



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
JULY 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 Meensurthy 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. The Project stretches passing through the 03 nos. of districts of Cuddalore, Ariyalur and Thanjavur.

Project Synopsis

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

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

Figure 1: Project Location Map

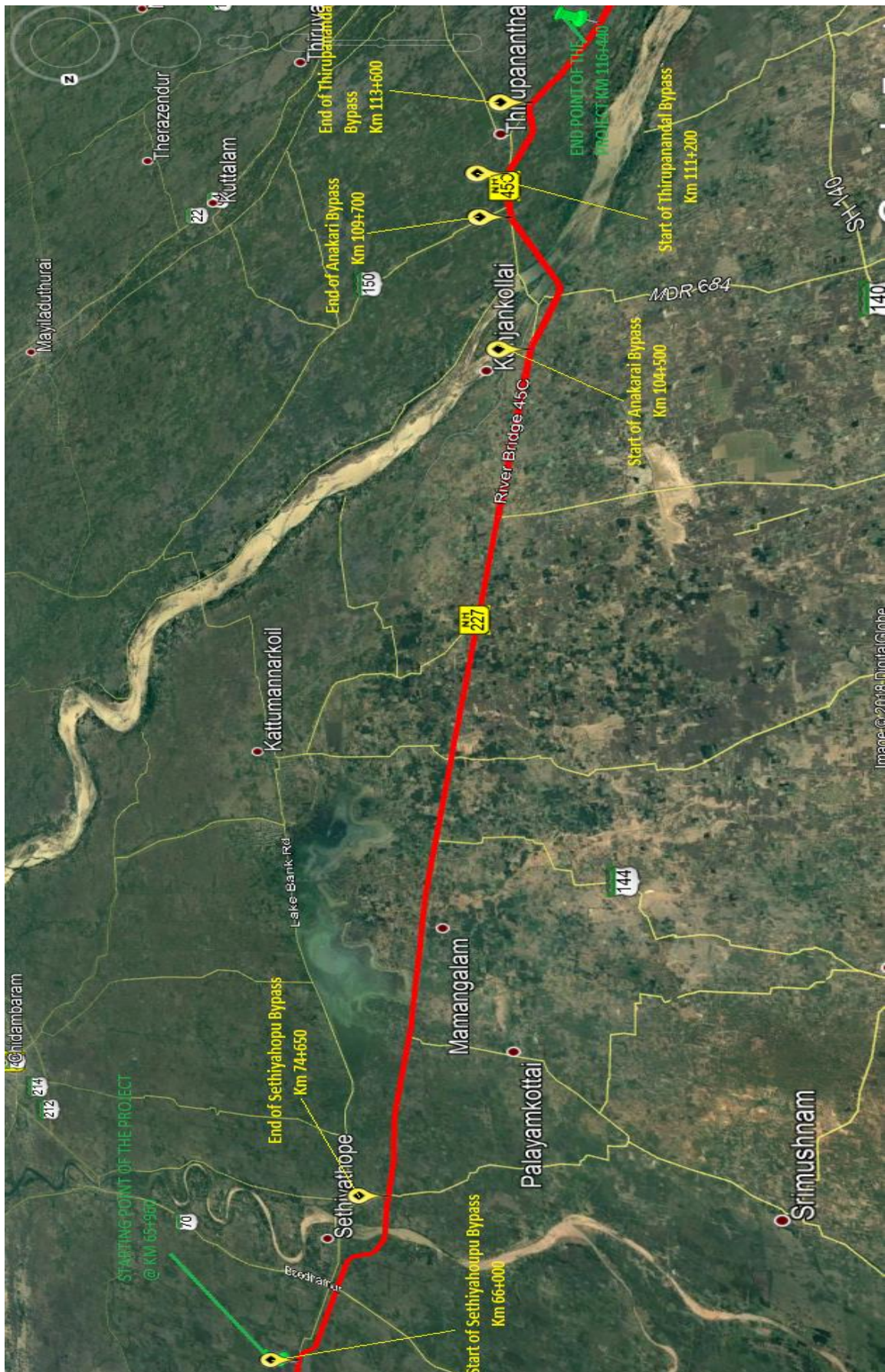
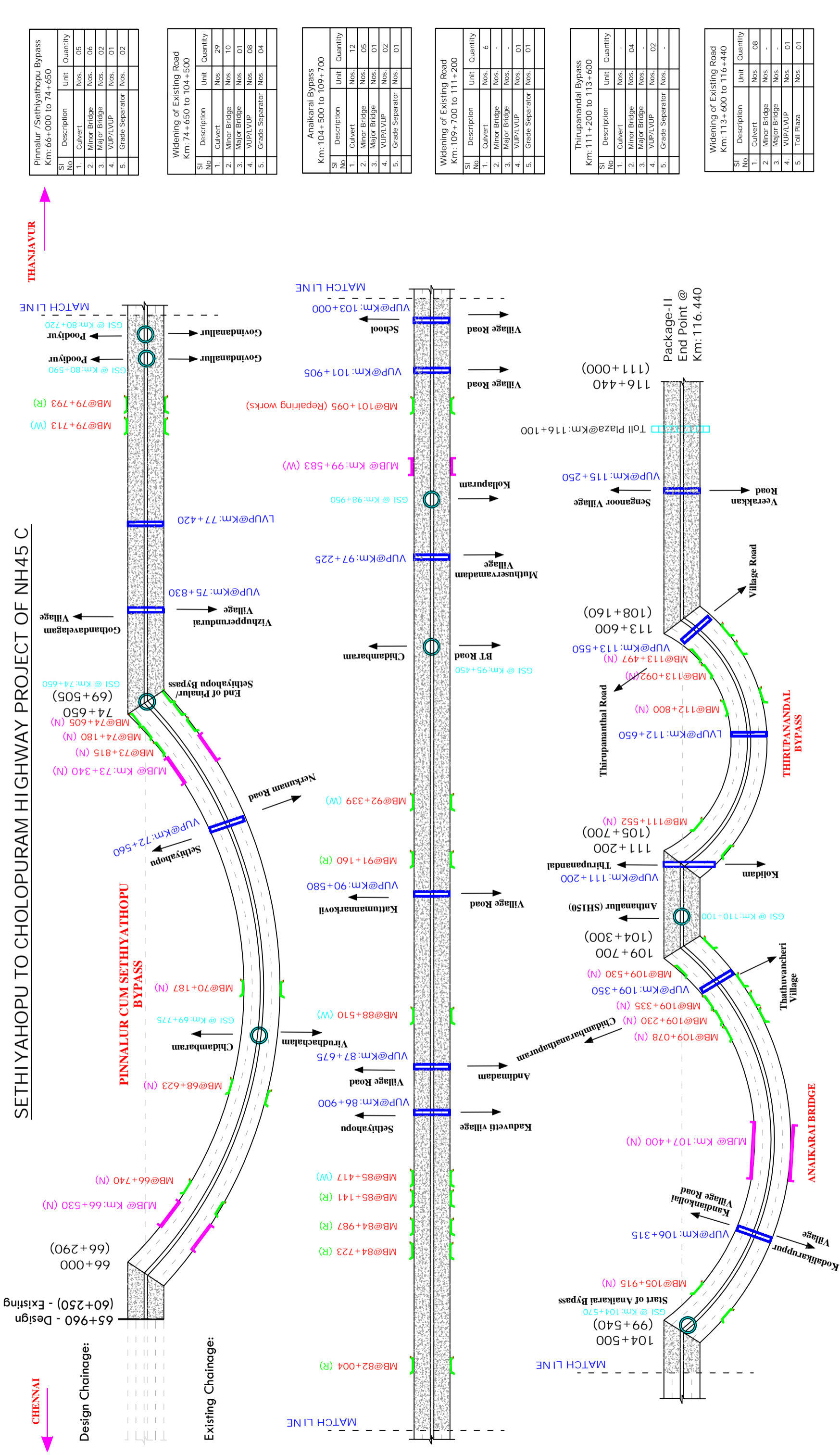


Figure 2: Project Alignment Map



THANJAVUR

CHENNAI

Design Chainage:

Existing Chainage:

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

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

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

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

Anaikarai Bypass
Km: 104+500 to 109+700

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

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

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

Thirupandanai Bypass
Km: 111+200 to 113+600

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

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

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

LEGEND:

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

Salient Features of Project:

SI No	Description	Unit	Scope
1.	Total Length of Project	Km	50.480
2.	Length of Widening Portion	Km	34.230
3.	Length of Bypass	Km	16.250
4.	Length of service/Slip Road	Km	27.100
5.	Culverts	Nos.	53
6.	Slab Culvert	Nos.	01
7.	Minor Bridge	Nos.	07
8.	Major Bridge	Nos.	25
9.	VUP/LVUP	Nos.	04
10.	Grade Separated Structure	Nos.	15
11.	Minor Intersection	Nos.	09
12.	Major Intersection	Nos.	07
13.	Bus Bays and Shelters	Nos.	09
14.	Toll Plaza	Nos.	01

Drawing Title

Strip Plan - Sethiyathopu to Cholapuram Highway Project

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

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	7.56	
2.	Payment Pending	Km	9.600	
3.	Existing Buildings	Km	4.505	
4.	Temple & Bus stand	Km	0.100	
5.	Electrical Lines	Km	2.155	
6.	Rural Water Supply lines	Km	19.84	
7.	NOC Irrigation Dept.	Km	1.960	
8.	Paddy/Cotton fields	Km	0	
9.	Trees	Km	0.736	
10.	Net Hindered Length (both Side)	Km	41.685	
C)	Total Project Length (both Side)	Km	100.96	
D)	% Hindered Length	%	41.288%	

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

The status of compensation disbursed is as below: -

Table 2.1-3: Compensation disbursement for land					
SL. No.	Name of the District	Total No. of Land cases	Amount paid (in Nos.)	Balance to be Paid (in Nos.)	Remarks
1	Cuddalore	710	566	144	
2	Ariyalur	355	287	68	
3	Thanjavur	102	91	11	
	Total in Nos.	1167	944	223	
		Total in %	80.89%	19.11%	

Table 2.1-4 - Compensation disbursement for Structures					
Sl. No.	Name of the District	Total No. of structures	Amount paid (in Nos.)	Balance to be Paid (in Nos.)	Remarks
1	Cuddalore	383	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 –

□ Details of Stretches Under Hindrance (RHS):-

Sr. No.	From	To	Length	Effective Hindered Length	Side	Remarks
1	066+100	066+260	160	160	RHS	Veeranam Pipe Line
2	066+700	067+300	600	600	RHS	Giri Land - Compensation Disbursement balance - Not allowed to work by the Land owner
3	068+550	068+620	70	70	RHS	Compensation Disbursement balance - Not allowed to work by owner
4	072+540	072+600	60	60	RHS	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	300	RHS	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	300	RHS	Compensation Disbursement balance - Not allowed to work by owner
9	074+680	074+930	250	250	RHS	RE Wall Location: RE wall A2/RHS side WIP, LHS side school compound wall payment pending, 01 statue and marriage hall to be removed. A1 side 01 building (Murugan) to be removed.
10	075+500	075+550	50	50	RHS	EB & Water Tap
11	075+550	076+120	570	570	RHS	RE Wall Location: RHS - 02 Building unpaid, 01 nos under revaluation & 01 nos paid and to be removed. LHS - 03 building under revaluation, 01 nos unpaid, EP Lines & Tnsformer.
12	076+120	076+150	30	30	RHS	EB, Water Tap & House

Sr. No.	From	To	Length	Effective Hindered Length	Side	Remarks
13	077+200	077+250	50	50	RHS	EB, Water Tap & House
14	077+250	077+590	340	340	RHS	RE Wall Location: RHS - Unauthorised 10 nos, EP Lines & 03 nos of Trees to be removed. LHS - 02 nos of unauthorised building Structure works not started.
15	077+590	077+800	210	210	RHS	EB, Water Tap & House
16	078+550	078+760	210	210	RHS	EB & Tree
17	079+700	080+180	480	480	RHS	Land, EB & House
18	080+180	081+090	910	910	RHS	RE Wall Location: Fully buildup area, payment made to all owners and not accepting to vacate. Need police force and requested DRO in this regards. Structure work not started.
19	081+090	081+120	30	30	RHS	Land, EB & House
20	083+400	084+200	800	800	RHS	Land, EB & House
21	085+800	086+200	400	400	RHS	Land, EB & House
22	086+400	086+610	210	210	RHS	Land, EB & House
23	086+610	087+180	570	570	RHS	RE Wall Location: RHS - 01 unauthorised building, 01 trees to be removed. LHS - 01 building unpaid and EP lines to be removed. Structure works not started.
24	087+390	087+960	570	570	RHS	RE Wall Location: RHS - 01 OHT, 01 unauthorised building, 01 Temple, LHS - EP Lines to be removed. Structure works not started.
25	088+150	088+220	70	70	RHS	EB & Transformer
26	088+870				RHS	Temple
27	089+930	090+265	335	335	RHS	EB, Temple & Transformer
28	090+265	090+865	600	600	RHS	RE Wall Location
29	091+120	091+170	50	50	RHS	Power Grid Main Gate
30	091+580	091+780	200	200	RHS	House, EB & Water Tap
31	092+750	093+750	1000	1000	RHS	House, EB & Water Tap
32	095+050	095+065	15	15	RHS	House, EB & Fencing Wire
33	095+065	095+835	770	770	RHS	RE Wall Location: RHS - Polie station arch, Hounse compound wall, 01 building, 01 Temple, LHS - School compound wall,02 building under revaluation, 01 trees and 14 nos o commerical building(shops) & EP poles to be removed.
34	095+835	096+400	565	565	RHS	House, EB & Water Tap
35	096+940	097+505	565	565	RHS	RE Wall Location: RHS - 02 nos of Building unpaid, 04 nos under revaluation, 01 shop buldings to be removed. LHS - 01 building under revaluation & 01 building paid to be dismantled.
36	097+950	098+200	250	250	RHS	Land, EB & House
37	098+500	098+565	65	65	RHS	Land, EB & House
38	098+565	099+305	740	740	RHS	RE Wall Location: RHS - 01 transformer, 01 Temple, 02 unpaid building, 07 shops to be removed. EP lines to be removed. LHS - 02 building compound wall, school compound wall, 02 shops to be removed and OHT to be removed.
39	099+305	099+400	95	95	RHS	Land, EB, Water Tap & House
40	099+500	099+900	400	400	RHS	Land, EB, Water Tap & House

Sr. No.	From	To	Length	Effective Hindered Length	Side	Remarks
41	099+900	100+300	400	400	RHS	Land, EB, Water Tap & House
42	100+300	101+600	1300	1300	RHS	Land, EB, Water Tap & House
43	101+600	101+620	20	20	RHS	Land, EB, Water Tap & House
44	101+620	102+195	575	575		RE Wall Location: Fully unpaid buildup area, 3D completed recently and payment was not made to the owners.
45	102+195	102+230	35	35	RHS	Land, EB, Water Tap & House
46	102+230	102+700	470	470	RHS	Land, EB, Water Tap & House
47	102+700	102+715	15	15	RHS	Land, EB, Water Tap & House
48	102+715	103+285	570	570	RHS	RE Wall Location: Fully unpaid buildup area, 3D completed recently and payment was not made to the owners.
49	103+285	103+320	35	35	RHS	Land, EB, Water Tap & House
50	103+320	104+190	870	870	RHS	Land, EB, Water Tap & House
51	104+190	104+500	310	310	RHS	RE Wall Location: A1/LHS - Marriage hall to be removed(under revaluation) & EP lines to be removed.
52	109+500	109+700	200	200	RHS	Compensation Disbursement balance - Not allowed to work by owner
53	109+700	110+485	785	785	RHS	RE Wall Location: RHS - 01 Temple, 02 building & 01 shops to be removed - Police force requested. LHS - 04 unpaid buildings
54	110+485	110+920	435	435	RHS	Land, EB, Water Tap & House
55	110+920	111+200	280	280	RHS	RE Wall Location: RHS - 02 nos. of buildings to be removed - Police force requested. LHS - Land & borewell payment pending, bus stop to be removed.
56	113+250	113+450	200	200	RHS	Temple Land, Local not allowing to Work
57	113+600	113+820	220	220	RHS	RE Wall Location: Under relocation proposal due to hindrance of substation.
58	113+820	114+650	830	830	RHS	Power Sub Station, Land, Water Tap & EB
59	114+865	115+630	765	765	RHS	RE Wall Location: Electrical poles to be removed
60	115+630	116+440	810	810	RHS	OHT, Shop, Light Pole, Houses
Total Hindered Length RHS (Km.)				22.215		

□ **Details of Stretches Under Hindrance (LHS):-**

Sr. No.	From	To	Length	Effective Hindered Length	Side	Remarks
1	066+100	066+260	160	160	LHS	Veeranam Pipe Line
2	066+700	067+300	600	600	LHS	Giri Land - Compensation Disbursement balance - Not allowed to work by the Land owner
3	068+550	068+620	70	70	LHS	Compensation Disbursement balance - Not allowed to work by owner
4	072+540	072+600	60	60	LHS	Compensation Disbursement balance - Not allowed to work by owner
5	072+600	072+700	100	100	LHS	Compensation Disbursement balance - Not allowed to work by owner
6	072+800	073+100	300	300	LHS	Compensation Disbursement balance - Not allowed to work by owner
7	073+700	073+800	100	100	LHS	Compensation Disbursement balance - Not allowed to work by owner

Sr. No.	From	To	Length	Effective Hindered Length	Side	Remarks
8	073+900	074+200	300	300	LHS	Compensation Disbursement balance - Not allowed to work by owner
9	074+680	074+930	250	250	LHS	RE Wall Location: RE wall A2/RHS side WIP, LHS side school compound wall payment pending, 01 statue and marriage hall to be removed. A1 side 01 building (Murugan) to be removed.
10	075+500	075+550	50	50	LHS	EB, Water Tap & Pond
11	075+550	076+120	570	570	LHS	RE Wall Location: RHS - 02 Building unpaid, 01 nos under revaluation & 01 nos paid and to be removed. LHS - 03 building under revaluation, 01 nos unpaid, EP Lines & Transformer.
12	076+120	076+150	30	30	LHS	EB, Water Tap & House
13	077+000	077+250	250	250	LHS	EB, Water Tap & House
14	077+250	077+590	340	340	LHS	RE Wall Location: RHS - Unauthorised 10 nos, EP Lines & 03 nos of Trees to be removed. LHS - 02 nos of unauthorised building. Structure works not started.
15	077+590	077+800	210	210	LHS	EB, Water Tap & House
16	078+600	078+700	100	100	LHS	House & EB
17	079+700	080+180	480	480	LHS	Land, EB & House
18	080+180	081+090	910	910	LHS	RE Wall Location: Fully buildup area, payment made to all owners and not accepting to vacate. Need police force and requested DRO in this regards. Structure work not started.
19	081+090	081+200	110	110	LHS	Land, EB & House
20	083+400	084+200	800	800	LHS	Land, EB & House
21	084+450	084+550	100	100	LHS	Land, EB & House
22	085+800	086+610	810	810	LHS	Land, EB & House
23	086+610	087+180	570	570	LHS	RE Wall Location: RHS - 01 unauthorised building, 01 trees to be removed. LHS - 01 building unpaid and EP lines to be removed. Structure works not started.
24	087+390	087+960	570	570	LHS	RE Wall Location: RHS - 01 OHT, 01 unauthorised building, 01 Temple., LHS - EP Lines to be removed. Structure works not started.
25	089+000	090+000	1000	1000	LHS	Land, EB & House
26	090+220	090+265	45	45	LHS	House & Hut
27	090+265	090+865	600	600	LHS	RE Wall Location
28	091+640	091+860	220	220	LHS	House, EB & Water Tap
29	092+750	093+400	650	650	LHS	House, EB & Water Tap
30	094+650	094+800	150	150	LHS	House, EB & Fencing Wire
31	095+050	095+065	15	15	LHS	House, EB & Fencing Wire
32	095+065	095+835	770	770	LHS	RE Wall Location: RHS - Polie station arch, House compound wall, 01 building, 01 Temple, LHS - School compound wall, 02 building under revaluation, 01 trees and 14 nos of commercial building (shops) & EP poles to be removed.

Sr. No.	From	To	Length	Effective Hindered Length	Side	Remarks
33	096+940	097+505	565	250	LHS	RE Wall Location: RHS - 02 nos of Building unpaid, 04 nos under revaluation, 01 shop buildings to be removed. LHS - 01 building under revaluation & 01 building paid to be dismantled.
34	097+900	098+100	200	200	LHS	Land, EB & House
35	098+500	098+565	65	65	LHS	Land, EB & House
36	098+565	099+305	740	250	LHS	RE Wall Location: RHS - 01 transformer, 01 Temple, 02 unpaid building, 07 shops to be removed. EP lines to be removed. LHS - 02 building compound wall, school compound wall, 02 shops to be removed and OHT to be removed.
37	099+305	099+400	95	95	LHS	Land, EB, Water Tap & House
38	099+500	099+900	400	400	LHS	Land, EB, Water Tap & House
39	099+900	100+300	400	400	LHS	Land, EB, Water Tap & House
40	100+300	101+600	1300	1300	LHS	Land, EB, Water Tap & House
41	101+600	101+620	20	20	LHS	Land, EB, Water Tap & House
42	101+620	102+195	575	250	LHS	RE Wall Location: Fully unpaid buildup area, 3D completed recently and payment was not made to the owners.
43	102+195	102+230	35	35	LHS	Land, EB, Water Tap & House
44	102+230	102+700	470	470	LHS	Land, EB, Water Tap & House
45	102+700	102+715	15	15	LHS	Land, EB, Water Tap & House
46	102+715	103+285	570	250	LHS	RE Wall Location: Fully unpaid buildup area, 3D completed recently and payment was not made to the owners.
47	103+285	103+320	35	35	LHS	Land, EB, Water Tap & House
48	103+320	104+190	870	870	LHS	Land, EB, Water Tap & House
49	104+190	104+500	310	250	LHS	RE Wall Location: A1/LHS - Marriage hall to be removed (under revaluation) & EP lines to be removed.
50	109+500	109+700	200	200	LHS	Compensation Disbursement balance - Not allowed to work by owner
51	109+700	110+485	785	250	LHS	RE Wall Location: RHS - 01 Temple, 02 building & 01 shops to be removed - Police force requested. LHS - 04 unpaid buildings
52	110+485	110+920	435	435	LHS	Land, EB, Water Tap & House
53	110+920	111+200	280	250	LHS	RE Wall Location: RHS - 02 nos. of buildings to be removed - Police force requested. LHS - Land & bore well payment-pending, bus stop to be removed.
54	113+250	113+450	200	200	LHS	Temple Land, Local not allowing to Work
55	113+600	113+820	220	220	LHS	RE Wall Location: Under relocation proposal due to hindrance of substation.
56	113+820	114+000	180	180	LHS	Land, EB, Water Tap & House
57	114+450	114+650	200	200	LHS	OHT, Shop, Light Pole, Houses
58	114+865	115+630	765	250	LHS	RE Wall Location: Electrical poles to be removed
59	115+630	116+440	810	810	LHS	OHT, Shop, Light Pole, Houses
Total Hindered Length LHS (Km.)				19.440		

Table 2.1.6 - Hindrance Photographs







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

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
		Bore & Pump Set	72+950					
			73+400		HT Line Tower	20		
			73+450		Bore Well, Pump Set & Tree EB Pole	50		
			74+500		Bore Well			
		Telephone Poles	74+710	74+850	Telephone Poles			2 - Telephone Pole
		Temple, Hand Pump,	74+710					
		Hut	75+210					
		Huts	75+270	75+350	Huts			
		Flag Poles	75+390					
			75+520		Huts			
			75+560		Huts			
			75+565	75+640	Pond			
		Building	75+640					
















Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
			75 + 650		Temple			
			75 + 660		Water Tap			
		Building	75 + 680					
			75 + 700		OFC			
		Bore Well & Water Tank	75 + 700					
		Kothanda vilagam Village	75 + 700	76 + 200	Kothanda vilagam Village			
		Hand Pump	75 + 710					
		Water Tap	75 + 810					
		Street Light	75 + 840					
		Flag Pole	75 + 840		Existing Culvert			
		Water Tap	75 + 880					
		Bore Well & Water Tank	76 + 025					
		Pump Set	76 + 260					
















Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
			76+600		Temple			
			76+695		OFC & Compound Wall			
			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				
		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			
		Water Tap	77+975					
			78+120		OFC			
			78+390		EB Pole, Bore Well			
			78+725		Transformer			
			79+080		OFC			
		Hand Pump	79+105					


Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
		Existing Culvert	79+110					
			79+220		Flag Pole			
		Water Tank & Motor Room	79+240					
			79+260		OFC			
			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					








Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
		Flag Poles	80+530	80+570	Flag Poles			6nos
			80+710		Existing Culvert			
		Bore Well	80+740					
			80+900		OFC			
			81+325	81+360	Existing Culvert & Compound Wall			
		Pond	81+360	81+460				
		OFC & Temple	81+445					
			81+585		OFC			
		Transformer	81+715					
			82+875		Existing Culvert			
			82+890		OFC			
		Existing Culvert	82+975					
	450	Water Tap	83+000	83+500	Water Tap	450		Tap - 6













Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
			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					
			83+890		Flag Poles			4 nos
			83+935		Water Tank			
			83+995		Hand Pump			














Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
		Temple & Well	84+070					
			84+110		OFC & Flag Pole			
			84+280		Transformer			
		Transformer	84+480					
			84+560		Flag & Ex Culvert			Pole 2 Nos
			84+650		OFC			
			84+920		OFC			
		Building	84+930	84+980				
		Hut	85+045					
			85+060		EB, Transformer			
			85+090		OFC			
		Transformer	85+865					
		Building	85+910					
















Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
		Hut	85 + 930					
			85 + 955		Temple			
			86 + 280		Temple			
			86 + 350		Bore Well			
		Temple	86 + 390					
			86 + 585		Motor Room			
		Buildings	86 + 000	86 + 700	Buildings			
	700	Building & Huts	86 + 700	87 + 500	Building & Huts	700		
			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+835		Water Tank			
			87+990		OFC			
			88+225		Transformer			

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
		House	88+500	89+000	House			
			88+910		Temple			
		Existing Culvert	88+965					
	450	water Tap, Telephone Pole	89+000	89+500	water Tap, Telephone Pole	450		Tap - 15, T Pole - 5, Tree - 195
		Flag Post Pedestal	89+110					
			89+355		Temple			
		Water Tank	89+515					
	400	EB Pole, Water Tap, House	90+000	90+500	EB Pole, Water Tap, House	400		EB - 34, Tap - 4
			90+180		Transformer			
			90+195		OFC			
			90+230		Transformer			
			90+325		Temple			
			90+375		Existing Culvert			

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	400	EB Pole, Telephone Pole, Water Tap	90+500	91+000	EB Pole, Telephone Pole, Water Tap	400		EB - 14, Tap - 5, T. Pole 7
			90+560		OFC			
			90+610		Water Tank			
			90+830	90+860	Pond			
			91+080		OFC			
			91+480		OFC			
	450	EB Pole, Water Tap, Telephone Pole, Trees	91+500	92+000	EB Pole, Water Tap, Telephone Pole, Trees	450		
			91+600		OFC			
			91+730		OFC			
			91+780		Temple			
		Pond	91+780	91+860				
	700	EB Pole, Water Tap, Telephone Pole	92+000	93+000	EB Pole, Water Tap, Telephone Pole	700		EB - 16, Tap - 10, T. Pole - 7
		Temple	92+135					















Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
			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			
			93+660		OFC			

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
			93+930		Hand Pump			
			93+975		OFC			
		TEMPLE	94+440					
			94+530		OFC			
			94+780		OFC, Transformer			
		Pond, Pipe Line	94+830	94+900				
	450	EB Pole, Tape, Telephone Pole	95+000	95+500	EB Pole, Tape, Telephone Pole	450		EB - 16, T Pole - , Tap 5
			95+130	95+230	Compound Wall			
			95+210		Telephone Panel, Water Tank With Well			
			95+255		Police Station Arch			
			95+290		OFC			
			95+435		Street Light			
	400	EB Pole, Tape, Telephone Pole	95+500	96+000	EB Pole, Tape, Telephone Pole	400		EB - 25, T Pole - 7, Tap - 6,

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

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















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
















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


Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
		OFC	102+435					
		OFC	102+575					
		OFC	102+730					
		School Arch	102+960					
	800	Tape, Telephone Pole	103+000	104+000	Tape, Telephone Pole	800		T Pole - 2, Tap - 13
		OFC	103+025					
		Pond	103+090	103+300				
		OFC	103+530					
			103+590		Temple			
		OFC & Flag Pole	103+720					
		Pond	103+775	103+815				
			103+860	103+910	Pond			
		Pond	103+935	104+250				

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

















Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
			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			
		Gate Valve	111+500					
		Motor Room With Bore	111+600					
			111+680		Motor Room With Bore			
		Motor Room With Bore	112+300					

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
			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			
			114+090		Flag Pole, Water Tank			
		HT Line	114+130					
		Transformer	114+460					
		Water Tank	114+450					

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
		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
			115+650		Motor Room			
		OFC	115+820					
		Transformer	115+970					
		OFC	116+095					

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
		OFC	116+170					
		Hand Pump	116+200					
		Water Tank & Motor Room	116+210					
		OFC	116+275					
		OFC	116+410					
			116+560		Flag Pole			
		House	115+600	116+440	House			

2.2. Removal of Religious Structures

The following structures coming within the ROW are to be demolished

Sl No.	Name of the District	Total No. Of structures	Removed as on Date (in Nos.)	Balance (in Nos.)
1	Cuddalore	10	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 are paid and work in progress
2	Ariyalur	86+440	106+860	20.42	5	Estimate Approved	
3	Thanjavur	106+860	116+440	9.58	5	Estimate Approved	
4	Cuddalore & Thanjavur	Km:70+020, Km:73+470 and Km:113+720			3	Estimate Approved	Supervision Charges paid

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

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

Table 2.3-3: Status of Utility Relocation

Sl. No.	Authority	Description	Unit	Total Length/ Nos.	Work done	Balance	Remarks
1	BDO & EE,TWAD	Water Supply Pipe Line	Kms.	72.695	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	9 Nos Completed	6	
4	TNEB	Electrical Lines	Kms.	6.83	4.675	2.155	

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	6.299	0.236	19	Permission is awaited for removal of 123 nos of teak wood trees.
2	Ariyalur	86+440	106+860	20.42	8.385	8.225	0.160	42	
3	Thanjavur	106+860	116+440	9.58	2.515	2.225	0.290	40	
Total				50.48	17.435	16.749	0.686	101	

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 July 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	30.340	0.030	30.370	0	16.91	64.23%
	RHS	47.28	28.510	0.320	28.830	0	18.45	60.98%
2	Embankment							
	LHS	47.28	8.22	1.010	9.230	9.88	38.05	19.52%
	RHS	47.28	4.80	0.700	5.500	11.23	41.78	11.63%
3	Sub grade							
	LHS	47.28	7.17	0	7.17	1.19	40.11	15.16%
	RHS	47.28	1.33	0	1.33	3.03	45.95	2.81%
4	GSB/ Cement Treated Base							
	LHS	47.28	5.73	0	5.73	1.22	41.55	12.12%
	RHS	47.28	0	0	0.00	0.72	47.28	0.00%
5	Wet Mix Macadam							
	LHS	47.28	0	3.79	3.79	0	43.49	8.02%
	RHS	47.28	0	0	0.00	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	1.63	2.67	4.30	1.23	48.89	8.08%
2	Sub grade	53.19	0.50	3.00	3.50	0.60	49.69	6.58%
3	GSB/ Cement Treated Base	53.19	0	0.50	0.50	0.20	52.69	0.94%
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	8.5	24	27.5
2	Light Vehicular Underpass	2	0	1	1
3	Vehicular Underpass	13	0	9	4
4	Minor Bridges	25	6	14	5
5	Major Bridge	4	0	3	1
6	Flyover	8	0	5	3

The Physical Progress of the Project up to July 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 31.07.2019	% 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	8.50	1.208%
	(2) Granular work (sub-base, base, shoulders)	Km					
	(a) GSB/ Cement Treated Base	Km	65.52	2.873%	380,125,589	5.73	0.251%
	(b) WMM/ Cement Treated Base	Km	65.52	3.546%	469,110,512	3.79	0.205%
	(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	0.5	0.014%
	(7) Widening and repair of minor bridges	Nos.	4	0.959%	126,889,505	1	0.240%
	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							

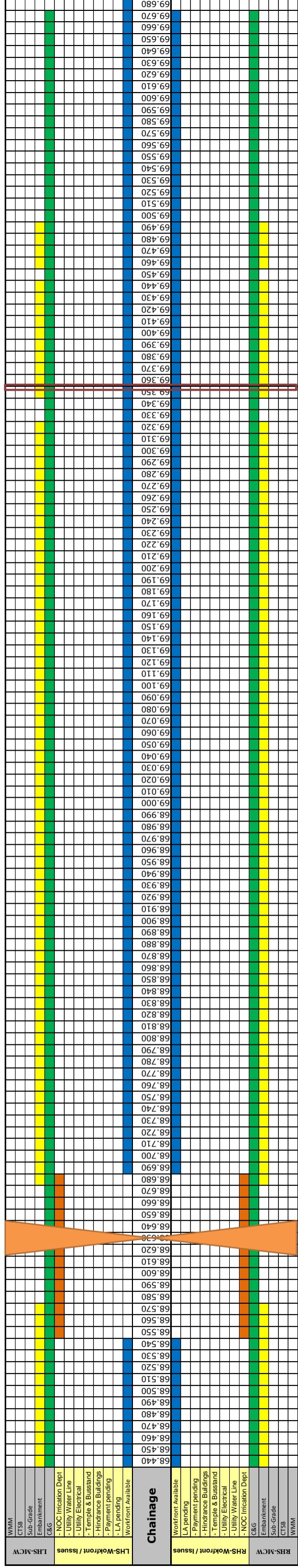
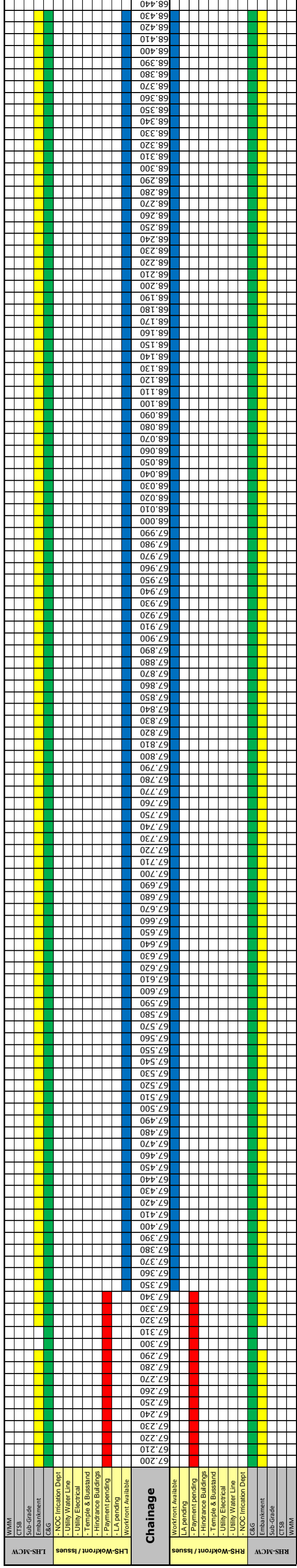
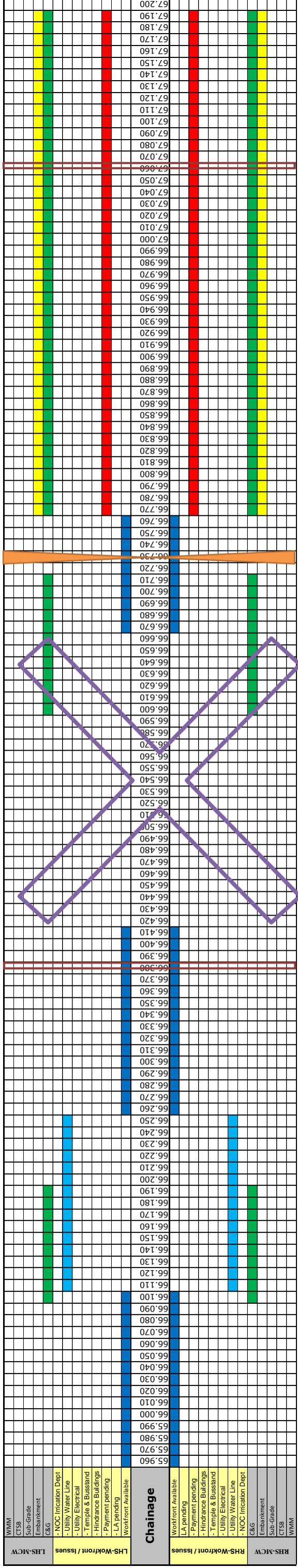
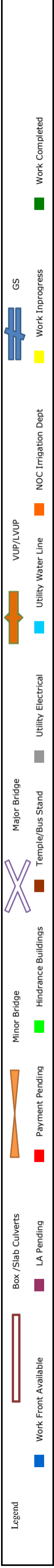
	(a) DBM	Km	28.68	1.656%	219,132,172		
	(b) BC	Km	28.68	0.781%	103,340,561		
	(5) Rigid Pavement						
	C- New culverts, minor bridges, underpasses, overpasses on existing road, realignments, bypasses:						
	(1) Culverts	Nos.	44	1.570%	207,725,198	8.5	0.303%
	(2) Minor bridges						
	(a) Foundation	Nos.	58	1.453%	192,185,204	23	0.576%
	(b) Substructure	Nos.	134	2.423%	320,544,497	45	0.814%
	(c) Superstructure (including crash barrier etc. complete)	Nos.	50	1.559%	206,310,836	13	0.405%
	(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	11	0.138%
	(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	1	0.013%
	(iii) Superstructure (including crash barrier etc. complete)	Nos.	20	1.744%	230,794,019		
	(d) Foot over Bridge						
Major Bridge works and ROB/RUB	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%				

	(a) Open Foundation			0.000%			
	(b) Pile Foundation/ Well Foundation	Nos.	84	5.289%	699,701,550	15	0.944%
	(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	14616	0.679%
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	1.000	0.188%
	(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	56%	4.497%
		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

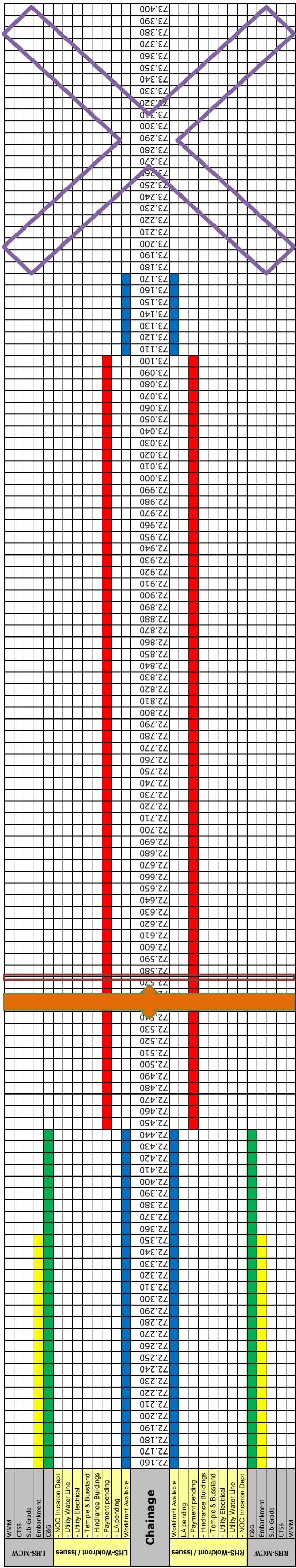
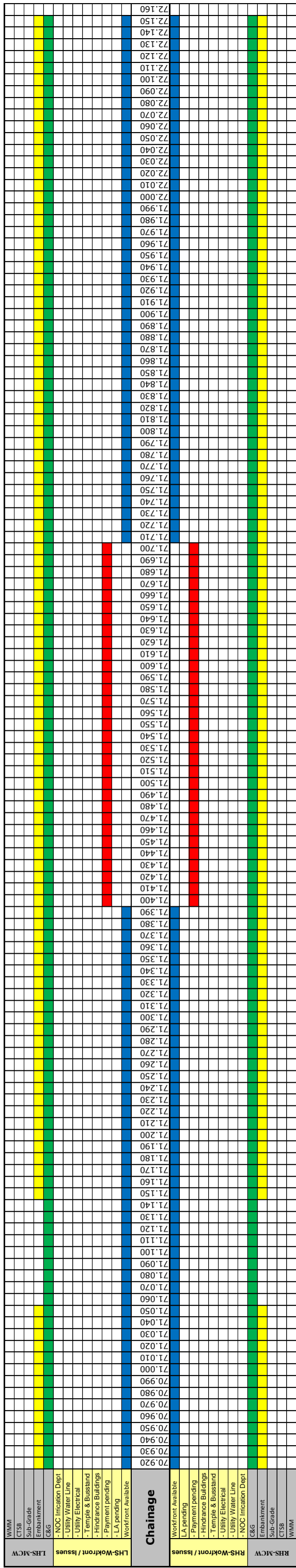
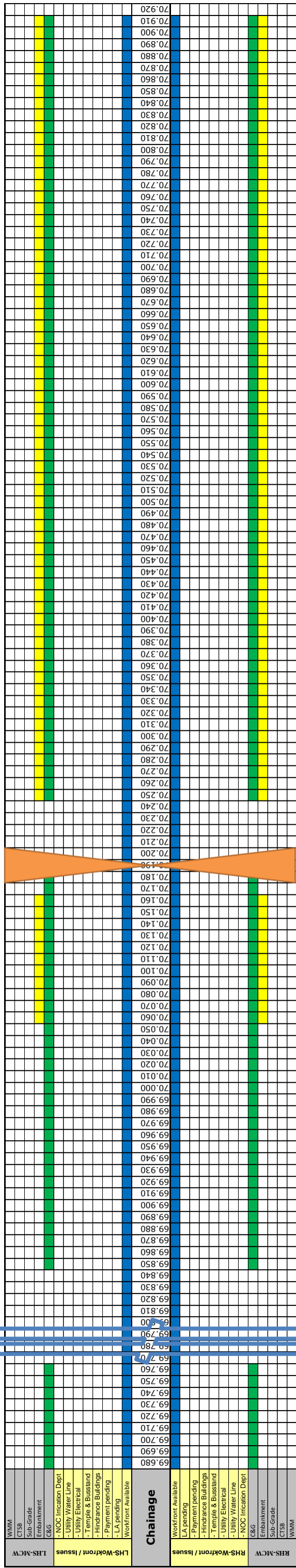
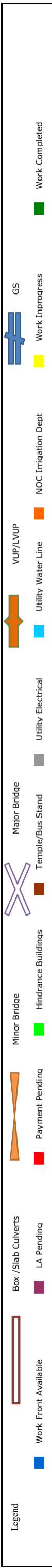
Strip Plan for MCW on 31-07-2019



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

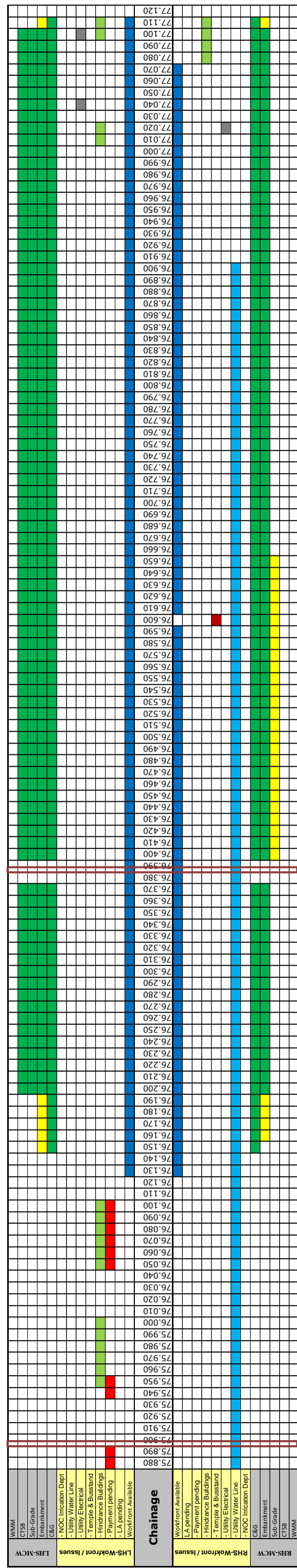
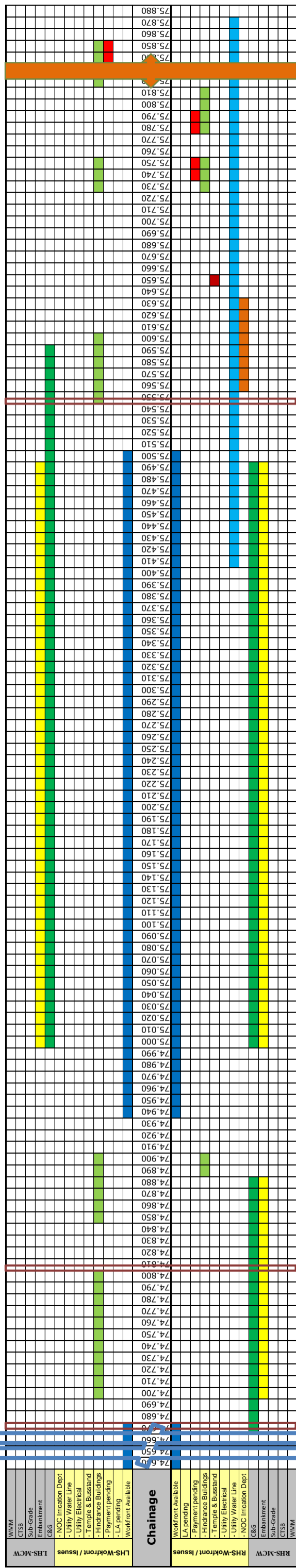
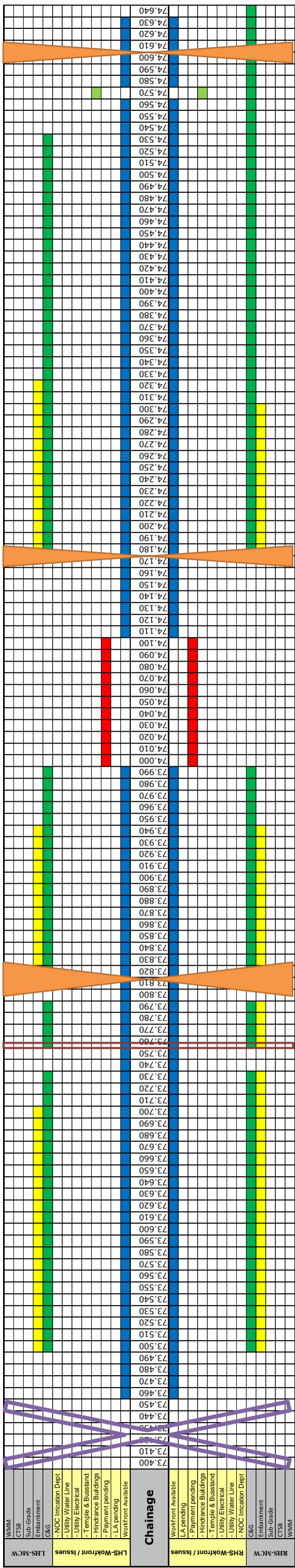
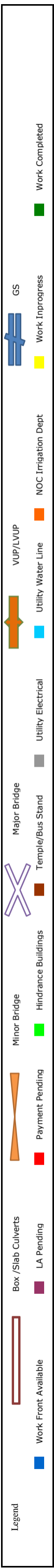
Strip Plan for MCW on 31-07-2019



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

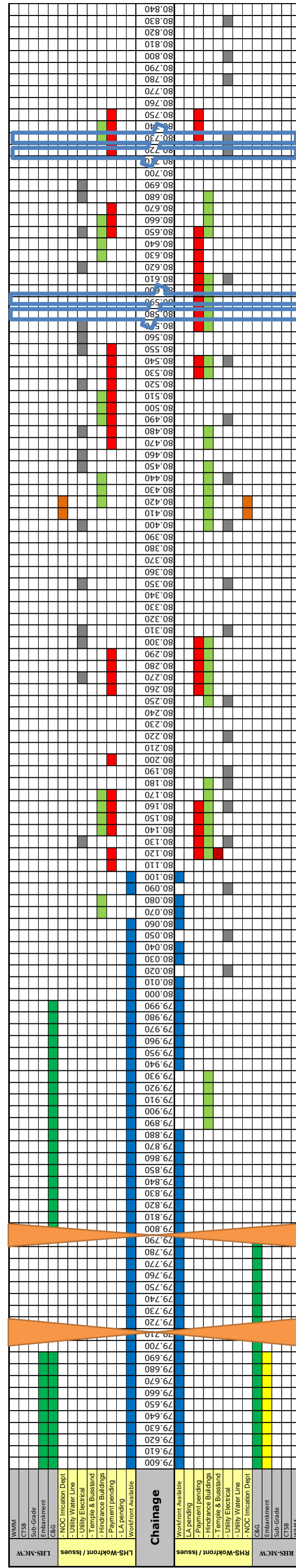
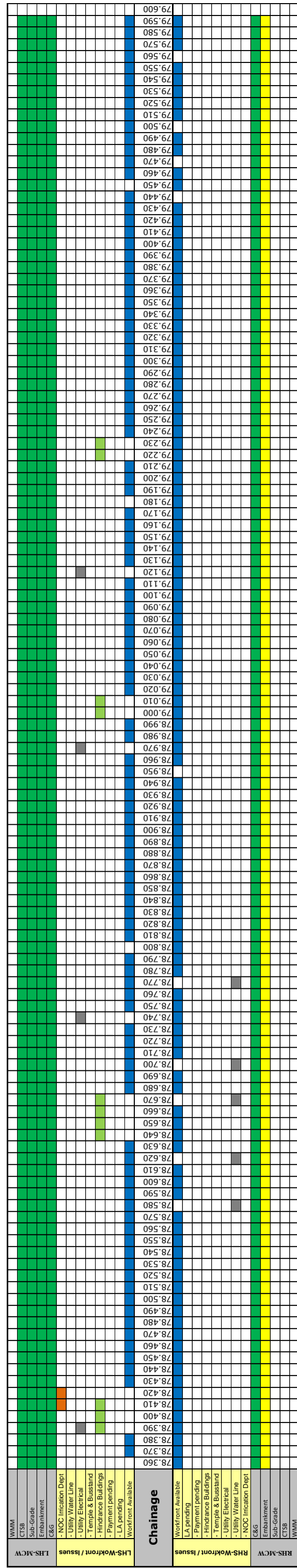
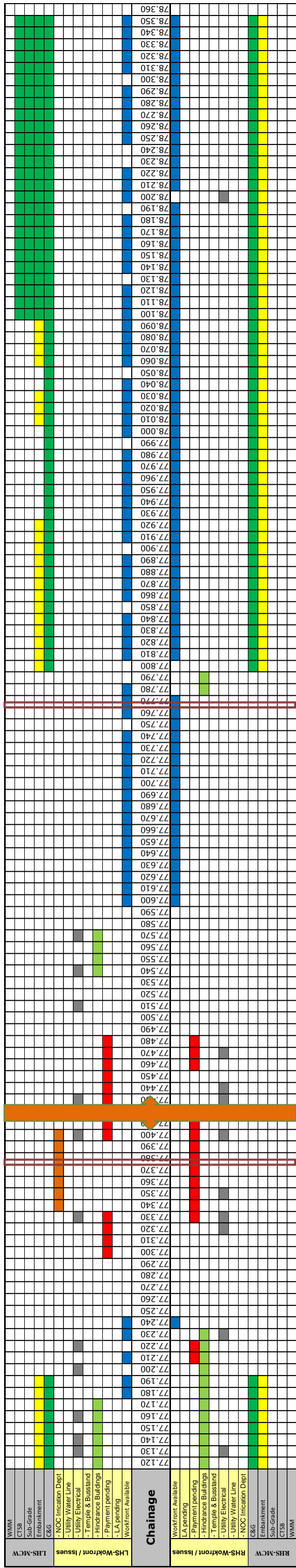
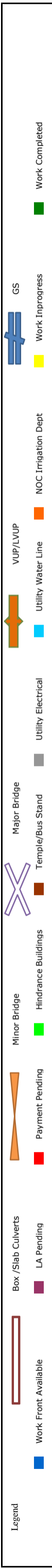
Strip Plan for MCW on 31-07-2019



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

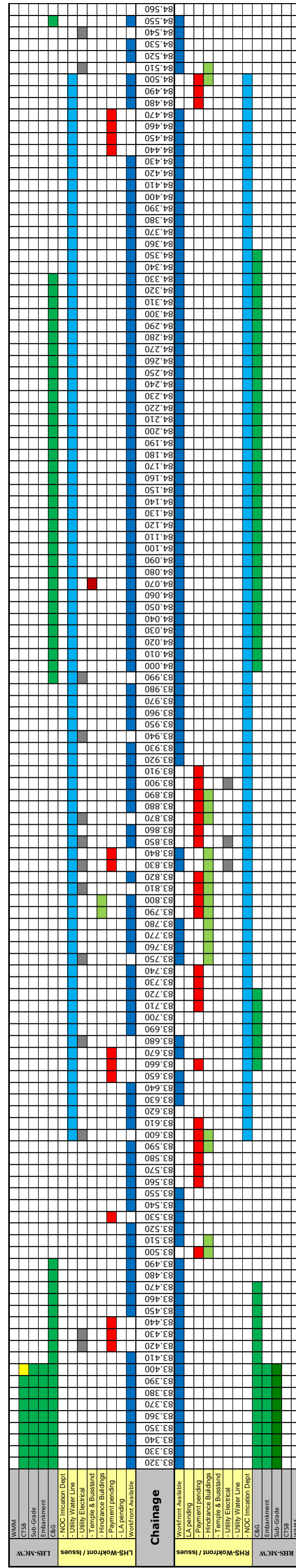
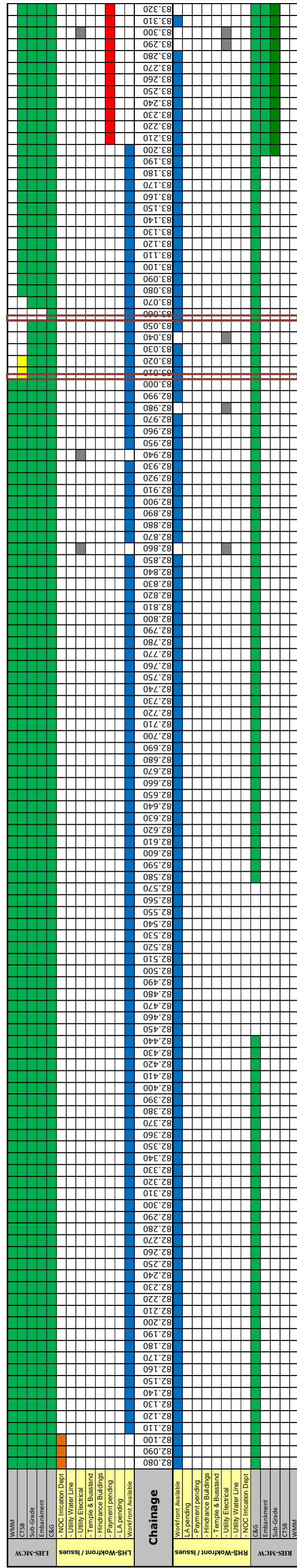
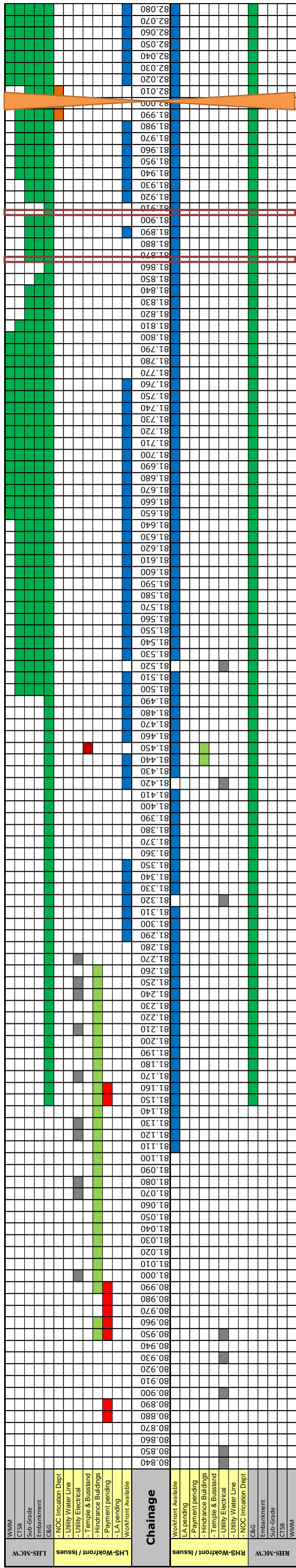
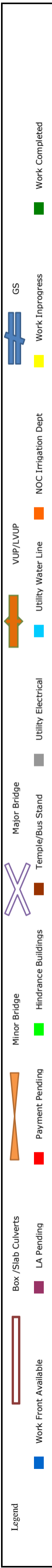
Strip Plan for MCW on 31-07-2019



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

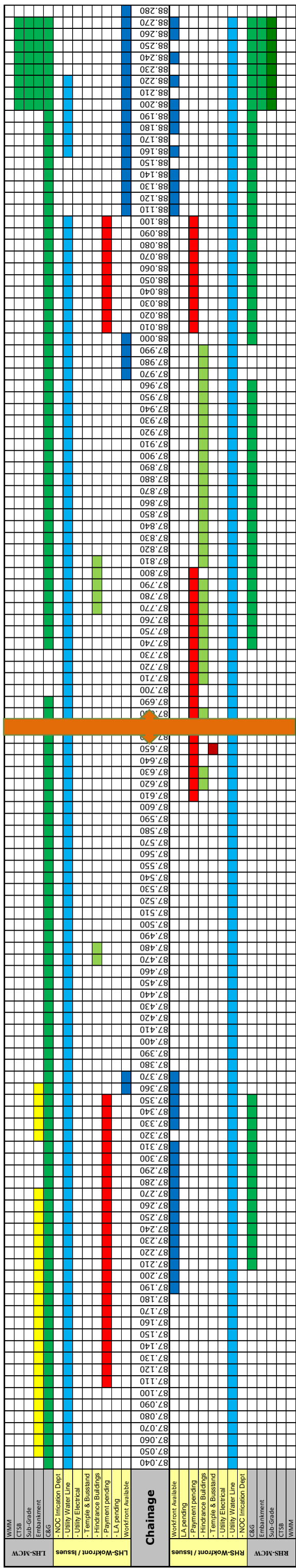
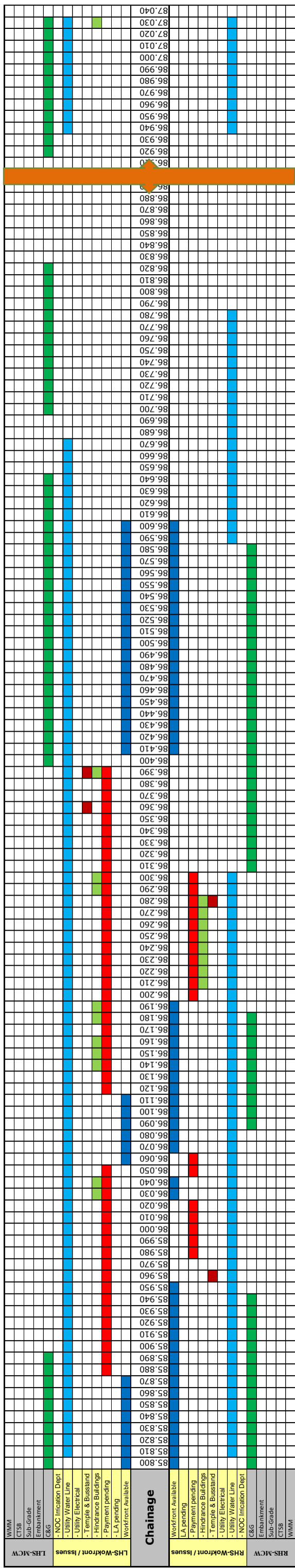
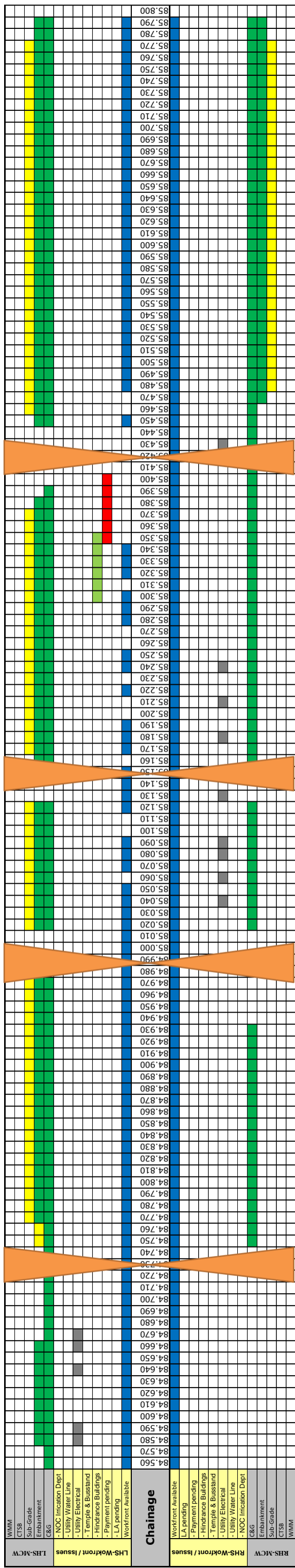
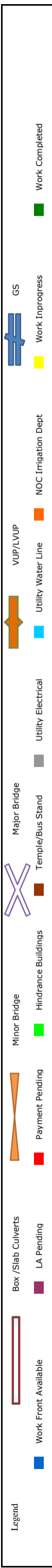
Strip Plan for MCW on 31-07-2019



Four Laning of Sethiyahopu - Cholopuram Road Projects

Sethiyahopu - Cholopuram Road Projects

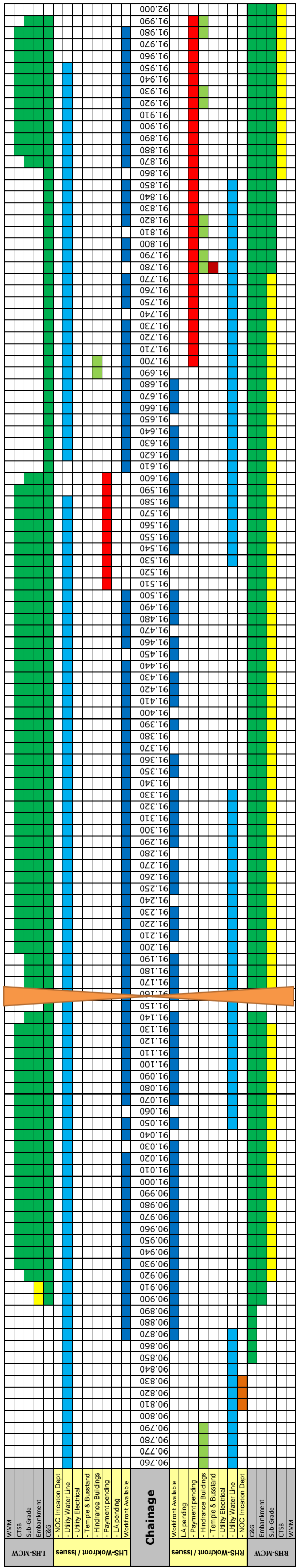
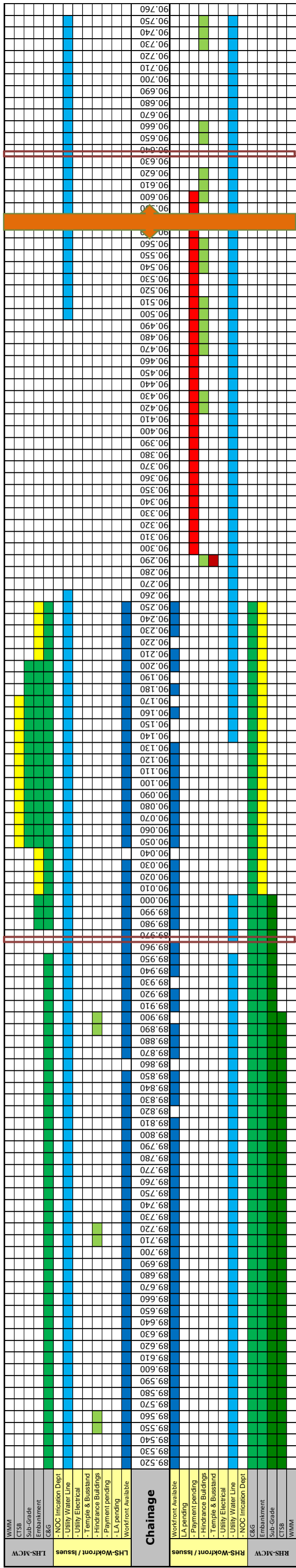
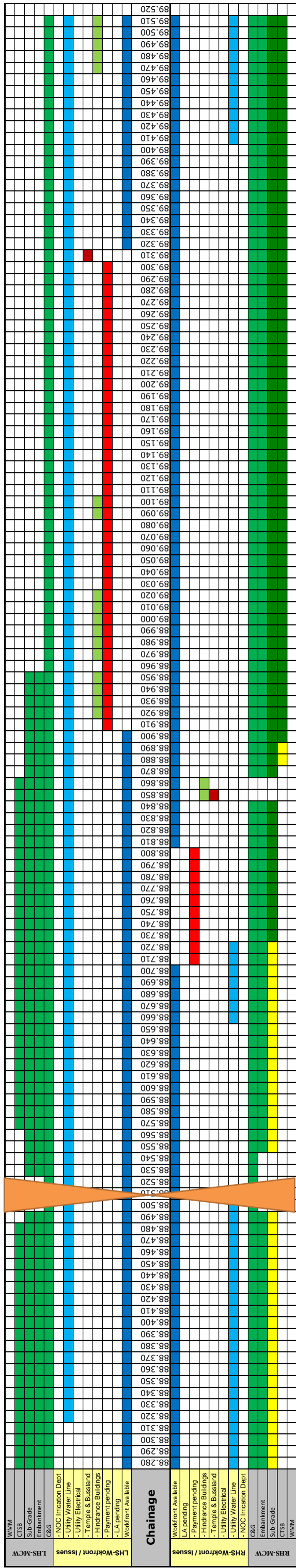
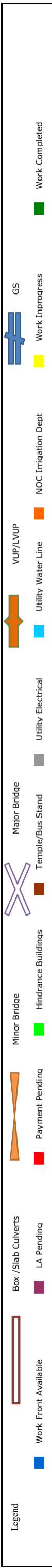
Strip Plan for MCW on 31-07-2019



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

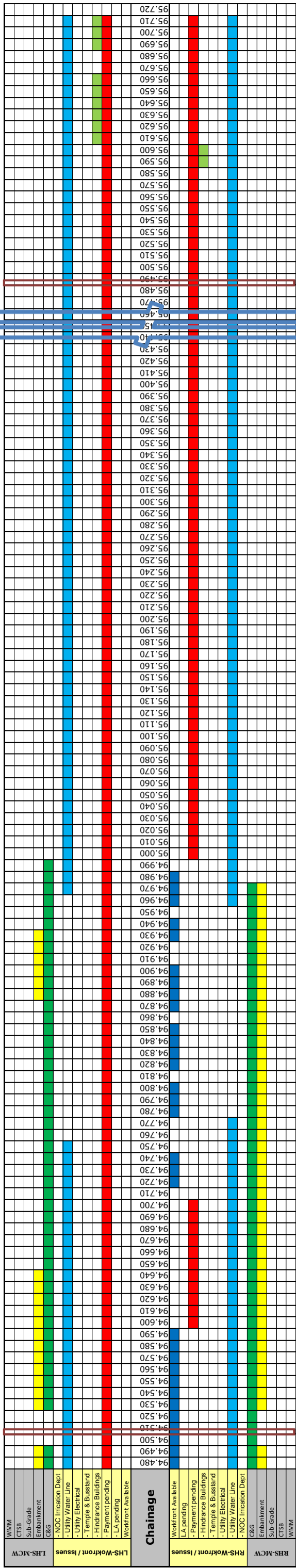
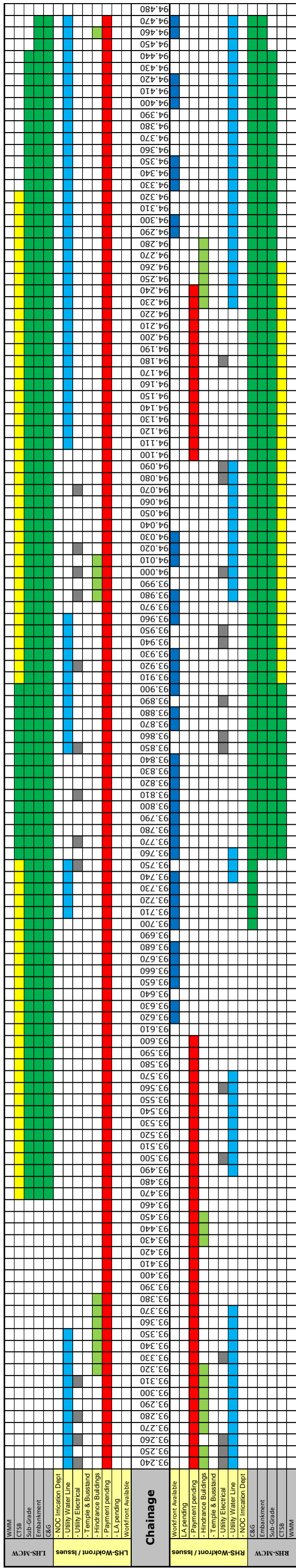
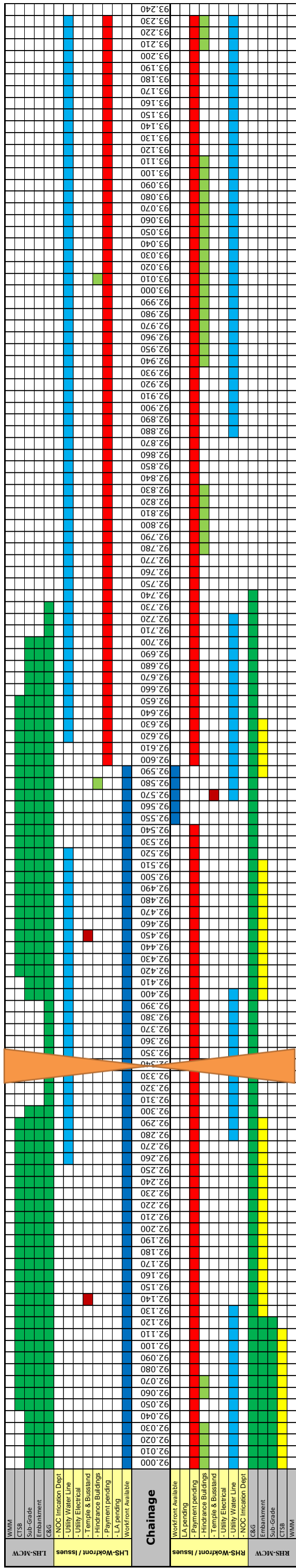
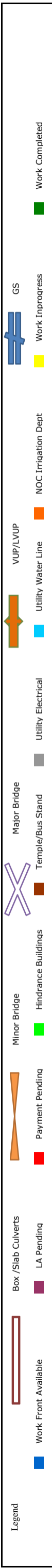
Strip Plan for MCW on 31-07-2019



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

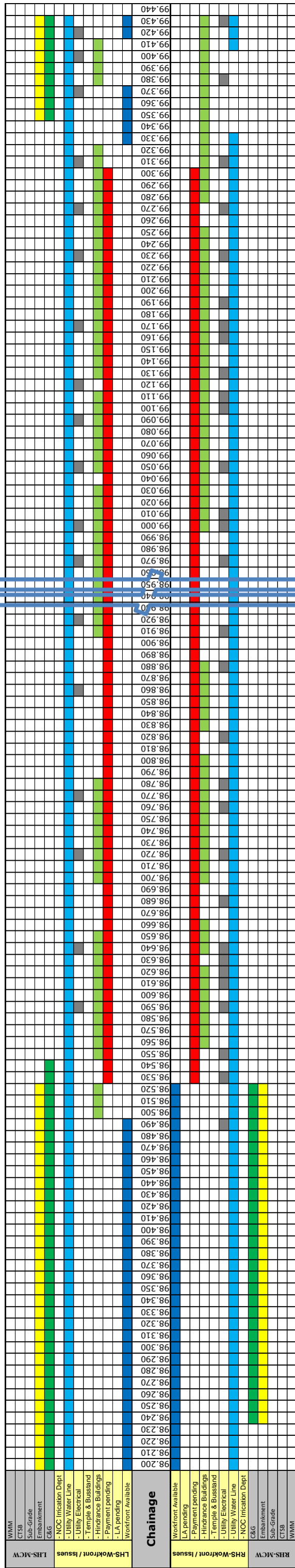
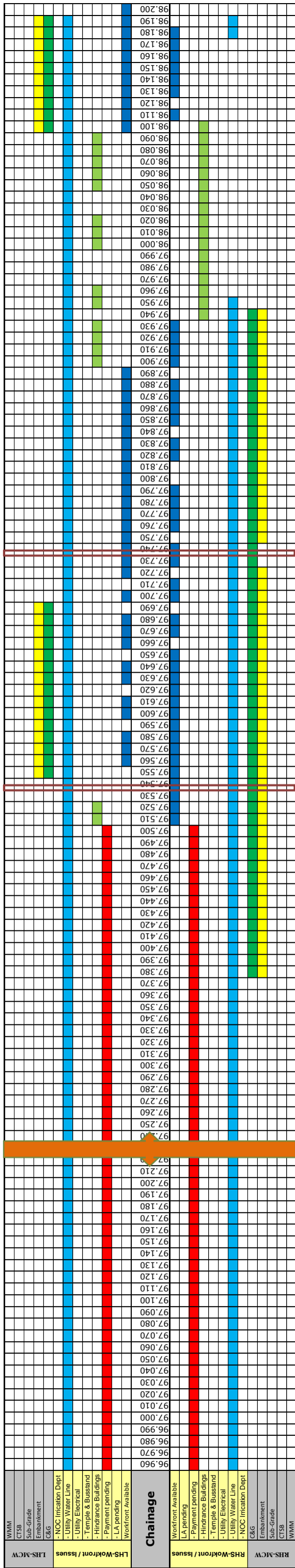
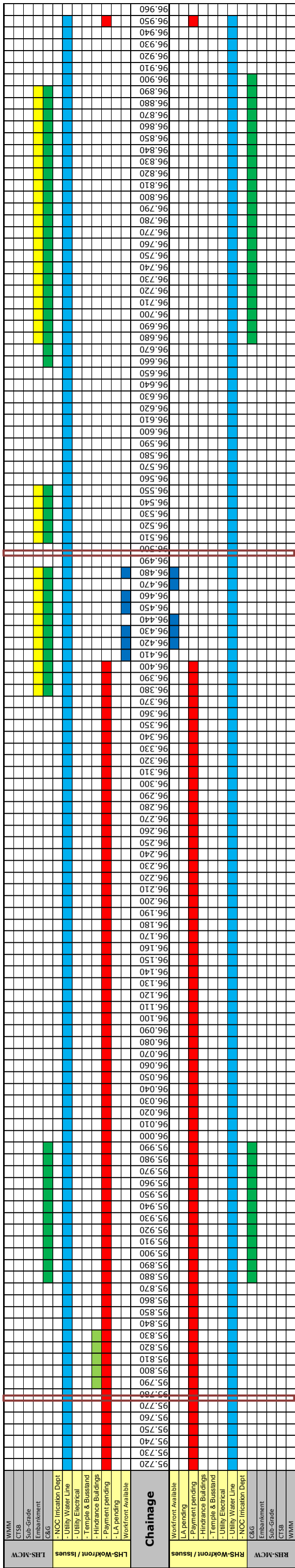
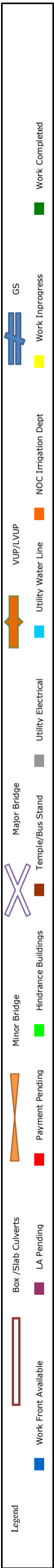
Strip Plan for MCW on 31-07-2019



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

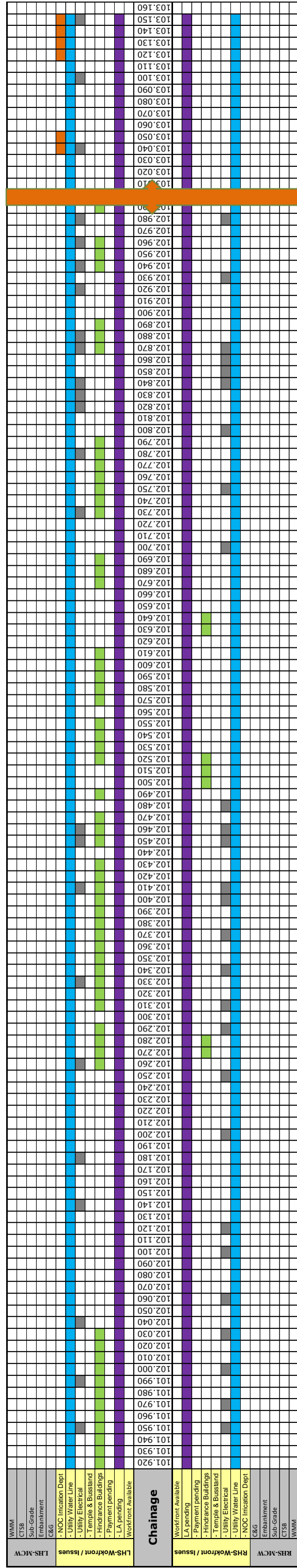
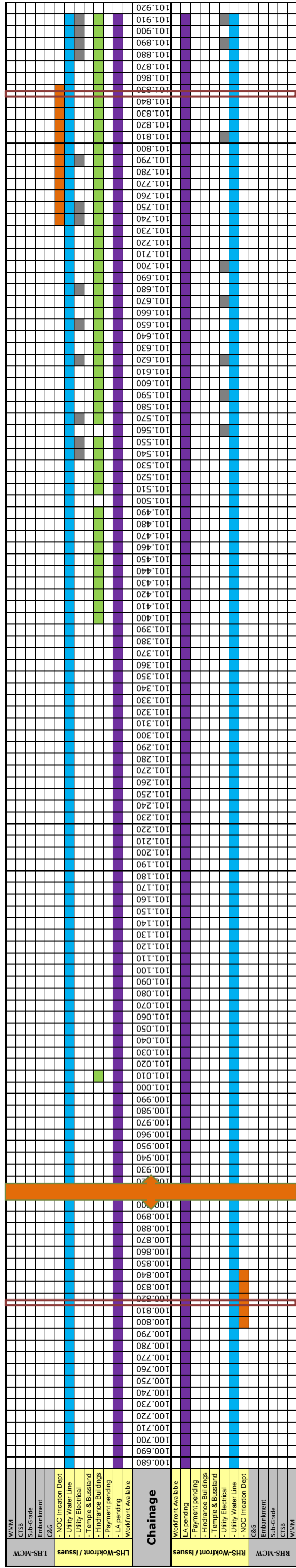
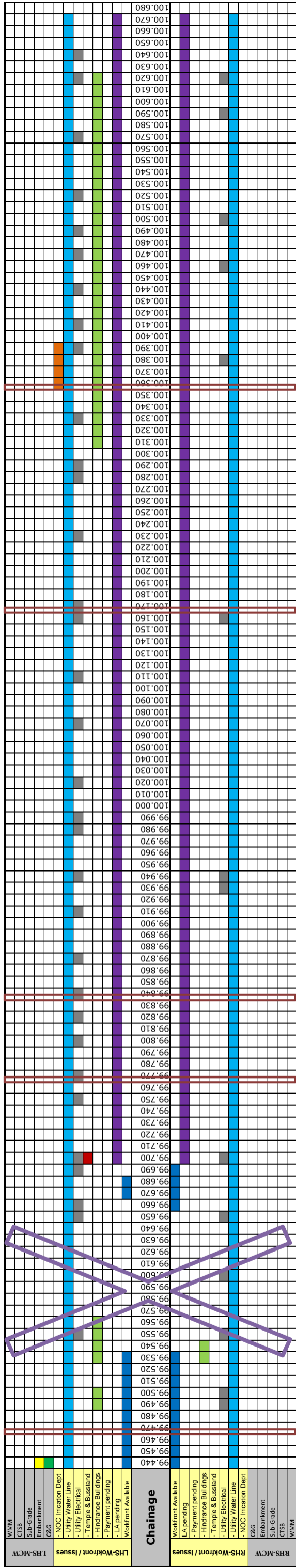
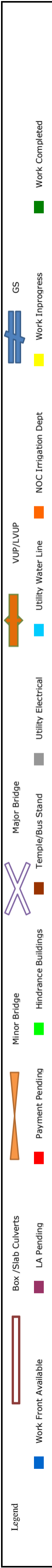
Strip Plan for MCW on 31-07-2019



Four Laning of Sethiyahopu - Cholopuram Road Projects

Sethiyahopu - Cholopuram Road Projects

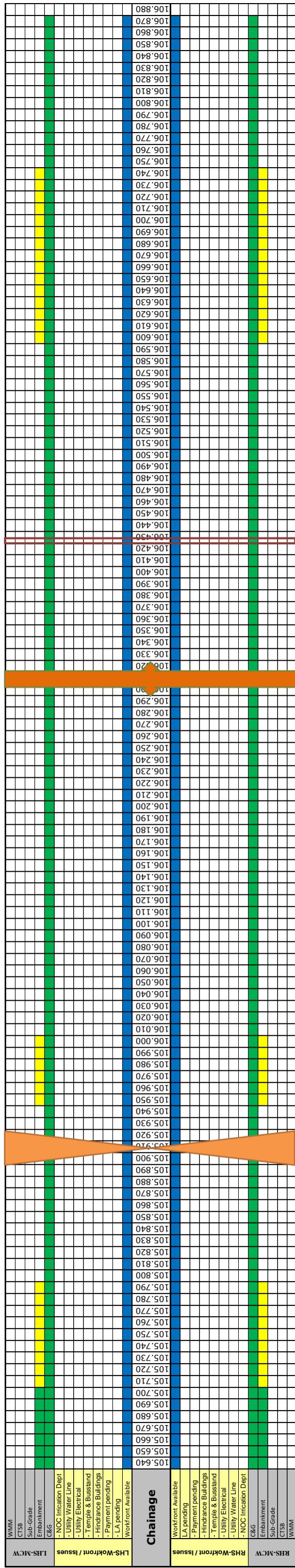
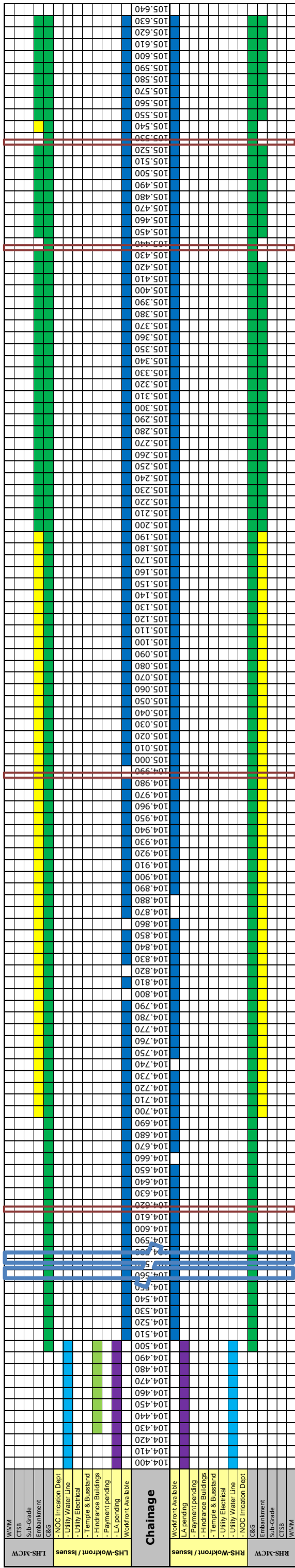
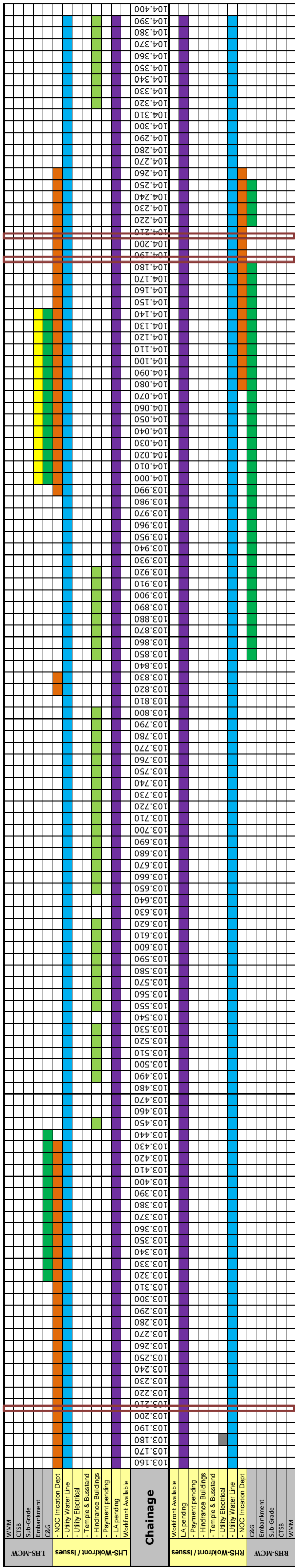
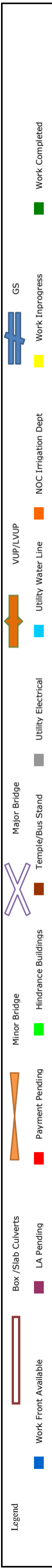
Strip Plan for MCW on 31-07-2019



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

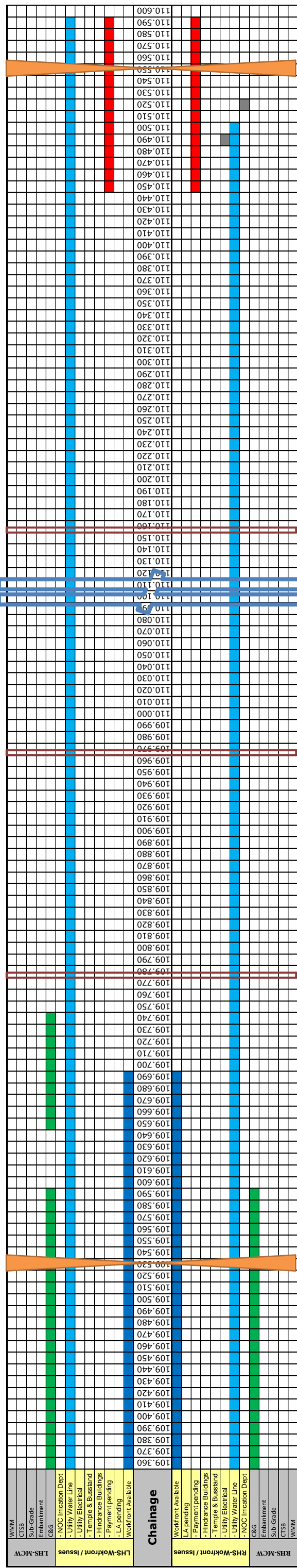
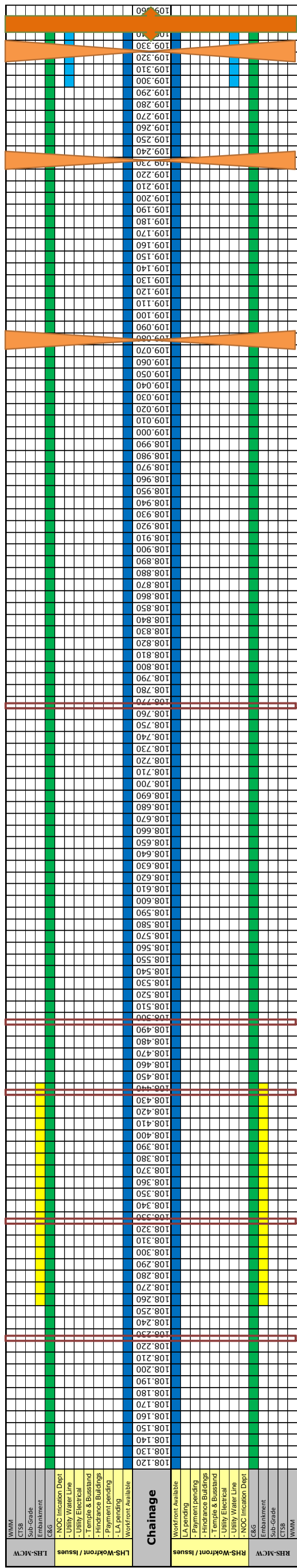
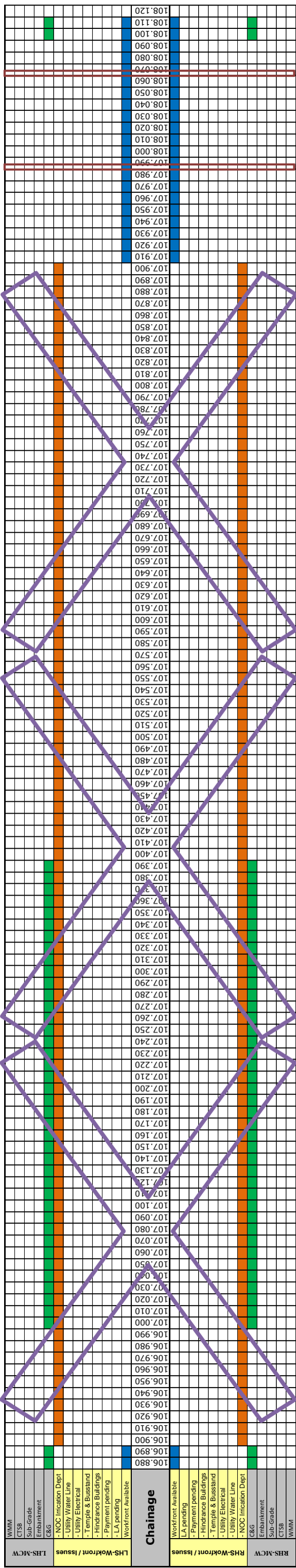
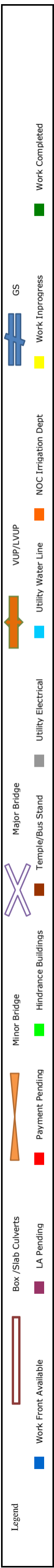
Strip Plan for MCW on 31-07-2019



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

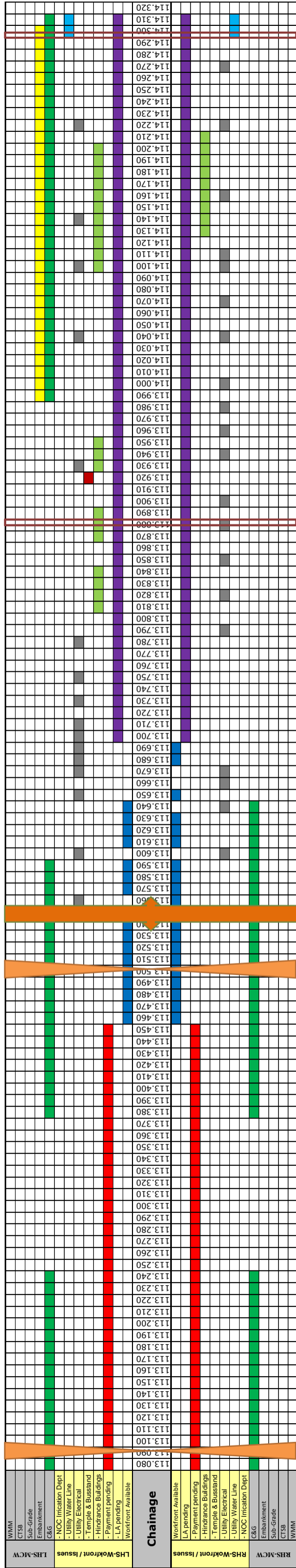
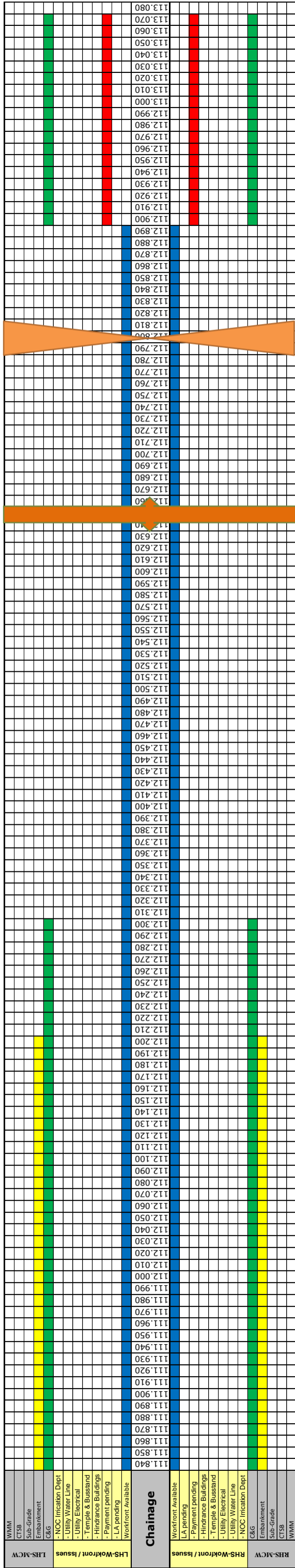
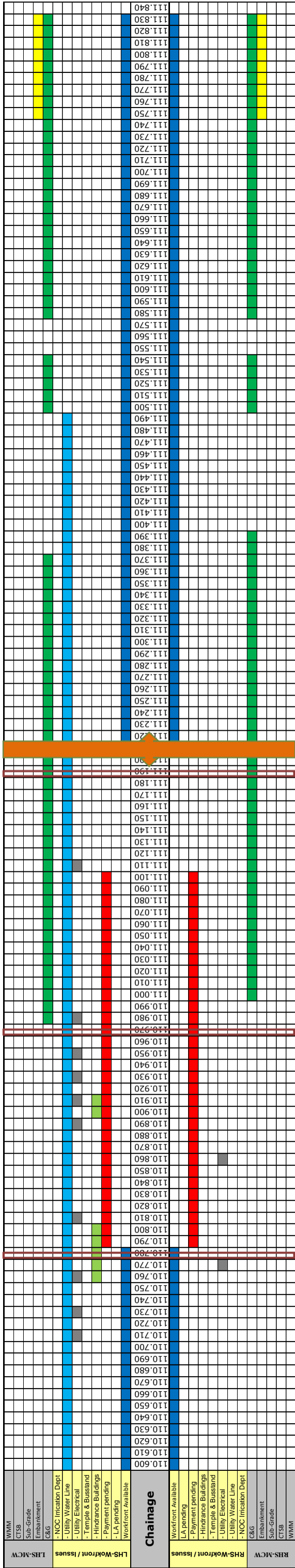
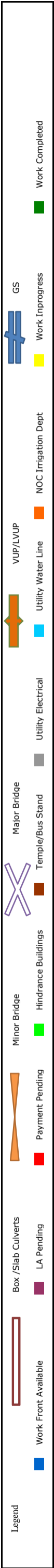
Strip Plan for MCW on 31-07-2019



Four Laning of Sethiyahopu - Cholopuram Road Projects

Sethiyahopu - Cholopuram Road Projects

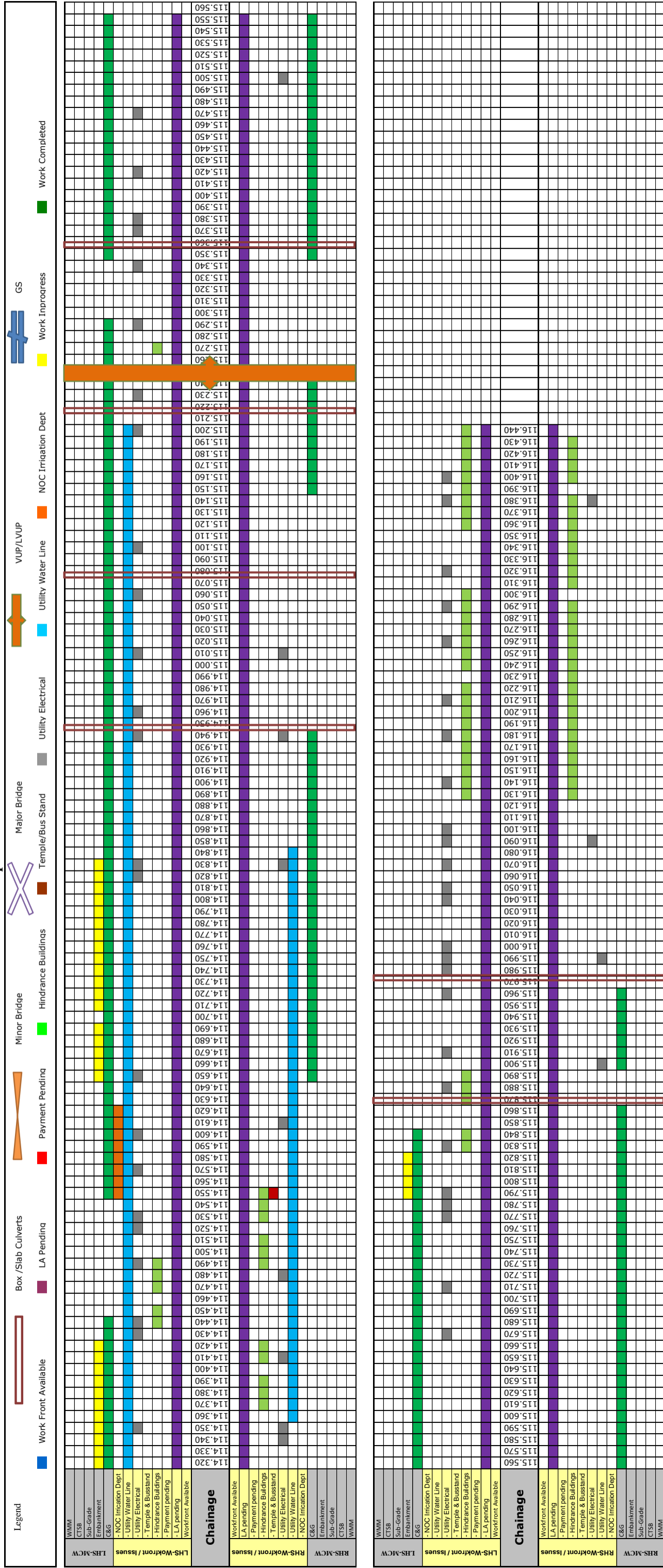
Strip Plan for MCW on 31-07-2019



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

Sethiyahopu - Cholopuram Road Projects

Strip Plan for MCW on 31-07-2019



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 for SR on 31-07-2019

Legend

- Work Front Available
- Work Pending
- LA Pending
- Box /Slab Culverts
- Minor Bridge
- Hindrance Buildings
- Major Bridge
- Utility Electrical
- Temple/Bus Stand
- Utility Water Line
- Utility Irrigation Dept
- Work Inprogress
- Work Completed

95.720	95.730	95.740	95.750	95.760	95.770	95.780	95.790	95.800	95.810	95.820	95.830	95.840	95.850	95.860	95.870	95.880	95.890	95.900	95.910	95.920	95.930	95.940	95.950	95.960	95.970	95.980	95.990	96.000	96.010	96.020	96.030	96.040	96.050	96.060	96.070	96.080	96.090	96.100	96.110	96.120	96.130	96.140	96.150	96.160	96.170	96.180	96.190	96.200	96.210	96.220	96.230	96.240	96.250	96.260	96.270	96.280	96.290	96.300	96.310	96.320	96.330	96.340	96.350	96.360	96.370	96.380	96.390	96.400
--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------

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

99.080	99.090	99.100	99.110	99.120	99.130	99.140	99.150	99.160	99.170	99.180	99.190	99.200	99.210	99.220	99.230	99.240	99.250	99.260	99.270	99.280	99.290	99.300	99.310	99.320	99.330	99.340	99.350	99.360	99.370	99.380	99.390	99.400	99.410	99.420	99.430	99.440	99.450	99.460	99.470	99.480	99.490	99.500	99.510	99.520	99.530	99.540	99.550	99.560	99.570	99.580	99.590	99.600	99.610	99.620	99.630	99.640	99.650	99.660	99.670	99.680	99.690	99.700	99.710	99.720	99.730	99.740	99.750	99.760	99.770	99.780	99.790	99.800	99.810	99.820	99.830	99.840	99.850	99.860	99.870	99.880	99.890	99.900	99.910	99.920	99.930	99.940	99.950	99.960	99.970	99.980	99.990	100.000	100.010	100.020	100.030	100.040	100.050	100.060	100.070	100.080	100.090	100.100	100.110	100.120	100.130	100.140	100.150	100.160	100.170	100.180	100.190	100.200	100.210	100.220	100.230	100.240	100.250	100.260	100.270	100.280	100.290	100.300	100.310	100.320	100.330	100.340	100.350	100.360	100.370	100.380	100.390	100.400	100.410	100.420	100.430	100.440	100.450	100.460	100.470	100.480	100.490	100.500	100.510	100.520	100.530	100.540	100.550	100.560	100.570	100.580	100.590	100.600	100.610	100.620	100.630	100.640	100.650	100.660	100.670	100.680	100.690	100.700	100.710	100.720	100.730	100.740	100.750	100.760	100.770	100.780	100.790	100.800	100.810	100.820	100.830	100.840	100.850	100.860	100.870	100.880	100.890	100.900	100.910	100.920	100.930	100.940	100.950	100.960	100.970	100.980	100.990	101.000	101.010	101.020	101.030	101.040	101.050	101.060	101.070	101.080	101.090	101.100	101.110	101.120	101.130	101.140	101.150	101.160	101.170	101.180	101.190	101.200	101.210	101.220	101.230	101.240	101.250	101.260	101.270	101.280	101.290	101.300	101.310	101.320	101.330	101.340	101.350	101.360	101.370	101.380	101.390	101.400	101.410	101.420	101.430	101.440	101.450	101.460	101.470	101.480	101.490	101.500	101.510	101.520	101.530	101.540	101.550	101.560	101.570	101.580	101.590	101.600	101.610	101.620	101.630	101.640	101.650	101.660	101.670	101.680	101.690	101.700	101.710	101.720	101.730	101.740	101.750	101.760	101.770	101.780	101.790	101.800	101.810	101.820	101.830	101.840	101.850	101.860	101.870	101.880	101.890	101.900	101.910	101.920
--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------

101.920	101.930	101.940	101.950	101.960	101.970	101.980	101.990	102.000	102.010	102.020	102.030	102.040	102.050	102.060	102.070	102.080	102.090	102.100	102.110	102.120	102.130	102.140	102.150	102.160	102.170	102.180	102.190	102.200	102.210	102.220	102.230	102.240	102.250	102.260	102.270	102.280	102.290	102.300	102.310	102.320	102.330	102.340	102.350	102.360	102.370	102.380	102.390	102.400	102.410	102.420	102.430	102.440	102.450	102.460	102.470	102.480	102.490	102.500	102.510	102.520	102.530	102.540	102.550	102.560	102.570	102.580	102.590	102.600	102.610	102.620	102.630	102.640	102.650	102.660	102.670	102.680	102.690	102.700	102.710	102.720	102.730	102.740	102.750	102.760	102.770	102.780	102.790	102.800	102.810	102.820	102.830	102.840	102.850	102.860	102.870	102.880	102.890	102.900	102.910	102.920	102.930	102.940	102.950	102.960	102.970	102.980	102.990	103.000	103.010	103.020	103.030	103.040	103.050	103.060	103.070	103.080	103.090	103.100	103.110	103.120	103.130	103.140	103.150	103.160
---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------

103.160	103.170	103.180	103.190	103.200	103.210	103.220	103.230	103.240	103.250	103.260	103.270	103.280	103.290	103.300	103.310	103.320	103.330	103.340	103.350	103.360	103.370	103.380	103.390	103.400	103.410	103.420	103.430	103.440	103.450	103.460	103.470	103.480	103.490	103.500	103.510	103.520	103.530	103.540	103.550	103.560	103.570	103.580	103.590	103.600	103.610	103.620	103.630	103.640	103.650	103.660	103.670	103.680	103.690	103.700	103.710	103.720	103.730	103.740	103.750	103.760	103.770	103.780	103.790	103.800	103.810	103.820	103.830	103.840	103.850	103.860	103.870	103.880	103.890	103.900	103.910	103.920	103.930	103.940	103.950	103.960	103.970	103.980	103.990	104.000	104.010	104.020	104.030	104.040	104.050	104.060	104.070	104.080	104.090	104.100	104.110	104.120	104.130	104.140	104.150	104.160	104.170	104.180	104.190	104.200	104.210	104.220	104.230	104.240	104.250	104.260	104.270	104.280	104.290	104.300	104.310	104.320	104.330	104.340	104.350	104.360	104.370	104.380	104.390	104.400
---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------

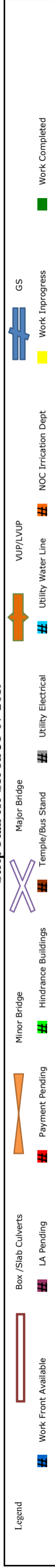
104.400	104.410	104.420	104.430	104.440	104.450	104.460	104.470	104.480	104.490	104.500	104.510	104.520	104.530	104.540	104.550	104.560	104.570	104.580	104.590	104.600	104.610	104.620	104.630	104.640	104.650	104.660	104.670	104.680	104.690	104.700	104.710	104.720	104.730	104.740	104.750	104.760	104.770	104.780	104.790	104.800	104.810	104.820	104.830	104.840	104.850	104.860	104.870	104.880	104.890	104.900	104.910	104.920	104.930	104.940	104.950	104.960	104.970	104.980	104.990	105.000	105.010
---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------

105.010	105.020	105.030	105.040	105.050	105.060	105.070	105.080	105.090	105.100	105.110	105.120	105.130	105.140	105.150	105.160	105.170	105.180	105.190	105.200	105.210	105.220	105.230	105.240	105.250	105.260	105.270	105.280	105.290	105.300	105.310	105.320	105.330	105.340	105.350	105.360	105.370	105.380	105.390	105.400	105.410	105.420	105.430	105.440	105.450	105.460	105.470	105.480	105.490	105.500	105.510	105.520	105.530	105.540	105.550	105.560	105.570	105.580	105.590	105.600	105.610	105.620	105.630	105.640	105.650	105.660	105.670	105.680	105.690	105.700	105.710	105.720	105.730	105.740	105.750	105.760	105.770	105.780	105.790	105.800	105.810	105.820	105.830	105.840	105.850	105.860	105.870	105.880	105.890	105.900	105.910	105.920	105.930	105.940	105.950	105.960	105.970	105.980	105.990	106.000	106.010	106.020	106.030	106.040	106.050	106.060	106.070	106.080	106.090	106.100	106.110	106.120	106.130	106.140	106.150	106.160	106.170	106.180	106.190	106.200	106.210	106.220	106.230
---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------

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

Sethiyahopu - Cholopuram Road Projects

Strip Plan for SR on 31-07-2019



109.360	109.370	109.380	109.390	109.400	109.410	109.420	109.430	109.440	109.450	109.460	109.470	109.480	109.490	109.500	109.510	109.520	109.530	109.540	109.550	109.560	109.570	109.580	109.590	109.600
109.360	109.370	109.380	109.390	109.400	109.410	109.420	109.430	109.440	109.450	109.460	109.470	109.480	109.490	109.500	109.510	109.520	109.530	109.540	109.550	109.560	109.570	109.580	109.590	109.600
109.360	109.370	109.380	109.390	109.400	109.410	109.420	109.430	109.440	109.450	109.460	109.470	109.480	109.490	109.500	109.510	109.520	109.530	109.540	109.550	109.560	109.570	109.580	109.590	109.600
109.360	109.370	109.380	109.390	109.400	109.410	109.420	109.430	109.440	109.450	109.460	109.470	109.480	109.490	109.500	109.510	109.520	109.530	109.540	109.550	109.560	109.570	109.580	109.590	109.600

110.600	110.610	110.620	110.630	110.640	110.650	110.660	110.670	110.680	110.690	110.700	110.710	110.720	110.730	110.740	110.750	110.760	110.770	110.780	110.790	110.800	110.810	110.820	110.830	110.840
110.600	110.610	110.620	110.630	110.640	110.650	110.660	110.670	110.680	110.690	110.700	110.710	110.720	110.730	110.740	110.750	110.760	110.770	110.780	110.790	110.800	110.810	110.820	110.830	110.840
110.600	110.610	110.620	110.630	110.640	110.650	110.660	110.670	110.680	110.690	110.700	110.710	110.720	110.730	110.740	110.750	110.760	110.770	110.780	110.790	110.800	110.810	110.820	110.830	110.840
110.600	110.610	110.620	110.630	110.640	110.650	110.660	110.670	110.680	110.690	110.700	110.710	110.720	110.730	110.740	110.750	110.760	110.770	110.780	110.790	110.800	110.810	110.820	110.830	110.840

111.530	111.540	111.550	111.560	111.570	111.580	111.590	111.600	111.610	111.620	111.630	111.640	111.650	111.660	111.670	111.680	111.690	111.700	111.710	111.720	111.730	111.740	111.750	111.760	111.770
111.530	111.540	111.550	111.560	111.570	111.580	111.590	111.600	111.610	111.620	111.630	111.640	111.650	111.660	111.670	111.680	111.690	111.700	111.710	111.720	111.730	111.740	111.750	111.760	111.770
111.530	111.540	111.550	111.560	111.570	111.580	111.590	111.600	111.610	111.620	111.630	111.640	111.650	111.660	111.670	111.680	111.690	111.700	111.710	111.720	111.730	111.740	111.750	111.760	111.770
111.530	111.540	111.550	111.560	111.570	111.580	111.590	111.600	111.610	111.620	111.630	111.640	111.650	111.660	111.670	111.680	111.690	111.700	111.710	111.720	111.730	111.740	111.750	111.760	111.770

112.840	112.850	112.860	112.870	112.880	112.890	112.900	112.910	112.920	112.930	112.940	112.950	112.960	112.970	112.980	112.990	113.000	113.010	113.020	113.030	113.040	113.050	113.060	113.070	113.080
112.840	112.850	112.860	112.870	112.880	112.890	112.900	112.910	112.920	112.930	112.940	112.950	112.960	112.970	112.980	112.990	113.000	113.010	113.020	113.030	113.040	113.050	113.060	113.070	113.080
112.840	112.850	112.860	112.870	112.880	112.890	112.900	112.910	112.920	112.930	112.940	112.950	112.960	112.970	112.980	112.990	113.000	113.010	113.020	113.030	113.040	113.050	113.060	113.070	113.080
112.840	112.850	112.860	112.870	112.880	112.890	112.900	112.910	112.920	112.930	112.940	112.950	112.960	112.970	112.980	112.990	113.000	113.010	113.020	113.030	113.040	113.050	113.060	113.070	113.080

STATUS OF BOX CULVERTS ON EXISTING ROAD - SERVICE ROAD											Completed						In Progress					
Status Upto	31.07.2019										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	Protection Work	Slab	Wall	Raft	PCC	Granular Filling	Excavation			
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																	

SETHIAHOPI CHOLOPURAM PROJECT - STATUS OF BOX CULVERTS ON BYPASS - MCW																					
Status Upto	31.07.2019	Completed					In Progress														
		Protection Work	Slab	Wall	Raft	PCC	Granular Filling	Excavation	Excavation	Granular Filling	Excavation										
Sr. No.	As Approved by IE	Design Chainage As per CA	Type of Structure	Number and Length of Spans (m)																	
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																

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

SETHIAHOPU CHOLOPURAM PROJECT - STATUS OF MNB-BOX - MCW										Completed		In Progress							
Status Upto	31.07.2019		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														

SETHIYAHOPU CHOLOPURAM PROJECT - STATUS OF MNB-BOX - SERVICE ROAD																			
Status Upto	31.07.2019																		
Sr. No.	As Approved by IE	Design Chainage As per CA	Number and Length of Spans (m)	Type of Structure	Completed						In Progress								
					Protection Work	Slab	Wall	Raft	PCC	Granular Filling	Excavation	Excavation	Granular Filling	PCC	Raft	Wall	Slab	Protection Work	
					LHS						RHS								
1	74+605	74.600	2 x 12.5m	MNBB															
2	105+915	105.915	2 x 12.5m	MNBB															
3	109+090	109.088	2 x 12.5m	MNBB															
4	109+195	109.208	2 x 12.5m	MNBB															
5	109+365	109.365	2 x 12.5m	MNBB															
6	109+540	109.540	2 x 12.5m	MNBB															
7	111+563	111.565	2 x 12.5m	MNBB															
8	112+807	112.807	1 x 25m	MNBB															
9	113+100	113.100	2 x 12.5m	MNBB															
10	113+505	113.505	2 x 12.5m	MNBB															

SETHIAHOPI CHOLOPURAM PROJECT - STATUS OF LVUP							Completed		In Progress								
Status Upto	31.07.2019						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 MNB (> 15m Span)										Completed		In Progress														
Status upto	31.07.2019									LHS							RHS									
SR.NO.	MNB at Chainage	Span				Crash Barrier	Slab	Girder	Piercap /Abtcap	Pier/Abt	Open Foundation	PCC	Excavation	Excavation	Open Foundation	PCC	Excavation	Crash Barrier	Slab	Girder	Piercap /Abtcap	Pier/Abt	Open Foundation	PCC	Excavation	
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																				

SETHYAHOPU CHOLOPURAM PROJECT - STATUS OF MJB																			
MJB at Chainage 66 + 530 (8x30) - BYPASS																			
LHS/LSR						RHS/LSR						Completed							
Crash	Barrier	Slab	Girder	Casting	Pier	Cap/Abt	Pier/Abt	Cap	Pier	Pier/Abt	Cap/Abt	Pier	Pier/Abt	Cap	Girder	Casting	Slab	Barrier	
A1																			
P1																			
P2																			
P3																			
P4																			
P5																			
P6																			
P7																			
A2																			
MJB at Chainage 73 + 340 (9x30) - BYPASS													Completed						
LHS/LSR													RHS/LSR						In Progress
Crash	Barrier	Slab	Girder	Casting	Pier	Cap/Abt	Pier/Abt	Cap	Pier	Pier/Abt	Cap/Abt	Pier	Pier/Abt	Cap	Girder	Casting	Slab	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	Slab	Girder	Casting	Pier	Cap/Abt	Can	Pier/Ab	t	Pile Cap	Pile	Pier/Ab	t	Pier	Cap/Abt	Can	Girder	Casting	Slab	Crash	
A1																				
P1																				
P2																				
A2																				
MJB at Chainage 107 + 400 - BYPASS										Completed		In Progress								
LHS/LSR										RHS/LSR										
Crash	Slab	Girder	Casting	Pier	Cap/Abt	Can	Pier/Ab	t	Pile Cap	Pile	Pier/Ab	t	Pier	Cap/Abt	Can	Girder	Casting	Slab	Crash	
A1																				
P1																				
P2																				
P3																				
P4																				
P5																				
P6																				
P7																				
P8																				
P9																				
P10																				
P11																				
P12																				
P13																				
P14																				
P15																				
P16																				
P17																				
P18																				
P19																				
A2																				

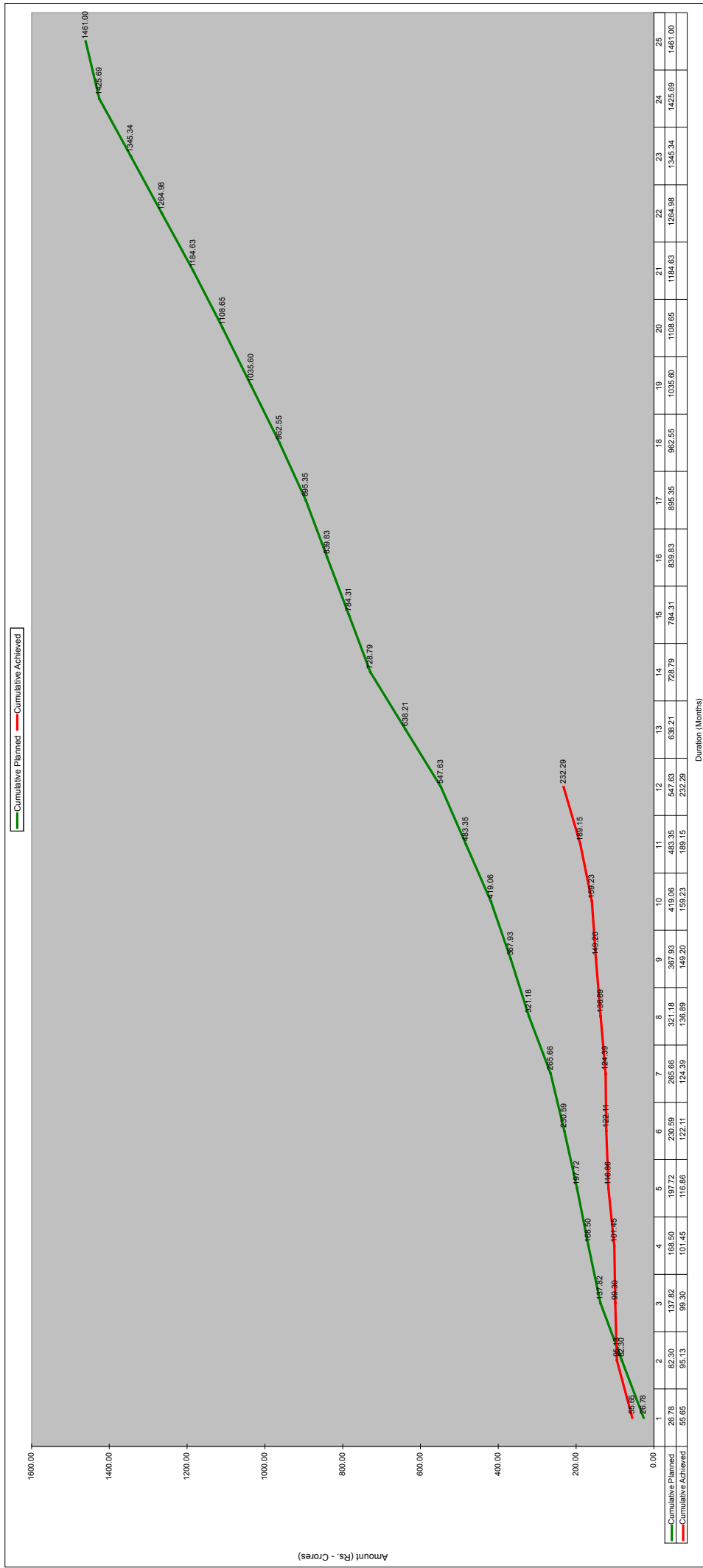
SETHIYAHOPU CHOLOPURAM PROJECT - STATUS OF VUP			Completed								In Progress								
Status upto	31.07.2019		LHS								RHS								
SR.NO.	VUP at Chainage	Span	Crash Barrier	Slab	Girder Casting	Piercap /Abtcap	Abt Shaft	Pile Cap	PCC	Pile	Crash Barrier	Slab	Girder Casting	Piercap /Abtcap	Abt Shaft	Pile Cap	PCC	Pile	
1	72+545	1x25																	
2	75+830	1x25																	
3	86+677	1x25																	
4	87+670	1x25																	
5	90+580	1x25																	
6	97+225	1x25																	
7	101+910	1x25																	
8	102+975	1x25																	
9	106+318	1x25																	
10	109+350	1x25																	
11	111+235	1x25																	
12	113+550	1x25																	
13	115+258	1x25																	

5. Financial & Physical Progress of Work

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

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

Four Laning of Sethiyahopu - Cholopuram from Km. 65.960 to 116.440 Section of NH45C in the state of Tamilnadu under NHDP-IV on Hybrid Annuity Mode
Fig. 03a- Financial Progress (S-Curve)

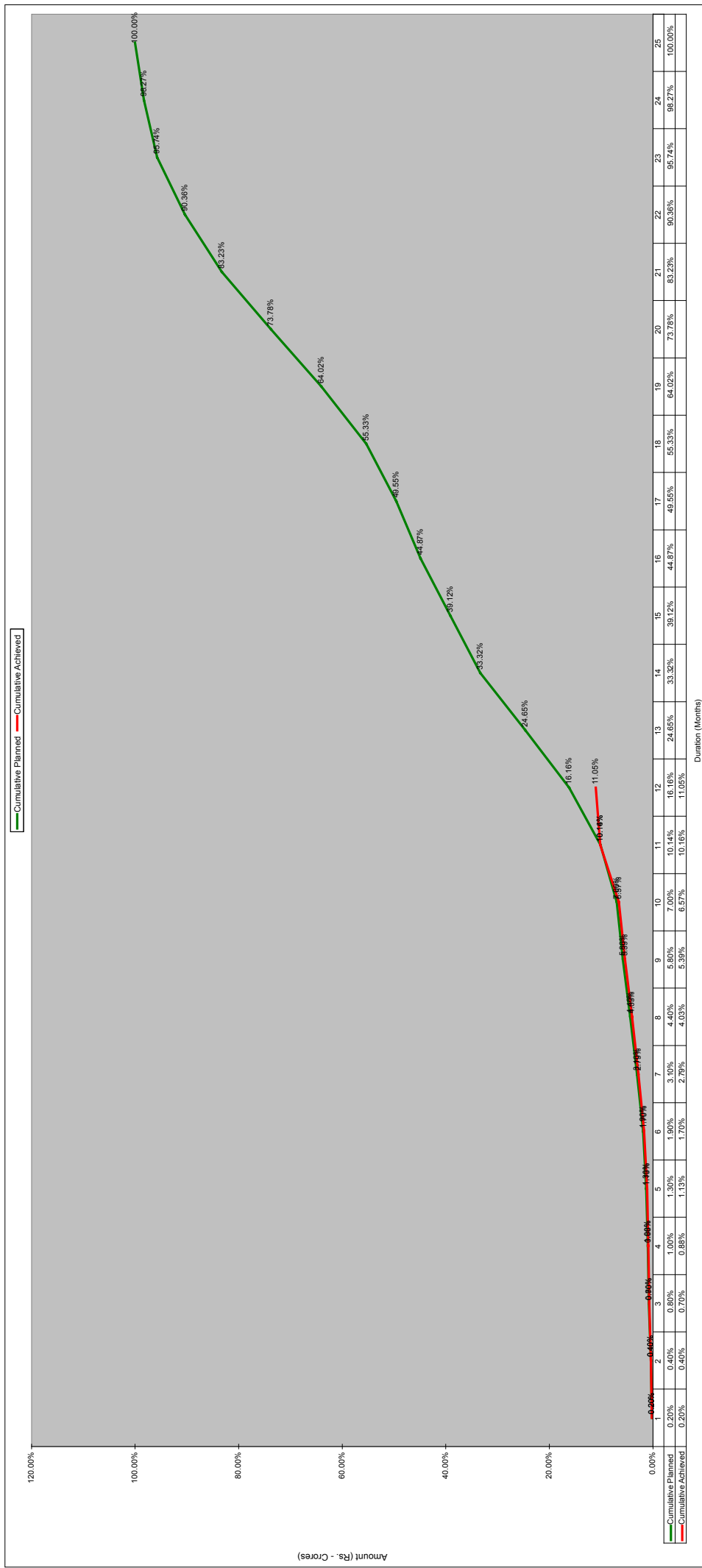


Schedule	2019												2020														
	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug		
Monthly Planned	26.78	55.52	55.52	30.68	29.22	32.87	35.06	46.75	51.14	64.28	64.28	64.28	90.58	90.58	55.52	55.52	55.52	67.21	73.05	73.05	75.97	80.36	80.36	80.36	80.36	35.31	
Monthly Achieved	55.65	39.48	4.17	2.15	15.41	5.26	2.27	12.50	10.03	29.92	43.15																
Cumulative Planned	26.78	82.30	137.82	168.50	197.72	230.59	265.66	321.18	367.93	419.06	483.35	547.63	638.21	728.79	784.31	839.83	895.35	962.55	1035.60	1108.65	1184.63	1264.98	1345.34	1425.69	1461.00		
Cumulative Achieved	55.65	95.13	99.30	101.45	116.86	122.11	124.39	136.89	149.20	159.23	189.15	232.29															
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%	5.5%	2.4%	
Monthly Achieved (%)	3.8%	2.7%	0.3%	0.1%	1.1%	0.4%	0.2%	0.9%	0.8%	0.7%	2.0%	3.0%															
Cumulative Planned (%)	1.8%	5.6%	9.4%	11.5%	13.5%	15.8%	18.2%	22.0%	25.2%	28.7%	33.1%	37.5%	43.7%	49.9%	53.7%	57.5%	61.3%	65.9%	70.9%	75.9%	81.1%	86.6%	92.1%	97.6%	100.0%		
Cumulative Achieved (%)	3.8%	6.5%	6.8%	6.9%	8.0%	8.4%	8.5%	9.4%	10.2%	10.9%	12.9%	15.9%															

MFR JULY 2019

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

Fig. 03b- Physical Progress (S-Curve)



Schedule	2019												2020												
	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Monthly Planned	0.20%	0.20%	0.40%	0.20%	0.30%	0.60%	1.20%	1.30%	1.40%	1.20%	3.14%	6.02%	8.49%	8.67%	5.80%	5.75%	4.68%	5.78%	8.69%	9.76%	9.45%	7.13%	5.38%	2.53%	1.73%
Monthly Achieved	0.20%	0.20%	0.30%	0.18%	0.25%	0.57%	1.09%	1.36%	1.18%	3.59%	0.89%														
Cumulative Planned	0.20%	0.40%	0.80%	1.00%	1.30%	1.90%	3.10%	4.40%	5.80%	7.00%	10.14%	16.16%	24.65%	33.32%	39.12%	44.87%	49.55%	55.33%	64.02%	73.78%	83.23%	90.36%	95.74%	98.27%	100.00%
Cumulative Achieved	0.20%	0.40%	0.70%	0.88%	1.13%	1.70%	2.79%	4.03%	5.39%	6.57%	10.16%	11.05%													

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 LIST'S	QUANTITY
1	Test Sieves Set 450mm internal diameter as per IS complete with lid & pan of hole sizes	
a	100mm	2 Nos
b	75mm	2 Nos
c	90mm	2 Nos
d	63mm	2 Nos
e	53mm	2 Nos
f	50mm	2 Nos
g	45mm	2 Nos
h	40mm	2 Nos
i	37.5mm	2 Nos
j	31.5mm	2 Nos
k	26.5mm	2 Nos
l	25mm	2 Nos
m	22.4mm	2 Nos
n	20.0mm	2 Nos
o	19.0mm	2 Nos
p	18mm	2 Nos
q	16mm	2 Nos
r	14mm	2 Nos
s	13.2mm	2 Nos
t	12.5mm	2 Nos
v	11.2mm	2 Nos
u	10mm	2 Nos
w	9.5mm	2 Nos
x	6.3mm	2 Nos
y	5.6mm	2 Nos
z	4.75mm	2 Nos
2	Test Sieves Set 200mm internal diameter (Brass frame & steel or brass wire cloth mesh) as per IS complete with lid & pan of sieve	
a	37.5mm	2 Nos
b	26.5mm	2 Nos
c	22.4mm	2 Nos
d	19mm	2 Nos
e	16mm	2 Nos
f	14mm	2 Nos
g	13.2mm	2 Nos
h	12.5	2 Nos
i	11.2mm	2 Nos
j	10mm	2 Nos
k	9.5mm	2 Nos
l	4.75mm	2 Nos
m	2.8mm	2 Nos
n	2.36mm	2 Nos
o	2.0mm	2 Nos

Sl. NO	EQUIPEMENT LIST'S	QUANTITY
p	1.80mm	2 Nos
q	1.7mm	2 Nos
r	1.4mm	2 Nos
s	1.18mm	2 Nos
t	1.0mm	3 Nos
v	0.600mm	2 Nos
u	0.425mm	2 Nos
w	0.355mm	2 Nos
x	0.300mm	2 Nos
y	0.180	2 Nos
z	0.090mm	2 Nos
aa	0.075mm	6 Nos
3	Measuring cylinder - Borosilicate glass - 100ML	40 Nos
4	Glass Thermometer 00c to 3000c	10 Nos
5	Flash filtering borosil glass - 2000ML	1 No
6	Flash filtering borosil glass - 5000ML	1 No
7	Round hot Plate	2 Nos
8	Measuring cylinder - Borosilicate glass - 1000ML	4 Nos
9	Measuring cylinder - Borosilicate glass - 250ML	4 Nos
10	Measuring cylinder- Borosilicate glass - 500ML	4 Nos
11	Beakers - glass borosil - low from cap 600ML	4 Nos
12	Compaction pedestal - 4"	4 Nos
13	Extractor plate - 6" dia for marshal test	1 No
14	Rammer marshal - 4"	4 Nos
15	Thermometer Infra red - MTX - 2	2 Nos
16	LE - Chatlier mould one set of six	2 Nos
17	Cone penetrometer	1 No
18	Los angeles abrasion testing machine	1 No
19	Marshal Mould - 4" dia	51 nos
20	G.I Tray - 1500*1500*100MM	4 Nos
21	Compaction pedestal - 6"	1 No
22	Marshal stability apparatus	1 No
23	Measuring cylinder- Plastic - 50ML	4 Nos
24	Measuring cylinder- Plastic - 250ML	2 Nos
25	Measuring cylinder- Plastic - 500ML	2 Nos
26	Measuring cylinder- Plastic - 1000ML	2 Nos
27	Vibrating machine with digital timer	1 No
28	Hot Air Oven - Thermostatic - NoN Digital - 45*45*45 CM	1 No
29	Hot Air Oven - Thermostatic - NoN Digital - 90*60*60 CM	1 No
30	Penetration cup - 55*70 MM	2 Nos
31	Penetration cup - 55*35MM	6 Nos
32	Standard Penetrometer - Automatic with digital timer	1 No
33	proctor compaction mould 100mm dia with 2.69kg Rammer mid steel	4 Nos
34	proctor compaction mould 150mm dia with 4.89kg Rammer mid steel	6 Nos
35	proving ring compression type 10kn	1 Nos

Sl. NO	EQUIPEMENT LIST'S	QUANTITY
36	proving ring compression type 2.5kn	1 Nos
37	proving ring compression type 25kn	1 Nos
38	proving ring compression type 50kn	1 Nos
39	pycnometer bottle	4 Nos
40	Rapid moisture meter-0-25%	4 Nos
41	Riffle sample divider -G.I-20mm , no of slot ;16	1 nos
42	Riffle sample divider -G.I-40mm , no of slot ;12	1 Nos
43	Pipette borosilicate glass - 10 ml	4 Nos
44	Sant equivalent value test apparaus with accessories	1 Nos
45	fileld density test app - sand replacement method small	2 Set
46	shrinkage limit set W/O mercury	1 Nos
47	Mercury 250 Gm	1 Nos
48	Buoyancy balance	1 Nos
49	Spatula 8"	10 Nos
50	Spatula 4"	10 Nos
51	Standard sand - grade III - Bag of 25 kg	2 Nos
52	Standard sand - grade I - Bag of 25 kg	2 Bag
53	Standard sand - grade II - Bag of 25 kg	2 Bag
54	stanard penetrometer - automatic with digital timer	1 Nos
55	Beaking head assembly - 6'	1 Nos
56	Bulk density cylindrical metal measure - 15 LTR	1 Nos
57	Bulk density cylindrical metal measure - 5 LTR	1 Nos
58	Bulk density cylindrical metal measure - 30 LTR	1 Nos
59	Calcium carbide - 500 GM for rapid moisture meter	10 Nos
60	Liquid limits device - hand operated	1 Nos
61	CBR mould mild steel 150mm dia eith collar and base plate	60 Nos
62	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 July - 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 JULY-2019

Sr. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous(Jun) month			Tests conducted during reporting month upto 31 st JULY-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	0	313	313	0	82
1.2	Atterberg Limits	IS:2720 (Part5)	1 test / 250 meters	313	313	0	82	0	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	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	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	0
2.0 Borrow Area for EMB/Subgrade (MoRT&H 305)																
2.1	Grain size analysis	IS:2720 (Part4)	1 test / 1500 m ³	425	425	0	302	0	30	30	0	13	455	455	0	315
2.2	Atterberg Limits	IS:2720 (Part5)	1 test / 1500 m ³	425	425	0	302	0	30	30	0	13	455	455	0	315
2.3	Proctor	IS:2720 (Part8)	1 test / 1500 m ³	425	425	0	302	0	30	30	0	13	455	455	0	315
2.4	Free Swell index	IS:2720 (Part40)	1 test / 1500 m ³	425	425	0	302	0	30	30	0	13	455	455	0	315
2.5	California bearing ratio	IS:2720 (Part16)	1 test / 3000 m ³	63	63	0	34	0	2	0	2	0	65	63	2	34
2.6	Direct shear Test	IS:2720 (Part13)	1 test / 3000 m ³	0	0	0	0	0	10	10	0	4	10	10	0	4
3.0 Cutting portion & Existing for EMB/SG (MoRT&H 305)																
3.1	Grain size analysis	IS:2720 (Part4)	1 test / 1500 m ³	10	8	0	5	0	0	0	0	0	10	8	0	5
3.2	Atterberg Limits	IS:2720 (Part5)	1 test / 1500 m ³	10	8	0	5	0	0	0	0	0	10	8	0	5
3.3	Proctor	IS:2720 (Part8)	1 test / 1500 m ³	10	8	0	5	0	0	0	0	0	10	8	0	5
3.4	Free Swell index	IS:2720 (Part40)	1 test / 1500 m ³	10	8	0	5	0	0	0	0	0	10	8	0	5
3.5	California bearing ratio	IS:2720 (Part16)	1 test / 3000 m ³	8	6	2	3	0	0	0	0	0	8	6	2	3
4.0 FLYASH For Embankment																
4.1	Liquid Limit & Plastic limit	TABLE-1	1 test / 1500 m ³	75	75	0	63	0	0	0	0	0	75	75	0	63
4.2	Maximum Dry Density	Clause 5.2	1 test / 1500 m ³	75	75	0	63	0	0	0	0	0	75	75	0	63
4.3	Grain size analysis	IS:2720 (Part4)	1 test / 3000 m ³	5	5	0	2	5	5	5	0	2	10	10	0	4
4.4	Direct shear Test	IS:2720 (Part13)	1 test / 3000 m ³	5	5	0	2	5	5	5	0	2	10	10	0	4
5.0 Field Density Test MoRT&H 305																
5.1	Field density (OGL)	IS:2720 (Part28)	1 test / 3000 sqm	2521	2425	96	702	346	346	0	136	2867	2771	96	838	
5.2	EMB field density	IS:2720 (Part28)	1 test / 3000 sqm	8741	8264	477	1909	1891	1906	15	339	10647	10155	492	2248	
5.3	SG field density	IS:2720 (Part28)	1 test / 2000 sqm	1077	1041	36	421	555	555	3	148	1632	1593	39	569	
5.4	Shoulder field density	IS:2720 (Part28)	1 test / 2000 sqm	323	320	3	30	0	0	0	0	323	320	3	30	
5.5	Ground improvement (Flyash)	IS:2720 (Part28)	1 test / 2000 sqm	1556	1550	6	73	1040	1022	18	80	2596	2572	24	153	
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	0
6.2	Backfilling field density		1 test / 1000 m ³	704	704	0	36	0	0	0	0	704	704	0	36	
6.3	RE Wall field density		As required	0	0	0	0	0	0	0	0	0	0	0	0	0

Sr. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous(Jun) month			Tests conducted during reporting month upto 31 st JULY-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	48	44	4	44	2	2	0	2	50	46	4	46
7.2	Grain size analysis	IS:2720 (Part4)	As required	48	48	0	44	2	2	0	2	50	50	0	46
7.3	Proctor	IS:2720 (Part8)	As required	48	48	0	44	2	2	0	2	50	50	0	46
7.4	Direct shear Test	IS:2720 (Part13)	As required	48	41	7	44	2	2	0	2	50	43	7	46
7.5	Bearing Capacity / Plate Load Test	IS:6403 / IS 1888	As required	5	5	0	5	0	0	0	0	5	5	0	5
8.0 CTSB Mix Design/Site Frequency MoRT&H 403															
8.1	Gradation	Table 400-4	1 test/400m ³	60	60	0	60	40	40	0	18	100	100	0	78
8.2	Atterberg Limits	IS:2720 (Part5)	1 test/400m ³	19	19	0	19	4	4	0	3	23	23	0	22
8.3	Proctor	IS:2720 (Part8)	As required	6	6	0	6	4	4	0	3	10	10	0	9
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	2	2	0	1	5	5	0	4
8.7	Field Density	IS:2720 (Part28)	1 set of 2 Test per	166	166	0	91	156	156	0	103	322	322	0	194
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)	As required	47	47	0	43	38	38	0	12	85	85	0	55
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

Sr. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous(Jun) month			Tests conducted during reporting month upto 31 st JULY-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
11.0 WMM Mix Design														
11.1	Gradation	Table 400-3	1 test/200m ³	25	0	0	25	0	0	0	25	0	0	25
11.2	Aggregate Impact Value	IS:2386 Part-4	1 test/ 1000 m ³	3	0	0	3	0	0	0	3	0	0	3
11.3	Flakiness & Elongation index	IS:2386 Part1	1 test/ 500 m ³	2	0	0	2	0	0	0	2	0	0	2
11.4	Atterberg Limits	IS:2720 (Part5)	1 test/200m ³	2	0	0	2	0	0	0	2	0	0	2
11.5	Water absorption & Sp.Gravity	IS:2386 Part2	As required	4	0	0	4	0	0	0	4	0	0	4
11.6	Proctor	IS:2720 (Part8)	As required	2	0	0	2	0	0	0	2	0	0	2
11.7	CBR	IS:2720 (Part16)	As required	1	0	0	1	0	0	0	1	0	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
12.0 WMM Site Frequency MoRT&H 406														
12.1	Gradation	Table 400-3	1 test/200m ³	0	0	0	0	32	32	0	32	0	14	14
12.2	Aggregate Impact Value	IS:2386 Part-4	1 test/ 1000 m ³	0	0	0	0	9	9	0	9	0	7	7
12.3	Flakiness & Elongation index	IS:2386 Part1	1 test/ 500 m ³	0	0	0	0	11	11	0	11	0	8	8
12.4	Atterberg Limits	IS:2720 (Part5)	1 test/200m ³	0	0	0	0	23	23	0	23	0	14	14
12.5	Water absorption	IS:2386 Part2	As required	0	0	0	0	0	0	0	0	0	0	0
12.6	Proctor	IS:2720 (Part8)	As required	0	0	0	0	2	2	0	2	0	1	1
12.7	CBR	IS:2720 (Part16)	As required	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	39	39	0	39	0	34	34
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
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
15.0 Fine Aggregate MoRT&H 1008														
15.1	Grade / Sieve analysis	IS:2386 (Part1)	1 test per day	400	0	0	150	58	58	0	23	458	0	173
15.2	Specific gravity & Water absorption	IS:2386 (Part2)	As required	16	0	0	15	0	0	0	16	0	15	15
15.3	Fineness Modulus	MoRT&H Sec. 1008&383	1 test per day	258	0	0	78	58	58	0	23	316	0	101
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
15.5	Deleterious material/silt	IS:2386 (Part2)	1 test per source	0	0	0	0	0	0	0	0	0	0	0

Sr. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous(Jun) month			Tests conducted during reporting month upto 31 st JULY-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
16.0 Coarse Aggregate MoRT&H 1007														
16.1	Gradation	IS:2386 (Part2)	1 test per day	400	400	0	165	58	58	0	23	458	0	188
16.2	Specific gravity & Water absorption	IS:2386 (Part3)	As required	18	18	0	15	0	0	0	0	18	0	15
16.3	Aggregate Impact Value	IS:2386 (Part4)	1 test / each source	146	146	0	79	17	17	0	10	163	0	89
16.4	Flakiness index	IS:2386 (Part1)	1 test / each source & monthly	116	116	0	66	17	17	0	10	133	0	76
16.5	Soundness	IS:2386 (Part5)	As required	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
16.7	Deleterious constituents	IS:2386 (Part2)	1 test per source	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
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	4
17.2	Fineness	IS:4031 (Part1)	Every batch	202	202	0	122	12	12	0	3	214	0	125
17.3	Normal Consistency	IS:4031 (Part4)	Every batch	174	174	0	122	12	12	0	3	186	0	125
17.4	Initial, Final setting time	IS:4031 (Part5)	Every batch	174	174	0	122	12	12	0	3	186	0	125
17.5	Soundness of Cement	IS:4031 (Part3)	Every batch	145	145	0	99	11	11	0	3	156	0	102
17.6	Compressive Strength-set	IS:4031 (Part6)												
	3 days		1 test per Lot	127	127	0	84	12	12	0	3	139	0	87
	7 days		1 test per Lot	121	121	0	78	11	11	0	7	132	0	85
	28 days		1 test per Lot	107	107	0	70	14	14	0	6	121	0	76
18.0 Water														
18.1	Chemical test	IS 2386	1 test per source	5	5	0	5	0	0	0	0	5	0	5
19.0 Admixture														
19.1	Physical Properties	IS 9103	1 test per Lot	4	4	0	4	0	0	0	0	4	0	4
19.2	Chemical Test	IS 9103	1 test per source	3	3	0	3	0	0	0	0	3	0	3
20.0 Steel														
20.1	8 mm Dia	IS 1786		2	2	0	2	0	0	0	0	2	0	2
20.2	10 mm Dia	IS 1786		7	5	0	6	0	0	0	0	7	5	6
20.3	12 mm Dia	IS 1786		9	5	0	7	0	0	0	0	9	5	7
20.4	16 mm Dia	IS 1786		9	5	0	7	0	0	0	0	9	5	7
20.5	20 mm Dia	IS 1786		9	5	0	7	0	0	0	0	9	5	7
20.6	25 mm Dia	IS 1786		3	1	0	2	0	0	0	0	3	1	2
20.7	32 mm Dia	IS 1786		3	2	0	3	0	0	0	0	3	2	3

Sr. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous(Jun) month			Tests conducted during reporting month upto 31 st JULY-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	130	127	0	90	48	48	0	10	178	175	0	100
	28Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	211	211	0	154	49	49	0	25	260	260	0	179
M20 KERB															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	0	0	0	0	30	30	0	13	30	30	0	13
	28Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	0	0	0	0	3	3	0	3	3	3	0	3
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	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	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	89	89	0	63	13	13	0	7	102	102	0	70
	28Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	183	183	0	103	19	19	0	15	202	202	0	118
M30 RCC PUMPABLE															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	4	4	0	2	0	0	0	0	4	4	0	2
	28Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	8	8	0	4	0	0	0	0	8	8	0	4
M35 RCC															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	141	141	0	109	0	0	0	0	141	141	0	109
	28Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	291	291	0	208	14	14	0	8	305	305	0	216
M35 RCC PILING															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	285	285	0	193	43	43	0	17	328	328	0	210
	28Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	689	683	0	454	42	42	0	12	731	725	0	466
M35 RCC PUMPABLE															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	121	121	0	67	9	9	0	3	130	130	0	70
	28Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	317	317	0	192	29	29	0	11	346	346	0	203
M35 RE BLOCK															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	267	267	0	126	50	50	0	6	317	317	0	132
	28Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	617	617	0	316	139	139	0	59	756	756	0	375
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	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	6	6	0	6	0	0	0	0	6	6	0	6
M40 PUMP															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	3	3	0	3	13	13	0	13	16	16	0	16
	28Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	6	6	0	6	5	5	0	5	11	11	0	11
M40 PILE															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	93	93	0	64	151	151	0	22	244	244	0	86
	28Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	135	135	0	125	296	296	0	56	431	431	0	181
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	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	6	6	0	0	0	0	0	0	6	6	0	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	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	6	6	0	6	0	0	0	0	6	6	0	6
M60 PUMP															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	4	4	0	4	6	6	0	1	10	10	0	5
	28Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	9	9	0	9	3	3	0	3	12	12	0	12

7. Weather Report

DATE	Temperature (°C)		Rainfall in mm	Humidity in %		Remarks
	Min	Max		Min	Max	
7/1/2019	31.30	36.7	0.00	25	60	Sunny
7/2/2019	31.00	37.2	0.00	25	58	Sunny
7/3/2019	31.80	38.9	0.00	34	60	Sunny
7/4/2019	30.40	38.4	0.00	31	65	Sunny
7/5/2019	30.10	36.2	0.00	40	65	Sunny
7/6/2019	30.80	36.9	0.00	36	60	Sunny
7/7/2019	31.00	36.2	0.00	31	56	Sunny
7/8/2019	30.10	37.4	0.00	32	65	Sunny
7/9/2019	31.30	37.4	29.00	32	60	Rainfall
7/10/2019	28.20	34.5	0.00	47	77	Sunny
7/11/2019	28.10	32.8	0.00	28	66	Sunny
7/12/2019	28.90	35.1	0.00	49	73	Sunny
7/13/2019	27.70	33.6	0.00	56	78	Sunny
7/14/2019	29.50	34.5	3.00	49	72	Rainfall
7/15/2019	28.80	35.4	0.00	49	78	Sunny
7/16/2019	29.80	35.9	0.00	45	70	Sunny
7/17/2019	30.40	34.5	0.00	49	66	Sunny
7/18/2019	29.50	35.2	23.00	48	72	Rainfall
7/19/2019	29.10	33.2	0.00	57	76	Drizzling
7/20/2019	29.10	35.2	0.00	47	67	Sunny
7/21/2019	29.40	32.5	0.00	52	62	Sunny
7/22/2019	28.80	29.2	4.00	67	68	Rainfall
7/23/2019	27.40	33.5	0.00	47	72	Sunny
7/24/2019	29.30	36.1	0.00	42	70	Sunny
7/25/2019	30.40	36.1	23.00	42	65	Rainfall
7/26/2019	28.20	31.9	0.00	61	84	Sunny
7/27/2019	27.80	31.7	0.00	56	72	Sunny
7/28/2019	28.40	35.3	0.00	43	73	Sunny
7/29/2019	28.90	34.2	30.00	50	74	Rainfall
7/30/2019	27.50	34.9	0.00	50	87	Sunny
7/31/2019	29.60	35.2	0.00	44	74	Sunny

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

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



9. Support required from NHAI

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

1. Pending Disbursement of Payment to the beneficiaries from CALA towards Land and Buildings in Cuddalore, Ariyalur & Thanjavur District. – Request Authority to advise/instruct the Competent Authority of Land Acquisition to speed up the process of disbursement of pending payment. Total affected length due to issues in Land acquisition is 20.84 Km out of 50.48 Km.
2. Additional land acquisition for toll plaza, bus bays, turning radius of major junctions along the project highways.
3. 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	Special Permission received from PWD and for the period of 84days and expired the duration.
4	Cuddalore	kattumannar koil	Kuruchikollai	122	4.8	-	-
5	Cuddalore	Kurinipadi	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 02 nos of borrow area granted permission for the period 90 days and the same shall be extended up to 11 months.
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	Ulkkottai 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-	10.03.5	26.11.2018	

Sl. No	District	Taluk	Location/ Villages	Survey No	Area in Hectares	Date of Applied	Present Status
				2B			
13	Ariyalur	Udayarpalayam	Periya Eri, Papakudi	290	12.24	12.01.2018	Under process for submission of proposal to SIEAA committee for EC clearance.
14	Ariyalur	Udayarpalayam	Eswarakulam, Papakudi	185	5.7	12.01.2018	
15	Ariyalur	Udayarpalayam	Pandiyan eri.	283	5.7	02.03.2019	Temporary permission granted for 30 days and expired the duration.

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

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

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

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

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

Sl No	Description	Total scope (Nos.)	Submitted as on date (Nos.)	Approved as on date (Nos.)	Balance (Nos.)	Present Status
1	MNB	26	26	13	13	Under Processing with Engineer In Chief, Chennai
2	MJB	4	4	1	3	
	Total	30	30	14	16	

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

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

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

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

3	78+404	78+422	17.90	LHS	16.00	9.50
4	80+396	80+415	19.00	LHS	27.00	7.00
5	80+400	80+423	23.00	RHS	24.00	6.50
6	81+356	81+416	60.30	LHS	18.00	9.00
7	81+760	81+835	75.00	LHS	14.30	2.00
8	90+804	90+837	32.77	RHS	32.00	12.80
9	97+376	97+551	175.00	RHS	32.67	11.00
10	97+822	97+845	23.00	RHS	27.50	7.80
11	99+961	100+020	59.70	RHS	25.00	17.28
12	100+350	100+389	39.00	LHS	22.70	4.00
13	100+800	100+845	44.70	RHS	23.00	12.25
14	100+731	100+854	123.75	LHS	23.00	5.00
15	103+039	103+056	17.60	LHS	23.00	6.60
16	103+125	103+435	310.10	LHS	23.00	6.00
17	103+822	103+846	24.00	LHS	23.20	5.20
18	104+091	104+262	171.00	RHS	23.00	16.80
19	103+992	104+264	271.50	LHS	23.00	10.90
20	114+547	114+617	70.00	LHS	20.62	0.00
Total Length affected (in M)			1702.1			

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

Sl. No.	Chainage	Distance from PCL	Remarks/Action to be taken	Present Status
1	68+644 (02 Nos)	-	To be shifted to edge of PROW	The site inspection by irrigation officials has been done and the relocation estimate to be forwarded by the PWD, Chidambaram to NHAI.
2	81+850	9.3m	To be shifted to edge of PROW	
3	81+870	1.8m	To be shifted to edge of PROW	
4	81+910	1.8m	To be shifted to edge of PROW	
5	82+010	1.8m	To be shifted to edge of PROW	
6	82+100	7.4m	To be shifted to edge of PROW	
7	103+990	5.97m	To be shifted to edge of PROW	Approval of estimate is pending with NHAI

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

Sl no	Name of the Village	Location/Chainage	Effected Length (in Km)	Remarks
1	Nandeeswaramanagalam	78+400 to 79+400	1.00	Teak Trees under Forest Dept. to be removed.
2	Cholatharam	79+730	0.25	
3	Pudaiyur	81+860	0.20	
4	Pudaiyur	82+100	0.15	
5	Agaraputhur	84+680	0.25	
6	Agaraputhur	84+830	0.25	
7	Agaraputhur	84+990	0.28	
8	Mamangalam Addl.	85+450	0.21	
9	Mamangalam Addl.	85+420	0.15	

14. Removal of Religious structures of 19 Nos. and Bus stand from the proposed ROW.

SL No	Chainage	Type of Structure	Side	Distance from PCL (M)	TCS Type	Formation Width Required from PCL	ROW From PCL	Remarks
Priority I – Obstruction of Main Carriage way & Service Road :-								
1.	85+955	Temple	RHS	10	Type - B with SR 7.5	21.25	30.00	
2.	86+350	Temple	LHS	7	Type - B with SR 7.5	21.25	26.10	
3.	87+500	Temple	LHS	13	Fig -7.8 with SR 5.5	22.75	26.80	
4.	88+850	Temple	RHS	6	Type - B with SR 7.5	21.25	22.70	
5.	92+455	Temple	LHS	14	Type - A3	18.80	23.70	
6.	92+570	Temple	RHS	12	Type - B with SR 7.5	21.25	28.80	
Priority II – Obstruction of Service Road :-								
1.	75+650	Temple	RHS	15	Fig -7.8 with SR 5.5	22.75	25.50	
2.	80+125	Temple	RHS	16	Type -A3	20.80	23.50	
3.	83+615	Temple	RHS	16	Type - B with SR 7.5	21.25	21.25	
4.	84+070	Temple	LHS	16	Type - B with SR 7.5	21.25	29.00	
5.	86+280	Temple	RHS	23	Type - B with SR 7.5	21.25	30.00	
6.	86+390	Temple	LHS	18	Type - B with SR 7.5	21.25	26.10	
7.	89+310	Temple	RHS	16	Type - B with SR 7.5	21.25	22.50	
8.	90+325	Temple	RHS	14	Fig -7.8 with SR 5.5	22.75	23.00	
Priority III – Falling Within ROW and effecting the Utility shifting works:-								
1.	76+600	Temple	RHS	24.5	Type - B with SR 7.5	21.25	31.10	
2.	91+780	Temple	RHS	22	TCS - 1	14.00	26.00	
3.	92+135	Temple	LHS	22	Type - A3	15.65	26.00	
4.	99+710	Temple	LHS	20	Type - A3	17.95	25.00	
5.	114+550	Temple	RHS	17	Type - A3	18.00	22.70	

15. Removal of Government Buildings like VAO office, School, Post Office & Ration Shop etc. 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		W.P.No.14874/2018 dated 21.06.2018
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	-

10. Important Events

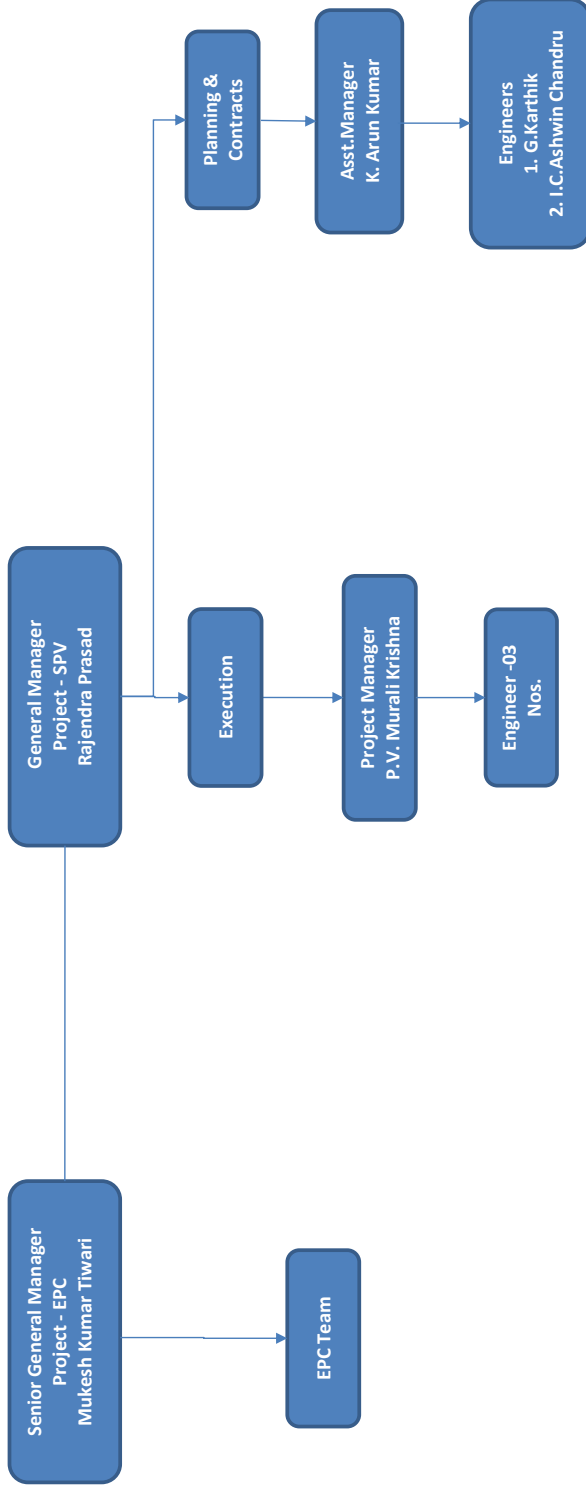
Table 10.1. Details of Important Events			
Sl. No	Date of Events	Description of Events	Remarks
1.	01.07.2019	Meeting with OSD, MoRT&H at RO, NHAI, Madurai	
2.	22.07.2019	Meeting with District Collector, Ariyalur in the presence of Project Director & Manager (Tech) NHAI regarding the long pending issues towards the removal of existing structures along the project highway in Ariyalur District	
3.	25.07.2019	Meeting with RDO & LA officials regarding the evacuation programme for removal of hindered buildings in the Ariyalur district.	

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

Figure 5 - ORGANIZATION CHART - SPV TEAM



12. List of Plants, Machinery and Equipment's

Table 12.1 - List of Plants, Machinery and Equipment's				
S.No.	Name of the Machinery	Capacity / Model	Mobilized in Nos.	Remarks
1	Grader	120K2	8	
2	Excavator	JCB-220	13	
3	Dozer		1	
4	Soil Compactor	HAMM 311	7	
5	Backhoe Loader	JCB 3DX	7	
6	Tipper	Bharat Benz- 3128C	129	
7	Transit Mixture	2523C	12	
8	Loader	455 ZX	4	
9	Trailer		4	
10	Water Tanker		12	
11	Boom Placer	S-36	1	
12	Tractor	5036 D V-2	2	
13	Mobile Service Van		1	
14	Tower Light	AJASKY	7	
11	Hydra Crane		5	
12	Asphalt Batch Mix Plant		1	
13	Wet Mix Plant	250 TPH	1	
14	Concrete Batch Mix Plant	45 cum	1	
15	Concrete Batch Mix Plant	60 cum	2	
16	Crusher Plant (3 Stage)	250 TPH	3	
17	Weigh Bridge for Camp 100MT	100MT	3	
18	Weigh Bridge for Crusher 100MT	100MT	2	
19	Genset Base Camp	25KV	2	
20	Genset 63KVA Boiler	63KVA Boile	1	
21	Genset (H.M & B/P)	82.50KV	3	
22	Genset (B/P-CP-45)	125KV	3	
23	Genset Concrete Plant-180 KVA	180 KVA	6	
24	Genset (Crusher)	1010KVA	1	
25	Gantry at Box Segment Casting Yard	100 MT	2	

13. Change of Scope Proposals

Table 13.1 - Status of Change of Scope Proposals

Sl. No	Proposal Details	Date of Proposal	Current Status	COS Amount	Actual Date of Approval
1	Replacement of Pipe 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
5	COS proposal for 09 nos of Box culvert and 01 MNB under +ve COS and 01 nos of Box culvert under -ve COS.	07.06.2019	IE had submitted the COS proposal to Authority vide Lr.No.TES/IE/SCP/NHAI/2019/087 dated 07.06.2019 for 09 nos of Box culvert and 01 MNB under +ve COS and 01 nos of Box culvert under -ve COS.	NA	NA

14. Details of Correspondences

The following tables list out the correspondences between the parties.

Table 14.1. - Concessionaire to NHAI

Table 14.2. - NHAI to Concessionaire

Table 14.3. - Concessionaire to Independent Engineer

Table 14.4. - Independent Engineer to Concessionaire

TABLE 14.1 - CORRESPONDANCE - CONCESSIONAIRE TO NHAI

S.No	Date	Letter No	Subject	Remarks
1	03.07.2019	PSCHPL/SCP/NHAI/2019/441	RA Bill No 5- Shifting of water supply as per clause 11.2.1 of concession agreement	
2	03.07.2019	PSCHPL/SCP/NHAI/2019/442	Submission of our GST payment auditor certificate for TWAD RA Bill No 02 & 03 of pipeline utility shifting works	
	10.07.2019	PSCHPL/SCP/NHAI/2019/446A	RA Bill No 4- Shifting of water supply as per clause 11.2.1 of concession agreement	
3	12.07.2019	PSCHPL/HO/SCP/PIU/011/2019	Submission of certificate for lower rate deduction of TDS for the above captioned project work	
4	16.07.2019	PSCHPL/HO/SCP/PIU/012/2019	Submission of price index multiple after declaration of appointed date	
5	24.07.2019	PSCHPL/SCP/NHAI/2019/458	Proposal for using of Black granite wastage in the project-Request recommendation to DC, Perambalur in this regards	

TABLE 14.2 - CORRESPONDANCE - NHAI TO CONCESSIONAIRE

S.No	Date	Letter No	Subject	Remarks
1	02.07.2019	NHAI/PIU/Thanj/1 1025/18/2018/1285	NOC required from irrigation department for commencement of construction of Mbs MJBs-Reg	
2	10.07.2019	NHAI/PIU/Thanj/1 1025/09/2018/1369	Shifting of water supply utilities	
3	08.07.2019	NHAI/PIU/Thanj/1 1023/01/2009/1340	Creation of centralized Data Bank/ Data Archives of all NHAI projects available at Ros / PIU under command & control centre at NHAI HQ	
4	05.07.2019	NHAI/PIU/Thanj/1 1099/05/2009/1315	Application under Right to information Act '2005 by R. Seenivasan	
5	05.07.2019	NHAI/PIU/Thanj/1 1025/09/2018/1330	Remittance towards welfare cess Tamilnadu workers welfare board	
6	16.07.2019	NHAI/PIU/Thanj/1 1019/03/2009/1396	Survey No 70/7A1 Sethiyathope Village of Bhuvanagiri Taluk in Cuddalore District - No objection Certificate requested	
7	15.07.2019	NHAI/PIU/Thanj/1 1025/03/2009/1398	Construction of vehicular underpass crossing SH70-Proposed FRL	
8	15.07.2019	NHAI/PIU/Thanj/1 1025/03/2009/1399	Public Representation of Vallakuttai Village of Udayarpalayam Taluk in Ariyalur	
9	16.07.2019	NHAI/PIU/Thanj/1 1025/03/2009/1400	Survey No 252/17B2 Cholotharam village of kattumannarkovil Taluk in Cuddalore District	
10	20.07.2019	NHAI/PIU/Thanj/1 1019/03/2009/1421	Construction of vehicular underpass crossing SH70-Proposed FRL	

TABLE 14.3 - CORRESPONDANCE - CONCESSIONAIRE TO INDEPENDENT ENGINEER				
S.No	Date	Letter No	Subject	Remarks
	02.07.2019	PSCHPL/SCP/IE/2019/440	Compliance report - Revised Design and drawings of Pile Cap A1 (RHS) of Grade Separator at Km.69+ 785	
1	04.07.2019	PSCHPL/SCP/IE/2019/443	Approval of Plan & Profile Drawings for Slip Road between Km 72+339 to Km 72+765(RHS) and Km 72+360 to Km 72+785 (LHS)	
2	04.07.2019	PSCHPL/SCP/IE/2019/444	Submission of monthly progress report for the month of June 2019	
	08.07.2019	PSCHPL/SCP/IE/2019/445	Submission of fly Ash details for cement concrete & CTSB	
3	09.07.2019	PSCHPL/SCP/IE/2019/446	Submission of Concrete Mix Design Reports for M-15 PCC, M-30 RCC, M-35 RCC, M-35 (Pumpable) & M-35 (Piling)	
4	15.07.2019	PSCHPL/SCP/IE/2019/447	Submission of Soil Test Reports for the Borrow Area No.22	
5	15.07.2019	PSCHPL/SCP/IE/2019/448	Submission of Test reports for fly ash (Extn-04)	
6	15.07.2019	PSCHPL/SCP/IE/2019/449	Submission of concrete mix design reports of M-20 (kerb)	
7	16.07.2019	PSCHPL/HO/SCP/IE/013/2019	Request for extension of time for project completion schedule (Schedule -G) of concession Agreement	
8	16.07.2019	PSCHPL/HO/SCP/IE/014/2019	Submission of IPC No.1 as per Sub-Clause 23.4 of concession agreement	
9	15.07.2019	PSCHPL/SCP/IE/2019/450	Submission of WMM trial stretch	
10	20.07.2019	PSCHPL/SCP/IE/2019/451	Video Recording as per the clause 13.6 of Concession Agreement for the quarterly period of April to June 2019	
11	20.07.2019	PSCHPL/SCP/IE/2019/452	Submission of Soil Test Reports for the Borrow Area No.20	
12	22.07.2019	PSCHPL/SCP/IE/2019/454	Submission of Design & Drawing for 16 Nos of Box culverts at service road of project highway	
13	23.07.2019	PSCHPL/SCP/IE/2019/455	Submission of kerb drawing for flexible pavement of the project highway	
14	23.07.2019	PSCHPL/SCP/IE/2019/456	Submission of Revised Design and Drawings for a Minor Bridge at Ch. 112+810 on Service Road of the Project Highway (R4) - Compliance Report	
15	24.07.2019	PSCHPL/SCP/IE/2019/457	Submission of initial pile load test report for a GSI at ch 98+950	

TABLE 14.4 - CORRESPONDANCE - INDEPENDENT ENGINEER TO CONCESSIONAIRE / NHAI				
S.No	Date	Letter No	Subject	Remarks
1	02.07.2019	TES/IE/SCP/NHAI/2018/093	Issue of No Objection Certificate for proposed MS/HSD Retail outlet abutting on Right side Boundary of NH-45C Road (Vikravandi - Kumbakonam - Thanjavur section) from km 89/896 to Km 89/931 In Survey No.358nB2A & 7828 of village Papakudi South in Taluk of Udayarpalayam of the Ariyalur District- Remarks called for	
1	02.07.2019	TES/IE/SCP/PIL/2019/339	Layout of MJB at km 73 + 340	
2	05.07.2019	TES/IE/SCP/PIL/2019/340	Submission of GFC drawings for 03 Nos of Minor Bridge	
3	06.07.2019	TES/IE/SCP/PIL/2019/342	M-20 Concrete mix design	
	12.07.2019	TES/IE/SCP/PIL/2019/343	Proposal of borrow area No 07 (Extension No :03)	
	12.07.2019	TES/IE/SCP/PIL/2019/344	Mix design of CTSB	
	12.07.2019	TES/IE/SCP/PIL/2019/345	Submission of revised drawing of major bridge at design Ch.107 + 400	
	12.07.2019	TES/IE/SCP/PIL/2019/346	Concrete Mix Designs for M-15 PCC,M-30 RCC, M-35 RCC, M-35 RCC (Pump) & M-35 (Pile)	
4	12.07.2019	TES/IE/SCP/PIL/2019/347	NOC required from irrigation Dept for commencement of construction of MNBs/MJBs	
5	13.07.2019	TES/IE/SCP/PIL/2019/348	Comments on MPR for the month of June-2019	
6	23.07.2019	TES/IE/SCP/NHAI/2019/096	No Objection Certificate requested	
7	23.07.2019	TES/IE/SCP/NHAI/2019/097	No Objection Certificate requested	
8	23.07.2019	TES/IE/SCP/NHAI/2019/098	Ground Investigation at CH 69+ 790 Proposed FRL	
9	24.07.2019	TES/IE/SCP/NHAI/2019/099	IPC-01	
10	24.07.2019	TES/IE/SCP/NHAI/2019/100	Notice for not achieving the project milestone-II	
11	22.07.2019	TES/IE/SCP/PIL/2019/349	Proposal of Borrow Areas No-22	
12	22.07.2019	TES/IE/SCP/PIL/2019/350	Fly Ash (ext -04)	
13	22.07.2019	TES/IE/SCP/PIL/2019/351	Submission of revised design and drawing of pile cap abutment A1 (RHS) of grade separator at km 69+ 785	

15. Progress Photographs

Sl. No	Description	Location	Side	Remarks
1.	BOX CULVERT - SLAB COMPLETED	75+558	LHS	
2.	BOX CULVERT – SLAB COMPLETED	83+012	LHS	
				
Sl. No	Description	Location	Side	Remarks
3.	BOX CULVERT - SLAB COMPLETED	83+065	LHS	
4.	BOX CULVERT - SLAB WORK IN PROGRESS	103+220	LHS	
				

Sl. No	Description	Location	Side	Remarks
5.	MINOR BRIDGE - SLAB COMPLETED	74+605	BHS	
6.	MINOR BRIDGE - SLAB COMPLETED	79+795	LHS	
				
Sl. No	Description	Location	Side	Remarks
7.	MINOR BRIDGE- SLAB COMPLETED	82+007	LHS	
8.	MINOR BRIDGE- SLAB COMPLETED	85+435	LHS	
				

Sl. No	Description	Location	Side	Remarks
9.	VUP - PILE WORK IN PROGRESS	72+545	RHS	ABUTMENT - 2
10.	VUP - ABUTMENT WALL COMPLETED	75+830	RHS	ABUTMENT - 1
 				
Sl. No	Description	Location	Side	Remarks
11.	VUP - ABUTMENT WALL COMPLETED	97+225	RHS	ABUTMENT - 1
12.	VUP - ABUTMENT CAP COMPLETED	106+318	BHS	ABUTMENT - 1 & 2
 				

Sl. No	Description	Location	Side	Remarks
13	VUP - ABUTMENT WALL COMPLETED	111+235	RHS	ABUTMENT - 1
14	VUP - ABUTMENT WALL COMPLETED	111+235	RHS	ABUTMENT - 2



Sl. No	Description	Location	Side	Remarks
15	LVUP - WALL 1st LIFT COMPLETED	112+643	RHS	ABUTMENT - 1 & 2
16	LVUP - RETAINING WALL 1st LIFT COMPLETED	112+643	RHS	ABUTMENT - 1



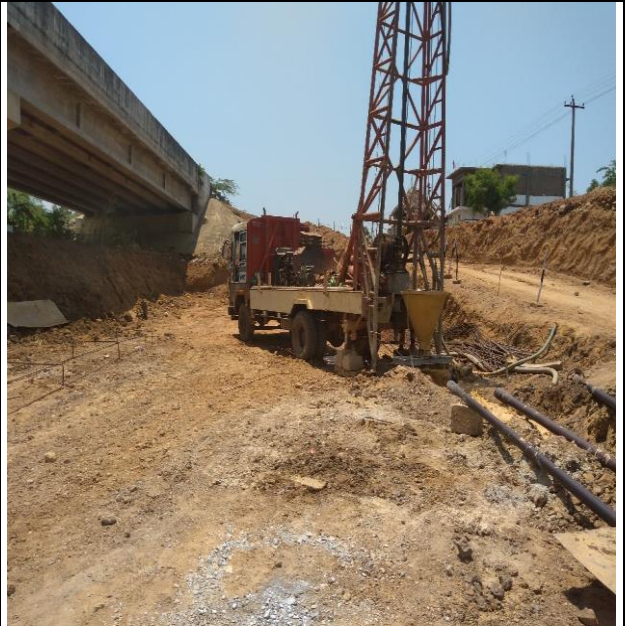
Sl. No	Description	Location	Side	Remarks
17	GSI - PILE CAP COMPLETED	74+655	LHS	ABUTMENT - 1
18	GSI - PILE CAP COMPLETED	69+785	RHS	ABUTMENT - 2



Sl. No	Description	Location	Side	Remarks
19	GSI - ABUTMENT WALL COMPLETED	104+570	RHS	ABUTMENT - 1
20	GSI - ABUTMENT WALL WORK IN PROGRESS	104+570	LHS	ABUTMENT - 2



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



Sl. No	Description	Location	Side	Remarks
23	MJB - PILE WORK IN PROGRESS	66+543	BHS	PIER- 06
24	MJB - PILE WORK IN PROGRESS	66+543	BHS	PIER- 07



Sl. No	Description	Location	Side	Remarks
25	MJB - PILE WORK IN PROGRESS	107+400	BHS	
26	MJB - PILE CAP COMPLETED	107+400	LHS	PIER- 05



Sl. No	Description	Location	Side	Remarks
27	MJB - SEGMENT CASTING YARD	107+400	-	
28	MJB - SEGMENT CASTING WORK IN PROGRESS	107+400	-	



Sl. No	Description	Location	Side	Remarks
29	EARTHWORK IN PROGRESS	76+400 to 77+200	LHS	
30	EARTHWORK IN PROGRESS	78+000 to 78+300	LHS	
				
Sl. No	Description	Location	Side	Remarks
31	EARTHWORK IN PROGRESS	105+400 to 105+700	RHS	
32	EARTHWORK IN PROGRESS	111+570 to 112+100	LHS	
				

Sl. No	Description	Location	Side	Remarks
33	CTSB WORK IN PROGRESS	82+700 TO 83+005	LHS	
34	CTSB WORK IN PROGRESS	91+860 TO 92+100	RHS	
				
Sl. No	Description	Location	Side	Remarks
35	CTSB WORK IN PROGRESS	92+000 TO 92+350	LHS	
36	WMM WORK IN PROGRESS	81+510 TO 81+810	LHS	
				

Sl. No	Description	Location	Side	Remarks
37	RCC DRAIN RAFT WORK IN PROGRESS	82+242 TO 82+420	RHS	
38	RCC DRAIN WALL COMPLETED	82+240 TO 82+340	RHS	

