



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

PATEL SETHIAHOPU - 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
SEPTEMBER 2019

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Executive Summary

The old National Highway (NH -45C) runs through the state of Tamil Nadu. The project road is part of the 168 km long Vikravandi to Thanjavur section of the existing National Highway 45C (NH-45C). Recently MORTH has amended the number and Length of the National Highways. The old NH 12 in the state of Tamil Nadu has become the part of the New National Highway 36. It links Chennai with Thanjavur and is 418 km long.

The Sethiyahopu to Cholopuram section of NH-45C is an important link to connect Metropolitan city of Chennai to religious and tourist places of Cholopuram, Thanjavur, kumbakonam, Puducherry. The project is also expected to provide improved connectivity to other religious places & other major cities like Rameswaram, Madurai, Tiruchirappalli, etc. The Project stretches passing through the 03 nos. of districts of Cuddalore, Ariyalur and Thanjavur.

Project Synopsis

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

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

Figure 1: Project Location Map

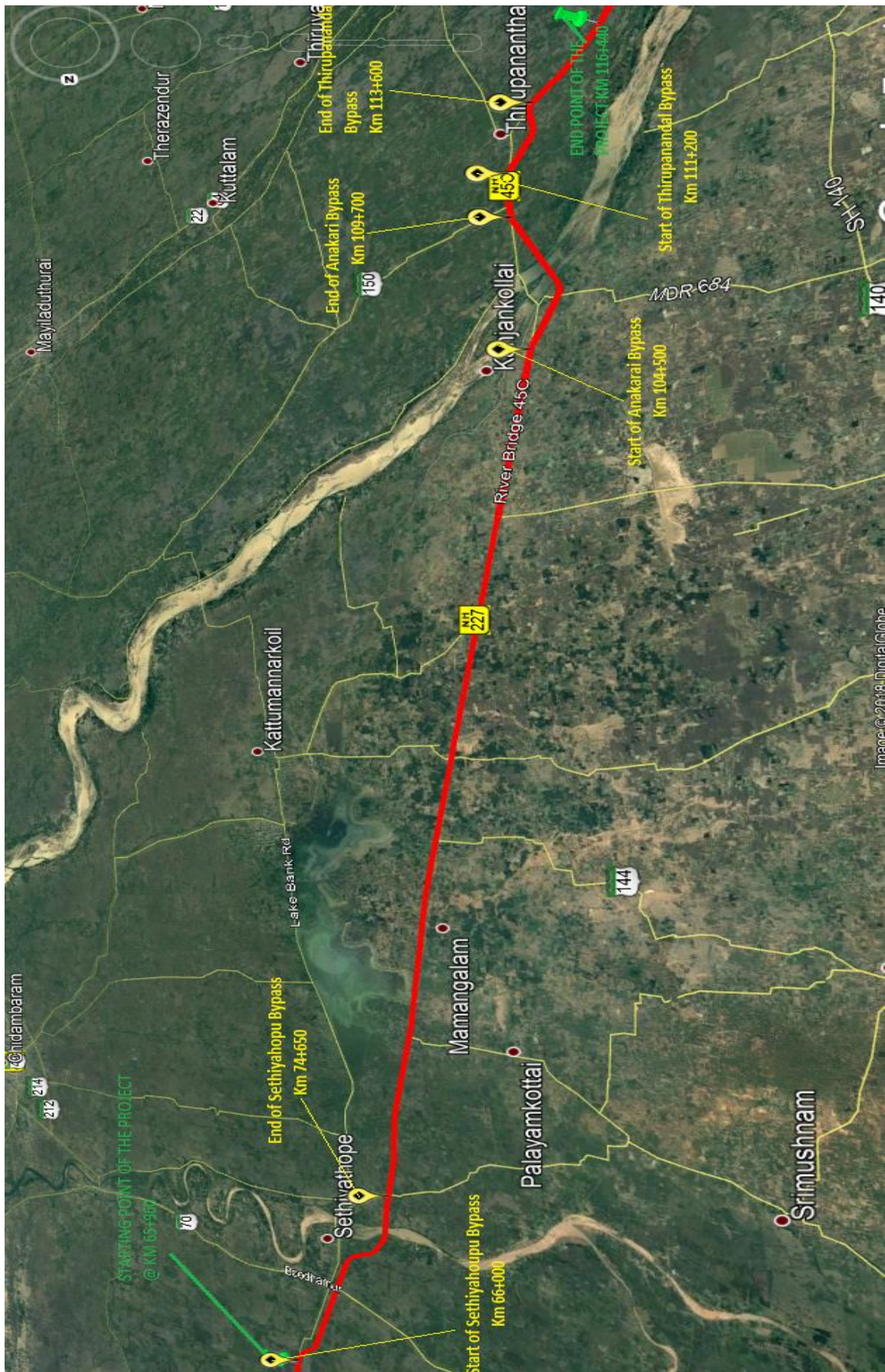
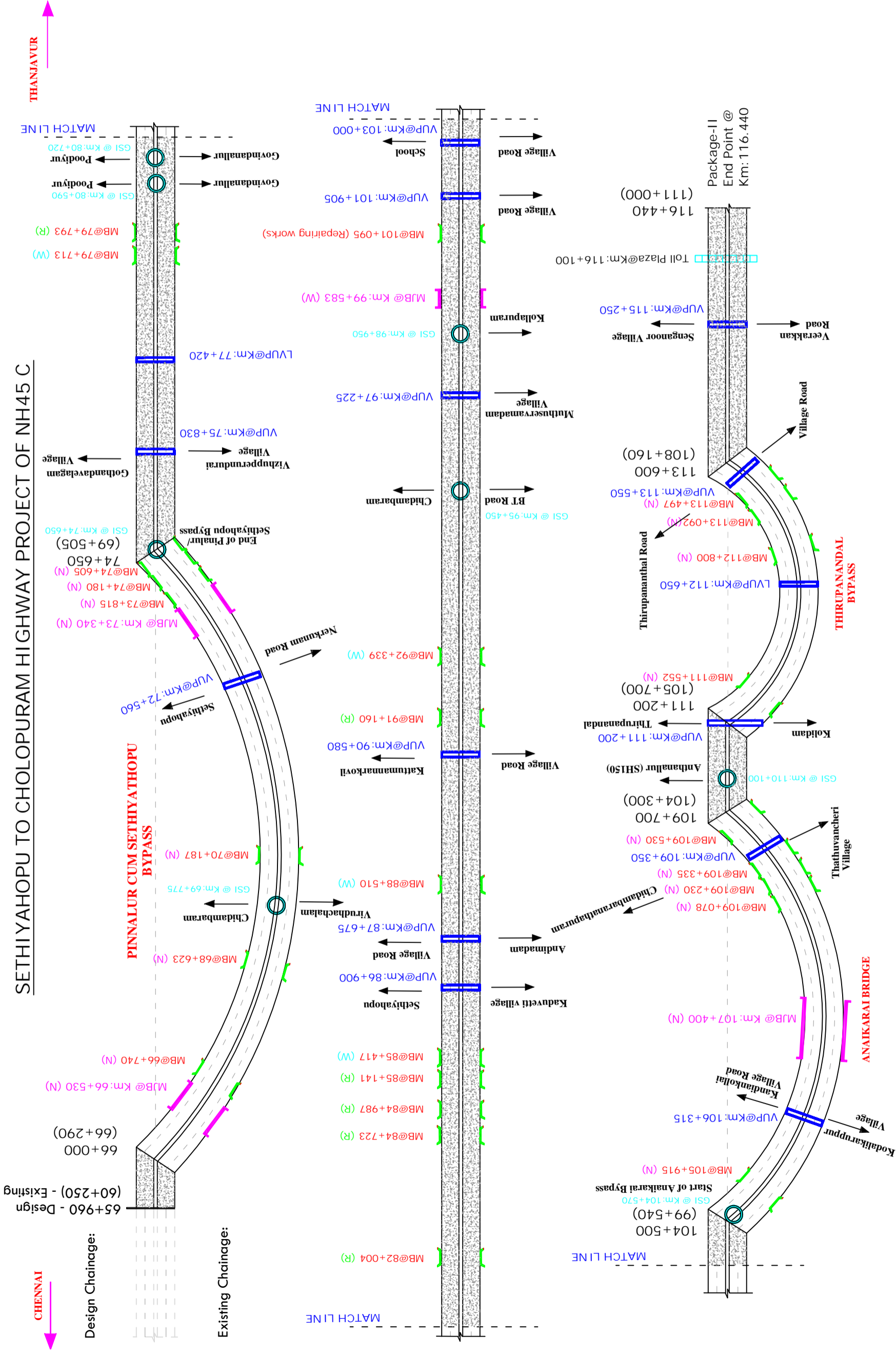


Figure 2: Project Alignment Map



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

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

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

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

Anaiakarai Bypass
Km: 104+500 to 109+700

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

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

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

Thirupanandal Bypass
Km: 111+200 to 113+600

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

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

Sl 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

LEGENT:

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

Salient Features of Project:

Sl No	Description	Unit	Scope
1.	Total Length of Project	Km	50.480
2.	Length of Widening Portion	Km	34.230
3.	Length of Bypass	Km	16.250
4.	Length of service/Slip Road	Km	27.100
5.	Culverts	Nos.	53
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 - Sethiyahopu 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	1.770	
6.	Rural Water Supply lines	Km	19.84	
7.	NOC Irrigation Dept.	Km	0.960	
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	574	136	
2	Ariyalur	355	287	68	
3	Thanjavur	102	91	11	
	Total in Nos.	1167	952	215	
		Total in %	81.57%	18.43%	

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	320	63	
2	Ariyalur	359	325	34	
3	Thanjavur	153	50	103	
	Total in Nos.	895	695	200	
		Total in %	77.65%	22.35%	

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.
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 & Trnasformer.
12	076+120	076+150	30	30	RHS	EB, Water Tap & House
13	077+200	077+250	50	50	RHS	EB, Water Tap & House

Sr. No.	From	To	Length	Effective Hindered Length	Side	Remarks
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 & Transfomer
26	088+870				RHS	Temple
27	089+930	090+265	335	335	RHS	EB, Temple & Transfomer
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
41	099+900	100+300	400	400	RHS	Land, EB, Water Tap & House

Sr. No.	From	To	Length	Effective Hindered Length	Side	Remarks
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	RHS	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
8	073+900	074+200	300	300	LHS	Compensation Disbursement balance - Not allowed to work by owner

Sr. No.	From	To	Length	Effective Hindered Length	Side	Remarks
9	074+680	074+930	250	250	LHS	RE Wall Location: RE wall A2/RHS side WIP, LHS side school compound wall payment pending 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, 01nos unpaid, EP Lines & Trnasformer.
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 - Police station arch, House 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.
33	096+940	097+505	565	250	LHS	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.

Sr. No.	From	To	Length	Effective Hindered Length	Side	Remarks
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+570	113+820	250	250	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.)				19.470		

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	2	8
2	Ariyalur	10	1	9
3	Thanjavur	2	1	1
	Total in Nos.	22	4	18

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	11.605	61.090	Work in progress
2	BDO of Concern Union	Hand Pump/Pump Room with Bore well	Nos.	24	11	13	
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			Effected Length in Kms.	Completed as on Date	Balance as on Date	Balance no. of Trees	Remarks
		From	To	Length in Km					
1	Cuddalore	65+960	86+440	20.48	6.535	6.299	0.236	10	In addition of 123 nos of teak wood trees to be removed and Permission of the same is awaited from DFO, Cuddalore.
2	Ariyalur	86+440	106+860	20.42	8.385	8.225	0.160	9	
3	Thanjavur	106+860	116+440	9.58	2.515	2.515	0	0	
Total				50.48	17.435	17.039	0.396	19	

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	26.595

Table 3.1-2 : Status of Design and Drawings –Structures

Sr. No	Description	Unit	Total Scope As per Sch. B	Design Submitted	Drawing Approved
1	Major Bridges	No	04	04	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 September 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	31.780	0.090	31.870	0.000	15.410	67.41%
	RHS	47.28	29.785	0.090	29.875	0.000	17.405	63.19%
2	Embankment							
	LHS	47.28	11.500	0.000	11.500	9.080	35.780	24.32%
	RHS	47.28	6.900	0.000	6.900	10.330	40.380	14.59%
3	Sub grade							
	LHS	47.28	9.020	1.000	10.020	0.640	37.260	21.19%
	RHS	47.28	4.990	1.000	5.990	0.230	41.290	12.67%
4	GSB/ Cement Treated Base							
	LHS	47.28	6.695	0.355	7.050	0.860	40.230	14.91%
	RHS	47.28	2.750	0.370	3.120	0.280	44.160	6.60%
5	Wet Mix Macadam							
	LHS	47.28	4.490	0.120	4.610	0.000	42.670	9.75%
	RHS	47.28	1.690	0.120	1.810	0.000	45.470	3.83%
6	Dense Bitumen Macadam							
	LHS	47.28	0.000	2.620	2.620	0.000	44.660	5.54%
	RHS	47.28	0.000	0.860	0.860	0.000	46.420	1.82%
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	4.30	0.00	4.30	1.23	48.89	8.08%
2	Sub grade	53.19	3.50	0.00	3.50	0.60	49.69	6.58%
3	GSB/ Cement Treated Base	53.19	0.50	0.00	0.50	0.20	52.69	0.94%
4	Wet Mix Macadam	53.19	0.00	0.00	0.00	0.00	53.19	0.00%
5	Dense Bitumen Macadam	53.19	0.00	0.00	0.00	0.00	53.19	0.00%
6	Bituminous Concrete	53.19	0.00	0.00	0.00	0.00	53.19	0.00%

Structure Work					
Sr. No.	Type of Structure	Total No. of Structures	Nos. of Structures		
			Completed	In Progress	Balance to be taken up
1	Culvert	60	11	22	27
2	Light Vehicular Underpass	2	0	1	1
3	Vehicular Underpass	13	0	10	3
4	Minor Bridges	25	7	13	5
5	Major Bridge	4	0	4	0
6	Flyover	8	0	5	3

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

Item	Stage for Payment	Unit	Qty.	Weightage in percentage to Contract Price	EPC Cost	Progress as on 30.09.2019	Physical Progress %
1	2	3	4	5	6	7	8
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%	1,259,149,812	15.01	2.133%
	(2) Granular work (sub-base, base, shoulders)	Km					
	(a) GSB/ Cement Treated Base	Km	65.52	3.373%	446,275,589	10.17	0.524%
	(b) WMM/ Cement Treated Base	Km	65.52	4.046%	535,260,512	6.42	0.396%
	(3) Shoulders	Km	17.65	0.112%	14,871,740		
	(4) Bituminous work	Km					
	(a) DBM	Km	65.52	3.344%	442,462,500	3.48	0.178%
	(b) BC	Km	65.52	3.023%	399,958,951		
	(5) Rigid Pavement						
	(6) Widening and repair of culverts	Nos.	16	0.440%	58,232,176	0.50	0.014%
	(7) Widening and repair of minor bridges	Nos.	4	0.959%	126,889,505	1.00	0.240%
	B- New realignment/bypass						
	(1) Earthwork up to top of the sub-grade	Km	28.68	6.437%	851,600,859	1.00	0.224%
	(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			

Item	Stage for Payment	Unit	Qty.	Weightage in percentage to Contract Price	EPC Cost	Progress as on 30.09.2019	Physical Progress %	
	(4) Bituminous work							
	(a) DBM	Km	28.68	1.279%	169,211,700			
	(b) BC	Km	28.68	1.158%	153,261,033			
	(5) Rigid Pavement							
	C- New culverts, minor bridges, underpasses, overpasses on existing road, realignments, bypasses:							
	(1) Culverts	Nos.	44	2.070%	273,875,198	11.00	0.518%	
	(2) Minor bridges							
	(a) Foundation	Nos.	58	3.953%	522,968,499	25.00	1.704%	
	(b) Substructure	Nos.	134	2.623%	347,004,497	47.00	0.920%	
	(c) Superstructure (including crash barrier etc. complete)	Nos.	50	1.559%	206,310,835	13.25	0.413%	
	(3) Cattle/Pedestrian underpasses							
	(a) Foundation	Nos.						
	(b) Substructure	Nos.						
	(c) Superstructure (including crash barrier etc. complete)	Nos.						
	(4) Pedestrian overpasses							
	(a) Foundation	Nos.						
	(b) Substructure	Nos.						
	(c) Superstructure (including crash barrier etc. complete)	Nos.						
	(5) Grade separated structures							
	(a) Underpass (13 VUP, 2 LVUP)							
	(i) Foundation	Nos.	56	2.574%	340,568,361	15.00	0.690%	
	(ii) Substructure	Nos.	60	0.751%	99,383,595	12.00	0.150%	
	(iii) Superstructure (including crash barrier etc. complete)	Nos.	30	1.289%	170,483,790			
	(b) Overpass							
	(i) Foundation							
	(ii) Substructure							
	(iii) Superstructure (including crash barrier etc. complete)							
	(c) Flyover							
	(i) Foundation	Nos.	36	2.426%	320,913,747	12.00	0.809%	
	(ii) Substructure	Nos.	36	0.470%	62,236,342	2.00	0.026%	
	(iii) Superstructure (including crash barrier etc. complete)	Nos.	20	1.244%	164,644,019			
	(d) Foot over Bridge							
Major Bridge works and ROB/RUB	A- Widening and repairs of Major Bridges							
	(1) Foundation							
	(a) Open Foundation							
	(b) Pile Foundation/ Well Foundation							
	(2) Sub-structure							

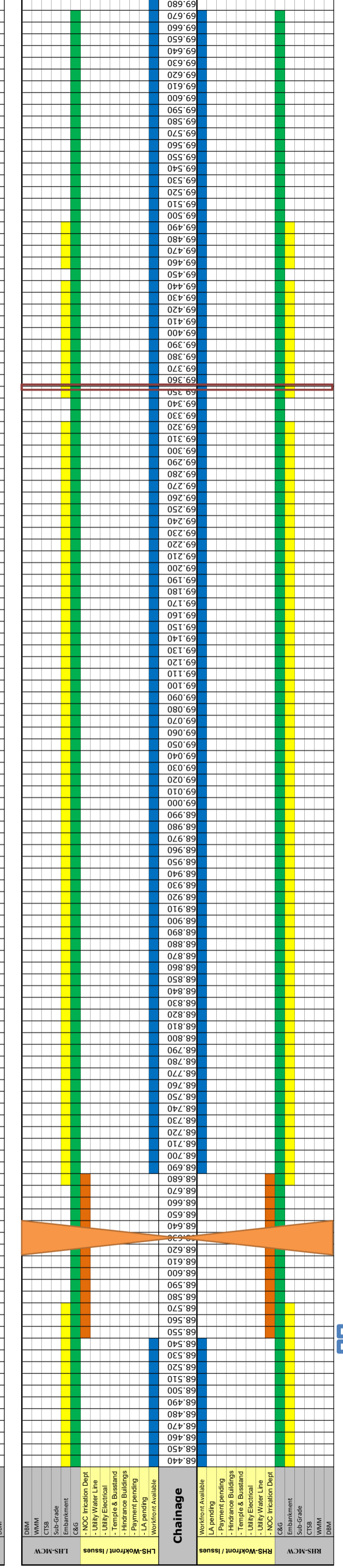
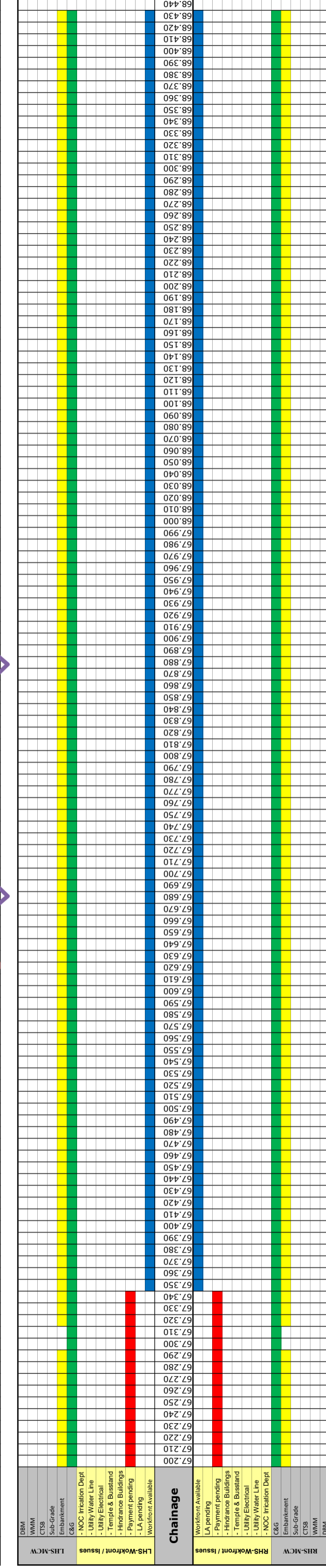
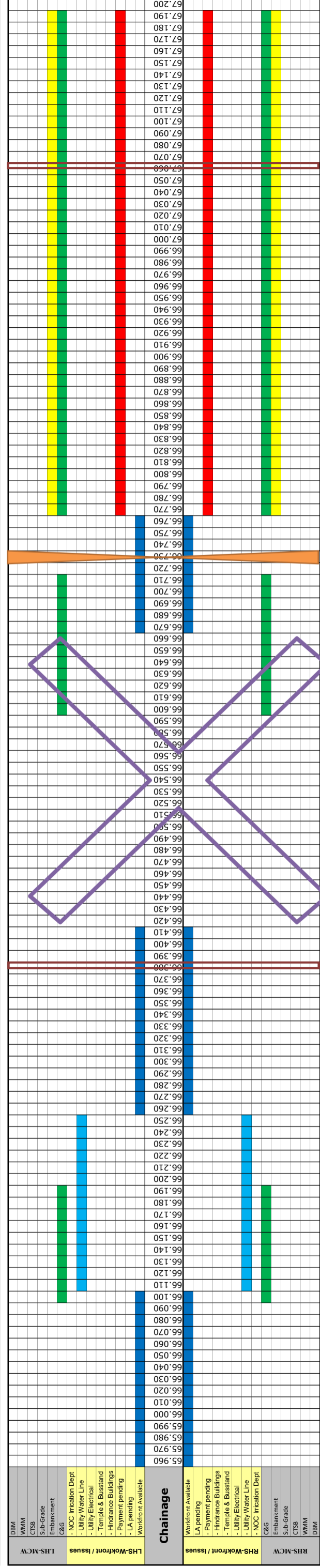
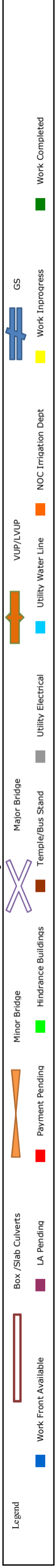
Item	Stage for Payment	Unit	Qty.	Weightage in percentage to Contract Price	EPC Cost	Progress as on 30.09.2019	Physical Progress %
	(3) Super-structure (including crash barriers etc. complete)						
	C- New Major Bridges						
	(1) Foundation						
	(a) Open Foundation						
	(b) Pile Foundation/ Well Foundation	Nos.	84	9.699%	1,283,209,938	22.00	2.540%
	(2) Sub-structure	Nos.	84	4.576%	605,363,085	16.00	0.872%
	(3) Super-structure (including crash barriers etc. complete)	Nos.	0	0.000%			
	(i) For MJB at Km. 107+400						
	(a) Casting of Superstructure (Box Segement)	Nos.	666	1.450%	191,835,000	61.00	0.133%
	(b) Erection of Superstructure (Box Segement)	Nos.	666	1.050%	138,915,000		
	(i) For other Major Bridges						
	(a) Super-structure (including crash barriers etc. complete)	Nos.	37	2.500%	330,750,000		
	D- New rail-road bridges						
	(a) ROB						
	(1) Foundation	Nos.					
	(2) Sub-structure	Nos.					
	(3) Super-structure (including crash barriers etc. complete)	Nos.					
	(b) RUB						
	(1) Foundation	Nos.					
	(2) Sub-structure	Nos.					
	(3) Super-structure (including crash barriers etc. complete)	Nos.					
Structures (elevated sections, reinforced earth)	A- Elevated Structures						
	(1) Foundation	Nos.					
	(2) Sub-structure	Nos.					
	(3) Super-structure (including crash barriers etc. complete)	Nos.					
	B- Reinforced earth Wall (includes Approaches of ROB, Underpasses, Overpasses, Flyover etc)	Sqm	196027	7.604%	1,006,000,614	17578	0.682%
Other Works	(i) Service roads/ Slip Roads	Km	53.19	4.690%	620,425,609		
	(ii) Toll Plaza	Nos.	1	1.821%	240,951,085		
	(iii) Road side drains	Km	28.85	5.429%	718,314,179	3.03	0.570%
	(iv) Road signs, markings, km stones, safety devices,						
	(a) Road signs, markings, km stones, ...	Km	100.96	2.558%	338,465,278		
	(b) Concrete Crash Barrier/ W-Beam Crash Barrier in Road work	Km					

Item	Stage for Payment	Unit	Qty.	Weightage in percentage to Contract Price	EPC Cost	Progress as on 30.09.2019	Physical Progress %
	(i) Concrete Crash Barrier	Km	26.5	1.179%	155,979,021		
	(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.					
	(c) Rest areas	No.					
	(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				
	(x) Miscellaneous	Ls.	100%	0.164%	21,754,637		
	Total			100.000%	13,230,000,000		13.735%

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

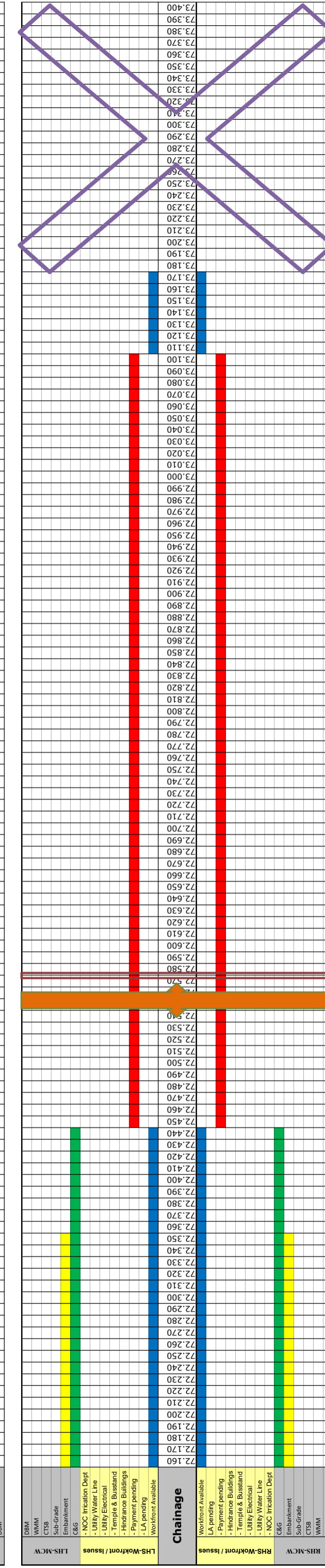
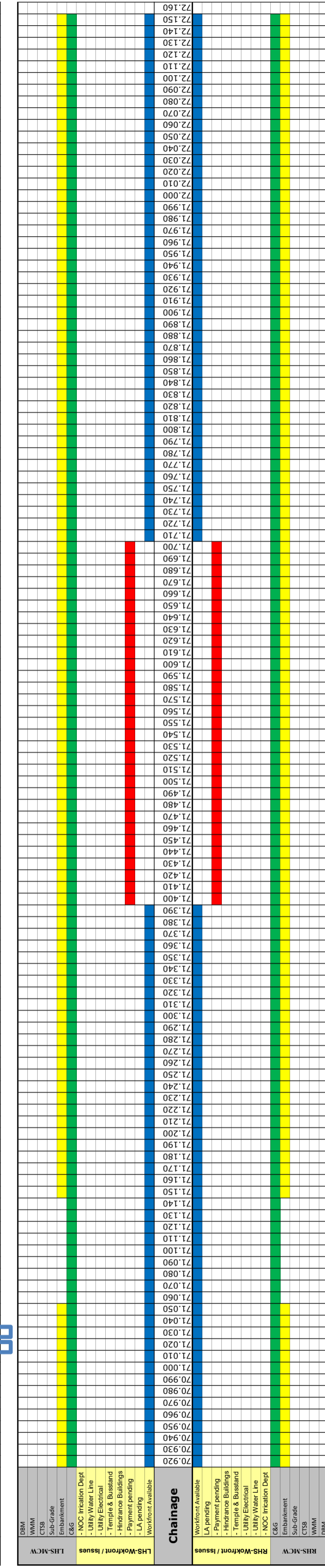
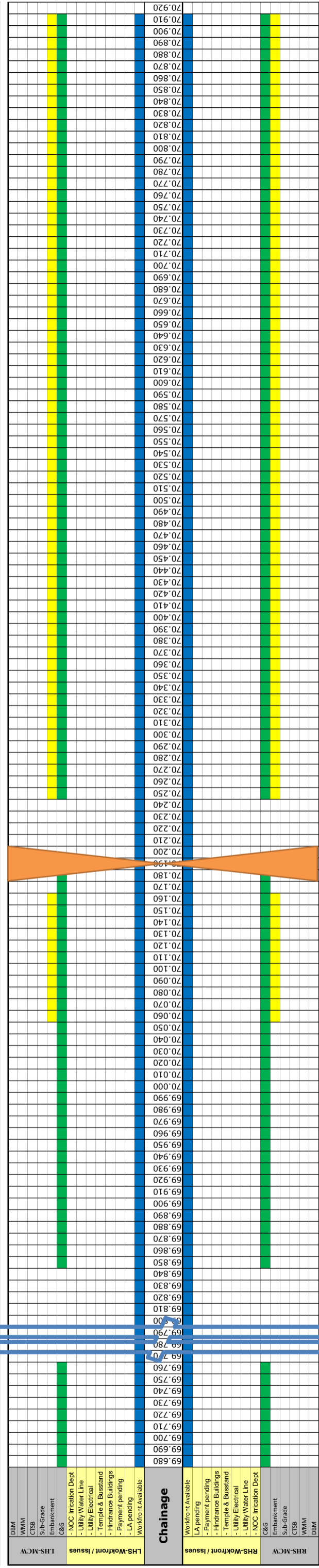
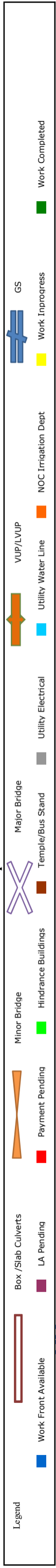
Strip Plan for MCW on 30-09-2019



Four Laning of Sethiyahopu - Cholopuram Road Projects

Sethiyahopu - Cholopuram Road Projects

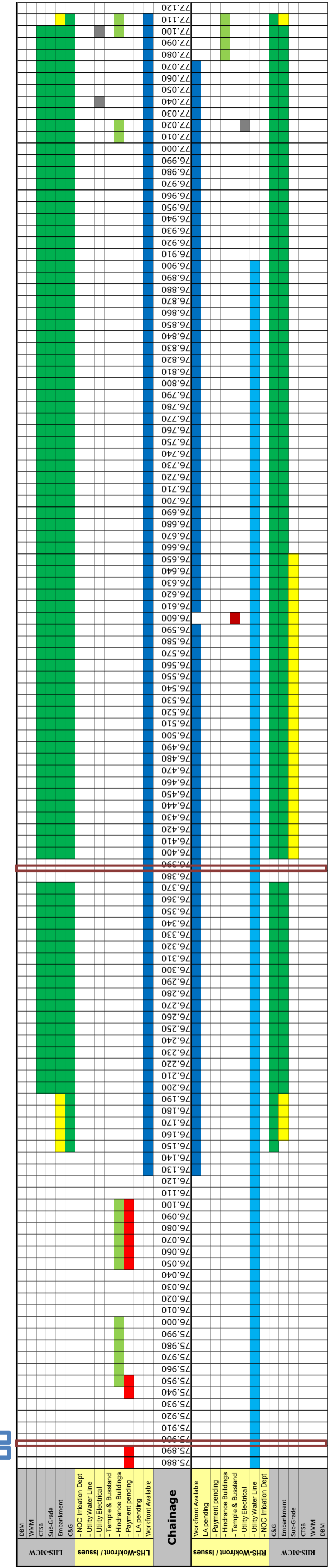
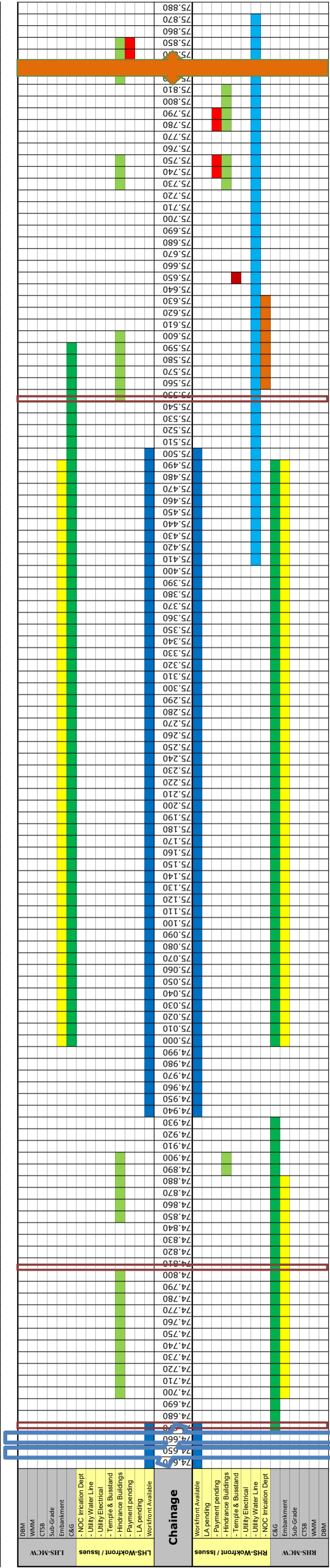
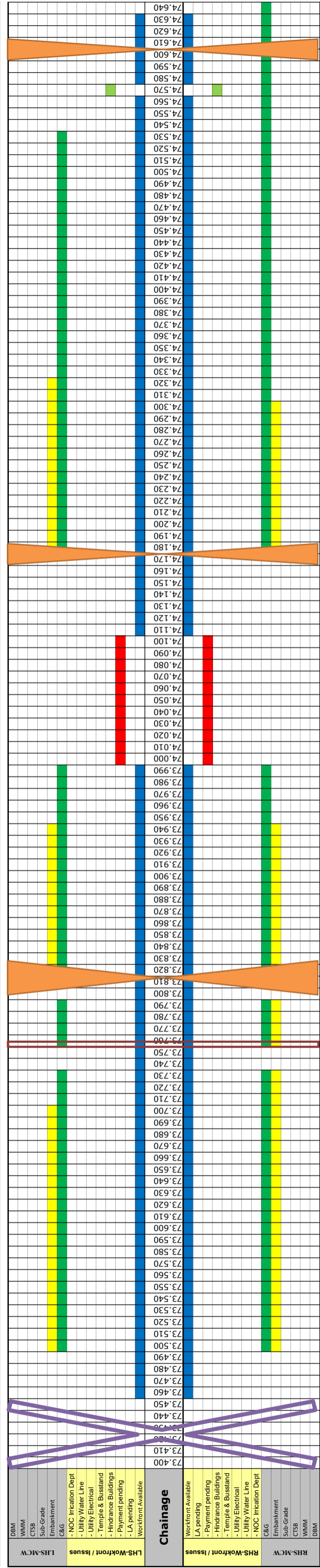
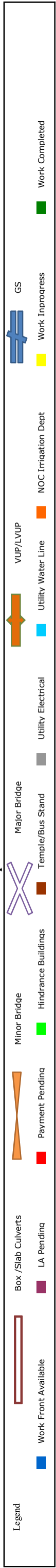
Strip Plan for MCW on 30-09-2019



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

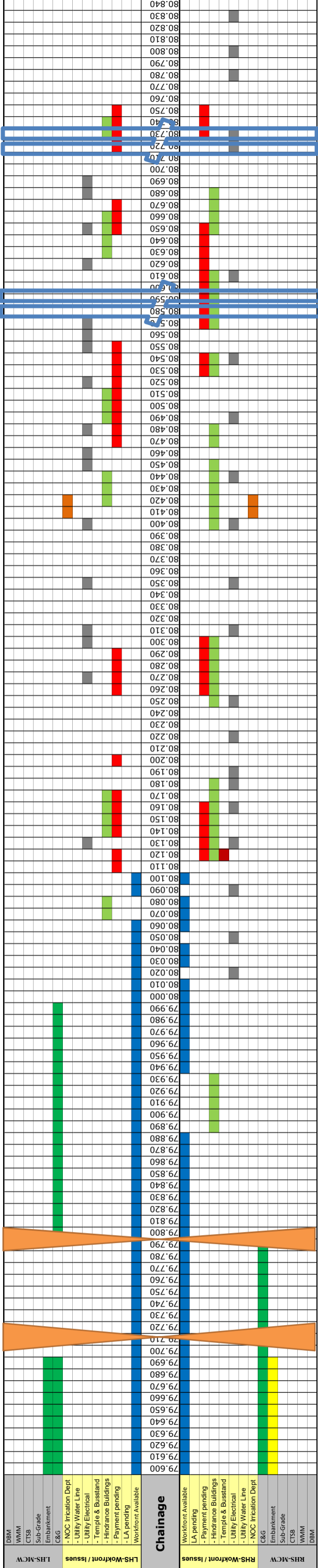
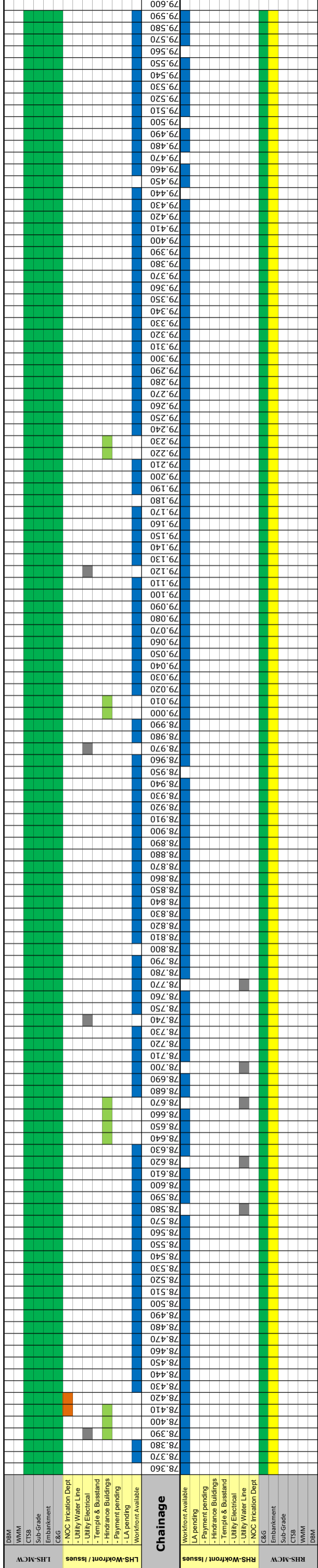
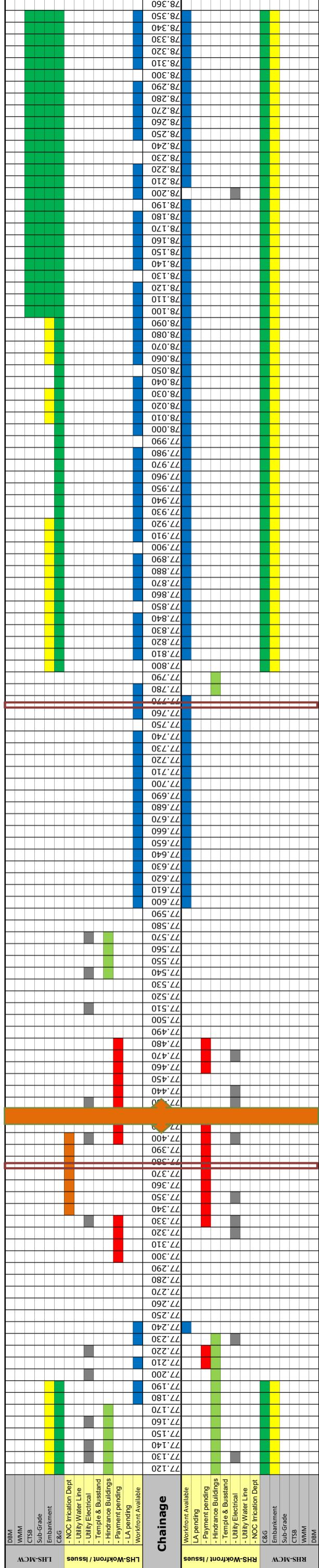
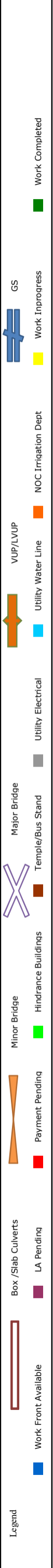
Strip Plan for MCW on 30-09-2019



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

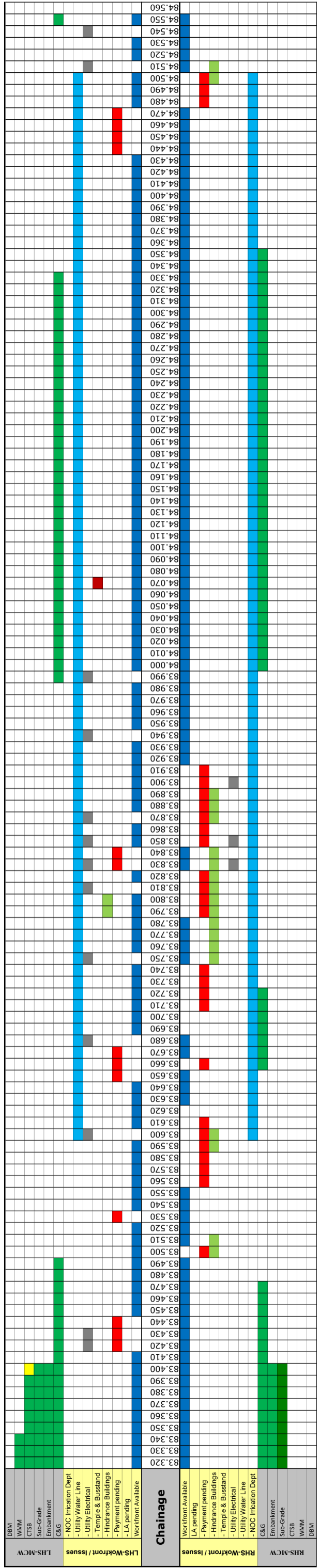
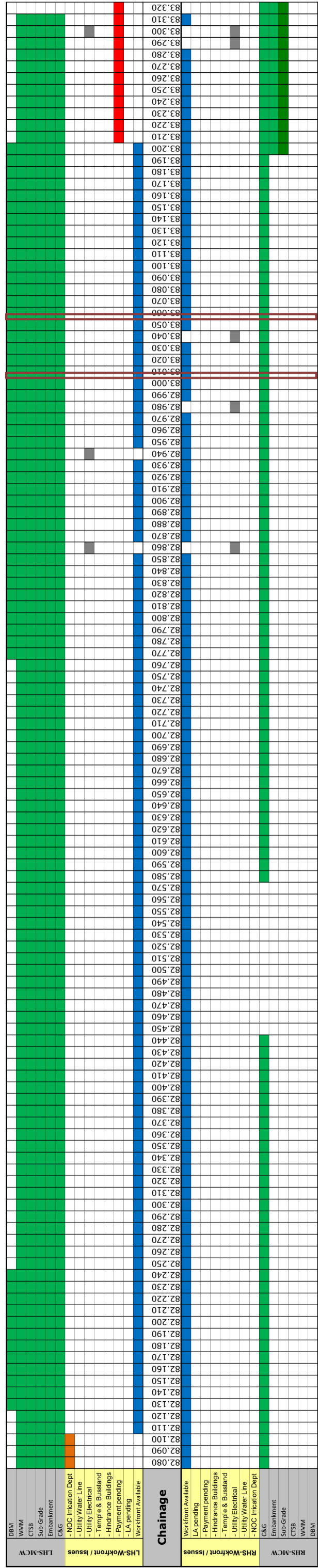
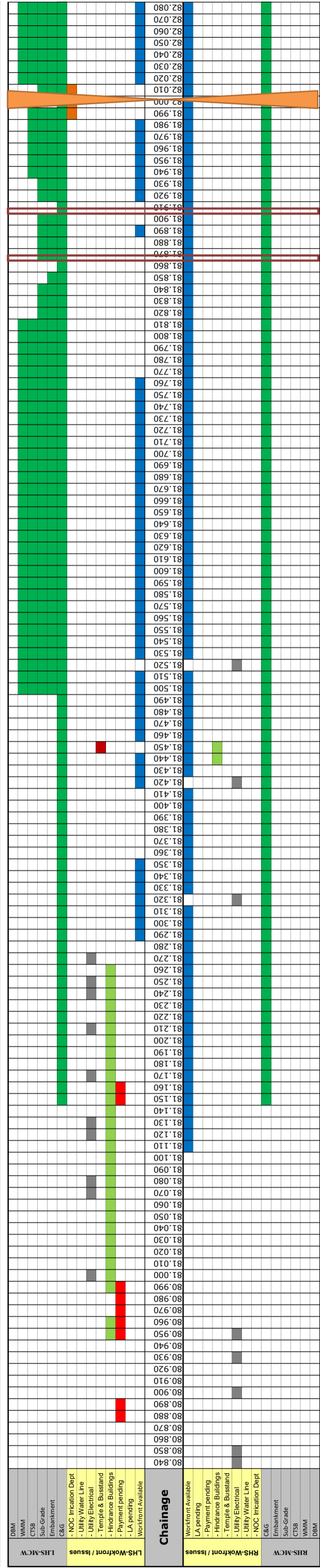
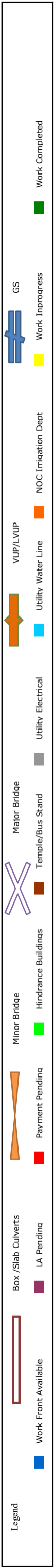
Strip Plan for MCW on 30-09-2019



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

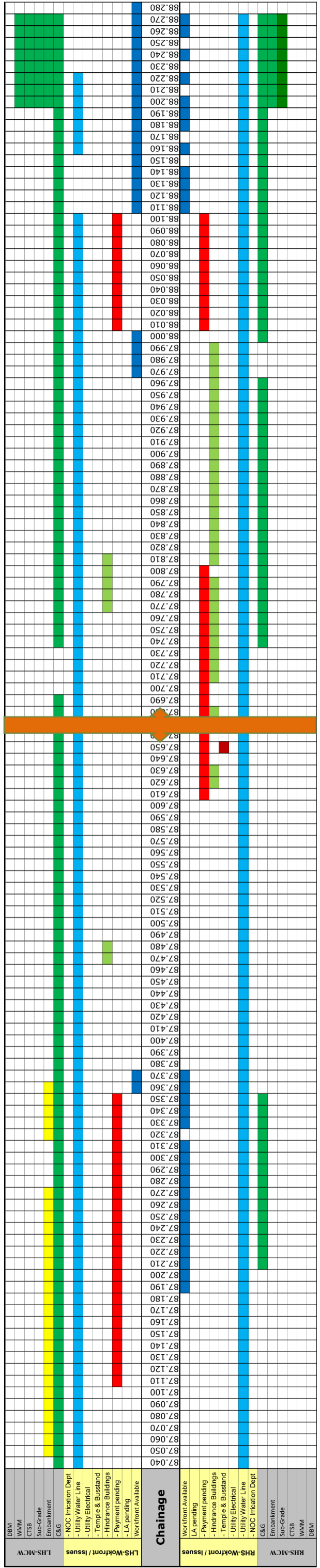
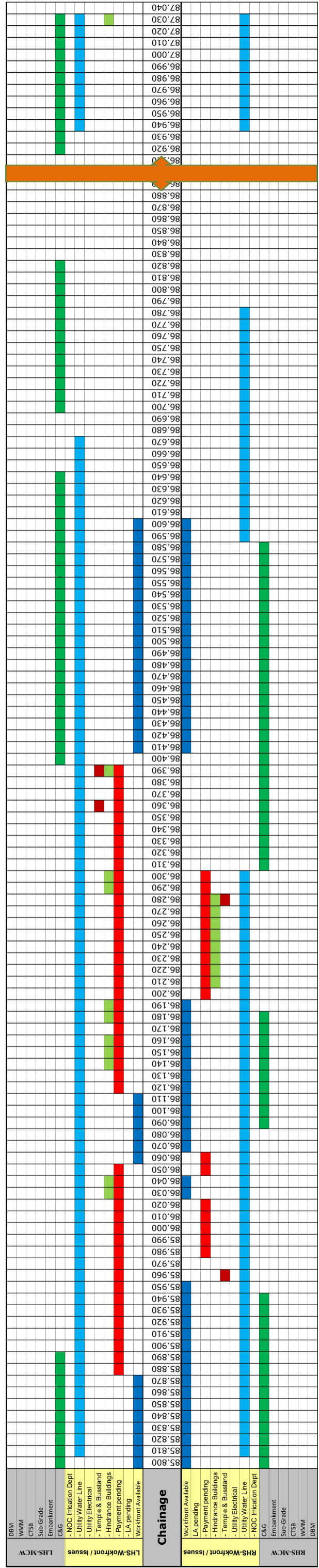
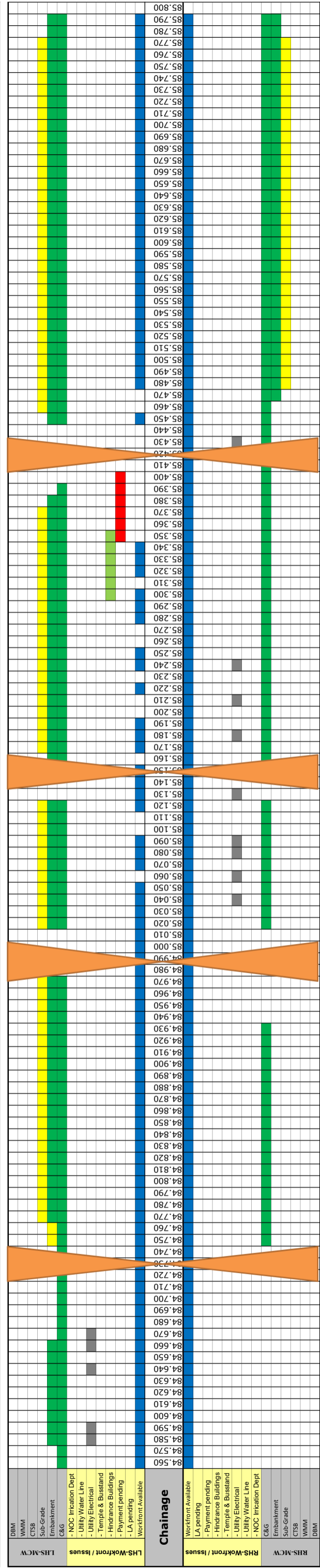
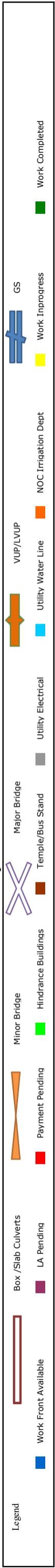
Strip Plan for MCW on 30-09-2019



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

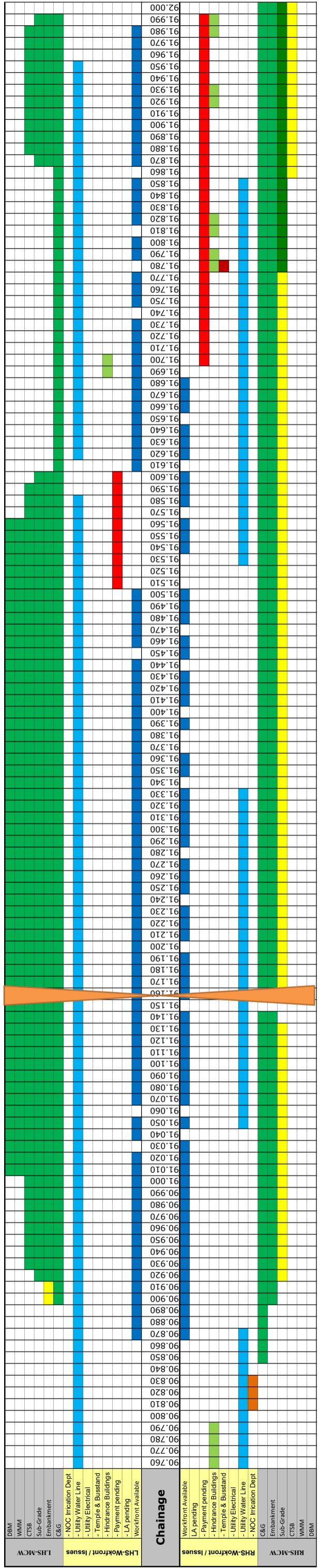
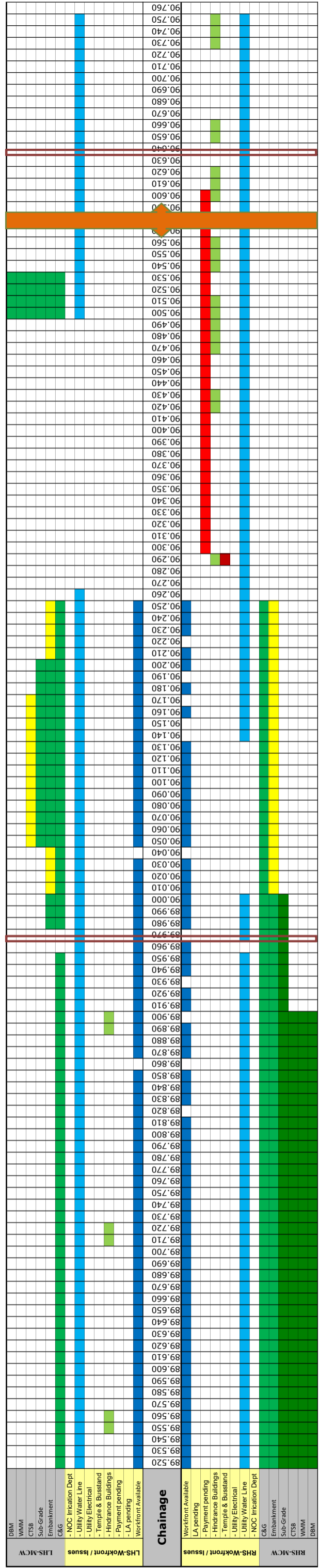
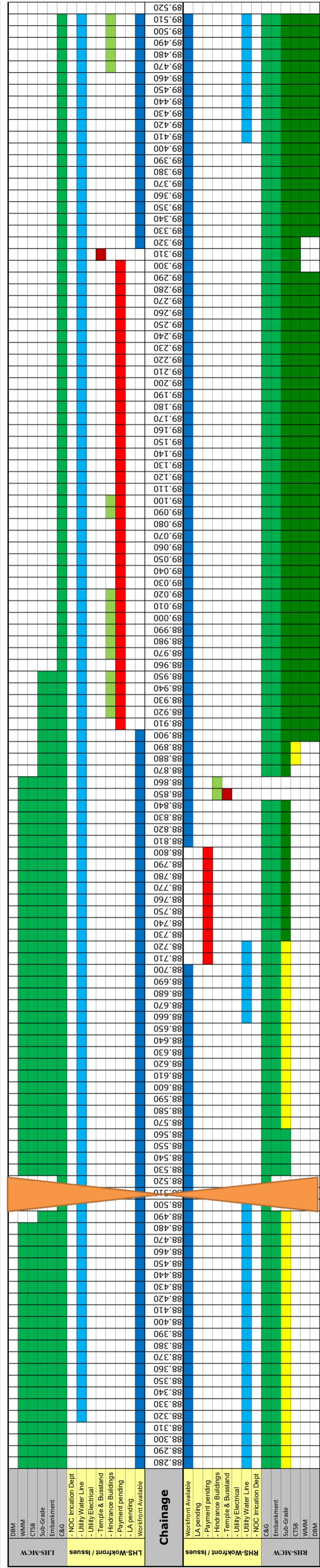
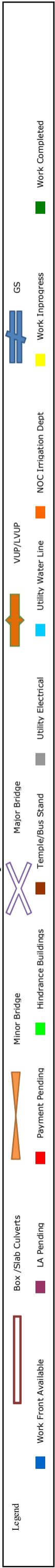
Strip Plan for MCW on 30-09-2019



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

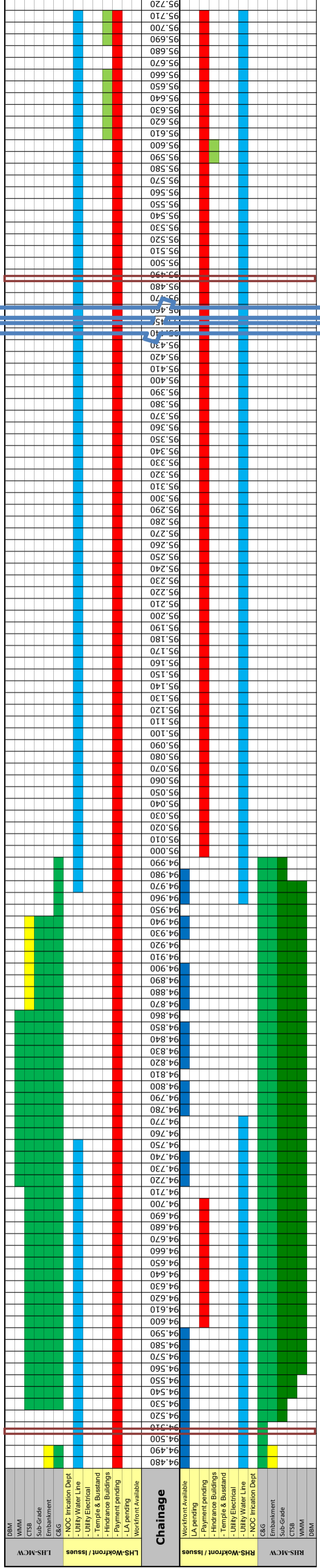
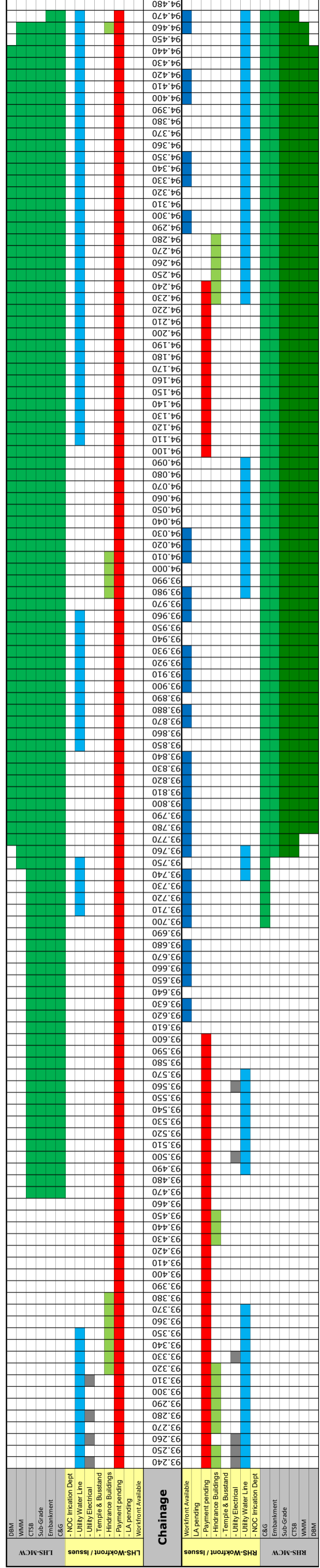
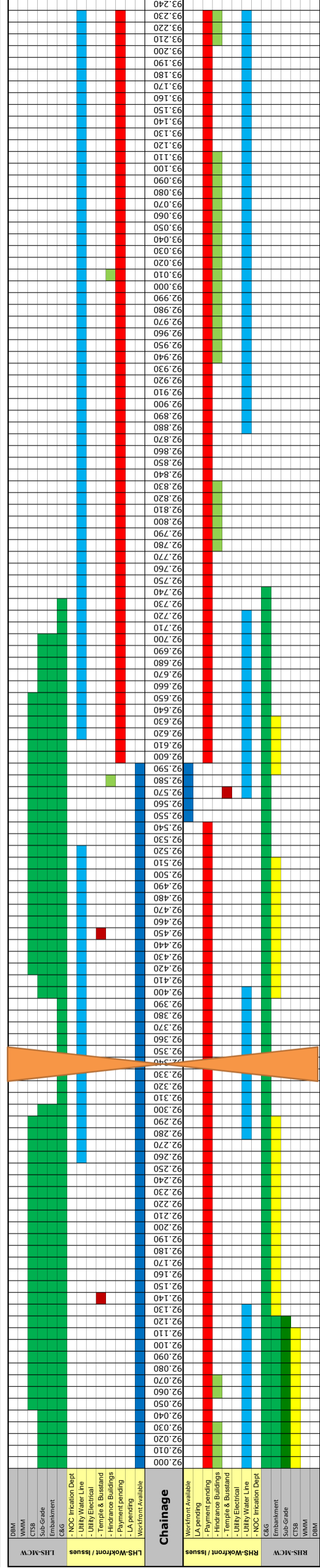
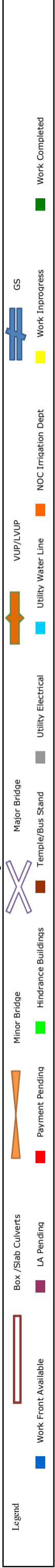
Strip Plan for MCW on 30-09-2019



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 30-09-2019



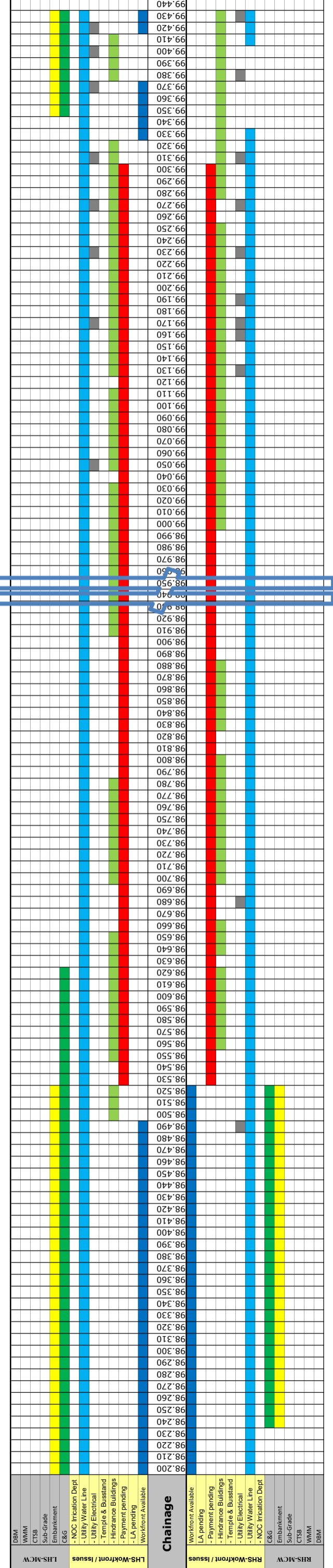
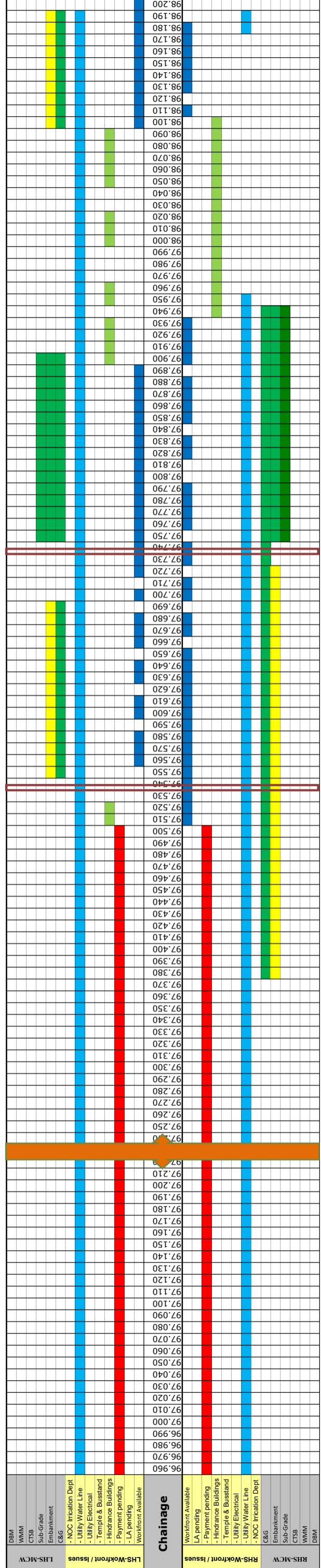
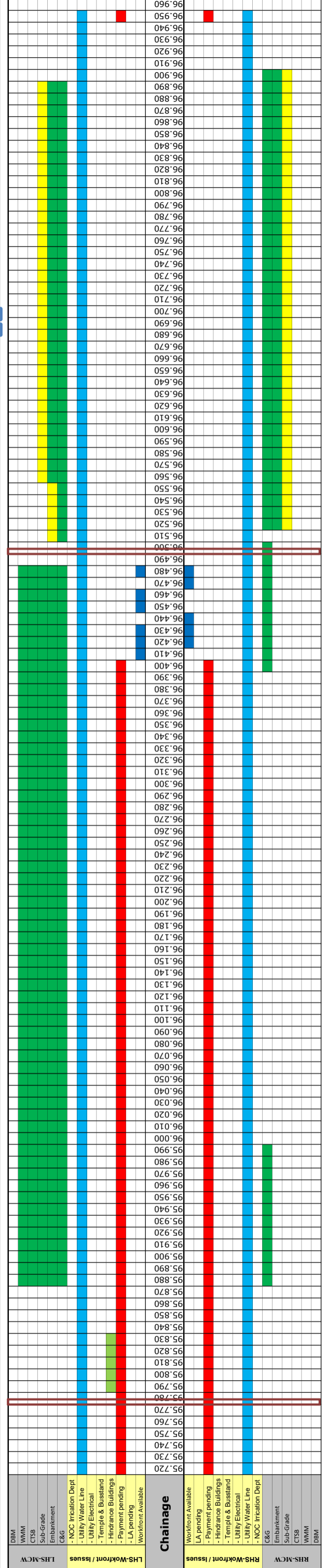
Four Lining of Sethiyahopu - Cholopuram from Km.65.960 to Km.116.440 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode

Sethiyahopu - Cholopuram Road Projects

Strip Plan for MCW on 30-09-2019

Legend

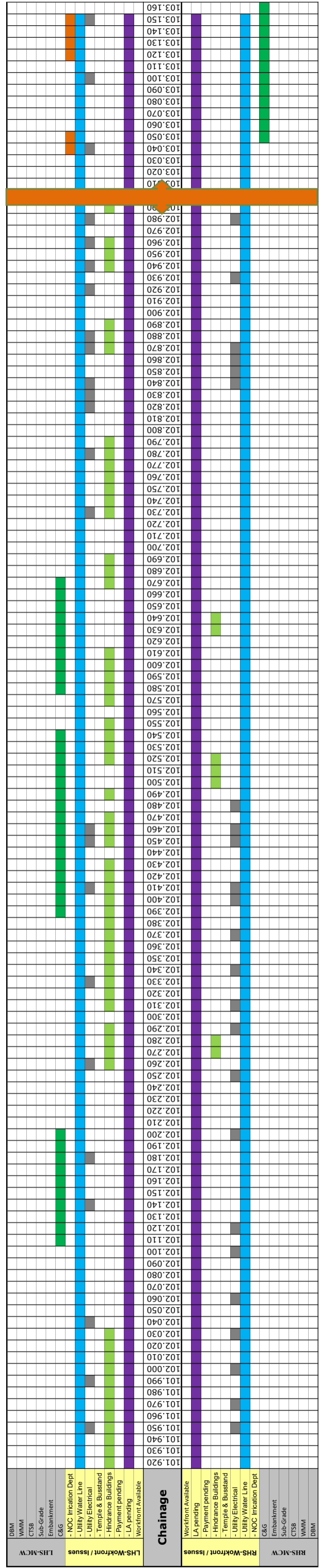
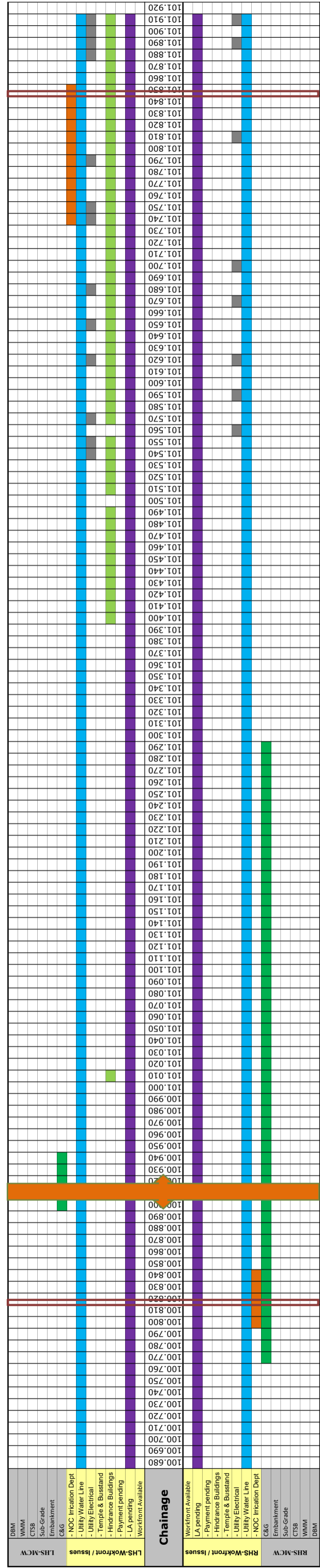
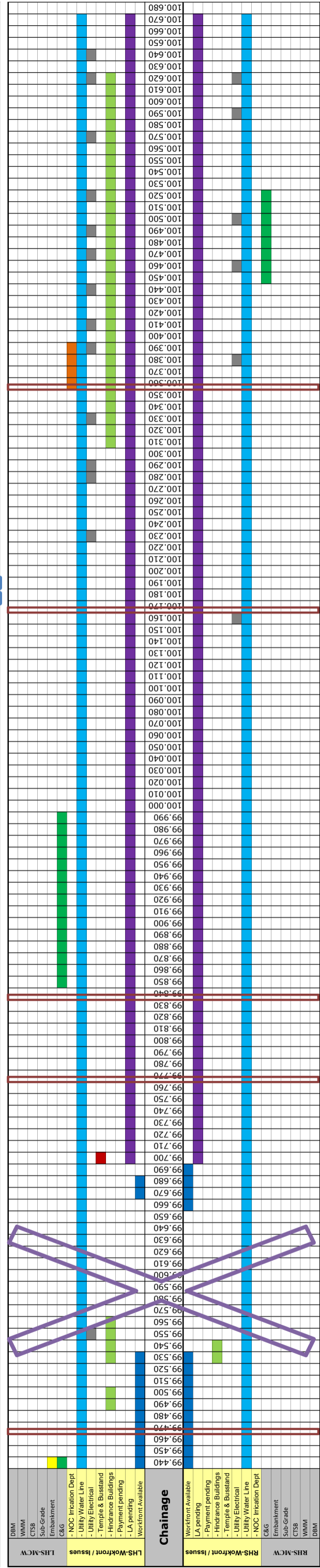
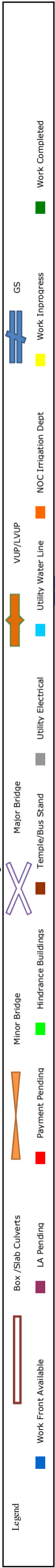
- Work Front Available
- Box /Slab Culverts
- Minor Bridge
- Hindrance Buildings
- Temple/Bus Stand
- Major Bridge
- Utility Electrical
- Utility Water Line
- VUP/LVUP
- GS
- Work Completed
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Four Laning of Sethiyahopu - Cholopuram from Km.65.960 to Km.116.440 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode

Sethiyahopu - Cholopuram Road Projects

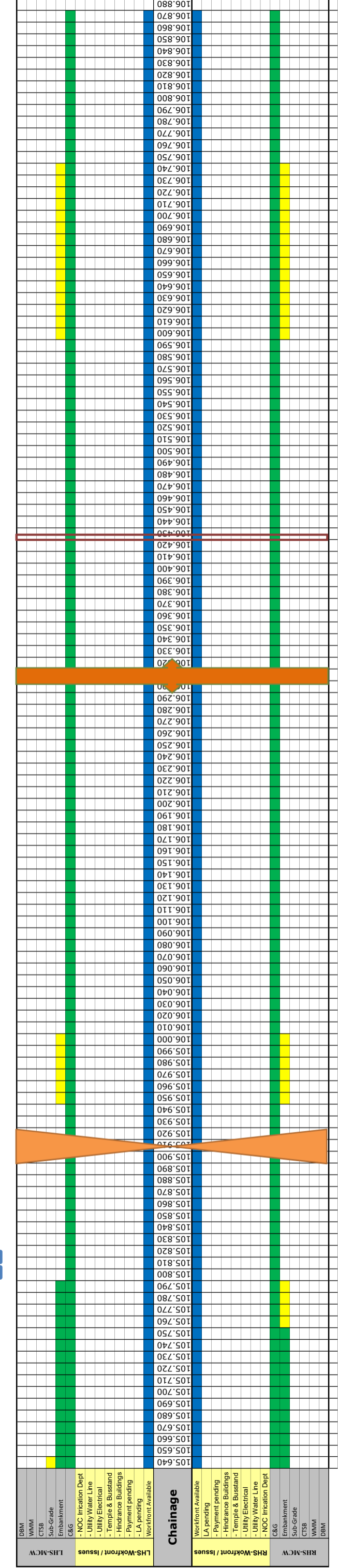
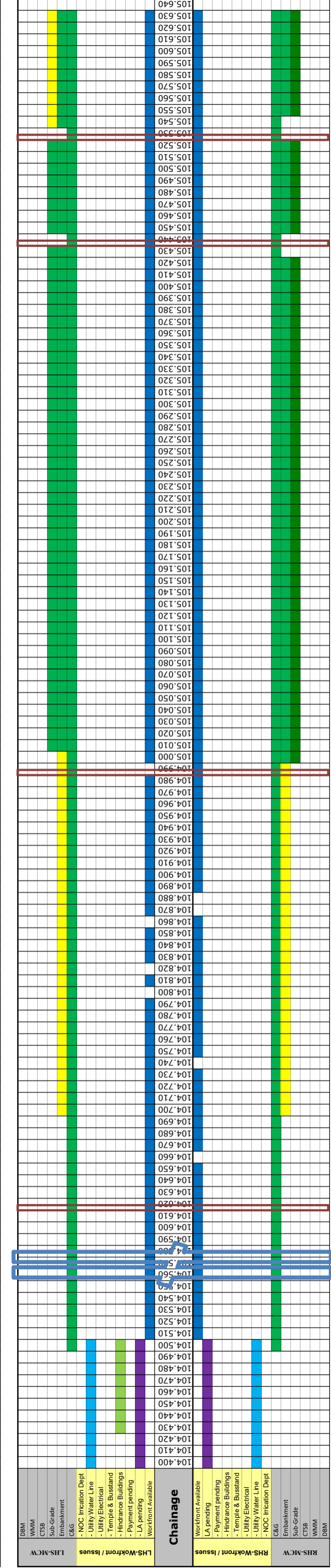
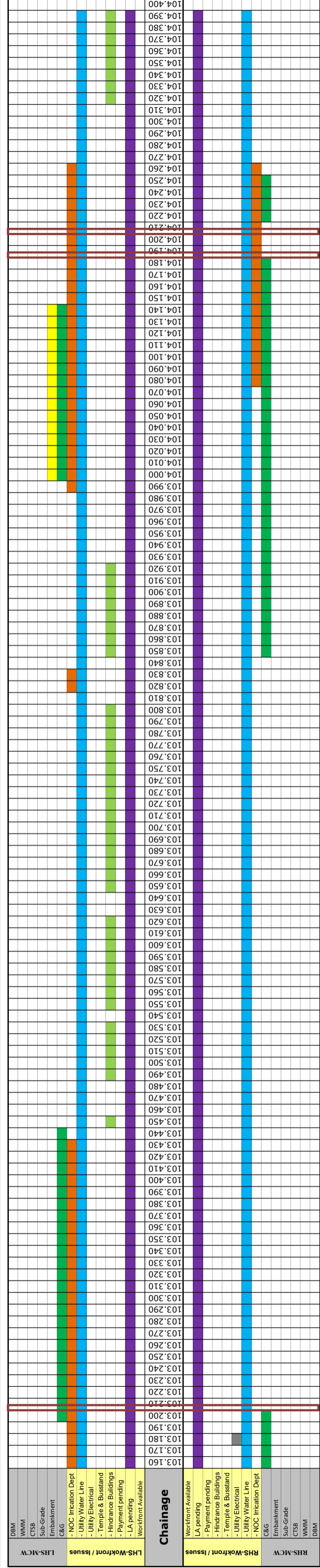
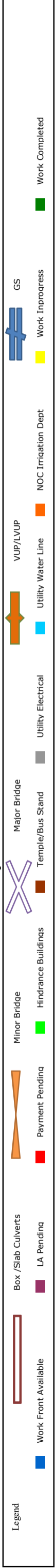
Strip Plan for MCW on 30-09-2019



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

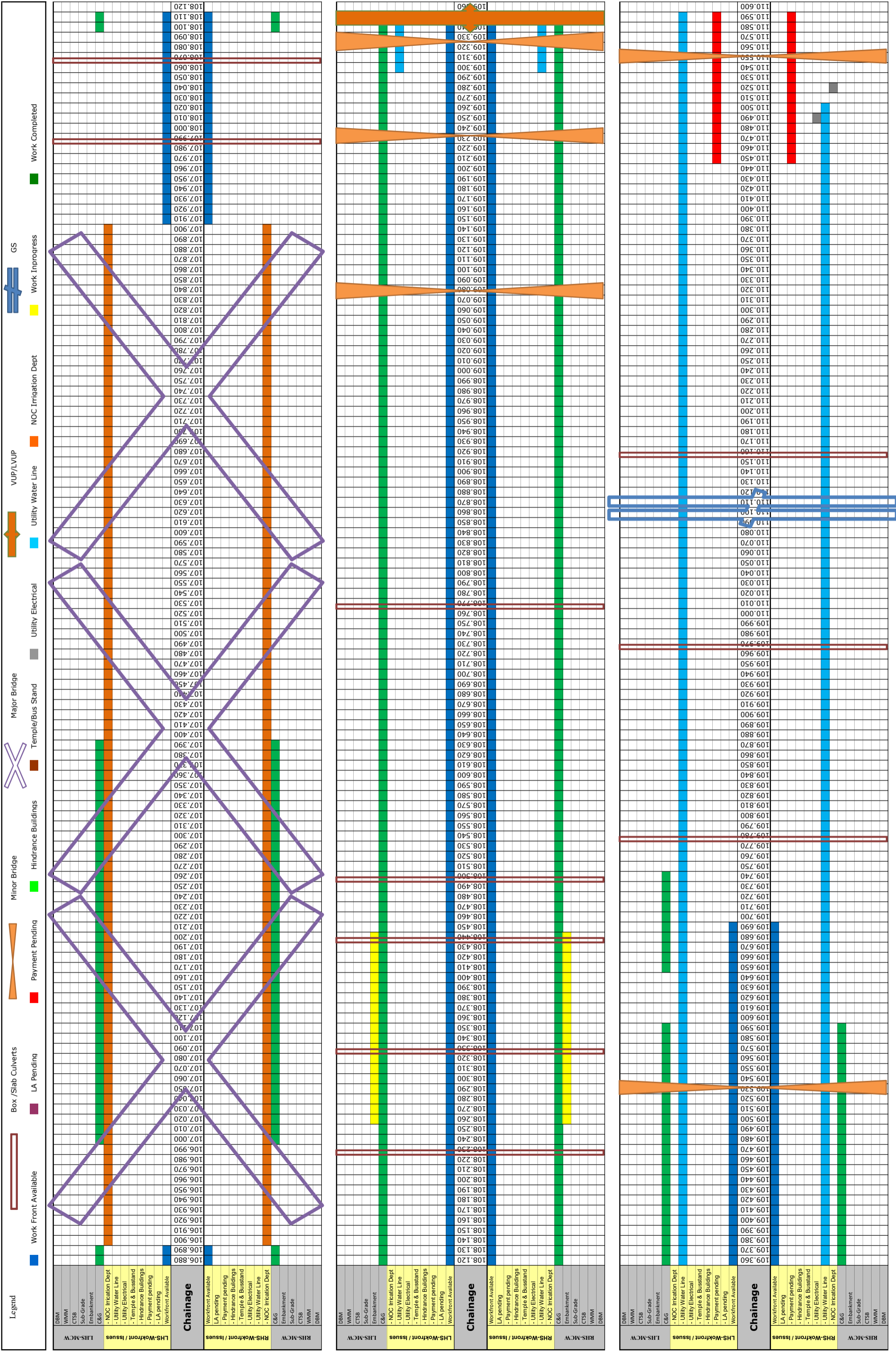
Strip Plan for MCW on 30-09-2019



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

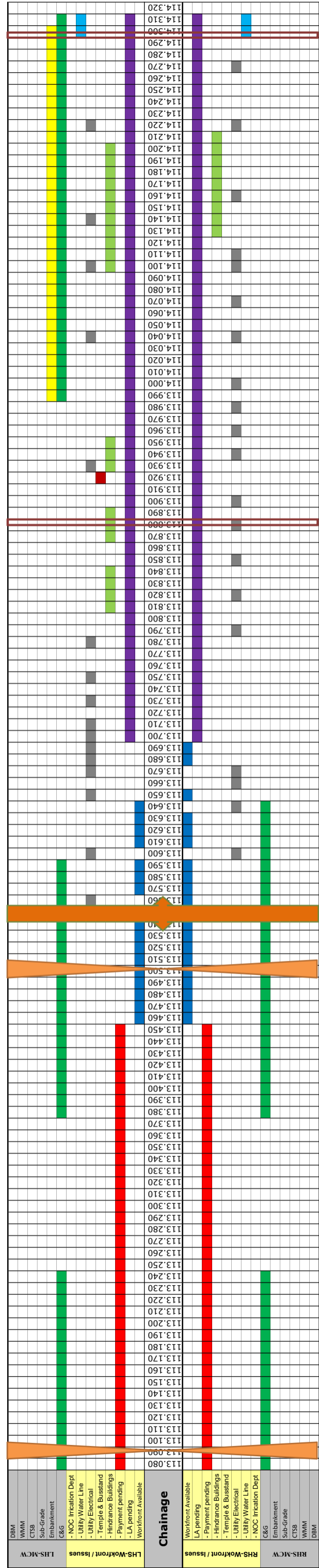
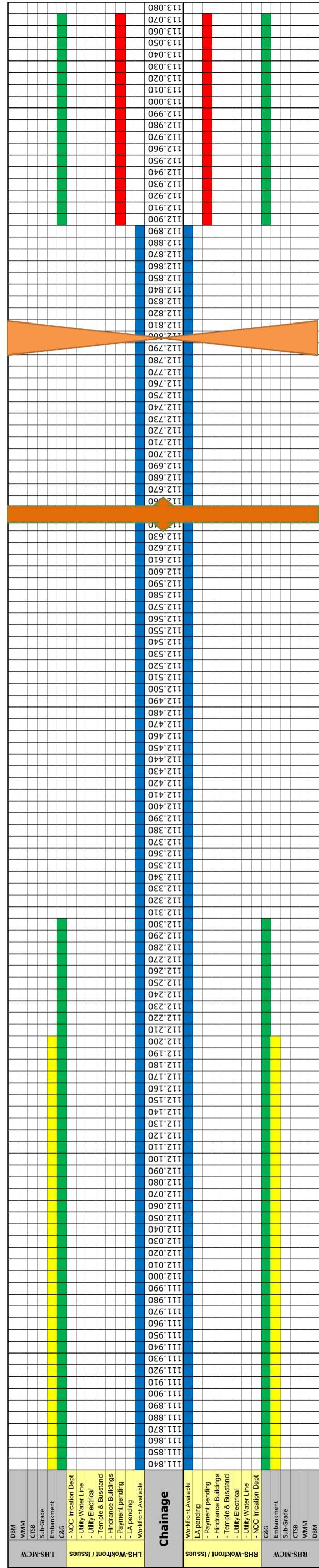
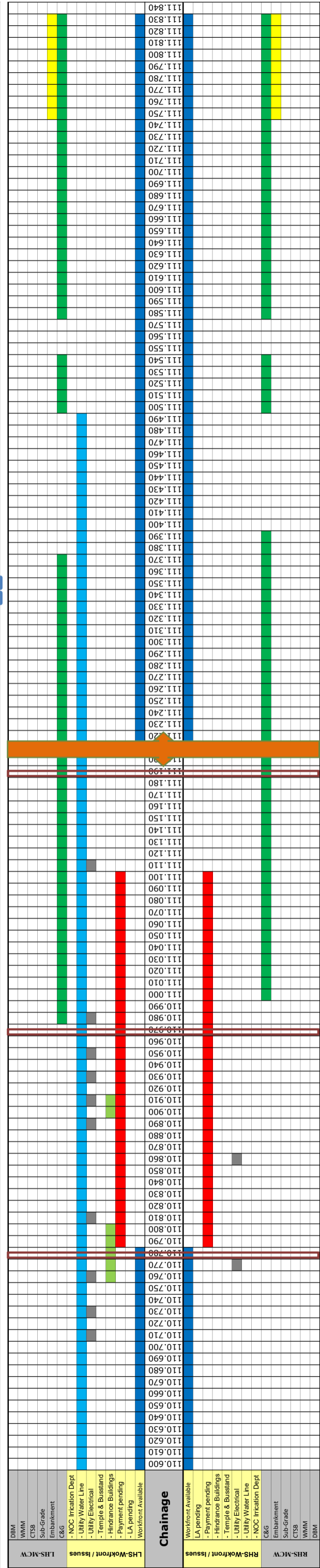
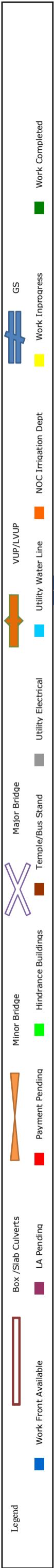
Strip Plan for MCW on 30-09-2019



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

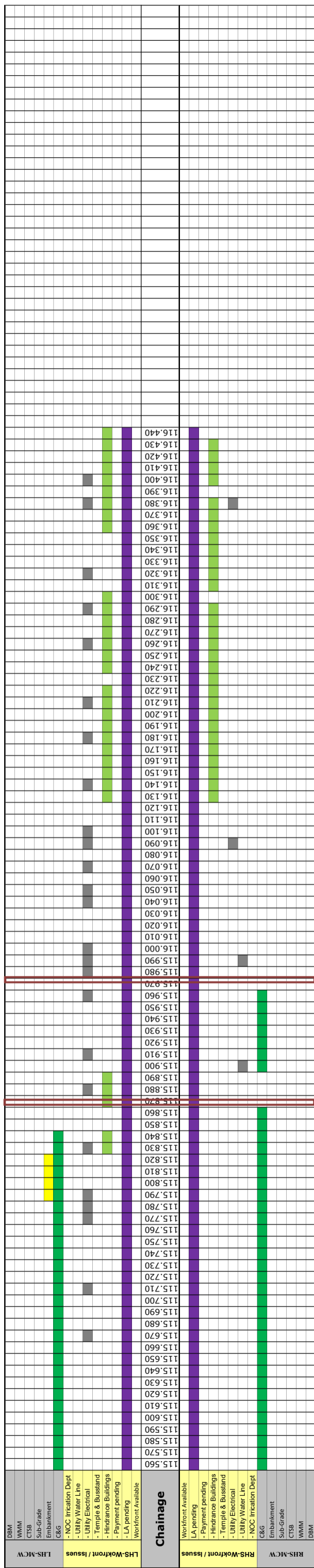
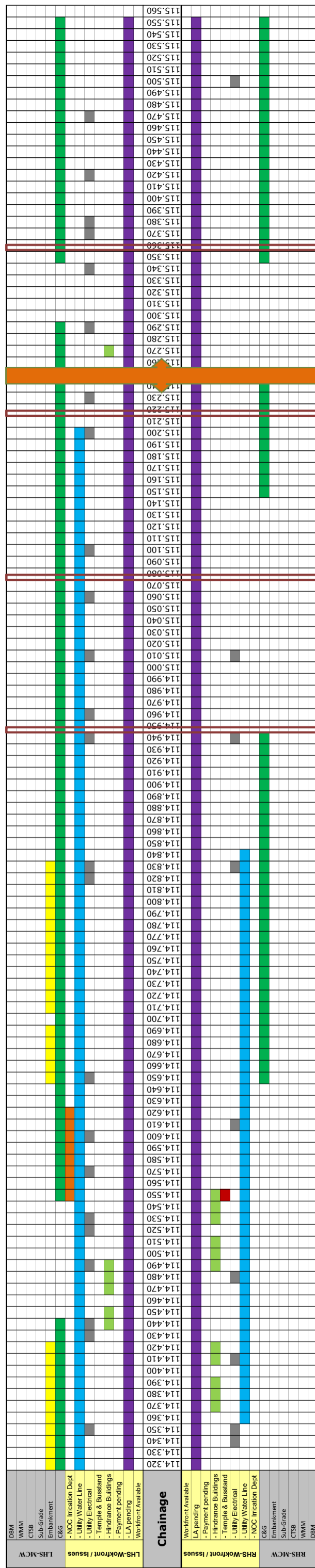
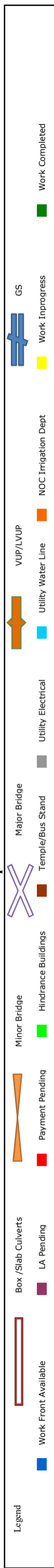
Strip Plan for MCW on 30-09-2019



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

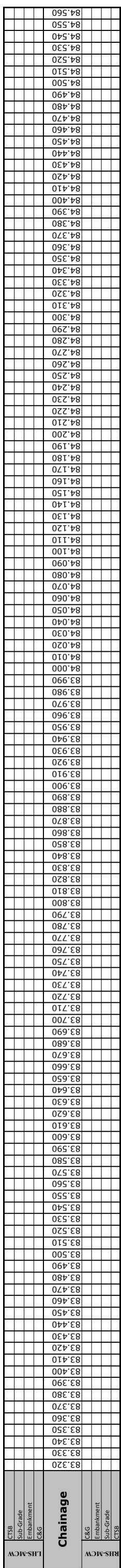
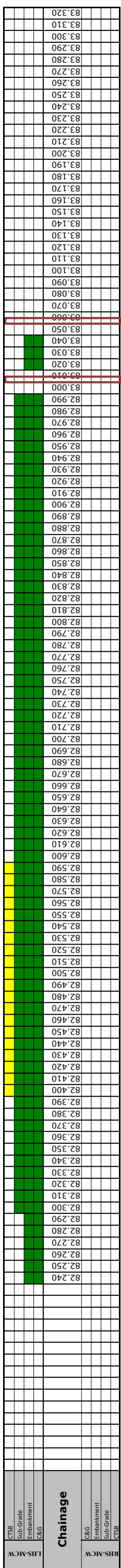
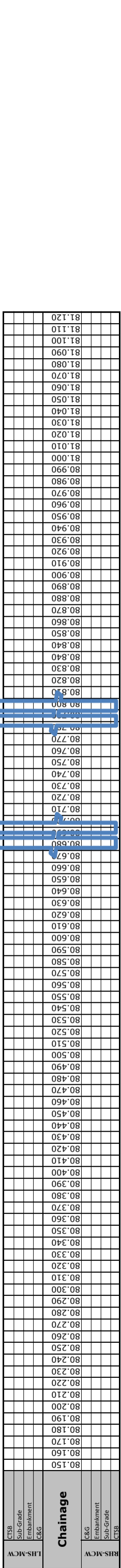
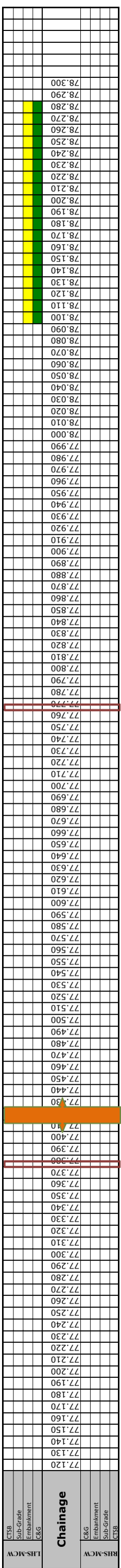
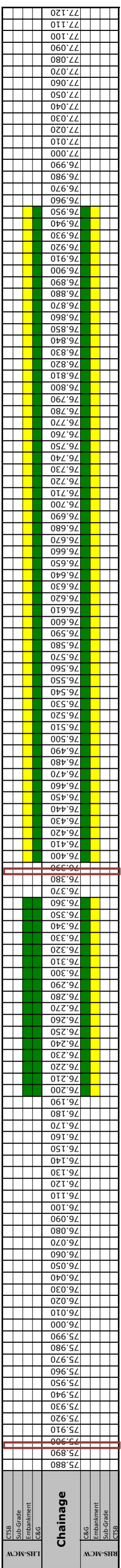
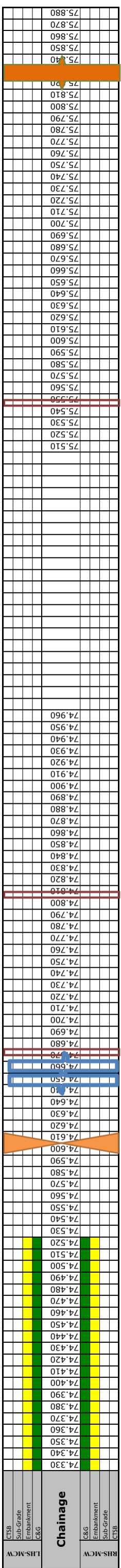
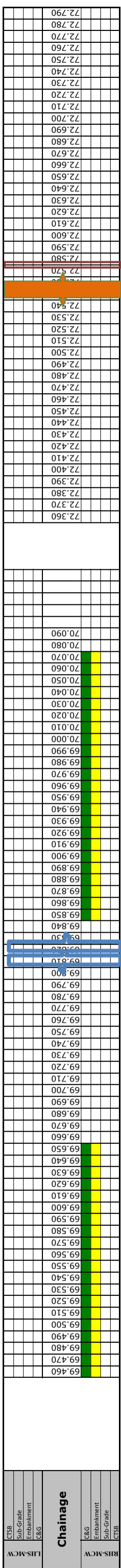
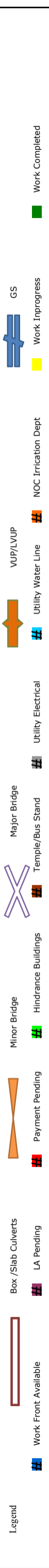
Strip Plan for MCW on 30-09-2019



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

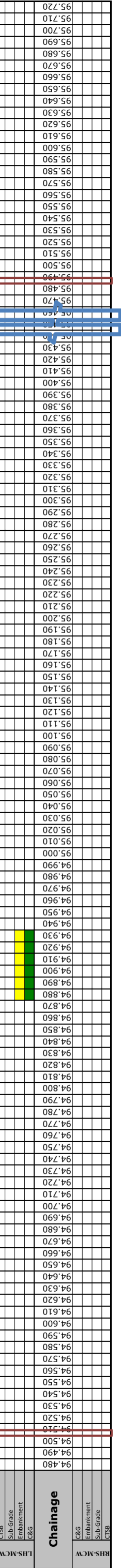
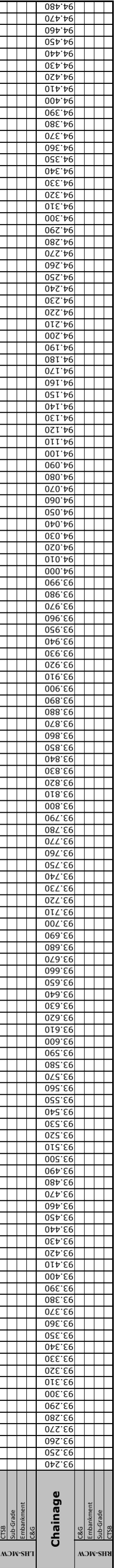
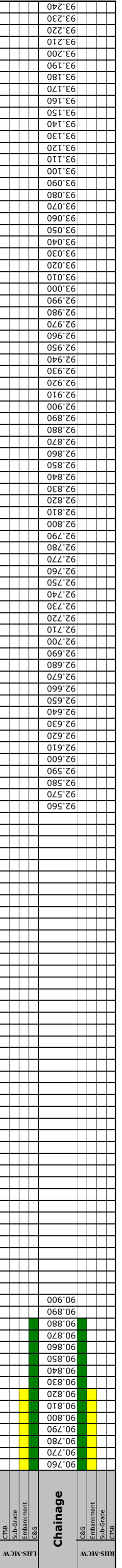
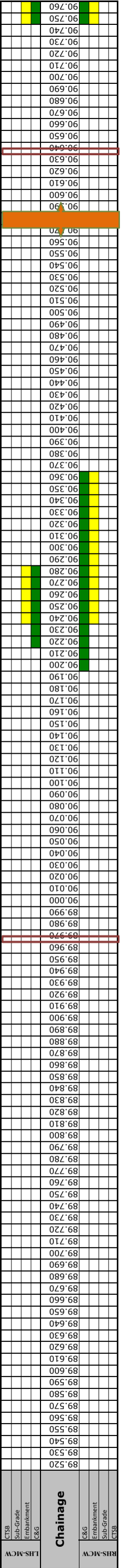
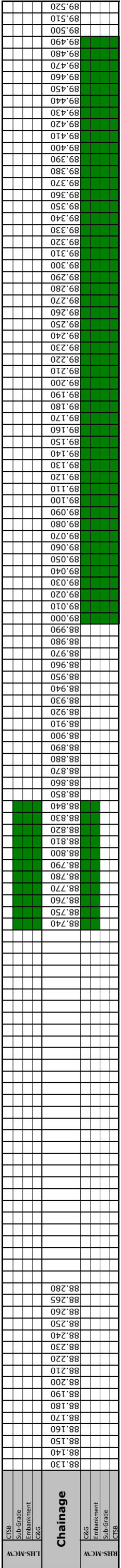
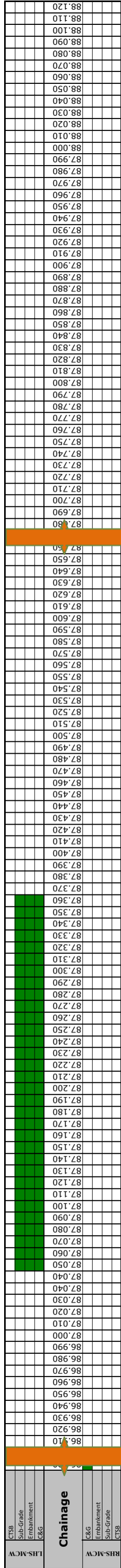
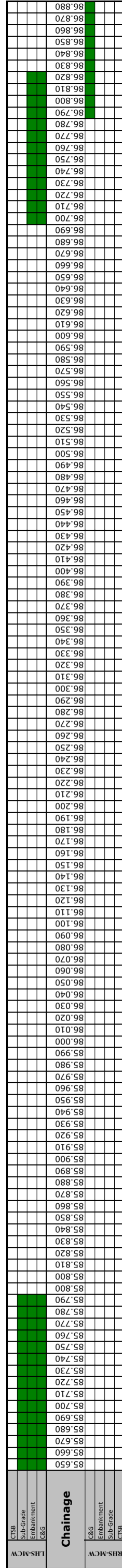
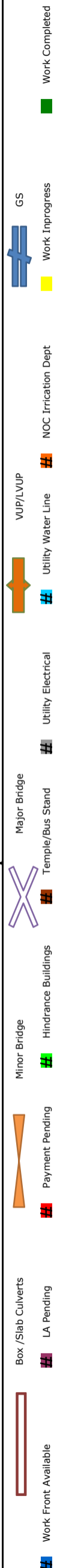
Strip Plan for SR on 30-09-2019



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 30-09-2019



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 30-09-2019

Legend

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

LHS-MCW	95.720	95.730	95.740	95.750	95.760	95.770	95.780	95.790	95.800	95.810
RHS-MCW	95.820	95.830	95.840	95.850	95.860	95.870	95.880	95.890	95.900	95.910

LHS-MCW	96.400	96.390	96.380	96.370	96.360	96.350	96.340	96.330	96.320	96.310
RHS-MCW	96.300	96.290	96.280	96.270	96.260	96.250	96.240	96.230	96.220	96.210

LHS-MCW	98.530	98.540	98.550	98.560	98.570	98.580	98.590	98.600	98.610	98.620
RHS-MCW	98.620	98.630	98.640	98.650	98.660	98.670	98.680	98.690	98.700	98.710

LHS-MCW	99.840	99.850	99.860	99.870	99.880	99.890	99.900	99.910	99.920	99.930
RHS-MCW	99.930	99.940	99.950	99.960	99.970	99.980	99.990	100.000	100.010	100.020

LHS-MCW	102.250	102.260	102.270	102.280	102.290	102.300	102.310	102.320	102.330	102.340
RHS-MCW	102.340	102.350	102.360	102.370	102.380	102.390	102.400	102.410	102.420	102.430

LHS-MCW	103.160	103.170	103.180	103.190	103.200	103.210	103.220	103.230	103.240	103.250
RHS-MCW	103.250	103.260	103.270	103.280	103.290	103.300	103.310	103.320	103.330	103.340

LHS-MCW	104.000	104.010	104.020	104.030	104.040	104.050	104.060	104.070	104.080	104.090
RHS-MCW	104.090	104.100	104.110	104.120	104.130	104.140	104.150	104.160	104.170	104.180

LHS-MCW	106.000	106.010	106.020	106.030	106.040	106.050	106.060	106.070	106.080	106.090
RHS-MCW	106.090	106.100	106.110	106.120	106.130	106.140	106.150	106.160	106.170	106.180

LHS-MCW	98.970	98.980	98.990	99.000	99.010	99.020	99.030	99.040	99.050	99.060
RHS-MCW	99.060	99.070	99.080	99.090	99.100	99.110	99.120	99.130	99.140	99.150

LHS-MCW	101.920	101.930	101.940	101.950	101.960	101.970	101.980	101.990	102.000	102.010
RHS-MCW	102.010	102.020	102.030	102.040	102.050	102.060	102.070	102.080	102.090	102.100

LHS-MCW	103.160	103.170	103.180	103.190	103.200	103.210	103.220	103.230	103.240	103.250
RHS-MCW	103.250	103.260	103.270	103.280	103.290	103.300	103.310	103.320	103.330	103.340

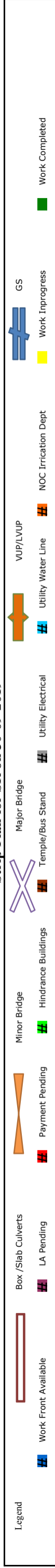
LHS-MCW	104.400	104.410	104.420	104.430	104.440	104.450	104.460	104.470	104.480	104.490
RHS-MCW	104.490	104.500	104.510	104.520	104.530	104.540	104.550	104.560	104.570	104.580

LHS-MCW	109.860	109.870	109.880	109.890	109.900	109.910	109.920	109.930	109.940	109.950
RHS-MCW	109.950	109.960	109.970	109.980	109.990	110.000	110.010	110.020	110.030	110.040

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

Sethiyahopu - Cholopuram Road Projects

Strip Plan for SR on 30-09-2019



RHS-MCW	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	
LHS-MCW	110.600	110.590	110.580	110.570	110.560	110.550	110.540	110.530	110.520	110.510	110.500	110.490	110.480	110.470	110.460	110.450	110.440	110.430	110.420	110.410	110.400	110.390	110.380	110.370	110.360	110.350

RHS-MCW	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
LHS-MCW	111.530	111.520	111.510	111.500	111.490	111.480	111.470	111.460	111.450	111.440	111.430	111.420	111.410	111.400	111.390	111.380	111.370	111.360	111.350	111.340	111.330	111.320	111.310	111.300	111.290

RHS-MCW	112.430	112.440	112.450	112.460	112.470	112.480	112.490	112.500	112.510	112.520	112.530	112.540	112.550	112.560	112.570	112.580	112.590	112.600	112.610	112.620	112.630	112.640	112.650	112.660	112.670
LHS-MCW	113.870	113.860	113.850	113.840	113.830	113.820	113.810	113.800	113.790	113.780	113.770	113.760	113.750	113.740	113.730	113.720	113.710	113.700	113.690	113.680	113.670	113.660	113.650	113.640	113.630

RHS-MCW	114.840	114.850	114.860	114.870	114.880	114.890	114.900	114.910	114.920	114.930	114.940	114.950	114.960	114.970	114.980	114.990	115.000	115.010	115.020	115.030	115.040	115.050	115.060	115.070	115.080
LHS-MCW	115.670	115.660	115.650	115.640	115.630	115.620	115.610	115.600	115.590	115.580	115.570	115.560	115.550	115.540	115.530	115.520	115.510	115.500	115.490	115.480	115.470	115.460	115.450	115.440	115.430

SETHIAHOPI CHOLOPURAM PROJECT - STATUS OF BOX CULVERTS ON EXISTING ROAD - MCW										Completed						In Progress					
Status Upto	30.09.2019									LHS						RHS					
Sr. No.	As Approved by IE	Design Chainage As per CA	Number and Length of Spans (m)	Remarks	Type of Structure	Protection Work	Slab	Wall	Raft	PCC	Granular Filling	Excavation	Excavation	Granular Filling	PCC	Raft	Wall	Slab	Protection Work		
1	74+675	74.670	EXISTING 1 x 3.0m x 2.0m	New Construction	BOX CULVERT																
2	74+800	74.808	EXISTING 1 x 1.20m	Reconstruction	BOX CULVERT																
3	75+558	75.555	EXISTING 1x3.0m	Reconstruction	BOX CULVERT																
4	75+902	75.897	EXISTING 1 x 2.0m x 2.0m	Reconstruction	BOX CULVERT																
5	76+390	76.387	EXISTING 1 x 3.0m	Reconstruction	BOX CULVERT																
6	77+382	77.379	EXISTING 1 x 4.0m	Reconstruction	BOX CULVERT																
7	77+766	77.764	EXISTING 1 x 2.0m	Widening	BOX CULVERT																
8	81+868	81.867	EXISTING 1 x 2.0m x 2.0m	Reconstruction	BOX CULVERT																
9	81+913	81.910	EXISTING 1 x 1.95m x 1.0m	Widening	BOX CULVERT																
10	83+012	83.007	EXISTING 2 x 2.0m x 2.0m	Reconstruction	BOX CULVERT																
11	83+065	83.062	EXISTING 1 x 2.0m x 2.0m	Reconstruction	BOX CULVERT																
12	89+973	89.969	EXISTING 4 x 0.75m	Widening	BOX CULVERT																
13	90+640	90.637	EXISTING 1 x 1.20m	Reconstruction	BOX CULVERT																
14	94+509	94.509	EXISTING 1 x 3.6m x 1.6m	Widening	BOX CULVERT																
15	95+495	95.490	EXISTING 1 x 1.2m x 0.9m	Reconstruction	BOX CULVERT																
16	95+794	95.787	EXISTING 1 x 1.20m	Reconstruction	BOX CULVERT																
17	96+511	96.505	EXISTING 1 x 5.0m	Reconstruction	BOX CULVERT																
18	97+530	97.534	EXISTING 1x2.0m	Reconstruction	BOX CULVERT																
19	97+742	97.738	EXISTING 1 x 3.0m x 1.0m	Widening	BOX CULVERT																
20	99+471	99.467	EXISTING 1 x 3.0m x 4.0m	Repair & Widening	BOX CULVERT																
21	99+776	99.769	EXISTING 1 x 2.0m x 2.0m	Repair & Widening	BOX CULVERT																
22	99+840	99.838	EXISTING 1 x 1.5m x 1.5m	Repair & Widening	BOX CULVERT																
23	100+177	100.173	EXISTING 1 x 1m	Repair & Widening	BOX CULVERT																
24	100+364	100.358	EXISTING 1 x 10m	Repair & Widening	BOX CULVERT																
25	100+823	100.817	EXISTING 1 x 3.5m x 2.5m	Repair & Widening	BOX CULVERT																
26	101+851	101.851	EXISTING 1 x 1.5m x 1.5m	Repair & Reconstruction	BOX CULVERT																
27	103+220	103.214	EXISTING 1 x 4.0m x 2.5m	Repair & Reconstruction	BOX CULVERT																
28	104+197	104.190	EXISTING 1 x 1.0m	Repair & Reconstruction	BOX CULVERT																
29	104+215	104.208	EXISTING 1 x 1.0m	Reconstruction	BOX CULVERT																
30	109+786	109.779	EXISTING 1 x 1.0m	Repair & Reconstruction	BOX CULVERT																
31	109+975	109.967	EXISTING 1 x 2.0m x 1.7m	Repair & Reconstruction	BOX CULVERT																
32	110+167	110.160	EXISTING 2 x 1.0m	Repair & Reconstruction	BOX CULVERT																
33	110+795	110.785	EXISTING 1 x 1.2m x 2.0m	Repair & Widening	BOX CULVERT																
34	110+980	110.971	EXISTING 1 x 1.5m x 2.0m	Repair & Reconstruction	BOX CULVERT																
35	113+897	113.885	EXISTING 1 x 1.0m	Repair & Widening	BOX CULVERT																
36	114+313	114.300	EXISTING 1 x 1.0m	Repair & Widening	BOX CULVERT																
37	114+703	114.703	EXISTING		BOX CULVERT																
38	114+954	114.952	EXISTING 1 x 1.0m	Repair & Reconstruction	BOX CULVERT																
39	115+097	115.087	EXISTING 2 x 1.0m	Repair & Reconstruction	BOX CULVERT																
40	115+232	115.221	EXISTING 1 x 2.0m x 2.0m	Repair & Reconstruction	BOX CULVERT																
41	115+381	115.368	EXISTING 1 x 2.0m	Repair & Reconstruction	BOX CULVERT																
42	115+884	115.872	EXISTING 2 x 1.0m	Repair & Widening	BOX CULVERT																
43	115+978	115.978	EXISTING 1 x 2.0m x 2.0m	Repair & Widening	BOX CULVERT																

STATUS OF BOX CULVERTS ON EXISTING ROAD - SERVICE ROAD											Completed						In Progress					
Status Upto	30.09.2019										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	30.09.2019	As Approved by IE	Design Chainage As per CA	BYPASS	Number and Length of Spans (m)	Type of Structure	Completed						In Progress														
							Protection Work	Slab	Wall	Raft	PCC	Granular Filling	Excavation	Protection Work	Slab	Wall	Raft	PCC	Granular Filling	Excavation							
Sr. No.							LHS	LHS	LHS	LHS	LHS	LHS	LHS	LHS	LHS	RHS	RHS	RHS	RHS	RHS	RHS	RHS	RHS	RHS	RHS	RHS	
1	66+357	66.383	BYPASS	1 x 3.0m x 2.0m	BOX CULVERT																						
2	67+068	67.068	BYPASS	1 x 3.0m x 2.0m	BOX CULVERT																						
3	69+357	69.357	BYPASS	1 x 2.0m x 2.0m	BOX CULVERT																						
4	72+570	72.578	BYPASS	1 x 3.0m x 2.0m	BOX CULVERT																						
5	73+755	73.755	BYPASS	1x1.2.0mx2.0m	PIPE CULVERT																						
6	104+622	104.618	BYPASS	1 x 2.0m x 2.0m	BOX CULVERT																						
7	104+998	104.992	BYPASS	1 x 4.0m x 2.0m	BOX CULVERT																						
8	105+440	105.440	BYPASS	1 x 2.0m x 2.0m	BOX CULVERT																						
9	105+536	105.525	BYPASS	1 x 2.0m x 2.0m	BOX CULVERT																						
10	106+442	106.432	BYPASS	1 x 2.0m x 2.0m	BOX CULVERT																						
11	108+002	107.994	BYPASS	1 x 3.0m x 2.0m	BOX CULVERT																						
12	108+080	108.070	BYPASS	1 x 4.0m x 2.0m	BOX CULVERT																						
13	108+225	108.225	BYPASS	1 x 3.0m x 2.0m	BOX CULVERT																						
14	108+345	108.334	BYPASS	1 x 3.0m x 2.0m	BOX CULVERT																						
15	108+441	108.441	BYPASS	1 x 3.0m x 2.0m	BOX CULVERT																						
16	108+540	108.500	BYPASS	1 x 2.0m x 2.0m	BOX CULVERT																						
17	108+767	108.767	BYPASS	1 x 4.0m x 2.0m	BOX CULVERT																						
18	111+205	111.196	BYPASS	1 x 1.0m	PIPE CULVERT																						
19	111+452	111.452	BYPASS		PIPE CULVERT																						

SETHIAHOPU CHOLOPURAM PROJECT - STATUS OF BOX CULVERTS ON BYPASS - SERVICE ROAD																																	
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	Protection Work	Slab	Wall	Raft	PCC	Granular Filling	Excavation															
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	30.09.2019											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	Completed					In Progress													
Sr. No.	As Approved by IE	Design Chainage As per CA	Number and Length of Spans (m)	Type of Structure	Protection Work	LHS					RHS								
						Slab	Wall	Raft	PCC	Granular Filling	Excavation	Excavation	Granular Filling	PCC	Raft	Wall	Slab	Protection Work	
1	74+605	74.600	2 x 12.5m	MNBB															
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	30.09.2019						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)																				
Status upto	30.09.2019	Completed										In Progress								
SR.NO.	MNB at Chainage	Span			Crash Barrier	LHS						RHS								
						Slab	Girder	Piercap /Abtcap	Pier/Abt	Open Foundation	PCC	Excavation	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													
Completed													
In Progress													
RHS/RSR													
Crash	Barrier	Slab	Girder	Casting	Pier	Cap/Abt	Cap/Abt	Pier/Abt	Pile Cap	Pier/Abt	Crash	Barrier	
LHS/LSR	RHS/RSR												
A1													
P1													
P2													
P3													
P4													
P5													
P6													
P7													
A2													
MJB at Chainage 73 + 340 (9x30) - BYPASS													
Completed													
In Progress													
LHS/LSR													
Crash	Barrier	Slab	Girder	Casting	Pier	Cap/Abt	Cap/Abt	Pier/Abt	Pile Cap	Pier/Abt	Crash	Barrier	
LHS/LSR	RHS/LSR												
A1													
P1													
P2													
P3													
P4													
P5													
P6													
P7													
P8													
A2													

MJB at Chainage 99 + 583 (3x25) - EXISTING ROAD		Completed										In Progress									
LHS/LSR										RHS/LSR											
	Crash	Barrier	Slab	Girder	Casting	Pier	Cap/Abt	Cap	Pier/Abt	Pile Cap	Pier	Pier/Abt	Pier	Cap/Abt	Cap	Girder	Casting	Slab	Barrier	Crash	
A1																					
P1																					
P2																					
A2																					
MJB at Chainage 107 + 400 - BYPASS																					
LHS/LSR										RHS/LSR											
	Crash	Barrier	Slab	Girder	Casting	Pier	Cap/Abt	Cap	Pier/Abt	Pile Cap	Pier	Pier/Abt	Pier	Cap/Abt	Cap	Girder	Casting	Slab	Barrier	Crash	
A1																					
P1																					
P2																					
P3																					
P4																					
P5																					
P6																					
P7																					
P8																					
P9																					
P10																					
P11																					
P12																					
P13																					
P14																					
P15																					
P16																					
P17																					
P18																					
P19																					
A2																					

SETHYAHOPU CHOLOPURAM PROJECT - STATUS OF FLYOVER										Completed							In Progress						
Sr.No.	Status upto	30.09.2019	FO at Chainage	Span			LHS							RHS									
							Crash Barrier	Slab	Girder Casting	Percap /Abtcap	Abt Shaft	Pile Cap	PCC	Pile	Crash Barrier	Slab	Girder Casting	Percap /Abtcap	Abt Shaft	Pile Cap	PCC	Pile	
1			69+785	1x30	BYPASS																		
2			74+655	1x30	BYPASS+EXISTING																		
3			80+556	1x30	EXISTING																		
4			80+720	1x30	EXISTING																		
5			95+455	2x30	EXISTING																		
6			98+950	2x30	EXISTING																		
7			104+570	1x30	BYPASS																		
8			110+110	1x30	EXISTING																		

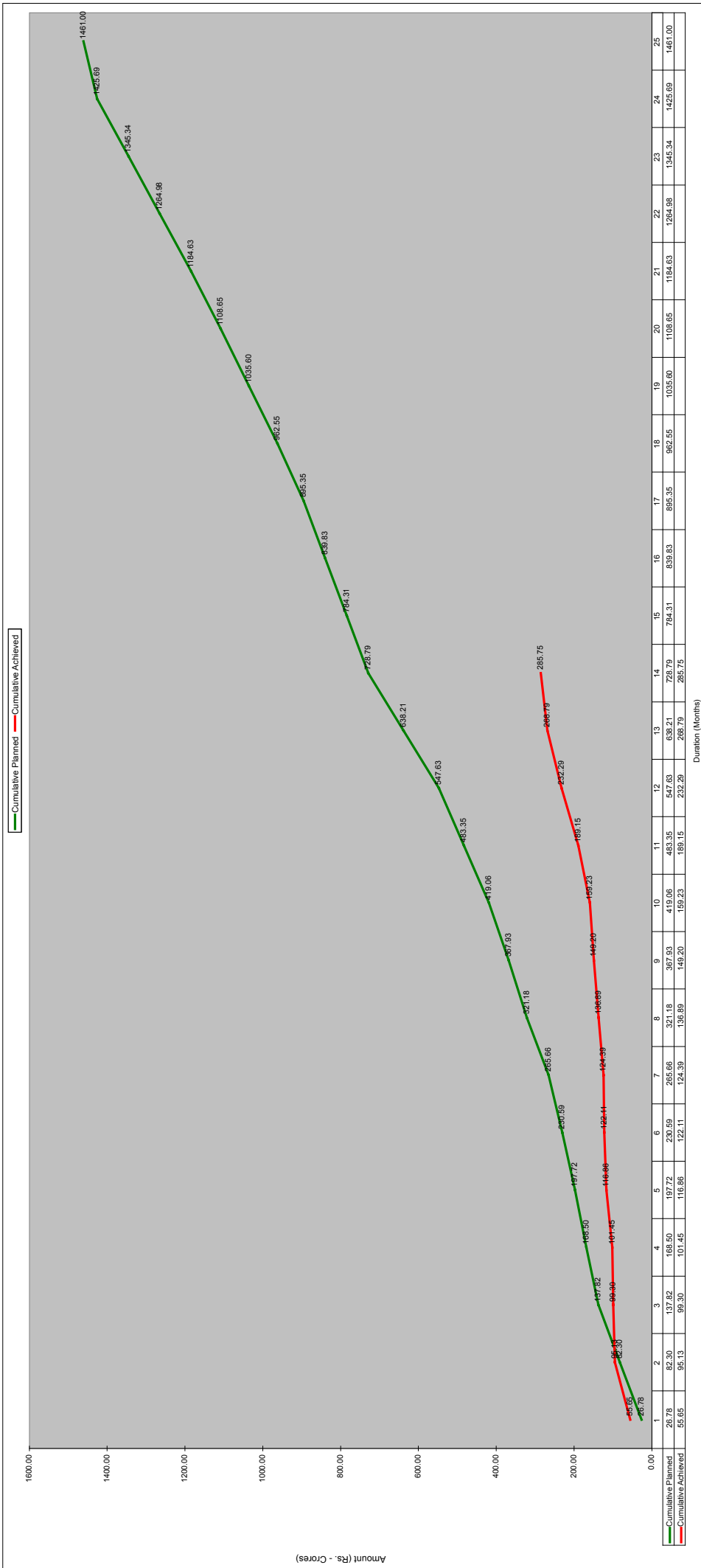
SETHIYAHOPU CHOLOPURAM PROJECT - STATUS OF VUP			Completed								In Progress								
Status upto	30.09.2019		LHS								RHS								
SR.NO.	VUP at Chainage	Span	Crash Barrier	Slab	Girder Casting	Piercap /Abtcap	Abt Shaft	Pile Cap	PCC	Pile	Crash Barrier	Slab	Girder Casting	Piercap /Abtcap	Abt Shaft	Pile 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)

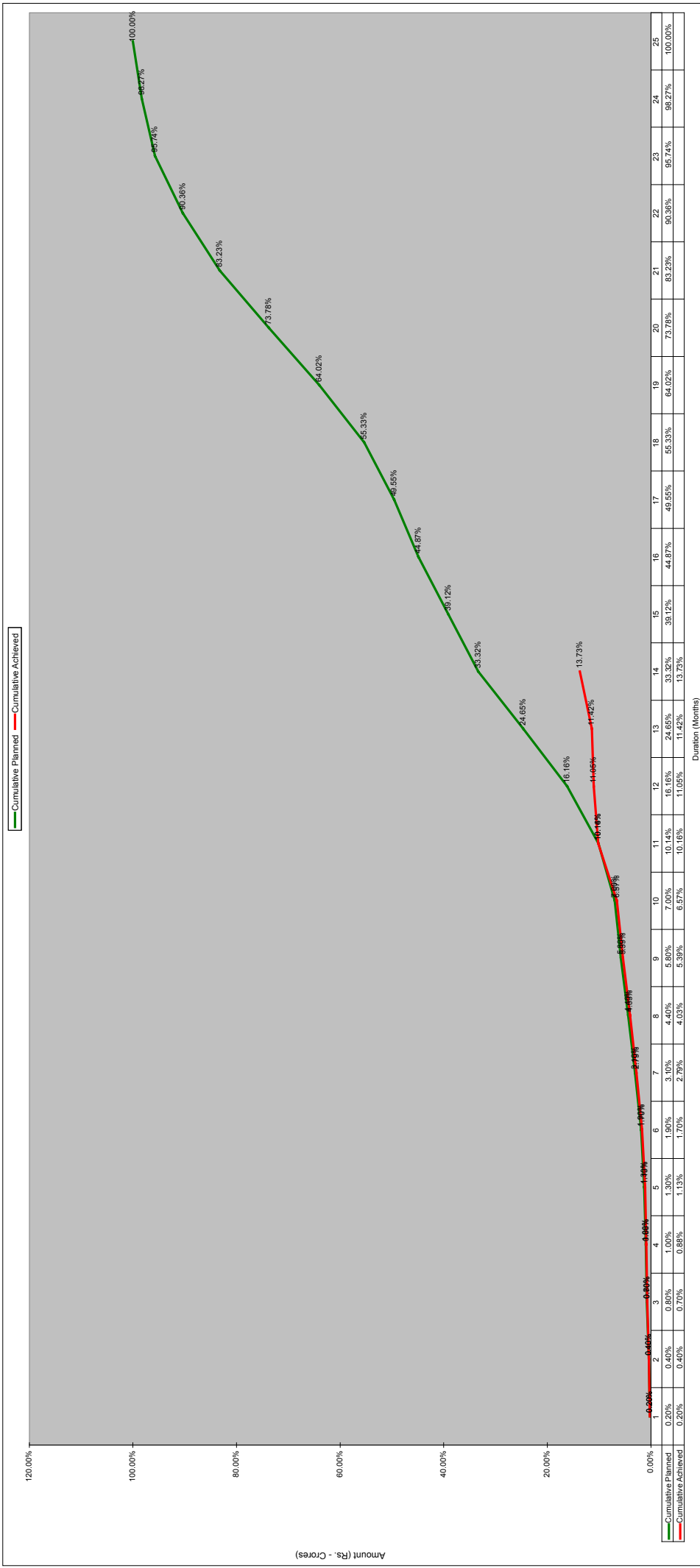


Schedule	2019												2020												
	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Monthly Planned	26.78	55.52	55.52	30.68	29.22	32.87	35.06	55.52	46.75	51.14	64.28	64.28	90.58	90.58	55.52	55.52	55.52	67.21	73.05	73.05	75.97	80.36	80.36	80.36	35.31
Monthly Achieved	55.65	39.48	4.17	2.15	15.41	5.26	2.27	12.50	12.31	10.03	29.92	43.15	36.50	16.96											
Cumulative Planned	26.78	82.30	137.82	168.50	197.72	230.59	265.66	321.18	367.93	419.06	483.35	547.63	638.21	728.79	784.31	839.83	895.35	962.55	1035.60	1108.65	1184.63	1264.98	1345.34	1425.69	1461.00
Cumulative Achieved	55.65	95.13	99.30	101.45	116.86	122.11	124.39	136.89	149.20	159.23	189.15	232.29	268.79	285.75											
Monthly Planned (%)	1.8%	3.8%	3.8%	2.1%	2.0%	2.3%	2.4%	3.8%	3.2%	3.5%	4.4%	4.4%	6.2%	6.2%	3.8%	3.8%	3.8%	4.6%	5.0%	5.0%	5.2%	5.5%	5.5%	5.5%	2.4%
Monthly Achieved (%)	3.8%	2.7%	0.3%	0.1%	1.1%	0.4%	0.2%	0.9%	0.8%	0.7%	2.0%	3.0%	2.5%	1.2%											
Cumulative Planned (%)	1.8%	5.6%	9.4%	11.5%	13.5%	15.8%	18.2%	22.0%	25.2%	28.7%	33.1%	37.5%	43.7%	49.9%	53.7%	57.5%	61.3%	65.9%	70.9%	75.9%	81.1%	86.6%	92.1%	97.6%	100.0%
Cumulative Achieved (%)	3.8%	6.5%	6.8%	6.9%	8.0%	8.4%	8.5%	9.4%	10.2%	10.9%	12.9%	15.9%	18.4%	19.6%											

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Four Lining 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%	1.24%	1.36%	1.18%	3.59%	0.89%	0.37%	2.31%											
Cumulative Planned	0.20%	0.40%	0.80%	1.00%	1.30%	1.90%	3.10%	4.40%	5.80%	7.00%	10.14%	16.16%	24.65%	33.32%	39.12%	44.87%	49.55%	55.33%	64.02%	73.78%	83.23%	90.36%	95.74%	98.27%	100.00%
Cumulative Achieved	0.20%	0.40%	0.70%	0.88%	1.13%	1.70%	2.79%	4.03%	5.39%	6.57%	10.16%	11.05%	11.42%	13.73%											

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 September - 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 SEP-2019

S. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous(AUG) month			Tests conducted during reporting month upto 30 th SEP-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	0	82
1.2	Atterberg Limits	IS:2720 (Part5)	1 test / 250 meters	313	313	0	82	0	0	0	0	0	313	0	82
1.3	Proctor	IS:2720 (Part8)	1 test / 250 meters	313	313	0	82	0	0	0	0	0	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
1.5	California bearing ratio	IS:2720 (Part16)	As required	0	0	0	0	0	0	0	0	0	0	0	0
2.0 Borrow Area for EMB/Subgrade (MoRT&H 305)															
2.1	Grain size analysis	IS:2720 (Part4)	1 test /1500 m ³	499	499	0	342	5	5	0	0	0	504	504	0
2.2	Atterberg Limits	IS:2720 (Part5)	1 test /1500 m ³	499	499	0	342	5	5	0	0	0	504	504	0
2.3	Proctor	IS:2720 (Part8)	1 test /1500 m ³	499	499	0	342	5	5	0	0	0	504	504	0
2.4	Free Swell index	IS:2720 (Part40)	1 test /1500 m ³	499	499	0	342	5	5	0	0	0	504	504	0
2.5	California bearing ratio	IS:2720 (Part16)	1 test / 3000 m ³	75	73	2	40	5	5	0	0	0	80	78	2
2.6	Direct shear Test	IS:2720 (Part13)	1 test / 3000 m ³	22	22	0	9	10	10	0	0	0	32	32	0
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
3.2	Atterberg Limits	IS:2720 (Part5)	1 test /1500 m ³	10	8	0	5	0	0	0	0	0	10	8	0
3.3	Proctor	IS:2720 (Part8)	1 test /1500 m ³	10	8	0	5	0	0	0	0	0	10	8	0
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
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
4.0 FLYASH For Embankment															
4.1	Liquid Limit & Plastic limit	TABLE-1	1 test /1500 m ³	105	105	0	77	40	40	0	0	12	145	145	0
4.2	Maximum Dry Density	Clause 5.2	1 test /1500 m ³	105	105	0	77	40	40	0	0	24	145	145	0
4.3	Grain size analysis	IS:2720 (Part4)	1 test /3000 m ³	25	25	0	11	20	20	0	0	24	45	45	0
4.4	Direct shear Test	IS:2720 (Part13)	1 test /3000 m ³	25	25	0	14	20	20	0	0	11	45	45	0
5.0 Field Density Test MoRT&H 305															
5.1	Field density (OGL)	IS:2720 (Part28)	1 test /3000 sqm	3073	2977	96	914	33	33	0	0	0	3106	3010	96
5.2	EMB field density	IS:2720 (Part28)	1 test /3000 sqm	16172	15653	519	3441	2919	2859	60	544	19091	18512	579	3985
5.3	SG field density	IS:2720 (Part28)	1 test / 2000 sqm	2031	1980	51	742	30	30	0	10	2061	2010	51	752
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	2756	2732	24	183	120	120	0	20	2876	2852	24	203
6.0 Filter Media & Back filling MoRT&H 2500															
6.1	Gradation		As required	0	0	0	0	0	0	0	0	0	0	0	0
6.2	Backfilling field density		1 test /1000 m ³	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

S. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous(AUG) month			Tests conducted during reporting month upto 30 th SEP-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	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	51	47	4	47	1	0	1	0	52	47	5	47
7.2	Grain size analysis	IS:2720 (Part4)	As required	51	51	0	47	1	0	1	0	52	52	0	47
7.3	Proctor	IS:2720 (Part8)	As required	51	51	0	47	1	0	1	0	52	52	0	47
7.4	Direct shear Test	IS:2720 (Part13)	As required	51	44	7	47	1	0	1	0	52	44	8	47
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	117	117	0	90	0	0	0	0	117	117	0	90
8.2	Atterberg Limits	IS:2720 (Part5)	1 test/400m ³	26	26	0	23	0	0	0	0	26	26	0	23
8.3	Proctor	IS:2720 (Part8)	As required	10	10	0	9	0	0	0	0	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	8	8	0	7	0	0	0	0	8	8	0	7
8.7	Field Density	IS:2720 (Part28)	1 set of 2 Test per	464	464	0	278	0	0	0	0	464	464	0	278
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	119	119	0	81	0	0	0	0	119	119	0	81
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
11.0 WMM Mix Design															
11.1	Gradation	Table 400-3	1 test/200m ³	25	25	0	25	0	0	0	0	25	25	0	25
11.2	Aggregate Impact Value	IS:2386 Part-4	1 test/ 1000 m ³	3	3	0	3	0	0	0	0	3	3	0	3
11.3	Flakiness & Elongation index	IS:2386 Part1	1 test/ 500 m ³	2	2	0	2	0	0	0	0	2	2	0	2
11.4	Atterberg Limits	IS:2720 (Part5)	1 test/200m ³	2	2	0	2	0	0	0	0	2	2	0	2
11.5	Water absorption & Sp.Gravity	IS:2386 Part2	As required	4	4	0	4	0	0	0	0	4	4	0	4
11.6	Proctor	IS:2720 (Part8)	As required	2	2	0	2	0	0	0	0	2	2	0	2
11.7	CBR	IS:2720 (Part16)	As required	1	1	0	1	0	0	0	0	1	1	0	1
11.8	Field Density	IS:2720 (Part28)	1 set Test per 1000Sq.m / 3 pits	0	0	0	0	0	0	0	0	0	0	0	0

S. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous(AUG) month			Tests conducted during reporting month upto 30 th SEP-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	No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos. of test witnessed by IE
12.0 WMM Site Frequency MoRT&H 406														
12.1	Gradation	Table 400-3	1 test/200m ³	54	54	0	26	10	10	0	8	64	0	34
12.2	Aggregate Impact Value	IS:2386 Part-4	1 test/ 1000 m ³	13	13	0	9	5	5	0	3	18	0	12
12.3	Flakiness & Elagation index	IS:2386 Part1	1 test/ 500 m ³	23	23	0	14	6	6	0	3	29	0	17
12.4	Afterberg Limits	IS:2720 (Part5)	1 test/200m ³	45	45	0	24	10	10	0	8	55	0	32
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	3	3	0	2	1	1	0	1	4	0	3
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	81	81	0	63	24	24	0	15	105	0	78
13.0 Dense Bituminous Macadam (Grade - II)														
13.1	Bitumen Extraction Test		1 Test/400MT	0	0	0	0	24	24	0	24	24	0	24
13.2	Gradation	Table 500 - 18, Grad.II	1 Test/400MT	0	0	0	0	24	24	0	24	24	0	24
13.3	Flakiness & Elagation index	IS:2386 Part1	1 test/ 50 m ³	0	0	0	0	17	17	0	17	17	0	17
13.4	Aggregate Impact Value	IS:2386 (Part4)	1 test/50m ³	0	0	0	0	17	17	0	17	17	0	17
13.5	Marshall Density	ASTM D 2726	1 Test/400MT	0	0	0	0	28	28	0	28	28	0	28
13.6	GMM		1 Test/400MT	0	0	0	0	24	24	0	24	24	0	24
13.0 Prime Coat														
13.1	Rate of Spread of Binder		Three tests per day	0	0	0	0	48	48	0	24	48	0	24
14.0 Tack Coat														
14.1	Rate of Spread of Binder		Three tests per day	0	0	0	0	30	30	0	14	0	0	14
15.0 Fine Aggregate MoRT&H 1008														
15.1	Grade / Sieve analysis	IS:2386 (Part1)	1 test per day	510	510	0	188	46	46	0	15	556	0	203
15.2	Specific gravity & Water absorption	IS:2386 (Part2)	As required	16	16	0	15	0	0	0	0	16	0	15
15.3	Finess Modulus	MORT&H Sec. 1008&383	1 test per day	368	368	0	116	46	46	0	15	414	0	131
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
16.0 Coarse Aggregate MoRT&H 1007														
16.1	Gradation	IS:2386 (Part2)	1 test per day	510	510	0	203	46	46	0	15	556	0	218
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	174	174	0	94	11	11	0	2	185	0	96
16.4	Flakiness Index	IS:2386 (Part1)	1 test / each source & monthly	144	144	0	81	11	11	0	2	155	0	83
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

S. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous(AUG) month			Tests conducted during reporting month upto 30 th SEP-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
17.0 Cement MoRT&H 1006														
17.1	Chemical test / Physical test	IS:4031,4032	1 test per source	6	15	0	6	0	0	0	6	15	0	6
17.2	Fineness	IS:4031 (Part1)	Every batch	225	225	0	127	11	11	0	236	236	0	130
17.3	Normal Consistency	IS:4031 (Part4)	Every batch	197	197	0	127	11	11	0	208	208	0	130
17.4	Initial, Final setting time	IS:4031 (Part5)	Every batch	197	197	0	127	11	11	0	208	208	0	130
17.5	Soundness of Cement	IS:4031 (Part3)	Every batch	167	167	0	104	5	5	0	172	172	0	105
17.6	Compressive Strength-set	IS:4031 (Part6)												
	3 days		1 test per Lot	157	157	0	92	9	9	0	166	166	0	95
	7 days		1 test per Lot	152	152	0	92	8	8	0	160	160	0	94
	28 days		1 test per Lot	144	144	0	81	6	6	0	150	150	0	83
18.0 Water														
18.1	Chemical test	IS 2386	1 test per source	5	5	0	5	0	0	0	5	5	0	5
19.0 Admixture														
19.1	Physical Properties	IS 9103	1 test per Lot	4	4	0	4	0	0	0	4	4	0	4
19.2	Chemical Test	IS 9103	1 test per source	3	3	0	3	0	0	0	3	3	0	3
20.0 Steel														
20.1	8 mm Dia	IS 1786		2	2	0	2	0	0	0	2	2	0	2
20.2	10 mm Dia	IS 1786		7	5	0	6	0	0	0	7	5	0	6
20.3	12 mm Dia	IS 1786		9	5	0	7	0	0	0	9	5	0	7
20.4	16 mm Dia	IS 1786	Physical Properties & Chemical Test 2 test per Lot	9	5	0	7	0	0	0	9	5	0	7
20.5	20 mm Dia	IS 1786		9	5	0	7	0	0	0	9	5	0	7
20.6	25 mm Dia	IS 1786		3	1	0	2	0	0	0	3	1	0	2
20.7	32 mm Dia	IS 1786		3	2	0	3	0	0	0	3	2	0	3
21.(A) Concrete Cube Strength														
M15 PCC														
	7Days Compressive Strength		MORT&H Sec. 1700 No of sets	210	207	0	107	11	11	0	221	218	0	110
	28Days Compressive Strength			333	333	0	213	52	52	0	385	385	0	219
M20 KERB														
	7Days Compressive Strength		MORT&H Sec. 1700 No of sets	34	34	0	14	5	5	0	39	39	0	17
	28Days Compressive Strength			3	3	0	3	17	17	0	20	20	0	3
M20 RCC														
	7Days Compressive Strength		MORT&H Sec. 1700 No of sets	26	26	0	11	17	17	0	43	43	0	15
	28Days Compressive Strength			61	61	0	35	31	31	0	92	92	0	43
M30 RCC														
	7Days Compressive Strength		MORT&H Sec. 1700 No of sets	110	110	0	78	5	5	0	115	115	0	80
	28Days Compressive Strength			229	229	0	136	7	7	0	236	236	0	136
M30 RCC PUMPABLE														
	7Days Compressive Strength		MORT&H Sec. 1700 No of sets	4	4	0	2	0	0	0	4	4	0	2
	28Days Compressive Strength			8	8	0	4	0	0	0	8	8	0	4

S. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous(AUG) month				Tests conducted during reporting month upto 30 th SEP-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
M35 RCC															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	141	141	0	109	1	1	0	1	142	142	0	110
	28Days Compressive Strength			305	305	0	216	0	0	0	0	0	305	305	0
M35 RCC PILING															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	381	381	0	228	59	59	0	26	440	440	0	254
	28Days Compressive Strength			890	884	0	536	227	227	0	111	1117	1111	0	647
M35 RCC PUMPABLE															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	140	140	0	70	13	13	0	4	153	153	0	74
	28Days Compressive Strength			371	371	0	219	52	52	0	14	423	423	0	233
M35 RE BLOCK															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	353	353	0	139	32	32	0	5	385	385	0	144
	28Days Compressive Strength			870	870	0	404	97	97	0	23	967	967	0	427
M40 RCC															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	3	3	0	3	0	0	0	0	3	3	0	3
	28Days Compressive Strength			6	6	0	6	0	0	0	0	6	6	0	6
M40 PUMP															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	40	40	0	18	6	6	0	0	46	46	0	18
	28Days Compressive Strength			60	60	0	21	46	46	0	5	106	106	0	26
M40 PILE															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	303	303	0	89	0	0	0	0	303	303	0	89
	28Days Compressive Strength			863	863	0	265	128	128	0	0	991	991	0	265
M45 RCC															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	3	3	0	3	0	0	0	0	3	3	0	3
	28Days Compressive Strength			6	6	0	0	0	0	0	0	6	6	0	0
M45 PUMP															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	19	19	0	2	0	0	0	0	19	19	0	2
	28Days Compressive Strength			4	4	0	0	48	48	0	0	52	52	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			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	38	38	0	13	23	23	0	2	61	61	0	15
	28Days Compressive Strength			48	48	0	27	87	87	0	15	135	135	0	42

7. Weather Report

DATE	Temperature (°C)		Rainfall in mm	Humidity in %		Remarks
	Min	Max		Min	Max	
9/1/2019	28.30	32.0	0.00	61	79	Sunny
9/2/2019	28.50	32.8	2.00	60	70	Rainfall
9/3/2019	28.50	34.1	0.00	53	71	Sunny
9/4/2019	27.80	33.1	6.00	60	79	Rainfall
9/5/2019	28.10	33.8	0.00	51	75	Sunny
9/6/2019	28.90	30.1	0.00	65	71	Sunny
9/7/2019	30.10	33.1	0.00	60	66	Sunny
9/8/2019	30.00	30.2	0.00	46	61	Sunny
9/9/2019	30.20	36.5	0.00	44	66	Sunny
9/10/2019	29.20	34.0	0.00	55	71	Sunny
9/11/2019	28.30	35.0	45.40	51	79	Rainfall
9/12/2019	27.10	35.0	24.00	50	92	Rainfall
9/13/2019	27.80	32.5	45.00	60	79	Rainfall
9/14/2019	27.40	32.2	0.00	69	88	Sunny
9/15/2019	27.50	32.1	0.00	68	86	Sunny
9/16/2019	27.90	32.9	26.00	62	86	Rainfall
9/17/2019	26.10	31.2	27.00	70	99	Rainfall
9/18/2019	26.20	31.2	0.00	69	86	Sunny
9/19/2019	26.10	31.9	0.00	68	82	Sunny
9/20/2019	27.50	31.6	0.00	70	92	Sunny
9/21/2019	29.20	33.4	0.00	62	86	Sunny
9/22/2019	28.50	32.2	0.00	69	84	Sunny
9/23/2019	27.60	32.4	3.00	69	84	Rainfall
9/24/2019	26.80	32.4	0.00	65	91	Sunny
9/25/2019	27.80	30.4	25.00	74	87	Rainfall
9/26/2019	27.60	32.3	0.00	66	91	Sunny
9/27/2019	27.90	32.9	0.00	59	88	Sunny
9/28/2019	27.10	32.3	0.00	65	95	Sunny
9/29/2019	26.80	32.3	6.00	62	92	Rainfall
9/30/2019	26.10	30.3	0.00	67	91	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	Kurinjiipadi	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 10 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	Ulkottai North	320	19.66	26.11.2018	
6	Ariyalur	Udayarpalayam	Vempakkudi	110	12.69	26.11.2018	
7	Ariyalur	Udayarpalayam	Uthayanatham East	313-2A	6.83.5	26.11.2018	
8	Ariyalur	Udayarpalayam	Uthayanatham East	227, 231-3, 232	12.83.5	26.11.2018	
9	Ariyalur	Udayarpalayam	Ammannakkanthodi	66, 65, 104, 105, 106, 110, 112, 116, 123, 124	43.83.5	26.11.2018	
10	Ariyalur	Udayarpalayam	Ammannakkanthodi	57, 58, 59, 61, 62	19.07.5	26.11.2018	
11	Ariyalur	Udayarpalayam	Kuruvalaper kovil	1, 226, 227, 228, 427, 428, 429, 430, 431, 432, 433	38.62	26.11.2018	
12	Ariyalur	Udayarpalayam	Udayarpalayam	614-4B, 615-2, 616 - 1, 617, 610-	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	2	2	
	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.	92+455	Temple	LHS	14	Type - A3	18.80	23.70	
5.	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.Sebastiyamal	143/1A1		W.P.No.14874/2018 dated 21.06.2018

Table 10.1. Details of Important Events			
Sl. No	Date of Events	Description of Events	Remarks
1.	16.09.2019	RO NHAI Madurai Site Inspection	
2.	24.09.2019	OSD (MoRTH) & CGM (Tech) NHAI Site Inspection	
3	18.09.2019- 27.10.2019	Swachhata Hi Seva campaign	

11. Organization Chart

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

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

ORGANIZATION CHART - EPC TEAM

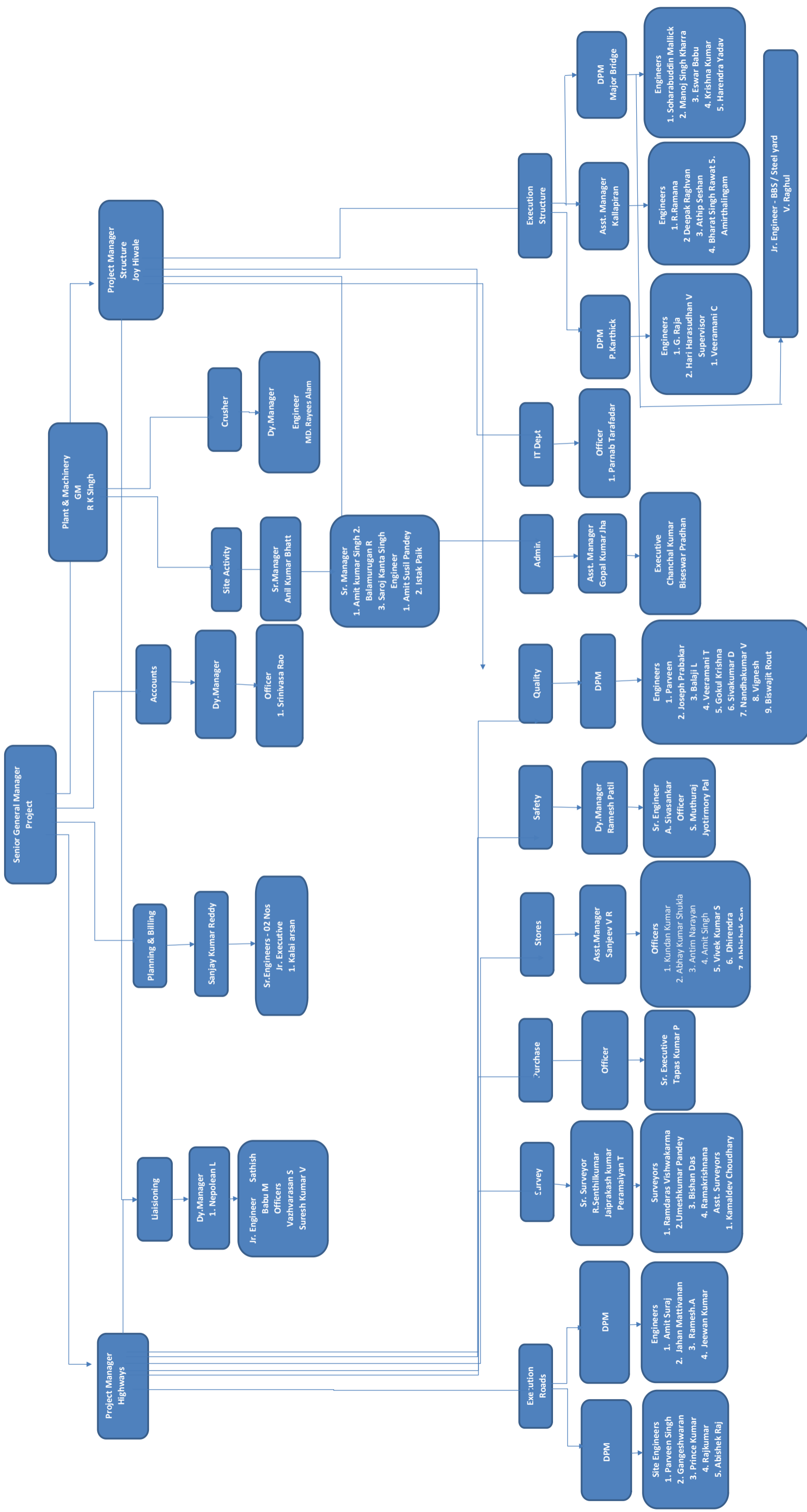
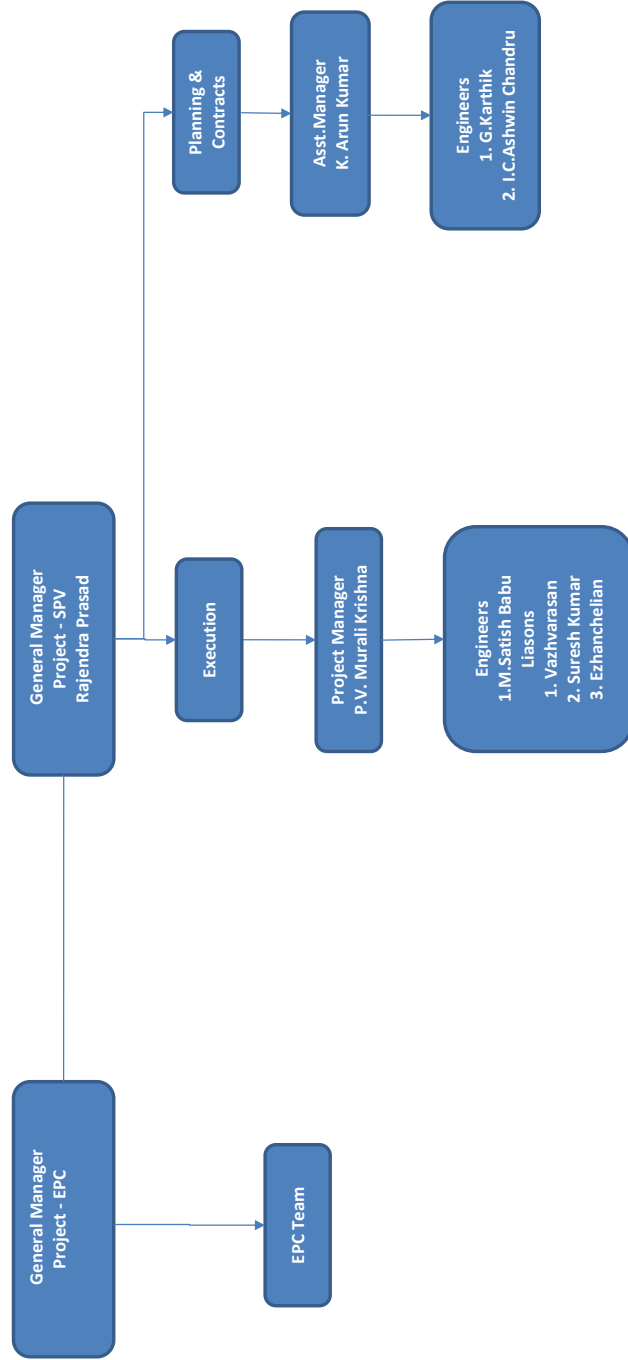


Figure 5 - ORGANIZATION CHART - SPV TEAM



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	9	
2	Excavator	JCB-220	9	
3	Dozer		3	
4	Soil Compactor	HAMM 311	8	
5	Backhoe Loader	JCB 3DX	7	
6	Tipper	Bharat Benz- 3128C	73	
7	Transit Mixture	2523C	8	
8	Loader	455 ZX	4	
9	Trailer		2	
10	Water Tanker		5	
11	Boom Placer	S-36	1	
12	Tractor	5036 D V-2	2	
13	Mobile Service Van		1	
14	Tower Light	AJASKY	3	
11	Hydra Crane		2	
12	Asphalt Batch Mix Plant		1	
13	Wet Mix Plant	250 TPH	1	
14	Concrete Batch Mix Plant	45 cum	1	
15	Concrete Batch Mix Plant	60 cum	2	
16	Crusher Plant (3 Stage)	250 TPH	2	
17	Weigh Bridge for Camp 100MT	100MT	3	
18	Weigh Bridge for Crusher 100MT	100MT	2	
19	Genset Base Camp	25KV	1	
20	Genset 63KVA Boiler	63KVA Boile	1	
21	Genset (H.M & B/P)	82.50KV	3	
22	Genset (B/P-CP-45)	125KV	2	
23	Genset Concrete Plant-180 KVA	180 KVA	1	
24	Genset (Crusher)	1010KVA	3	
25	Gantry at Box Segment Casting Yard	100 MT	2	

13. Change of Scope Proposals

Table 13.1 - Status of Change of Scope Proposals

Sl. No	Proposal Details	Date of Proposal	Current Status	COS Amount	Actual Date of Approval
1	Replacement of Pipe 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	Strengthening/up grade the incident Management Service	10.05.2019	Required COS notice for Strengthening/upgrade the incident Management Service.	NA	NA
3	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
4	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
5	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
6	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	9/6/2019	PSCHPL/SCP/NHAI/2019/497	Construction activities hampered due to delay in disbursement of payment to the land owners in Ariyalur district	
2	9/14/2019	PSCHPL/SCP/NHAI/2019/507	Hindrance obstruction of irrigation structures within the proposed carriageway	
3	9/14/2019	PSCHPL/SCP/NHAI/2019/508	Compliance report-Request to provide parapet wall to sethiyahopu vellar new bridge at Km.79 +716	

TABLE 14.2 - CORRESPONDANCE - NHAI TO CONCESSIONAIRE

S.No	Date	Letter No	Subject	Remarks
1	9/3/2019	NHAI/PIU/Thanjavur/11025/18/2018/1722	Request to clear the working site	
2	9/4/2019	NHAI/PIU/Thanj/11025/08/2018/1730	Shifting of electrical utilities like HT/LT lines & structures in Ariyalur Division - Meensuritti section	
3	9/4/2019	NHAI/PIU/Thanj/11027/07/2009/1740	Monitoring of bridge repairing schedule and submission of updated progress status quarterly	
4	9/4/2019	NHAI/PIU/Thanj/11019/32/2012/1746	Fabrication, supply and inspection of steel girders for ROB	
5	9/4/2019	NHAI/PIU/Thanj/11025/04/2018/1748	Constitution of chief minister's award-Best district collector and commissioner of police for the best performance on Road safety criteria for selection-report requested	
6	9/11/2019	NHAI/PIU/Thanj/11025/04/2018/1761	Request to provide parapet wall to sethiyathope vellar bridge	
7	9/13/2019	NHAI/PIU/Thanj/11099/002009/1803	Celebration Theme senior citizen - compliance report sought for	
8	9/13/2019	NHAI/PIU/Thanj/11023/01/2009/1804	Rainwater harvesting and Artificial recharging along national highway - standard operating procedure	

TABLE 14.3 - CORRESPONDANCE - CONCESSIONAIRE TO INDEPENDENT ENGINEER				
S.No	Date	Letter No	Subject	Remarks
1	9/2/2019	PSCCHPL/HO/SCP/IE/017/2019	Request for extension of time for project completion schedule (Schedule-G) of concession agreement	
2	9/3/2019	PSCCHPL/SCP/IE/2019/493	Job Mix Fourmula for DBM	
3	9/6/2019	PSCCHPL/SCP/IE/2019/494	Submission of Revised design and drawings of minor bridge at Ch. 112 +810 (SR)	
4	9/6/2019	PSCCHPL/SCP/IE/2019/495	Submission of Credentials for Antistripping Agent	
5	9/6/2019	PSCCHPL/SCP/IE/2019/496	Submission of Monthly progress report for the month of August 2019	
6	9/7/2019	PSCCHPL/SCP/IE/2019/498	Hindranceobstruction of electrical substation between km 85 + 300 to 85 + 400 within the proposed carriageway, request to recommend Authority for earlier removal /relocation	
7	9/10/2019	PSCCHPL/SCP/IE/2019/499	Procurement of Steel Reinforcement from M/s Agarwal foundries Pvt Ltd	
8	9/11/2019	PSCCHPL/SCP/IE/2019/501	Submission of soil Test reports for the borrow Area No 16 (Extension -01)	
9	9/12/2019	PSCCHPL/SCP/IE/2019/502	Submission of concrete mix design reports for M-40 & M-45 RCC (pump concrete)	
10	9/12/2019	PSCCHPL/SCP/IE/2019/503	Submission of revised design & drawings for a minor bridge at ch 68 + 650	
11	9/12/2019	PSCCHPL/SCP/IE/2019/504	Submission of IPC -01 as per sub-clause 23.4 of concession agreement	
12	9/12/2019	PSCCHPL/SCP/IE/2019/505	Submission of design and drawings of a major bridge at Ch 66 + 543	
13	9/16/2019	PSCCHPL/SCP/IE/2019/509	Construction activities hampered due to unprecedented rains	
14	9/17/2019	PSCCHPL/SCP/IE/2019/510	Submission of Soil Test Reports for the Borrow Area No.12 (Extension-01)	
15	9/17/2019	PSCCHPL/SCP/IE/2019/511	Submission of Third Party Test Report on Geo Grid	
16	9/21/2019	PSCCHPL/SCP/IE/2019/512	Third party test reports on admixture from Ms BASF India Limited	
17	9/21/2019	PSCCHPL/SCP/IE/2019/513	Third party test reports on coarse aggregate from sithali Quarry	
18	9/27/2019	PSCCHPL/HO/SCP/IE//020/2019	Submission of alternative proposal for the construction of VUP at km 113 + 550 to avoid electrical substation of TANGEDCO	

TABLE 14.4 - CORRESPONDANCE - INDEPENDENT ENGINEER TO CONCESSIONAIRE / NHAI				
S.No	Date	Letter No	Subject	Remarks
1	9/3/2019	TES/IE/SCP/PIL/2019/380	Remove Construction material and Coffor Dam- Requested	
2	9/4/2019	TES/IE/SCP/PIL/2019/381	Initial Pile Load test for VUP at Km 72 + 545 -Reminder -I	
3	9/4/2019	TES/IE/SCP/PIL/2019/382	Submission of revised design and drawings of Major Bridge at Km 73 + 340	
4	9/6/2019	TES/IE/SCP/NHAI/2019/108	Discrepancies with respect to actual requirements and size of structures as per CA and site conditions -Detailed Calculations	
5	9/9/2019	TES/IE/SCP/PIL/2019/383	M-60 Concrate mix designs-2	
6	9/9/2019	TES/IE/SCP/PIL/2019/384	Source approval for procurement of Antistripping from M/s HPCL & Tiki Tar	
7	9/9/2019	TES/IE/SCP/PIL/2019/385	Fly Ash (Ext -05)	
8	9/9/2019	TES/IE/SCP/PIL/2019/386	Proposal of Borrow Area No-08 (Ext-01)	
9	9/9/2019	TES/IE/SCP/PIL/2019/387	Kerb Laying	
10	9/12/2019	TES/IE/SCP/NHAI/2019/109	Shifting of Electrical utilities like HT/LT Lines & structures in Ariyalur Division - Meensuritti Section-RA Bill No.07	
11	9/12/2019	TES/IE/SCP/NHAI/2019/110	Reports Called for	
12	9/12/2019	TES/IE/SCP/PIL/2019/388	Kerb Laying	
13	9/14/2019	TES/IE/SCP/PIL/2019/389	Mix Design of DBM	
14	9/14/2019	TES/IE/SCP/PIL/2019/390	Proposal of Borrow Area No-16 (Ext-01)	
15	9/14/2019	TES/IE/SCP/PIL/2019/391	Concrete mix designs (M-40 & M-45 Pump)	
16	9/17/2019	TES/IE/SCP/PIL/2019/392	Prime Coat over WMM Surface	
17	9/20/2019	TES/IE/SCP/PIL/2019/392	Source approval for M/s Agarwal foundries Pvt Ltd	

15. Progress Photographs

Sl. No	Description	Location	Side	Remarks
1.	BOX CULVERT – WALL IN PROGRESS	100+822	LHS	
2.	BOX CULVERT - SLAB COMPLETED	104+706	BHS	



Sl. No	Description	Location	Side	Remarks
3.	MNB SLAB IN PROGRESS	109+088	BHS	
4.	MNB SLAB COMPLETED	74+605	BHS	



Sl. No	Description	Location	Side	Remarks
5.	VUP - ABUTMENT CAP COMPLETED	106+318	BHS	A1& A2 Side
6.	VUP - PILING IN PROGRESS	109+345	LHS	A2 Side



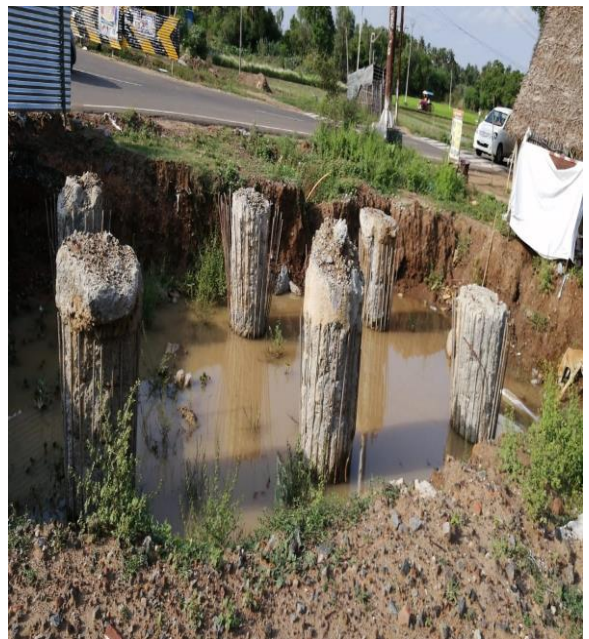
Sl. No	Description	Location	Side	Remarks
7.	VUP – PILE CAP COMPLETED	102+975	RHS	A1 & A2 Side
8.	VUP – ABUTMENT WALL COMPLETED	111+235	RHS	A2 Side



Sl. No	Description	Location	Side	Remarks
9.	GSI - ABUTMENT WALL IN PROGRESS	104+640	LHS	
10.	GSI - ABUTMENT WALL IN PROGRESS	104+640	RHS	



Sl. No	Description	Location	Side	Remarks
11.	GSI - ABUTMENT IN PROGRESS	69+785	RHS	
12.	GSI - PILE CHIPPING IN PROGRESS	110+110	LHS	



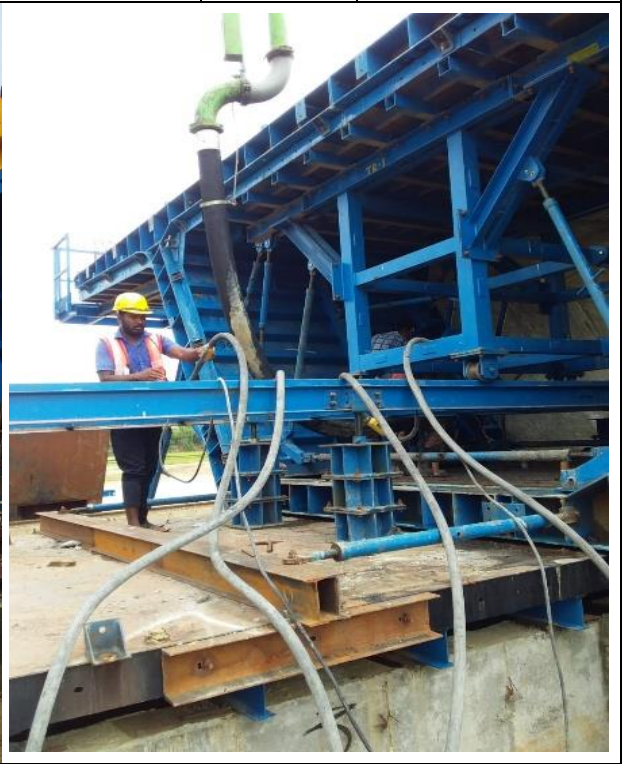
Sl. No	Description	Location	Side	Remarks
21	MJB - PILE WORK IN PROGRESS	66+491	LHS	P11 Side
22	MJB – SEGMENT CASTING IN PROGRESS	107+400	LHS	P1 Side



Sl. No	Description	Location	Side	Remarks
23	MJB - PILE CAP IN PROGRESS	107+400	RHS	
24	MJB - PIER - 06 PIER IN PROGRESS	107+400	RHS	



Sl. No	Description	Location	Side	Remarks
25	MJB - SEGMENT CASTING IN PROGRESS	107+400	-	



Sl. No	Description	Location	Side	Remarks
29	SUBGRADE IN PROGRESS	92+400 to 92+700	LHS	
30	EARTHWORK IN PROGRESS	94260 to 94+540	LHS	




Sl. No	Description	Location	Side	Remarks
31	SUBGRADE IN PROGRESS	105+300 to 105+500	RHS	
32	SUBGRADE IN PROGRESS	105+000 to 105+300	RHS	




Sl. No	Description	Location	Side	Remarks
33	DBM LAYING COMPLETED	89+700	LHS	
34	DBM LAYING IN PROGRESS	93+700 to 94+440	LHS	
				
Sl. No	Description	Location	Side	Remarks
35	KERB LAYING IN PROGRESS	93+790	RHS	
36	DBM IN PROGRESS	83+200		
				

Sl. No	Description	Location	Side	Remarks
37	DRAIN WALL COMPLETED	82+440 TO 82+640	RHS	
38	DRAIN WALL COMPLETED	82+240 TO 82+340	RHS	



Sl. No	Description	Location	Side	Remarks
39	DRAIN-RAFT COMPLETED	76+900	RHS	
40	RE WALL IN PROGRESS	74+400	BHS	

