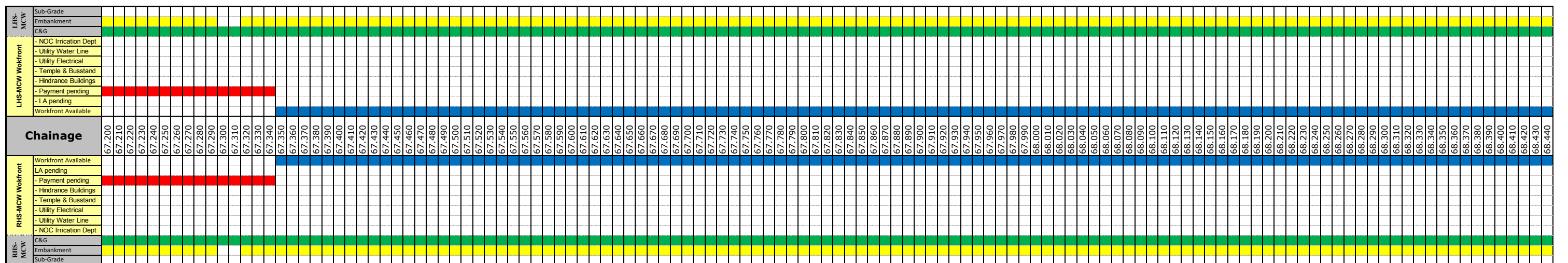
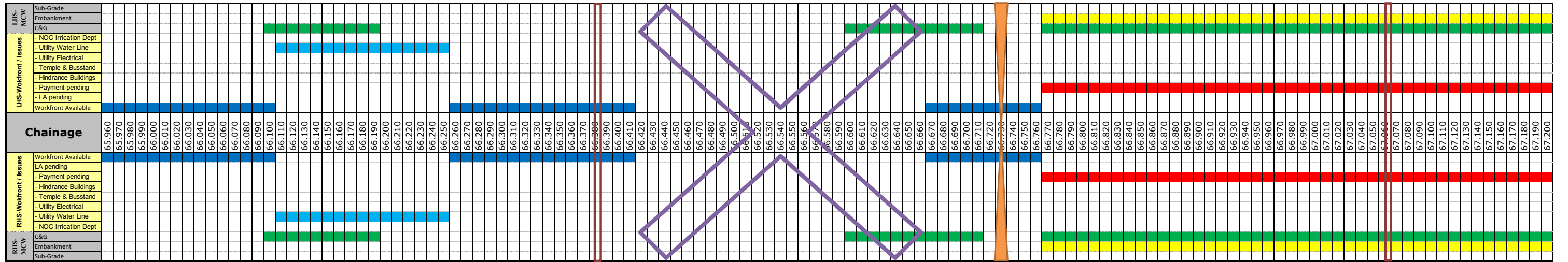
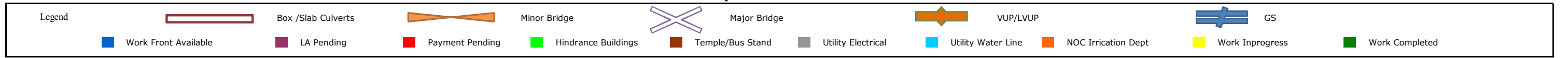
Major Bridge works and ROB/RUB

	(a) Open Foundation			0.000%			
	(b) Pile Foundation/ Well Foundation	Nos.	84	5.289%	699,701,550		
	(2) Sub-structure	Nos.	84	3.612%	477,891,273		
	(3) Super-structure (including crash barriers etc. complete)	Nos.	77	3.208%	424,381,248		
	D- New rail-road bridges						
	(a) ROB						
	(1) Foundation	Nos.		0.000%			
	(2) Sub-structure	Nos.		0.000%			
	(3) Super-structure (including crash barriers etc. complete)	Nos.		0.000%			
	(b) RUB						
	(1) Foundation	Nos.		0.000%			
	(2) Sub-structure	Nos.		0.000%			
	(3) Super-structure (including crash barriers etc. complete)	Nos.		0.000%			
Structures (elevated sections, reinforced earth)	A- Elevated Structures						
	(1) Foundation	Nos.		0.000%			
	(2) Sub-structure	Nos.		0.000%			
	(3) Super-structure (including crash barriers etc. complete)	Nos.		0.000%			
	B- Reinforced earth Wall (includes Approaches of ROB, Underpasses, Overpasses, Flyover etc.)	Sqm	196027	9.104%	1,204,450,614	7495	0.348%
Other Works	(i) Service roads/ Slip Roads	Km	53.19	5.690%	752,725,608		
	(ii) Toll Plaza	Nos.	1	1.821%	240,951,085		
	(iii) Road side drains	Km	28.85	5.429%	718,314,179		
	(iv) Road signs, markings, km stones, safety devices,						
	(a) Road signs, markings, km stones, ...	Km	100.96	3.058%	404,615,279		
	(b) Concrete Crash Barrier/ W-Beam Crash Barrier in Road work	Km					
	(i) Concrete Crash Barrier	Km	26.5	1.679%	222,129,021		
	(ii) W-Beam Crash Barrier	Km	10.03	0.788%	104,276,599		
	(v) Project facilities						
	(a) Bus Bays	No.	18	0.009%	1,168,188		
	(b) Truck Lay-byes	No.		0.000%			
	(c) Rest areas	No.		0.000%			
	(vi) Repairs to bridges/structures	Nos.					
	(vii) Road side plantation	Km	23.66	0.451%	59,629,564		
	(viii) Protection works						
	(a) Boulder pitching on slopes	Km	10.03	0.218%	28,903,487		
	(b) Toe/Retaining wall	Km	10.03	0.000%			
	(x) Miscellaneous	Ls.	100%	8.031%	1,062,496,886	42%	3.373%
		Total			100.000%	13,230,000,000	

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

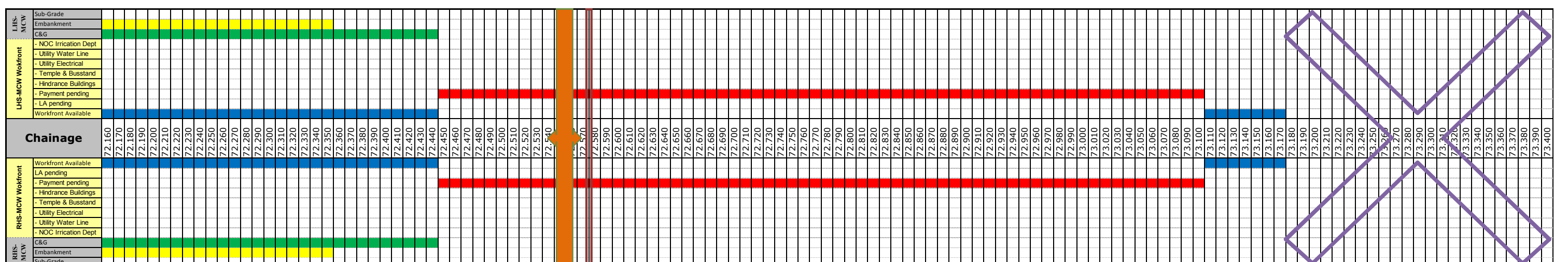
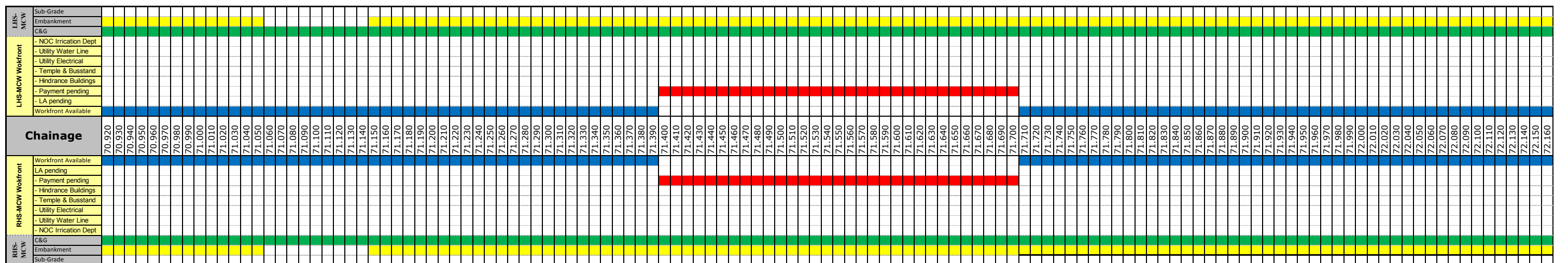
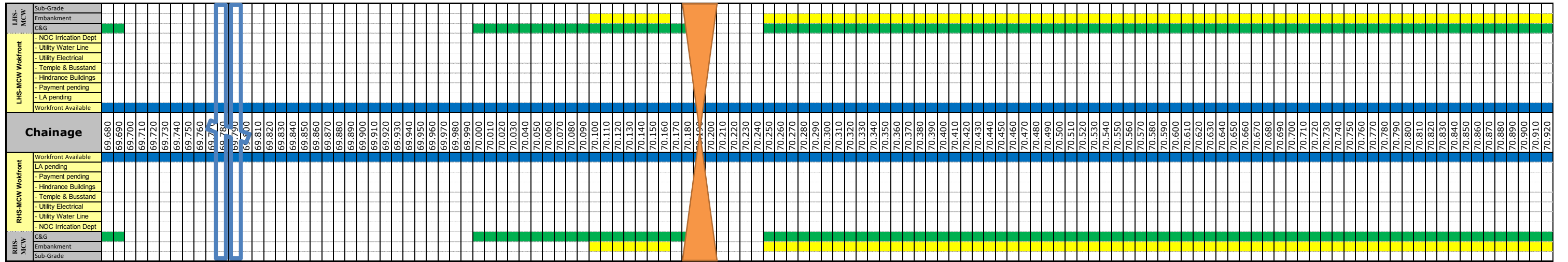
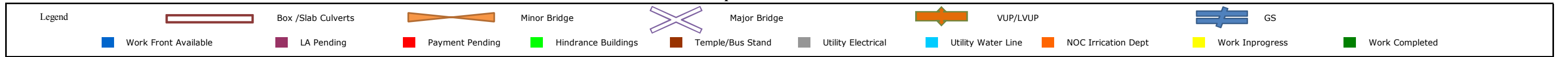
Strip Plan on 31-05-2019



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

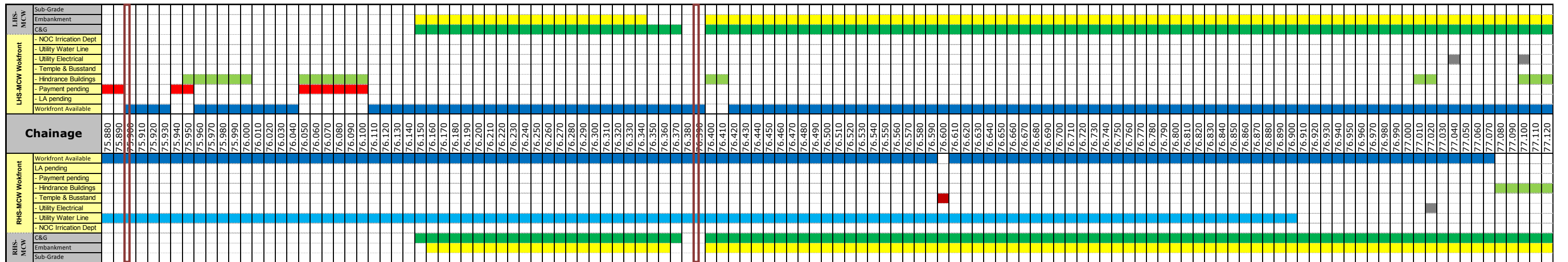
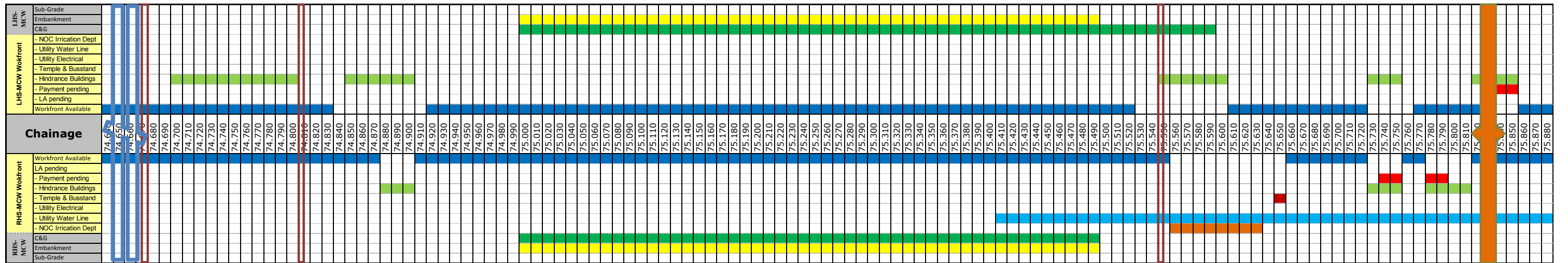
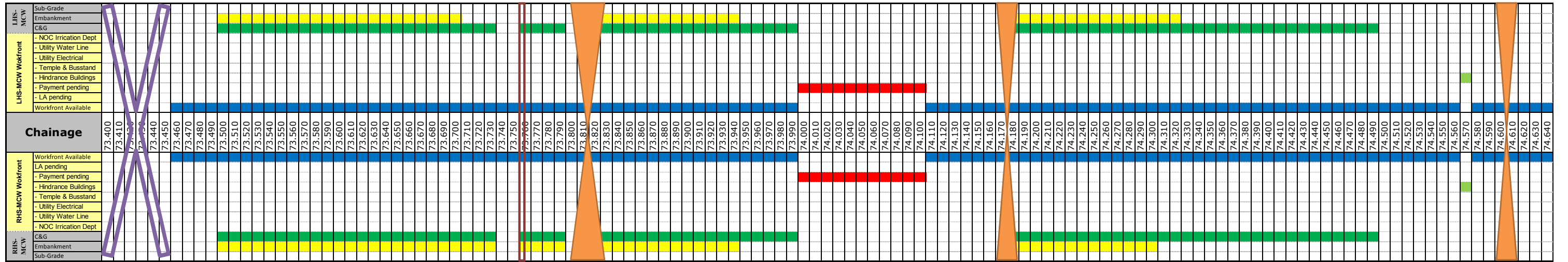
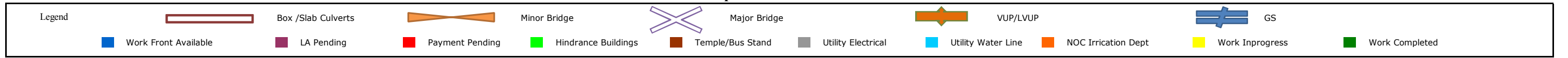
Strip Plan on 31-05-2019



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

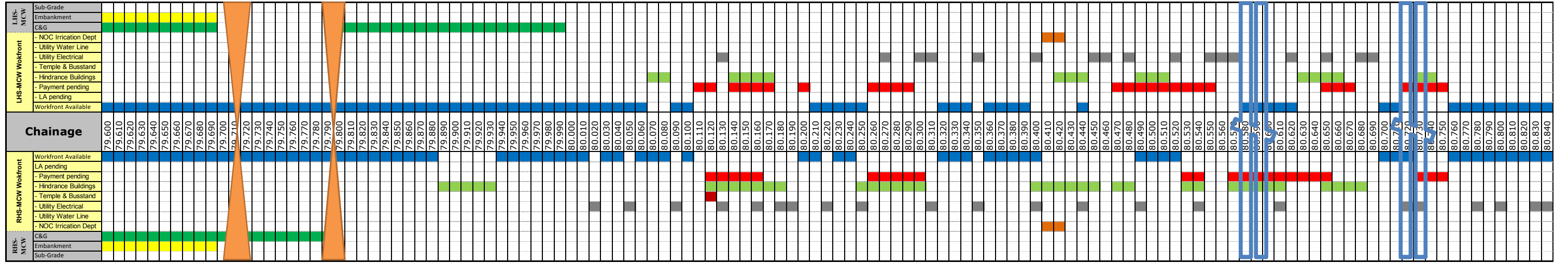
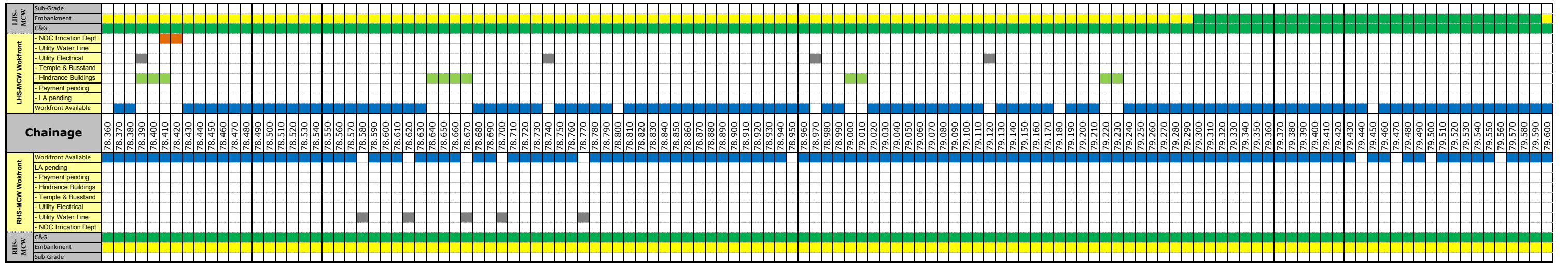
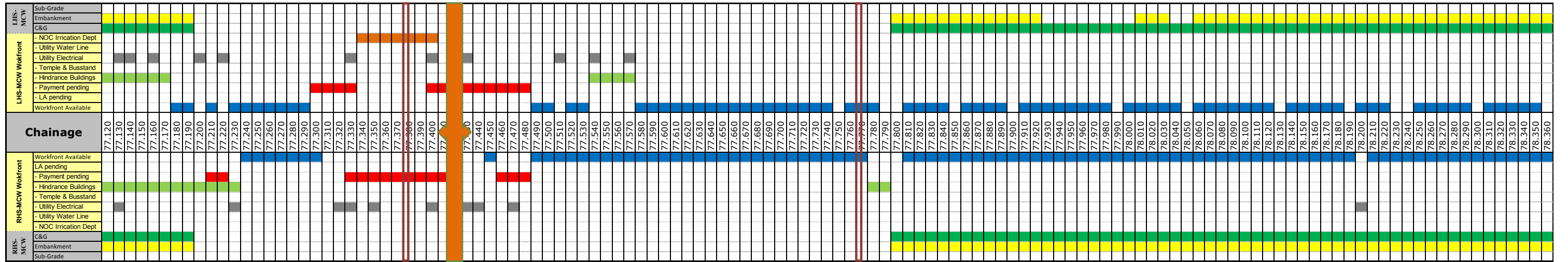
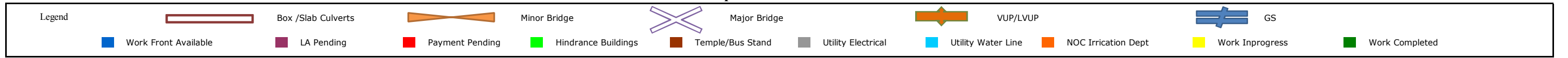
Strip Plan on 31-05-2019



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

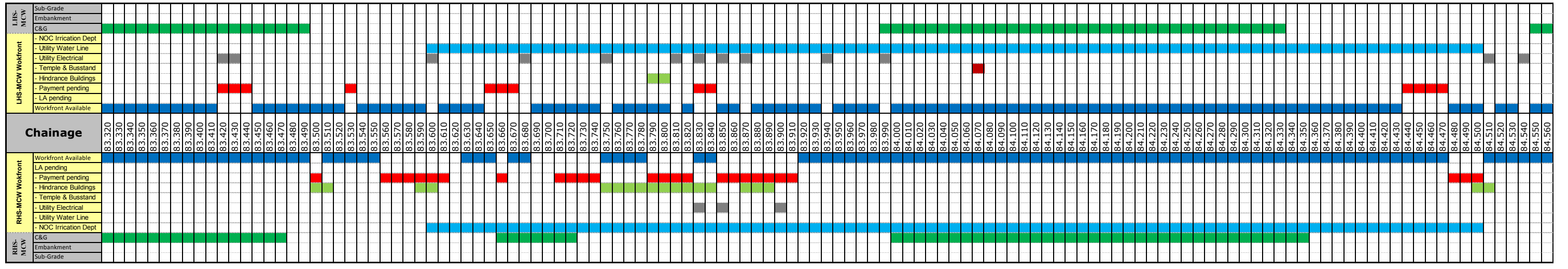
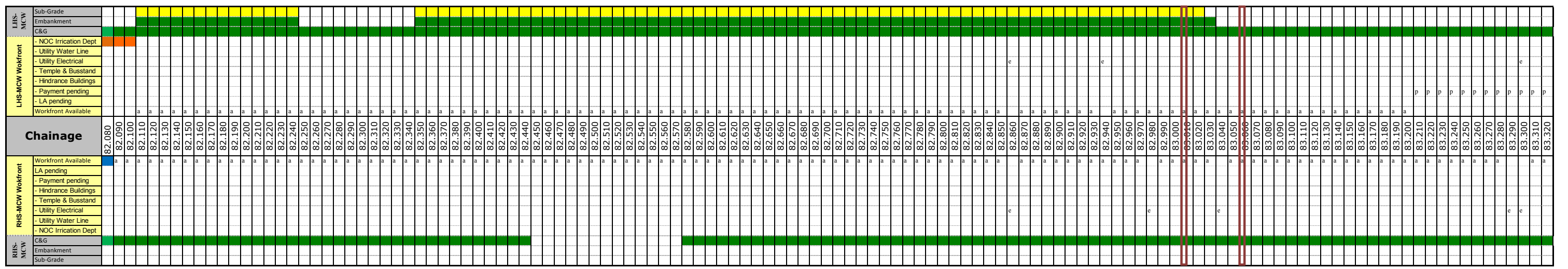
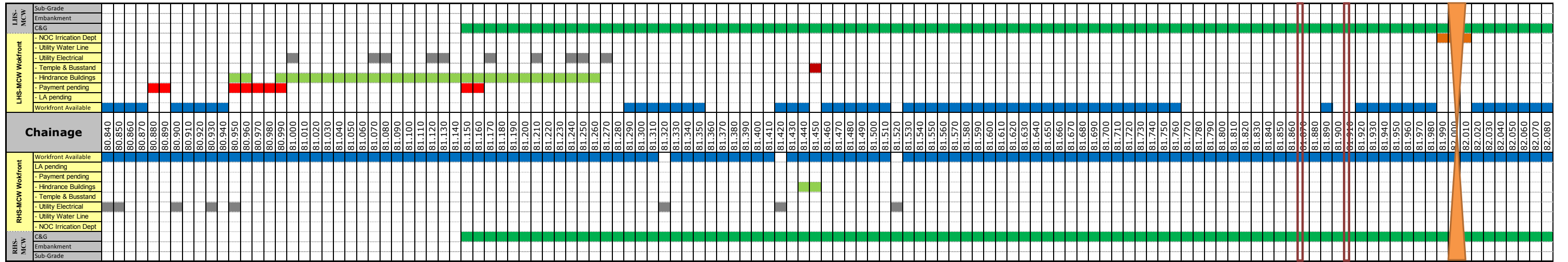
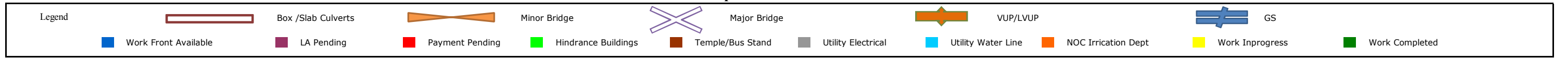
Strip Plan on 31-05-2019



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

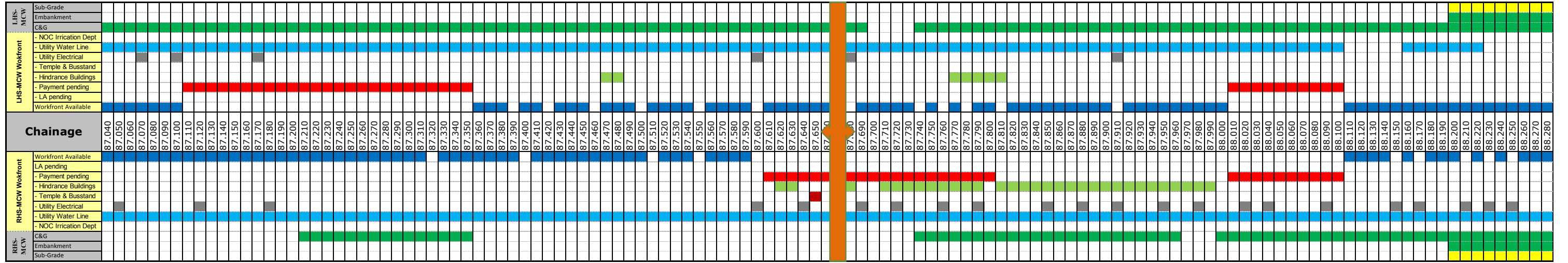
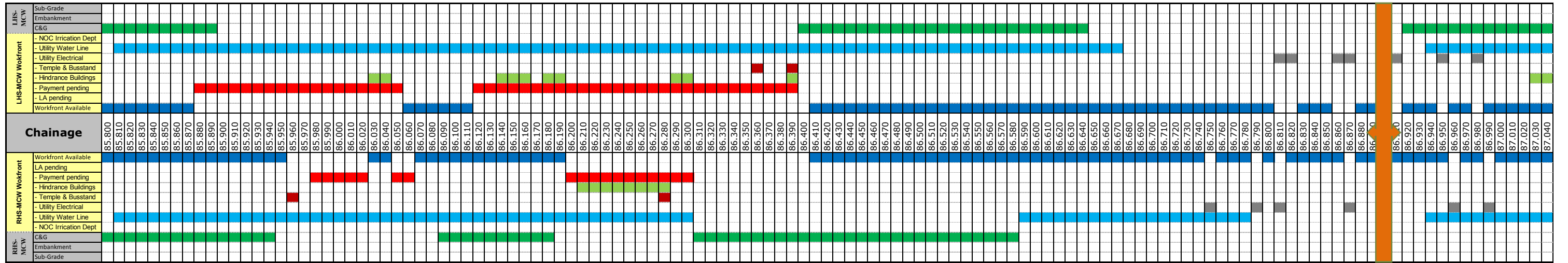
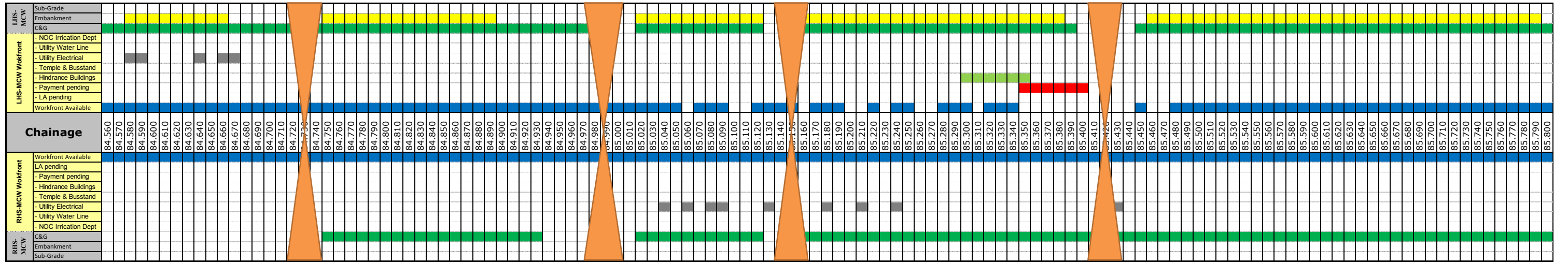
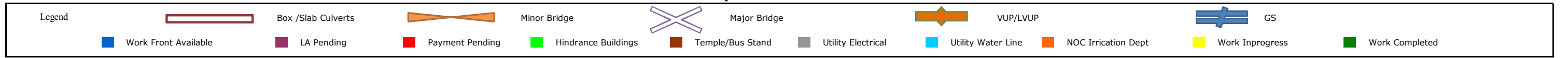
Strip Plan on 31-05-2019



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

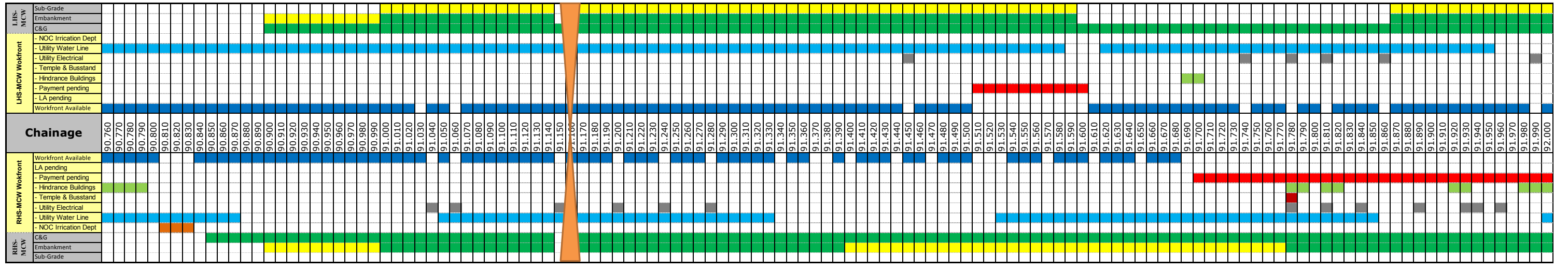
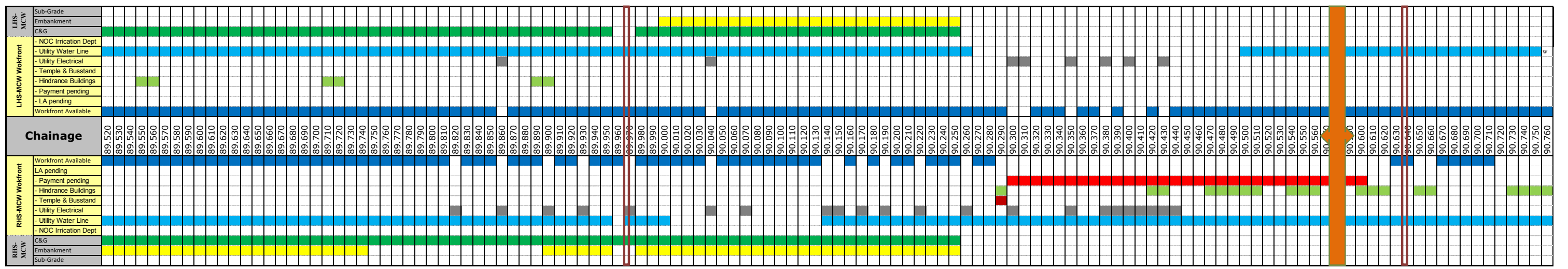
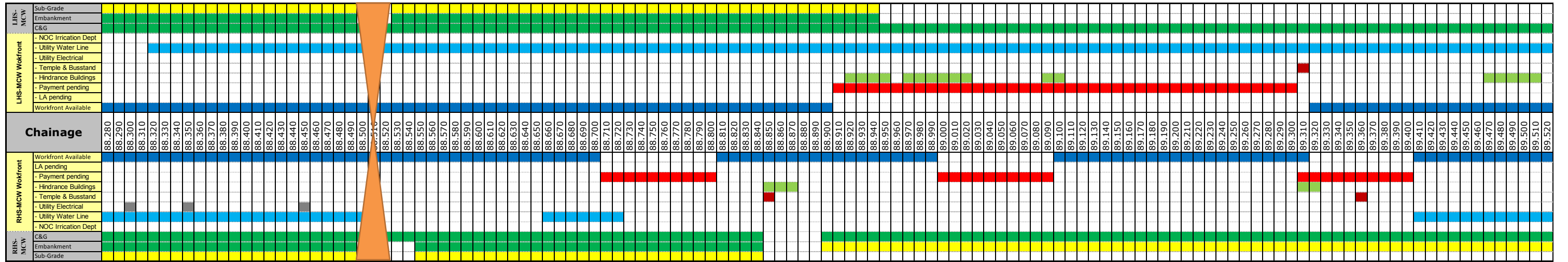
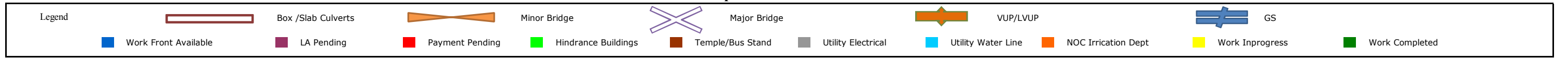
Strip Plan on 31-05-2019



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

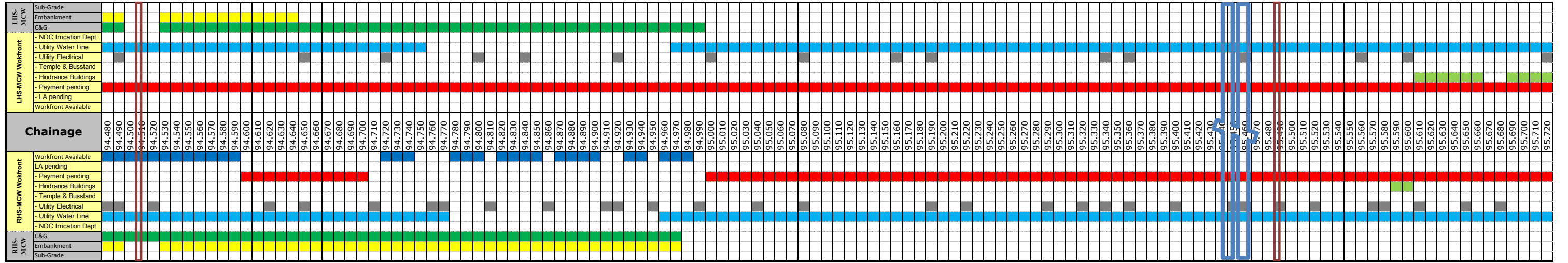
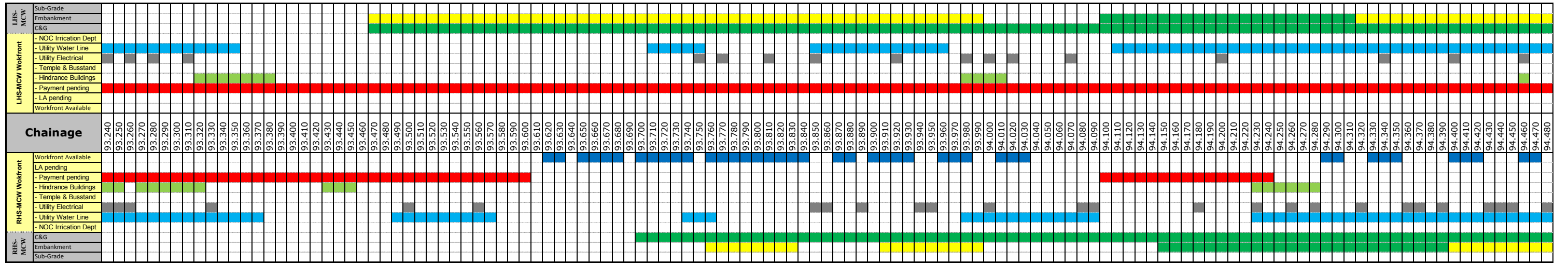
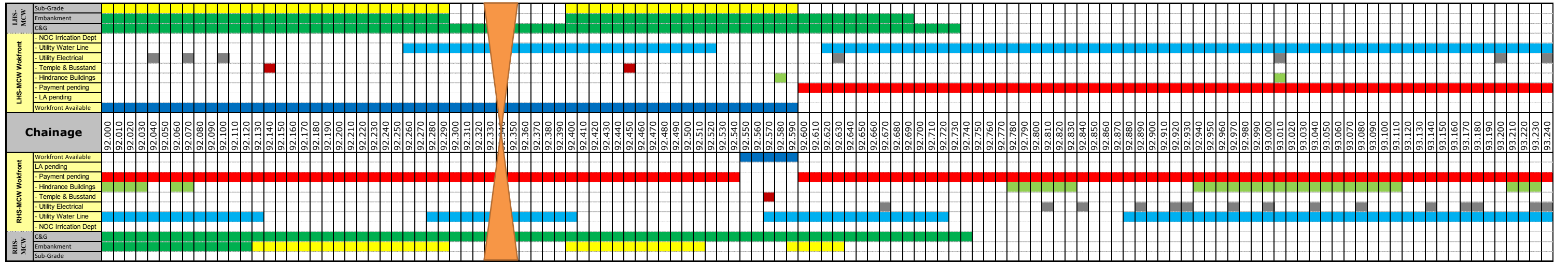
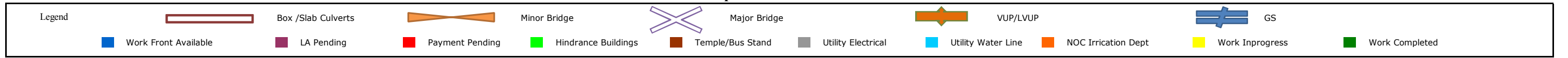
Strip Plan on 31-05-2019



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

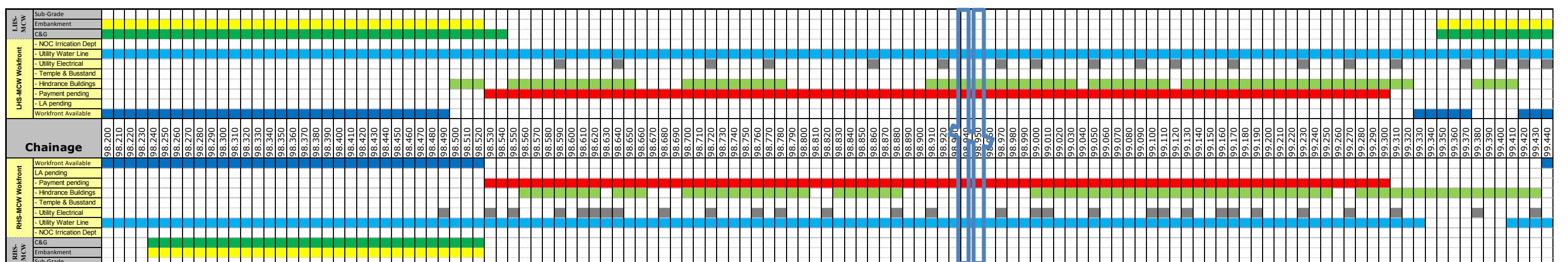
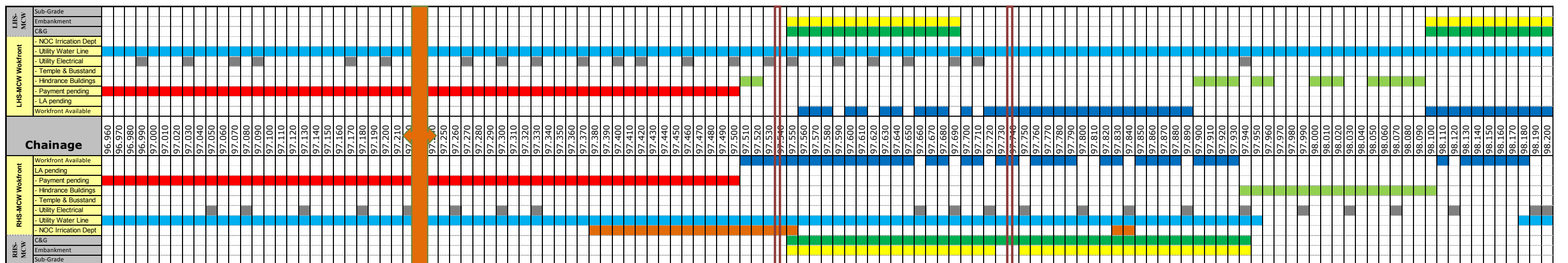
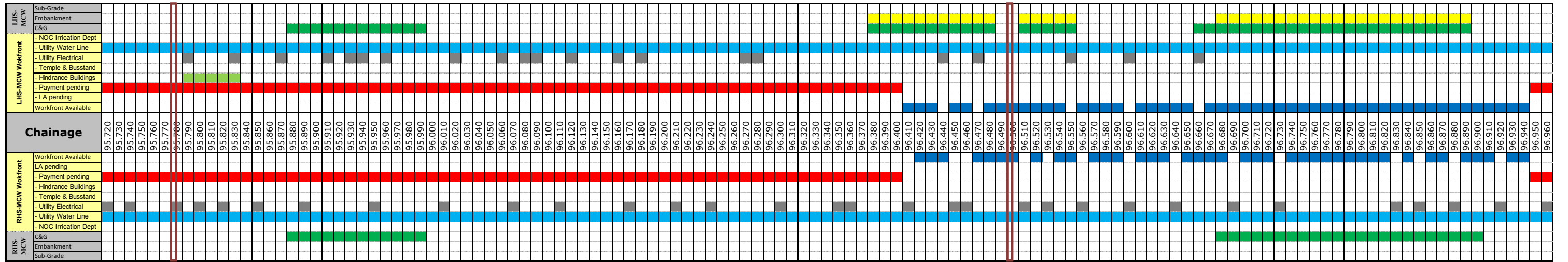
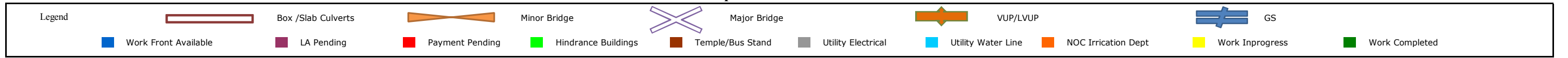
Strip Plan on 31-05-2019



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

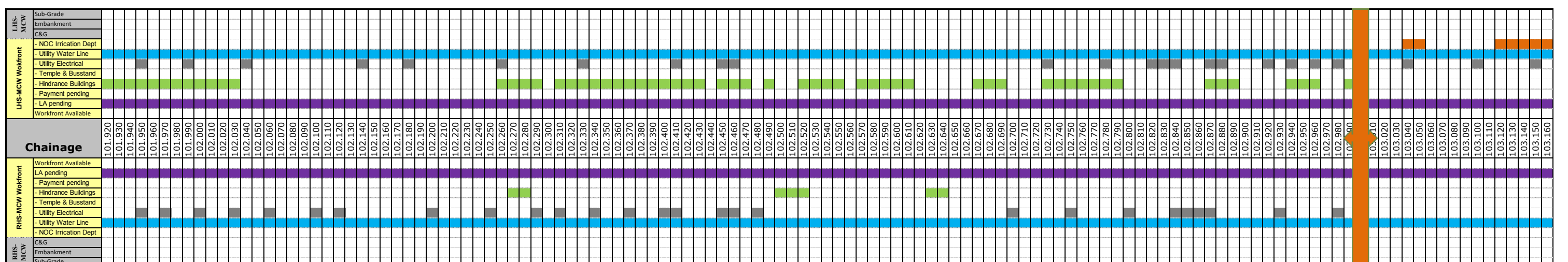
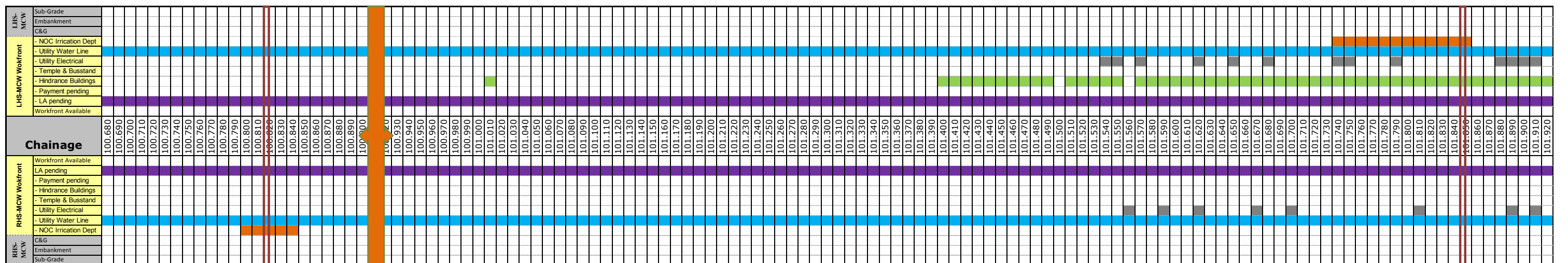
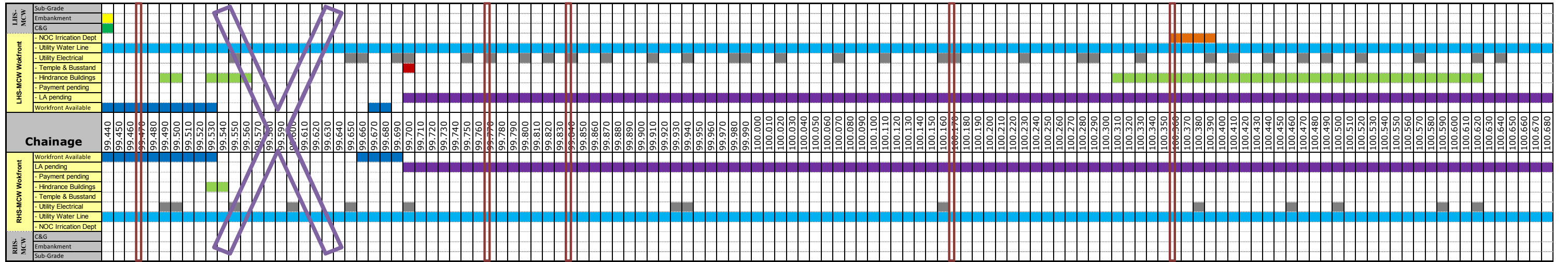
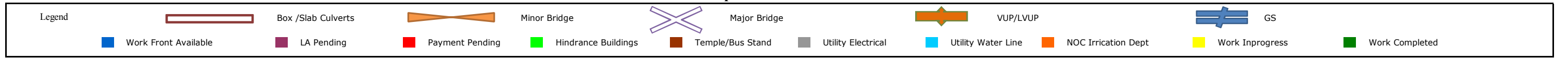
Strip Plan on 31-05-2019



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

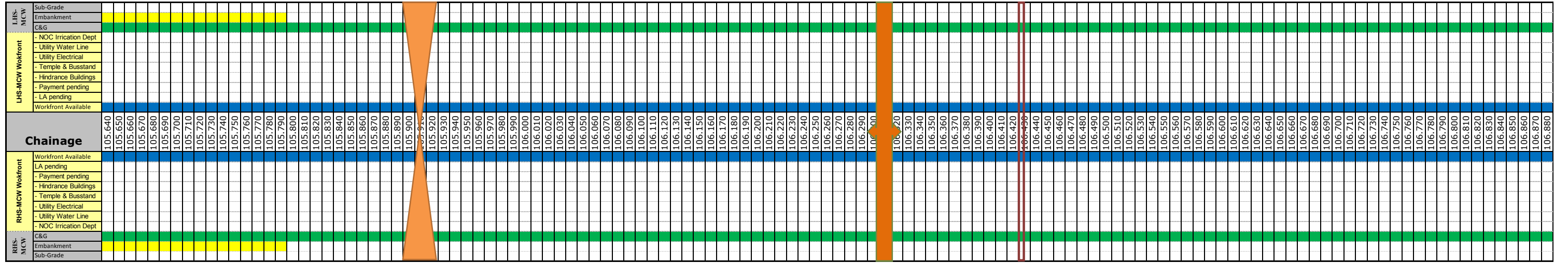
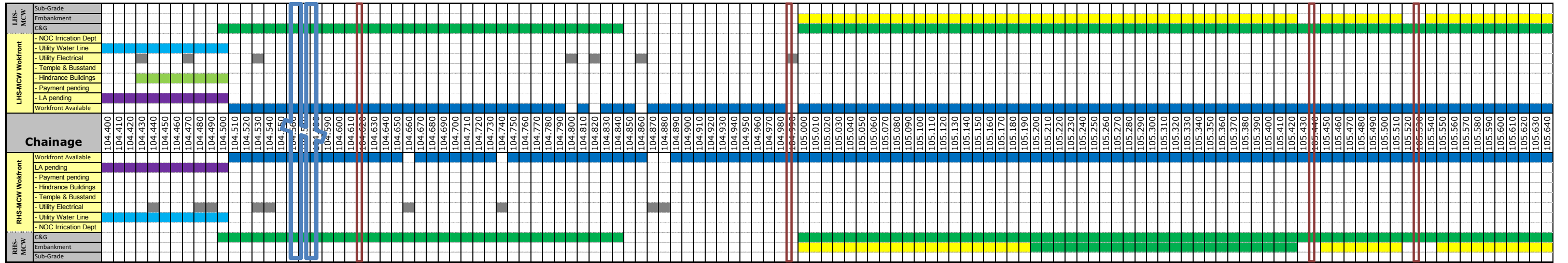
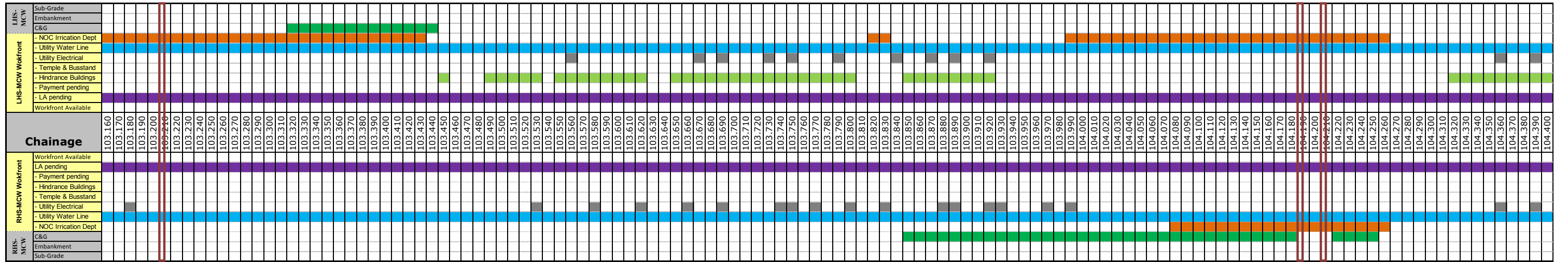
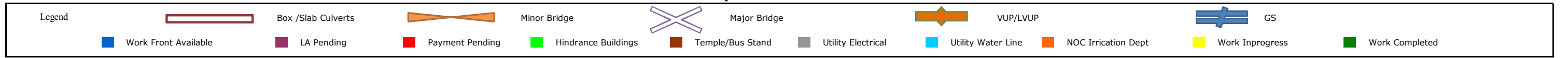
Strip Plan on 31-05-2019



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

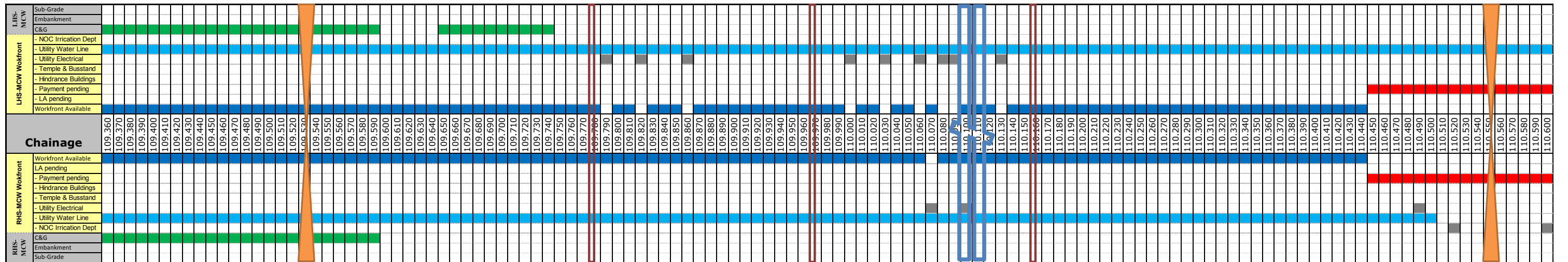
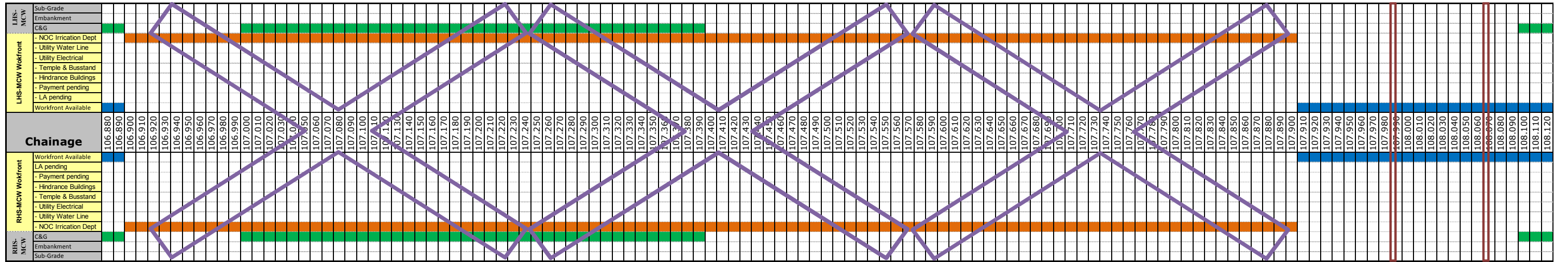
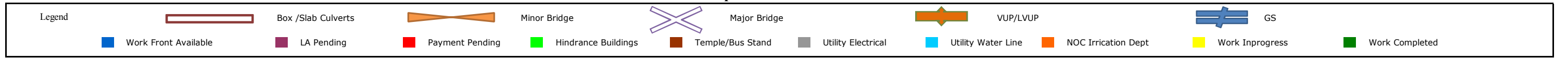
Strip Plan on 31-05-2019



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

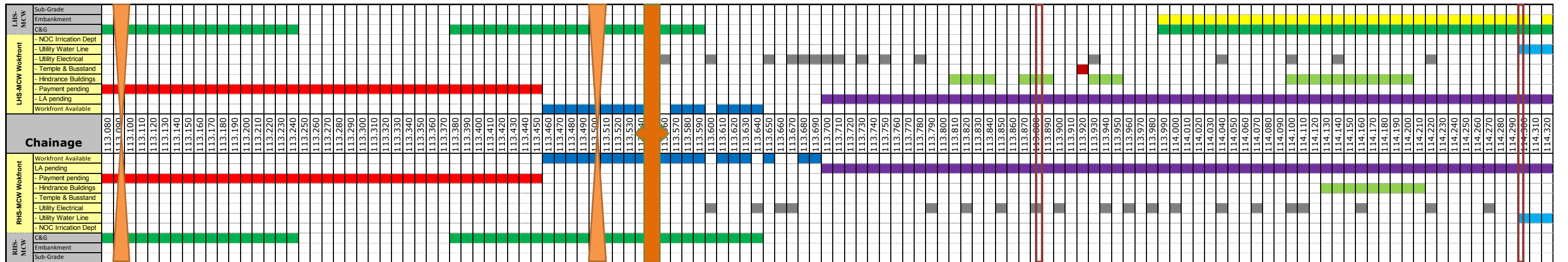
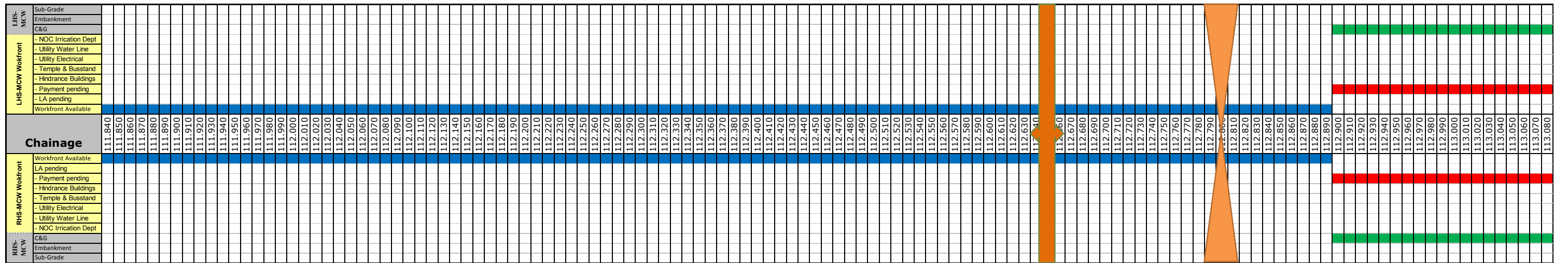
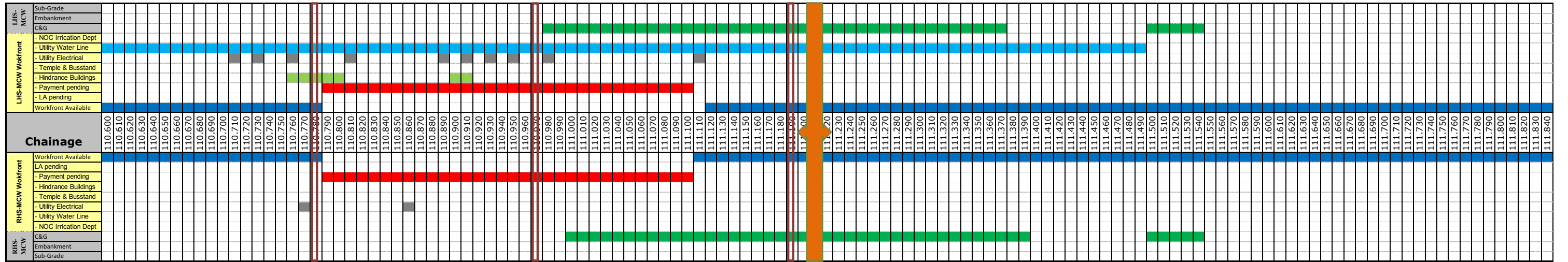
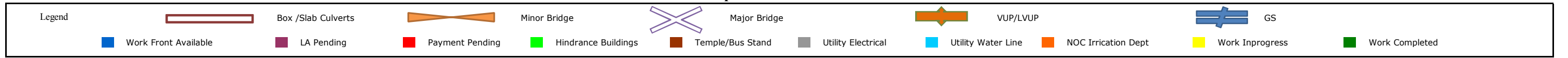
Strip Plan on 31-05-2019



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 on 31-05-2019



SETHIAHOPU CHOLOPURAM PROJECT - STATUS OF BOX CULVERTS ON EXISTING ROAD - MCW							Completed	In Progress													
Status Upto	31.05.2019						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	31.05.2019						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 MNB-BOX - SERVICE ROAD						Completed							In Progress							
Status Upto	31.05.2019					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															

SETHIAHOPI CHOLOPURAM PROJECT - STATUS OF BOX CULVERTS ON BYPASS - MCW						Completed	In Progress													
Status Upto	31.05.2019					LHS							RHS							
Sr. No.	As Approved by IE	Design Chainage As per CA		Number and Length of Spans (m)	Type of Structure	Protection Work	Slab	Wall	Raft	PCC	Granular Filling	Excavation	Excavation	Granular Filling	PCC	Raft	Wall	Slab	Protection Work	
1	66+357	66.383	BYPASS	1 x 3.0m x 2.0m	BOX CULVERT															
2	67+068	67.068	BYPASS	1 x 3.0m x 2.0m	BOX CULVERT															
3	69+357	69.357	BYPASS	1 x 2.0m x 2.0m	BOX CULVERT															
4	72+570	72.578	BYPASS	1 x 3.0m x 2.0m	BOX CULVERT															
5	73+755	73.755	BYPASS	1x1.2.0mx2.0m	PIPE CULVERT															
6	104+622	104.618	BYPASS	1 x 2.0m x 2.0m	BOX CULVERT															
7	104+998	104.992	BYPASS	1 x 4.0m x 2.0m	BOX CULVERT															
8	105+440	105.440	BYPASS	1 x 2.0m x 2.0m	BOX CULVERT															
9	105+536	105.525	BYPASS	1 x 2.0m x 2.0m	BOX CULVERT															
10	106+442	106.432	BYPASS	1 x 2.0m x 2.0m	BOX CULVERT															
11	108+002	107.994	BYPASS	1 x 3.0m x 2.0m	BOX CULVERT															
12	108+080	108.070	BYPASS	1 x 4.0m x 2.0m	BOX CULVERT															
13	108+225	108.225	BYPASS	1 x 3.0m x 2.0m	BOX CULVERT															
14	108+345	108.334	BYPASS	1 x 3.0m x 2.0m	BOX CULVERT															
15	108+441	108.441	BYPASS	1 x 3.0m x 2.0m	BOX CULVERT															
16	108+540	108.500	BYPASS	1 x 2.0m x 2.0m	BOX CULVERT															
17	108+767	108.767	BYPASS	1 x 4.0m x 2.0m	BOX CULVERT															
18	111+205	111.196	BYPASS	1 x 1.0m	PIPE CULVERT															
19	111+452	111.452	BYPASS		PIPE CULVERT															

SETHIYAHOPU CHOLOPURAM PROJECT - STATUS OF BOX CULVERTS ON BYPASS - SERVICE ROAD						Completed	In Progress													
Status Upto	31.05.2019					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 (>15m Span)					Completed								In Progress											
Status upto	31.05.2019				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 MNB-BOX - MCW						Completed	In Progress													
Status Upto	31.05.2019					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 LVUP					Completed						In Progress					
Status Upto	31.05.2019				LHS						RHS					
Sr. No.	As Approved by IE	Number and Length of Spans (m)	Type of Structure		Protection Work	Slab	Wall	Raft	PCC	Excavation	Excavation	PCC	Raft	Wall	Slab	Protection Work
1	77+420	1X10.5	LVUP	EXISTING												
2	112+643	1X10.5	LVUP	BYPASS												

SETHIYAHOPU CHOLOPURAM PROJECT - STATUS OF FLYOVER					Completed								In Progress								
Status upto	31.05.2019				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																	

SETHIAHOPU CHOLOPURAM PROJECT - STATUS OF MJB									Completed						
MJB at Chainage 66+530 (8x30) - BYPASS									In Progress						
LHS/LSR									RHS/LSR						
	Crash Barrier	Slab	Girder Casting	Pier Cap/Abt Can	Pier/Abt	t	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						
									In Progress						
LHS/LSR									RHS/LSR						
	Crash Barrier	Slab	Girder Casting	Pier Cap/Abt Can	Pier/Abt	t	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									Completed	In Progress							
LHS/LSR									RHS/LSR								
	Crash Barrier	Slab	Girder Casting	Pier Cap/Abt	Pier/Abt	t	Pile Cap	Pile	Pile	Pile Cap	Pier/Abt	Pier Cap/Abt	Girder Casting	Slab	Crash Barrier		
A1																	
P1																	
P2																	
A2																	
MJB at Chainage 107+400 - BYPASS									Completed	In Progress							
LHS/LSR									RHS/LSR								
	Crash Barrier	Slab	Girder Casting	Pier Cap/Abt	Pier/Abt	t	Pile Cap	Pile	Pile	Pile Cap	Pier/Abt	Pier Cap/Abt	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 VUP					Completed								In Progress								
Status upto	31.05.2019				LHS								RHS								
SR.NO.	VUP 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	72+545	1x25	BYPASS	A1																	
				A2																	
2	75+830	1x25	EXISTING	A1																	
				A2																	
3	86+677	1x25	EXISTING	A1																	
				A2																	
4	87+670	1x25	EXISTING	A1																	
				A2																	
5	90+580	1x25	EXISTING	A1																	
				A2																	
6	97+225	1x25	EXISTING	A1																	
				A2																	
7	101+910	1x25	EXISTING	A1																	
				A2																	
8	102+975	1x25	EXISTING	A1																	
				A2																	
9	106+318	1x25	BYPASS	A1																	
				A2																	
10	109+350	1x25	BYPASS	A1																	
				A2																	
11	111+235	1x25	BYPASS+EXISTING	A1																	
				A2																	
12	113+550	1x25	BYPASS+EXISTING	A1																	
				A2																	
13	115+258	1x25	EXISTING	A1																	
				A2																	

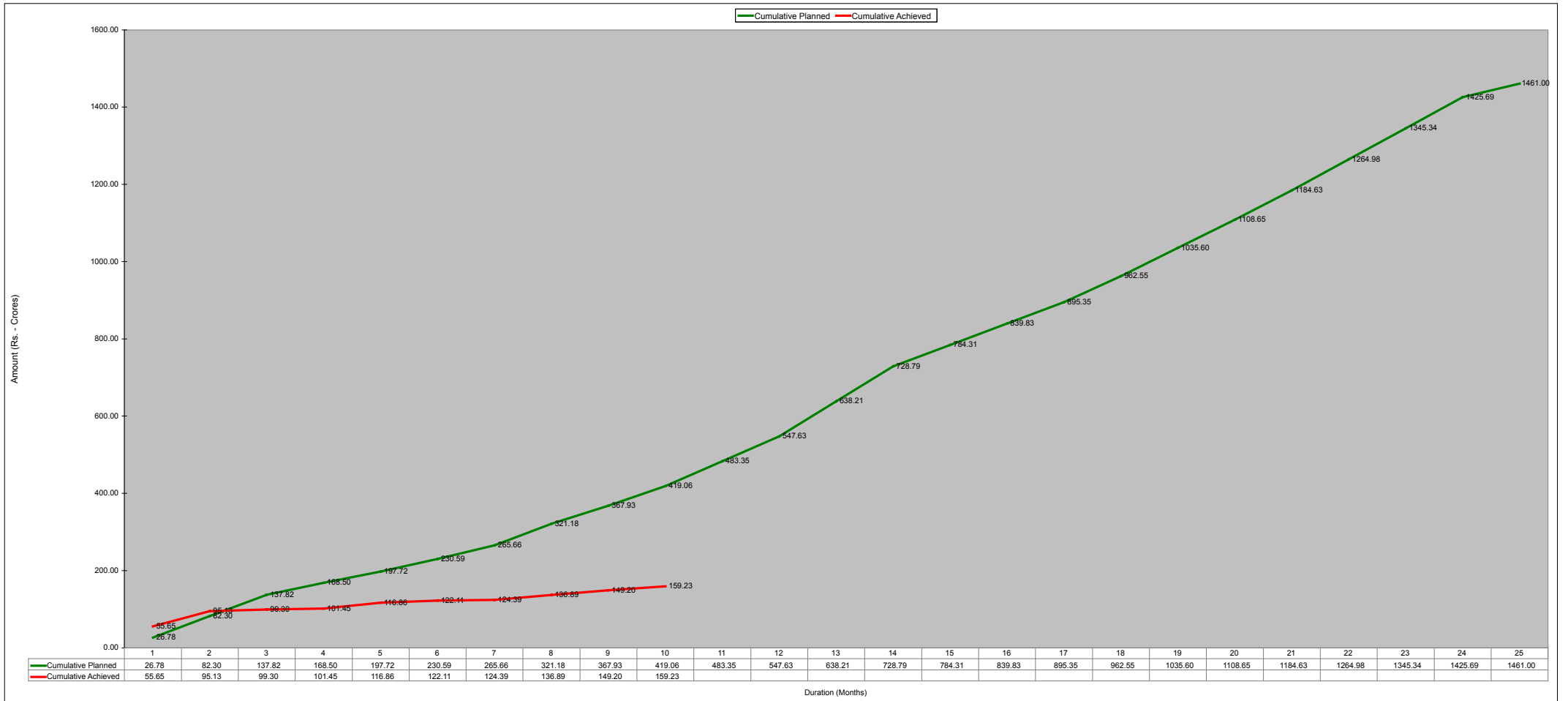
5. Financial & Physical Progress of Work

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

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

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

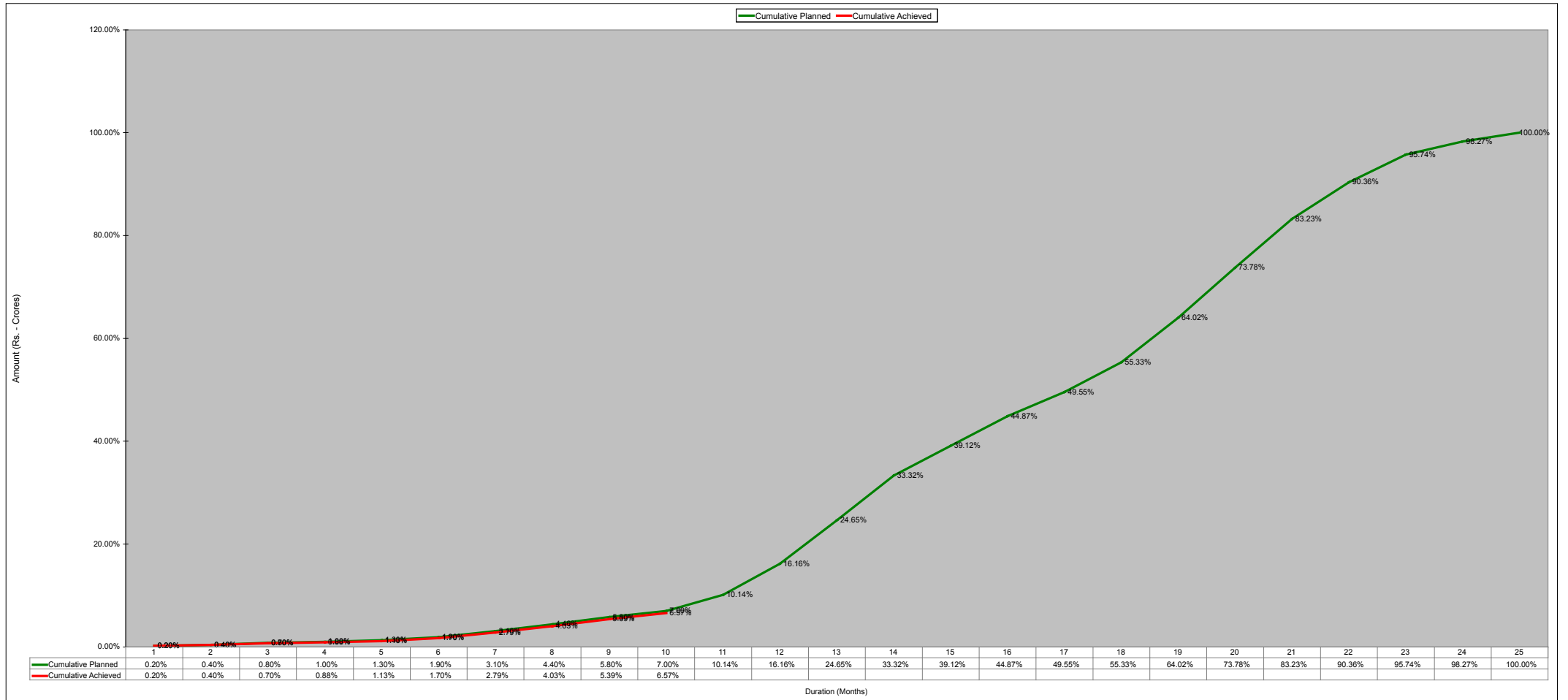
Fig. 03a- Financial Progress (S-Curve)



Schedule	2019												2020												
	Aug 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	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															
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															
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%															
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%															

Four Laning of Sehiyahopu - 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	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%
Monthly Achieved	0.20%	0.20%	0.30%	0.18%	0.25%	0.57%	1.09%	1.24%	1.36%	1.18%															
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%															

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	Electrronic weighing balance (50 kg)	1
5	Electrronic 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 apparuus 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 - 2019 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-2019

S. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous(APR) month				Tests conducted during reporting month upto 31 th May-19				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	313	313	0	82	0	0	0	0	313	313	0	82
1.2	Atterberg Limits	IS:2720 (Part5)	1 test / 250 meters	313	313	0	82	0	0	0	0	313	313	0	82
1.3	Proctor	IS:2720 (Part8)	1 test / 250 meters	313	313	0	82	0	0	0	0	313	313	0	82
1.4	Free Swell index	IS:2720 (Part40)	1 test / 250 meters	313	308	5	82	0	0	0	0	313	308	5	82
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	251	251	0	190	94	94	0	68	345	345	0	258
2.2	Atterberg Limits	IS:2720 (Part5)	1 test /1500 m ³	251	251	0	190	94	94	0	68	345	345	0	258
2.3	Proctor	IS:2720 (Part8)	1 test /1500 m ³	251	251	0	190	94	94	0	68	345	345	0	258
2.4	Free Swell index	IS:2720 (Part40)	1 test /1500 m ³	251	251	0	190	94	94	0	68	345	345	0	258
2.5	California bearing ratio	IS:2720 (Part16)	1 test / 3000 m ³	13	13	0	6	10	10	0	10	23	23	0	16
3.0 Cutting portion & Existing for EMB/SG (MoRT&H 305)															
3.1	Grain size analysis	IS:2720 (Part4)	1 test /1500 m ³	2	0	0	2	8	8	0	3	10	8	0	5
3.2	Atterberg Limits	IS:2720 (Part5)	1 test /1500 m ³	2	0	0	2	8	8	0	3	10	8	0	5
3.3	Proctor	IS:2720 (Part8)	1 test /1500 m ³	2	0	0	2	8	8	0	3	10	8	0	5
3.4	Free Swell index	IS:2720 (Part40)	1 test /1500 m ³	2	0	0	2	8	8	0	3	10	8	0	5
3.5	California bearing ratio	IS:2720 (Part16)	1 test / 3000 m ³	0	0	0	0	8	6	2	3	8	6	2	3
4.0 FLYASH For Embankment															
4.1	Liquid Limit & Plastic limit	TABLE-1	1 test /1500 m ³	55	55	0	55	0	0	0	0	55	55	0	55
4.2	Maximum Dry Density	Clause 5.2	1 test /1500 m ³	55	55	0	55	0	0	0	0	55	55	0	55
5.0 Field Density Test MORT&H 305															
5.1	Field density (OGL)	IS:2720 (Part28)	1 test /3000 sqm	1937	1841	96	455	351	351	0	166	2288	2192	96	621
5.2	EMB field density	IS:2720 (Part28)	1 test /3000 sqm	5182	4852	330	1070	2348	2246	102	665	7530	7098	432	1735
5.3	SG field density	IS:2720 (Part28)	1 test / 2000 sqm	0	0	0	0	124	118	6	42	124	118	6	42
5.4	Shoulder field density	IS:2720 (Part28)	1 test / 2000 sqm	0	0	0	0	323	320	3	30	323	320	3	30
6.0 Filter Media & Back filling MoRT&H 2500															
6.1	Gradation		As required	0	0	0	0	0	0	0	0	0	0	0	0
6.2	Backfilling field density		1 test /1000 m ³	0	0	0	0	600	600	0	28	600	600	0	28
6.3	RE Wall field density		As required	0	0	0	0	0	0	0	0	0	0	0	0

S. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous(APR) month				Tests conducted during reporting month upto 31 th May-19				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
7.0 Safe Bearing capacity of soil															
7.1	Free Swell index	IS:2720 (Part40)	As required	43	39	4	39	2	2	0	2	45	41	4	41
7.2	Grain size analysis	IS:2720 (Part4)	As required	43	43	0	39	2	2	0	2	45	45	0	41
7.3	Proctor	IS:2720 (Part8)	As required	43	43	0	39	2	2	0	2	45	45	0	41
7.4	Direct shear Test	IS:2720 (Part13)	As required	43	36	7	39	2	2	0	2	45	38	7	41
7.5	Bearing Capacity / Plate Load Test	IS:6403 / IS 1888	As required	3	3	0	3	0	0	0	0	3	3	0	3
8.0 CTSB Mix Design/Site Frequency MoRT&H 403															
8.1	Gradation	Table 400-4	1 test/400m ³	42	42	0	42	0	0	0	0	42	42	0	42
8.2	Atterberg Limits	IS:2720 (Part5)	1 test/400m ³	5	5	0	5	0	0	0	0	5	5	0	5
8.3	Proctor	IS:2720 (Part8)	As required	4	4	0	4	0	0	0	0	4	4	0	4
8.4	CBR Test or unconfined compressive	IS:2720 (Part16)	As required	1	1	0	1	0	0	0	0	1	1	0	1
8.5	Quality of cement		Minimum 1 test/5 tons	2	2	0	2	0	0	0	0	2	2	0	2
8.6	Aggregate Impact value	IS:2386 Part-4	As required	3	3	0	3	0	0	0	0	3	3	0	3
8.7	Field Density	IS:2720 (Part28)	1 set of 2 Test per	0	0	0	0	0	0	0	0	0	0	0	0
8.8	Specific gravity & Water absorption	IS:2386 (Part2)	As required	2	2	0	2	0	0	0	0	2	2	0	2
8.9	Cubes	IRC SP 89 (2010)	Minimum 5 Cubes	34	34	0	34	0	0	0	0	34	34	0	34
9.0 Granular Bedding Material (For Structures-Ground Improvement)- Mix Design															
9.1	Gradation	Table 400-1	1 test/400m ³	0	0	0	0	0	0	0	0	0	0	0	0
9.2	Atterberg Limits	IS:2720 (Part5)	1 test/400 m ³	0	0	0	0	0	0	0	0	0	0	0	0
9.3	Proctor	IS:2720 (Part8)	As required	0	0	0	0	0	0	0	0	0	0	0	0
9.4	CBR Test	IS:2720 (Part16)	As required	0	0	0	0	0	0	0	0	0	0	0	0
9.5	Aggregate Impact value	IS:2386 Part-4	As required	0	0	0	0	0	0	0	0	0	0	0	0
9.6	Field Density	IS:2720 (Part28)	1 Test per 1000Sq.m	0	0	0	0	0	0	0	0	0	0	0	0
10.0 Granular Bedding Material (For Structures-Ground Improvement)- Site Frequency															
10.1	Gradation	Table 400-1	1 test/400m ³	3	3	0	3	0	0	0	0	3	3	0	3
10.2	Atterberg Limits	IS:2720 (Part5)	1 test/400 m ³	3	3	0	3	0	0	0	0	3	3	0	3
10.3	Proctor	IS:2720 (Part8)	As required	0	0	0	0	0	0	0	0	0	0	0	0
10.4	CBR Test	IS:2720 (Part16)	As required	0	0	0	0	0	0	0	0	0	0	0	0
10.5	Aggregate Impact value	IS:2386 Part-4	As required	0	0	0	0	0	0	0	0	0	0	0	0
10.6	Field Density	IS:2720 (Part28)	1 Test per 1000Sq.m	90	90	0	21	0	0	0	0	90	90	0	21

S. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous(APR) month				Tests conducted during reporting month upto 31 th May-19				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
11.0 WMM Mix Design															
11.1	Gradation	Table 400-3	1 test/200m ³	25	25	0	25	0	0	0	0	25	25	0	25
11.2	Aggregate Impact Value	IS:2386 Part-4	1 test/ 1000 m ³	3	3	0	3	0	0	0	0	3	3	0	3
11.3	Flakiness & Elagation index	IS:2386 Part1	1 test/ 500 m ³	2	2	0	2	0	0	0	0	2	2	0	2
11.4	Atterberg Limits	IS:2720 (Part5)	1 test/200m ³	2	2	0	2	0	0	0	0	2	2	0	2
11.5	Water absorption & Sp.Gravity	IS:2386 Part2	As required	4	4	0	4	0	0	0	0	4	4	0	4
11.6	Proctor	IS:2720 (Part8)	As required	2	2	0	2	0	0	0	0	2	2	0	2
11.7	CBR	IS:2720 (Part16)	As required	1	1	0	1	0	0	0	0	1	1	0	1
11.8	Field Density	IS:2720 (Part28)	1 set Test per 1000Sq.m / 3 pits	0	0	0	0	0	0	0	0	0	0	0	0
12.0 WMM Site Frequency MoRT&H 406															
12.1	Combined Gradation	Table 400-3	1 test/200m ³	0	0	0	0	0	0	0	0	0	0	0	0
12.2	Aggregate Impact Value	IS:2386 Part-4	1 test/ 1000 m ³	0	0	0	0	0	0	0	0	0	0	0	0
12.3	Flakiness & Elagation index	IS:2386 Part1	1 test/ 500 m ³	0	0	0	0	0	0	0	0	0	0	0	0
12.4	Atterberg Limits	IS:2720 (Part5)	1 test/200m ³	0	0	0	0	0	0	0	0	0	0	0	0
12.5	Water absorption	IS:2386 Part2	As required	0	0	0	0	0	0	0	0	0	0	0	0
12.6	Proctor	IS:2720 (Part8)	As required	0	0	0	0	0	0	0	0	0	0	0	0
12.7	CBR	IS:2720 (Part16)	As required	0	0	0	0	0	0	0	0	0	0	0	0
12.8	Field Density	IS:2720 (Part28)	1 set Test per 1000Sq.m	0	0	0	0	0	0	0	0	0	0	0	0
13.0 Prime Coat															
13.1	Rate of Spread of Binder		Three tests per day	0	0	0	0	0	0	0	0	0	0	0	0
14.0 Tack Coat															
14.1	Rate of Spread of Binder		Three tests per day	0	0	0	0	0	0	0	0	0	0	0	0
15.0 Fine Aggregate MoRT&H 1008															
15.1	Grade / Sieve analysis	IS:2386 (Part1)	1 test per day	312	312	0	123	38	38	0	10	350	350	0	133
15.2	Specific gravity & Water absorption	IS:2386 (Part2)	As required	16	16	0	15	0	0	0	0	16	16	0	15
15.3	Fineness Modulus	MORT&H Sec. 1008&383	1 test per day	170	170	0	51	38	38	0	10	208	208	0	61
15.4	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
15.5	Deleterious material/silt	IS:2386 (Part2)	1 test per source	0	0	0	0	0	0	0	0	0	0	0	0

S. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous(APR) month				Tests conducted during reporting month upto 31 th May-19				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
16.0 Coarse Aggregate MoRT&H 1007															
16.1	Gradation	IS:2386 (Part2)	1 test per day	312	312	0	134	38	38	0	10	350	350	0	144
16.2	Specific gravity & Water absorption	IS:2386 (Part3)	As required	18	18	0	15	0	0	0	0	18	18	0	15
16.3	Aggregate Impact Value	IS:2386 (Part4)	1 test / each source	119	119	0	66	13	13	0	6	132	132	0	72
16.4	Flakiness index	IS:2386 (Part1)	1 test / each source & monthly	91	91	0	55	12	12	0	4	103	103	0	59
16.5	Soundness	IS:2386 (Part5)	As required	0	0	0	0	0	0	0	0	0	0	0	0
16.6	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
16.7	Deleterious constituents	IS:2386 (Part2)	1 test per source	0	0	0	0	0	0	0	0	0	0	0	0
16.8	Petrographic Examination	IS:2386 (Part8)	1 test per source	0	0	0	0	0	0	0	0	0	0	0	0
17.0 Cement MoRT&H 1006															
17.1	Chemical test / Physical test	IS:4031,4032	1 test per source	4	4	0	4	0	0	0	0	4	4	0	4
17.2	Fineness	IS:4031 (Part1)	Every batch	149	149	0	114	21	21	0	4	170	170	0	118
17.3	Normal Consistency	IS:4031 (Part4)	Every batch	149	149	0	114	10	10	0	4	159	159	0	118
17.4	Initial, Final setting time	IS:4031 (Part5)	Every batch	149	149	0	114	10	10	0	4	159	159	0	118
17.5	Soundness of Cement	IS:4031 (Part3)	Every batch	121	121	0	91	10	10	0	4	131	131	0	95
17.6	Compressive Strength-set	IS:4031 (Part6)													
	3 days		1 test per Lot	107	107	0	75	7	7	0	2	114	114	0	77
	7 days		1 test per Lot	104	104	0	71	6	6	0	3	110	110	0	74
	28 days		1 test per Lot	94	94	0	65	7	7	0	3	101	101	0	68
18.0 Water															
18.1	Chemical test	IS 2386	1 test per source	5	5	0	5	0	0	0	0	5	5	0	5
19.0 Admixture															
19.1	Physical Properties	IS 9103	1 test per Lot	3	3	0	3	0	0	0	0	3	3	0	3
19.2	Chemical Test	IS 9103	1 test per source	2	2	0	2	0	0	0	0	2	2	0	2
20.0 Steel															
20.1	8 mm Dia	IS 1786	Physical Properties & Chemical Test 2 test per Lot	2	2	0	2	0	0	0	0	2	2	0	2
20.2	10 mm Dia	IS 1786		5	5	0	5	2	0	0	1	7	5	0	6
20.3	12 mm Dia	IS 1786		5	5	0	5	4	0	0	2	9	5	0	7
20.4	16 mm Dia	IS 1786		5	5	0	5	4	0	0	2	9	5	0	7
20.5	20 mm Dia	IS 1786		5	5	0	5	4	0	0	2	9	5	0	7
20.6	25 mm Dia	IS 1786		1	1	0	1	2	0	0	1	3	1	0	2
20.7	32 mm Dia	IS 1786		2	2	0	2	1	0	0	1	3	2	0	3

S. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous(APR) month				Tests conducted during reporting month upto 31 th May-19				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
21.(A) Concrete Cube Strength															
M15 PCC															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	115	112	0	85	1	1	0	1	116	113	0	86
	28Days Compressive Strength			194	194	0	148	17	17	0	6	211	211	0	154
M20 PCC															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	0	0	0	0	0	0	0	0	0	0	0	0
	28Days Compressive Strength			0	0	0	0	0	0	0	0	0	0	0	0
M25 RCC															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	0	0	0	0	0	0	0	0	0	0	0	0
	28Days Compressive Strength			0	0	0	0	0	0	0	0	0	0	0	0
M30 RCC															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	79	79	0	56	3	3	0	3	82	82	0	59
	28Days Compressive Strength			183	183	0	103	0	0	0	0	183	183	0	103
M30 RCC PUMPABLE															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	2	2	0	2	2	2	0	0	4	4	0	2
	28Days Compressive Strength			4	4	0	4	0	0	0	0	4	4	0	4
M35 RCC															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	113	113	0	95	18	18	0	11	131	131	0	106
	28Days Compressive Strength			207	207	0	154	61	61	0	48	268	268	0	202
M35 RCC PILING															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	230	230	0	168	30	30	0	15	260	260	0	183
	28Days Compressive Strength			537	531	0	357	67	67	0	37	604	598	0	394
M35 RCC PUMPABLE															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	98	98	0	50	11	11	0	11	109	109	0	61
	28Days Compressive Strength			269	269	0	150	25	25	0	19	294	294	0	169
M35 RE BLOCK															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	166	166	0	91	49	49	0	15	215	215	0	106
	28Days Compressive Strength			376	376	0	241	120	120	0	40	496	496	0	281
M40 RCC															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	3	3	0	3	0	0	0	0	3	3	0	3
	28Days Compressive Strength			6	6	0	6	0	0	0	0	6	6	0	6
M40 PILE															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	60	60	0	58	0	0	0	0	60	60	0	58
	28Days Compressive Strength			114	114	0	114	21	21	0	11	135	135	0	125

S. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous(APR) month				Tests conducted during reporting month upto 31 th May-19				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
M45 RCC															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	3	3	0	3	0	0	0	0	3	3	0	3
	28Days Compressive Strength			6	6	0	0	0	0	0	0	0	6	6	0
M50 RCC															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	3	3	0	3	0	0	0	0	3	3	0	3
	28Days Compressive Strength			6	6	0	6	0	0	0	0	0	6	6	0
M60 RCC															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	4	4	0	4	0	0	0	0	4	4	0	4
	28Days Compressive Strength			6	6	0	6	3	3	0	3	9	9	0	9

7. Weather Report

DATE	Temperature (°C)		Rainfall in mm	Humidity in %		Remarks
	Min	Max		Min	Max	
5/1/2019	31.80	40.1	0.00	39	61	Sunny
5/2/2019	32.20	41.7	0.00	34	64	Sunny
5/3/2019	31.10	46.1	0.00	20	54	Sunny
5/4/2019	31.20	44.7	0.00	21	61	Sunny
5/5/2019	33.40	41.7	0.00	34	52	Sunny
5/6/2019	32.40	42.2	0.00	31	64	Sunny
5/7/2019	31.20	43.3	12.50	35	75	Drizzling
5/8/2019	29.60	40.0	0.00	39	74	Sunny
5/9/2019	29.70	49.0	0.00	22	68	Sunny
5/10/2019	30.60	43.8	0.00	35	66	Sunny
5/11/2019	31.20	51.0	0.00	27	79	Sunny
5/12/2019	30.80	49.0	0.00	23	80	Sunny
5/13/2019	30.80	45.0	0.00	31	75	Sunny
5/14/2019	30.20	43.7	0.00	34	74	Sunny
5/15/2019	31.90	43.5	0.00	36	66	Sunny
5/16/2019	30.90	43.8	0.00	34	73	Sunny
5/17/2019	29.90	48.9	0.00	26	81	Sunny
5/18/2019	31.20	44.6	0.00	30	72	Sunny
5/19/2019	31.40	43.5	0.00	35	75	Sunny
5/20/2019	30.80	47.5	0.00	26	76	Sunny
5/21/2019	31.00	42.0	0.00	33	74	Sunny
5/22/2019	31.20	42.0	0.00	33	76	Sunny
5/23/2019	31.80	43.5	0.00	32	70	Sunny
5/24/2019	31.50	42.0	0.00	32	73	Sunny
5/25/2019	29.90	43.5	0.00	35	78	Sunny
5/26/2019	32.40	41.7	0.00	32	76	Sunny
5/27/2019	31.10	42.2	0.00	33	75	Sunny
5/28/2019	31.70	42.5	0.00	31	77	Sunny
5/29/2019	31.90	42.9	0.00	33	70	Sunny
5/30/2019	31.80	45.0	0.00	33	70	Sunny
5/31/2019	31.00	43.5	0.00	31	66	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 Thanjavur District. – Request Authority to advise/instruct the Competent Authority of Land Acquisition to speed up the process of disbursement of pending payment.

2. Permission from Local Authorities for procurement of Borrow Earth from Irrigation Tanks/Pond.

Sl. No	District	Taluk	Location/ Villages	Survey No	Area in Hectares	Date of Applied	Present Status
1	Cuddalore	kattumannar koil	Veeranam Lake - 01	189/1	4.8	-	
2	Cuddalore	kattumannar koil	Veeranam Lake - 02	189/1	4.9	-	
3	Cuddalore	kattumannar koil	Palayamkottai Kelpathi Lake	240	4.9	31.08.2018	Under Special Permission from PWD
4	Cuddalore	kattumannar koil	Kuruchikollai	122	4.8	-	-
5	Cuddalore	Kurinjipadi	Man Eri	2/1	4.5	20.07.2018	EC Clearance is pending
6	Cuddalore	kattumannar koil	Nelli Kolli	129	4.8	-	NOC Under Process
1	Ariyalur	Udayarpalayam	Kundavelly East	461	13.66.5	26.11.2018	EC Clearance received for 08 nos and approval from District Administrati on is pending
2	Ariyalur	Udayarpalayam	Thaluthalaimedu	118	28.15.5	26.11.2018	
3	Ariyalur	Udayarpalayam	Thaluthalaimedu	118	28.15.5	26.11.2018	
4	Ariyalur	Udayarpalayam	Muthuservamadam	125	6.29.5	26.11.2018	
5	Ariyalur	Udayarpalayam	Ulkottai North	320	19.66	26.11.2018	
6	Ariyalur	Udayarpalayam	Vempakkudi	110	12.69	26.11.2018	
7	Ariyalur	Udayarpalayam	Uthayanatham East	313-2A	6.83.5	26.11.2018	
8	Ariyalur	Udayarpalayam	Uthayanatham East	227, 231-3, 232	12.83.5	26.11.2018	
9	Ariyalur	Udayarpalayam	Ammannakkanthodi	66, 65, 104, 105, 106, 110, 112, 116, 123, 124	43.83.5	26.11.2018	
10	Ariyalur	Udayarpalayam	Ammannakkanthodi	57, 58, 59, 61, 62	19.07.5	26.11.2018	
11	Ariyalur	Udayarpalayam	Kuruvalaper kovil	1, 226, 227, 228, 427, 428, 429, 430, 431, 432, 433	38.62	26.11.2018	
12	Ariyalur	Udayarpalayam	Udayarpalayam	614-4B, 615-2, 616 - 1, 617, 610- 2B	10.03.5	26.11.2018	
13	Ariyalur	Udayarpalayam	Periya Eri, Papakudi	290	12.24	12.01.2018	
14	Ariyalur	Udayarpalayam	Eswarakulam, Papakudi	185	5.7	12.01.2018	

Sl. No	District	Taluk	Location/ Villages	Survey No	Area in Hectares	Date of Applied	Present Status
15	Ariyalur	Udayarpalayam	Pandiyan eri.	283	5.7	02.03.2019	Temporary permission received on 08.03.2019

3. 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).

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

5. 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.

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

7. NOC from PWD/WRO, Govt of Tamilnadu 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	1	3	
	Total	30	30	14	16	

8. 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.

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

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

11. 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

12. Additional land acquisition for Toll plaza location, Bus bays. Turning radius at Major junctions.

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

14. Removal of Religious structures of 19 Nos. and Bus stand from the proposed ROW.
15. Removal of Government Buildings like VAO office, School, Post Office & Ration Shop etc. in 12 nos. in Cuddalore district, 45 nos. in Ariyalur district & 14 Nos in Thanjavur District.
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	Vanamadevi	86+310	30 KL	Land yet to be finalized

19. Hindrances/Occupations/Land Acquisition issues in the following locations due to various reasons,

Sr. No.	From	To	Length	Description of Issues
1	065+070	066+000	930	Payment of compensation is not made to the concern Land owner of Mr. Giri and not allowing to take possession of land.
2	073+000	073+600	600	Payment of compensation is not made to the concern Land owner and not allowing to take possession of land.
3	073+600	074+100	500	Payment of compensation is not made to the concern Land owner of Mr.Venkatachalam and not allowing to take possession of land.

Sl No	Chainage		Name of the land owner	SF.No.	Name of the Village	Court Order reference no.
	From	To				
1.	78+400	79+000	Mrs.Sivasunthari	148/2B	Nandeeswaraman galam	W.P.No.17113/2018, W.P.No.17118/2018 & W.P.No.17114/2018 dated 10.07.2018
2.			Mr.S.Baskaran	148/1B1		
3.			Mr.Thamotharan	148/1B3		
4.			Mrs.S.Sebastiyam mal	143/1A1		
5.	113+200	113+600	Mr.A.R.Iqbal	177/2,177/4, 181/1,181/3, 183/3A	Thirupanandal	W.P.No.11852/2014 dated 22.07.2014
6.	74+590	74+610	Mr.Murugan	61/5	Kumarakudi	-

Table 10.1. Details of Important Events

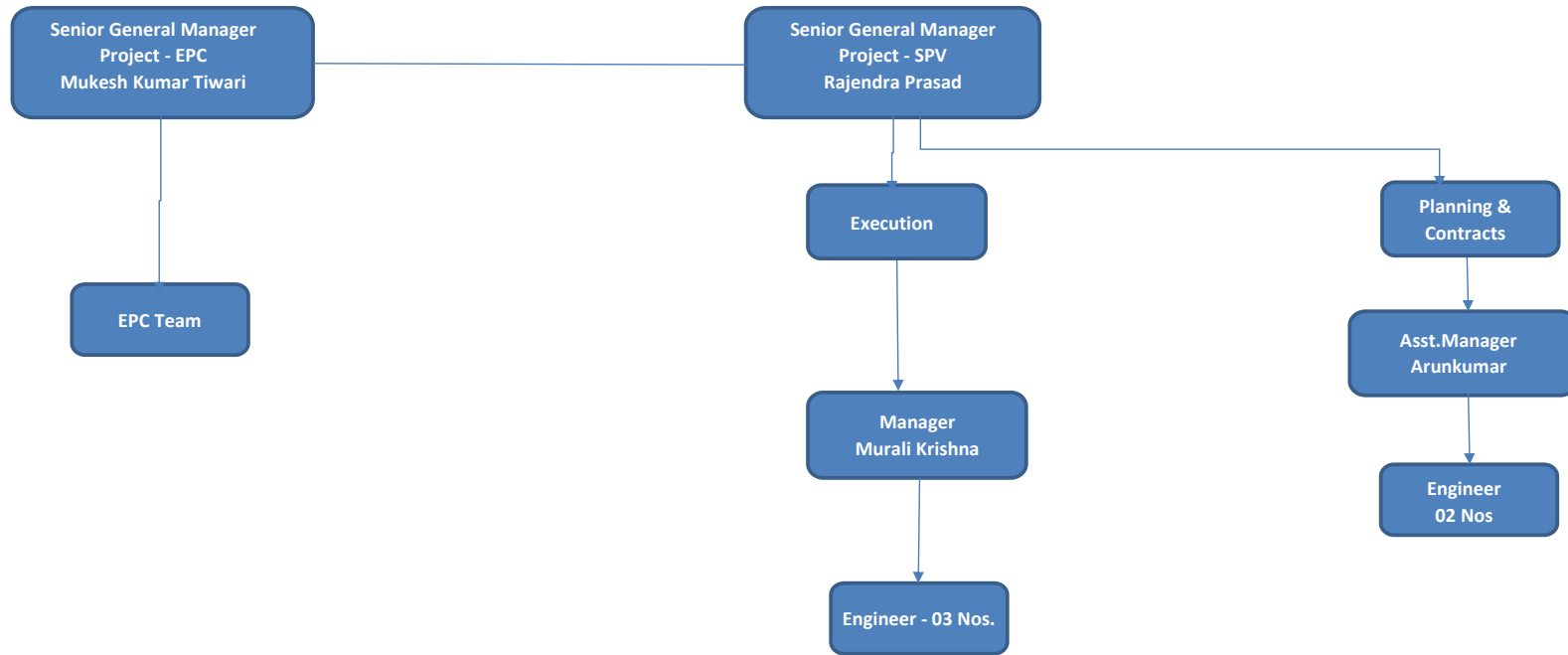
Sl. No	Date of Events	Description of Events	Remarks
1.	21.05.2019 & 22.05.2019	Factory inspection & testing of Geogrids of M/s Earthcon Systems (I) Ltd at New Delhi	

11. Organization Chart

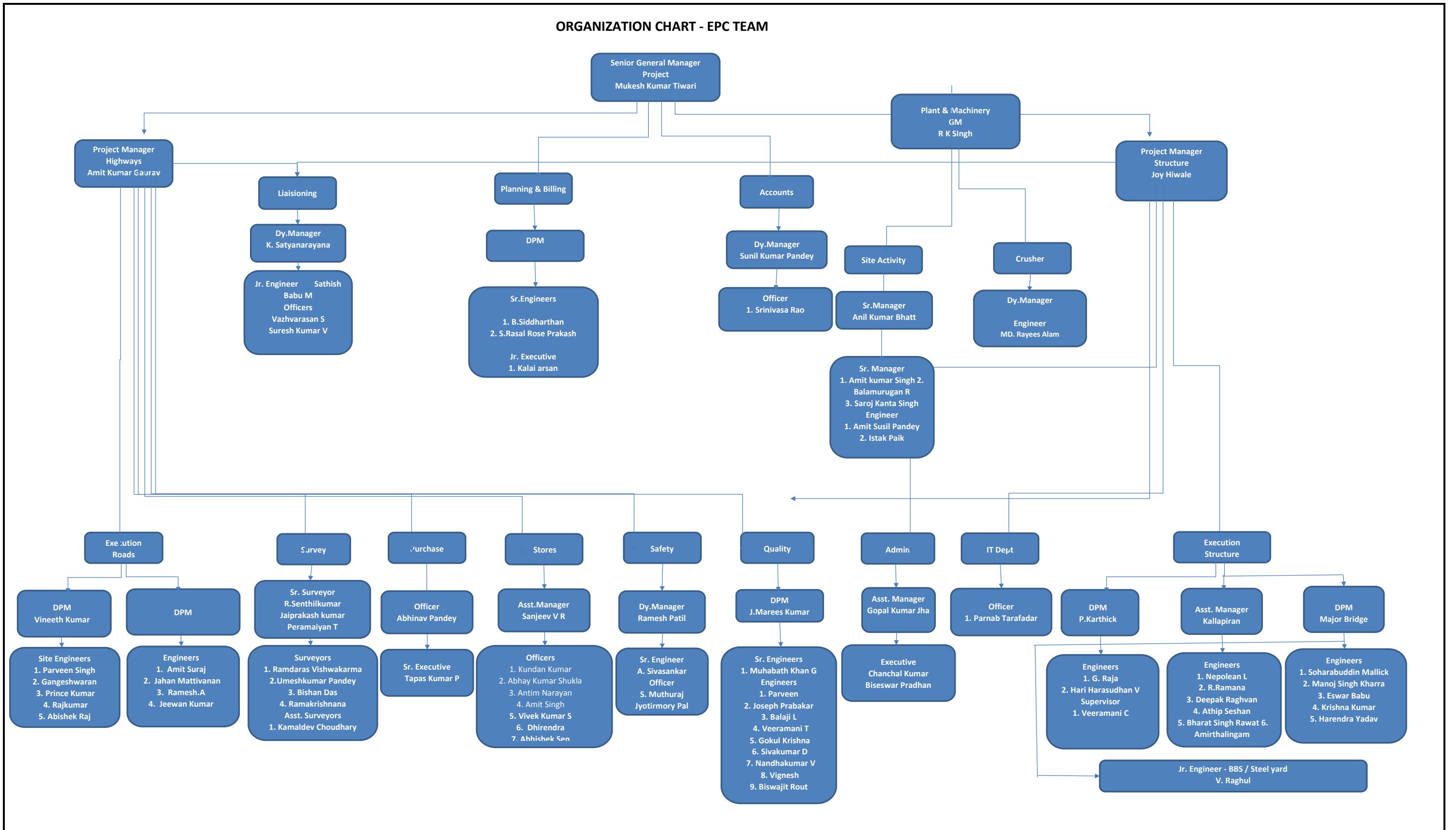
The following figures represents the organization structure of the EPC and SPV Team.

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

ORGANIZATION CHART - SPV TEAM



ORGANIZATION CHART - EPC 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	Erection in Progress
13	Wet Mix Plant	250 TPH	1	Erection in Progress
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	1 no. erected and 1 no. is in under erection.

13. Change of Scope Proposals

Table 13.1 - Status of Change of Scope Proposals					
Sl. No	Proposal Details	Date of Proposal	Current Status	COS Amount	Actual Date of Approval
1	Replacement of Pipe Culvert with box Culvert	25.04.2018	Approved in-principle by Authority. Preparation of Details Quantities in proper order is in Progress.	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/11019/59/2017/ 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

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	03.05.2019	PSCHPL/SCP/NHAI/2019/369	RA Bill No 4 -Shifting of water supply utilities as per clause 11.2.1 of Concession Agreement-Reg	
2	07.05.2019	PSCHPL/SCP/IE/2019/373	Request to release withheld GST amount of RA Bill 01 for shifting of water supply utilities	
3	07.05.2019	PSCHPL/SCP/IE/2019/374	Request to release the payment for RA Bill -02&03 for shifting of water supply utilities	
4	11.05.2019	PSCHPL/HO/SCP/PIU/006/2019	Submission of 1st mobilization advace bank guarantee	
5	14.05.2019	PSCHPL/SCP/NHAI/2019/382	Shifting of electrical utilities - Revised estimate requested - Reg	
6	18.05.2019	PSCHPL/SCP/IE/2019/384	Supplying of pondash from Ms Neyveli Lignite Corporation - Reg.	
7	21.05.2019	PSCHPL/SCP/NHAI/2019/388	Submission of EPF and ESIC paid challan - Request to release the withheld from the Utility shifting Bills -Reg.	
8	22.05.2019	PSCHPL/SCP/NHAI/2019/391	Finalization of Plan & profile drawings of proposed slip & service road - Reg.	
9	23.05.2019	PSCHPL/HO/SCP/PIU/007/2019	Submission of Extension for Performance Bank Guarantee for the work of "Four Laning of Sethiyahopu – Cholopuram in the state of Tamilnadu under NHDP Phase-IV on HAM."	

TABLE 14.2 - CORRESPONDANCE - NHAI TO CONCESSIONAIRE

S.No	Date	Letter No	Subject	Remarks
1	01.05.2019	NHAI/PIU/Thanj/11025/11 /2018/821	Extension of BG for performance security	
2	05.05.2019	NHAI/PIU/Thanj/11025/09 /2018/686	Allocation of land for shifting the Over Head Tanks - requested-reg	
3	09.05.2019	NHAI/PIU/Thanj/11025/08 /2018/851	Shifting of Electrical utilities like HT/LT Lines & structures in Ariyalur Division - Meensuriti section	
4	14.05.2019	NHAI/PIU/Thanj/11023/01/2009/868	Detailed instruction guidelines for payment against Electrical Utility shifting works.	
5	14.05.2019	NHAI/PIU/Thanj/11023/00/2009/874	Removal of storage tank along National Highways in the project site	
6	17.05.2019	NHAI/PIU/Thanj/11019/59/2017/913	Widening of existing box culvert at Km 110+ 785 - Change of scope proposal.	

TABLE 14.3 - CORRESPONDANCE - CONCESSIONAIRE TO INDEPENDENT ENGINEER

S.No	Date	Letter No	Subject	Remarks
1	29.04.2019	PSCHPL/SCP/IE/2019/365	Delay in Shifting of Water Supply Pipelines in Project Highway -Reg.	
2	30.04.2019	PSCHPL/SCP/IE/2019/366	Compliance to observations on submitted revised structure design & drawing of major bridge at design ch 107 + 400-Reg	
3	30.04.2019	PSCHPL/SCP/IE/2019/367	Utilization of utility duct along the national highways in urban areas-Reg	
4	03.05.2019	PSCHPL/SCP/IE/2019/370	Utility shifting works hampered due to various hindrances & obstructions along the project-Reg	
5	06.05.2019	PSCHPL/SCP/IE/2019/371	Hindrance obstructioin of religious structures along the project highway-Reg	
6	06.05.2019	PSCHPL/SCP/IE/2019/372	NOC required from Irrigation Dept for commencement of Construction of MNBs/MJBs-Reg	
7	09.05.2019	PSCHPL/SCP/IE/2019/375	Notice for occurence of force majeure political event under article 28, 28.4(a) of the concession agreement-Reg	
8	10.05.2019	PSCHPL/SCP/IE/2019/377	Submission of Change of scope proposal as per clause 16.2.2 of Concession Agreement for Strengthening upgrade the incident Management Service - Reg	
9	13.05.2019	PSCHPL/SCP/IE/2019/378	Submission of Revised Drawings of Major Bridge at design Ch. 107 + 400 - Reg	
10	14.05.2019	PSCHPL/SCP/IE/2019/379	Proposal of Earthcon systems for RE wall work - joint inspection requested	
11	14.05.2019	PSCHPL/SCP/IE/2019/380	Submission of Method statement for RE wall costruction using pond ash - Reg	
12	14.05.2019	PSCHPL/SCP/IE/2019/381	Submission of Soil Test reports for the borrow area no.16 - reg	
13	17.05.2019	PSCHPL/SCP/IE/2019/383	Crossing of irrigation canal at Km.113 + 372 request to issue the change of scope notice-Reg	
14	18.05.2019	PSCHPL/SCP/IE/2019/385	Hindrance/obstruction of Religious Structures along the Project Highway- Reg.	
15	18.05.2019	PSCHPL/SCP/IE/2019/386	Submission of Plan & Profile of SR & Slip road of the Project Highway	
16	20.05.2019	PSCHPL/SCP/IE/2019/387	Submission of Soil Test Reports for the Borrow Area No.15 - Reg.	
17	22.05.2019	PSCHPL/SCP/IE/2019/389	Video Recording as per the clause 13.6 of Concession Agreement-Reg.	
18	22.05.2019	PSCHPL/SCP/IE/2019/390	Submission of Soil Test Reports for the Borrow Area No.12 - Reg.	
19	23.05.2019	PSCHPL/SCP/IE/2019/392	Submission of factory inspection report-Ms Strata Geosystems (India) Pvt Ltd	
20	25.05.2019	PSCHPL/SCP/IE/2019/393	submission of compliance for design and drawing of major Bridge at Km 107 + 400 over the kollidam river	
21	28.05.2019	PSCHPL/SCP/IE/2019/394	Submission of revised drawings of pilecap abutment A1 (RHS) of Grade seperator at Km 69 + 785	

TABLE 14.4 - CORRESPONDANCE - INDEPENDENT ENGINEER TO CONCESSIONAIRE / NHAI

S.No	Date	Letter No	Subject	Remarks
1	02.05.2019	TES/IE/SCP/PIL/2019/282	Submission Plate load test reports for 02 nos minor bridges	
2	03.05.2019	TES/IE/SCP/PIL/2019/282A	Earth Preventive action report	
3	03.05.2019	TES/IE/SCP/PIL/2019/283	Safety	
4	03.05.2019	TES/IE/SCP/PIL/2019/284	Fly Ash	
5	07.05.2019	TES/IE/SCP/PIL/2019/285	Crossing of Irrigation canal at Km 113+372	
6	07.05.2019	TES/IE/SCP/PIL/2019/286	NOC required from Irrigation Dept for Commencement of Construction of MNBsMJBs	
7	07.05.2019	TES/IE/SCP/PIL/2019/287	Utility Shifting Works hampered due to the various hindrances Obstructions along the project highway	
8	07.05.2019	TES/IE/SCP/PIL/2019/288	Hindrance obstruction of religious structures along the project highway	
9	08.05.2019	TES/IE/SCP/PIL/2019/289	Staging work for MNB at km 74+605	
10	09.05.2019	TES/IE/SCP/PIL/2019/290	Submission of design for major bridges in excel format	
11	09.05.2019	TES/IE/SCP/PIL/2019/291	Stacking of HT Strands	
12	13.05.2019	TES/IE/SCP/PIL/2019/292	Period of compliance Report-Reg	
13	15.05.2019	TES/IE/SCP/PIL/2019/293	Submission of Revised design and drawings for VUPs at Km 72+545 (R4)	
14	15.05.2019	TES/IE/SCP/PIL/2019/295	Road Safety meeting held on 03.01.2019_Remedial measures to reduce accidents - decision taken-action requested	
15	15.05.2019	TES/IE/SCP/PIL/2019/296	Comments on MPR for the month of April 2019-Reg	
16	15.05.2019	TES/IE/SCP/PIL/2019/297	Observations on MJB at Km 107+400	
17	17.05.2019	TES/IE/SCP/PIL/2019/298	Deficiency in finishing works of structures-Reg	
18	20.05.2019	TES/IE/SCP/PIL/2019/299	Proposal of Borrow area no 16	
19	20.05.2019	TES/IE/SCP/PIL/2019/300	Proposal of Borrow Area No-07 EXTENSION NO 1-Reg	
20	22.05.2019	TES/IE/SCP/PIL/2019/301	Filter Media Mix Design-Reg	
21	22.05.2019	TES/IE/SCP/PIL/2019/302	Proposal of borrow area no 15	
22	23.05.2019	TES/IE/SCP/PIL/2019/303	Submission of staging design for MNB at Km 74+605- Reminder 1	
23	23.05.2019	TES/IE/SCP/PIL/2019/304	NCR NO.02 Lot of Honey Combs and Reinforcement exposed in the MNB at Km 79+795 LHS	
24	23.05.2019	TES/IE/SCP/PIL/2019/305	NCR NO 03 Improper Alignment of Abutment wall A2 for MNB at Km 85+435	
25	23.05.2019	TES/IE/SCP/PIL/2019/306	NCR NO 04 Lot of Honey combs in Pile Cap for Abutment A2 of VUP at Km 102+975 LHS	
26	25.05.2019	TES/IE/SCP/PIL/2019/307	Proposal of Borrow Area no 12	
27	25.05.2019	TES/IE/SCP/PIL/2019/308	Submission of Revised Drawings of Major Bridge at Km 73+340-Reg	
28	25.05.2019	TES/IE/SCP/PIL/2019/309	Pile Load tests in the Project	
29	25.05.2019	TES/IE/SCP/PIL/2019/310	Submission of Revised Design and Drawing of Minor Bridges 04 Nos-Reg	
30	27.05.2019	TES/IE/SCP/PIL/2019/311	Factory Inspection report for M/S Strata Geosystem	
31	29.05.2019	TES/IE/SCP/PIL/2019/312	Third party Laboratory tests for procured Material (Reminder-IV)	

15. Progress Photographs

Sl. No	Description	Location	Side	Remarks
1.	BOX CULVERT - SLAB COMPLETED	83+012	LHS	
2.	BOX CULVERT – SLAB COMPLETED	83+065	LHS	
				
Sl. No	Description	Location	Side	Remarks
3.	BOX CULVERT – SLAB COMPLETED	105+440	BHS	
4.	BOX CULVERT – SLAB COMPLETED	105+536	BHS	
				

Sl. No	Description	Location	Side	Remarks
5.	MINOR BRIDGE - SLAB COMPLETED	79+795	LHS	
6.	MINOR BRIDGE - SLAB COMPLETED	82+007	LHS	



Sl. No	Description	Location	Side	Remarks
7.	CURTAIN WALL EXCAVATION IN PROGRESS	85+144	LHS	
8.	MINOR BRIDGE- SLAB COMPLETED	85+435	LHS	



Sl. No	Description	Location	Side	Remarks
9.	VUP - ABUTMENT WALL COMPLETED	75+830	RHS	A1 Side
10.	VUP - ABUTMENT WALL COMPLETED	75+830	RHS	A2 Side



Sl. No	Description	Location	Side	Remarks
11.	VUP - ABUTMENT WALL COMPLETED	97+225	RHS	A1 Side
12.	VUP - ABUTMENT WALL COMPLETED	97+225	RHS	A2 Side



Sl. No	Description	Location	Side	Remarks
13	VUP - ABUTMENT CAP COMPLETED.	106+318	BHS	A1 & A2 Side
14	VUP - RCC GIRDER CASTING IN PROGRESS	106+318	-	



Sl. No	Description	Location	Side	Remarks
15	LVUP - WALL 1st LIFT COMPLETED	112+643	RHS	A1 & A2 Side
16	LVUP - RETAINING WALL 1st LIFT COMPLETED	112+643	RHS	A1 Side



Sl. No	Description	Location	Side	Remarks
17	GSI - PILE CAP COMPLETED	74+655	LHS	A1 Side
18	GSI - PILE CAP COMPLETED	74+655	RHS	A1 Side



Sl. No	Description	Location	Side	Remarks
19	GSI - PILE CAP COMPLETED	98+950	LHS	A1 Side
20	GSI - PILE CAP COMPLETED	98+950	LHS	P1 Side



Sl. No	Description	Location	Side	Remarks
21	GSI - ABUTMENT WALL COMPLETED	104+570	RHS	A1 Side
22	GSI - ABUTMENT WALL IN PROGRESS	104+570	LHS	A2 Side



Sl. No	Description	Location	Side	Remarks
23	MJB - PILE CHIPPING WORK IN PROGRESS	99+595	LHS	P2 Side
24	MJB - PILE WORK IN PROGRESS	99+595	LHS	P1 Side



Sl. No	Description	Location	Side	Remarks
25	EMBANKMENT WORK IN PROGRESS	74+180 to 74+330	LHS	
26	EMBANKMENT WORK IN PROGRESS	75+350 to 75+500	LHS	
				
Sl. No	Description	Location	Side	Remarks
27	EMBANKMENT WORK IN PROGRESS	76+400 to 77+200	LHS	
28	EMBANKMENT WORK IN PROGRESS	76+400 TO 77+200	RHS	
				

Sl. No	Description	Location	Side	Remarks
29	EMBANKMENT WORK IN PROGRESS	74+180 to 74+330	LHS	
30	EMBANKMENT WORK IN PROGRESS	75+350 to 75+500	LHS	
				
Sl. No	Description	Location	Side	Remarks
31	EMBANKMENT WORK IN PROGRESS	76+400 to 77+200	LHS	
32	EMBANKMENT WORK IN PROGRESS	76+400 TO 77+200	RHS	
				