

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

Four Laning of Sethiyahopu-Cholopuram from Km. 65.960 to Km. 116.440 of NH-45C under NHDP-IV on Hybrid Annuity Mode Basis.

PATEL SETHIYAHOPU-CHOLOPURAM HIGHWAY PRIVATE LIMITED



MONTHLY PROGRESS REPORT

NOVEMBER 2021

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Executive Summary

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

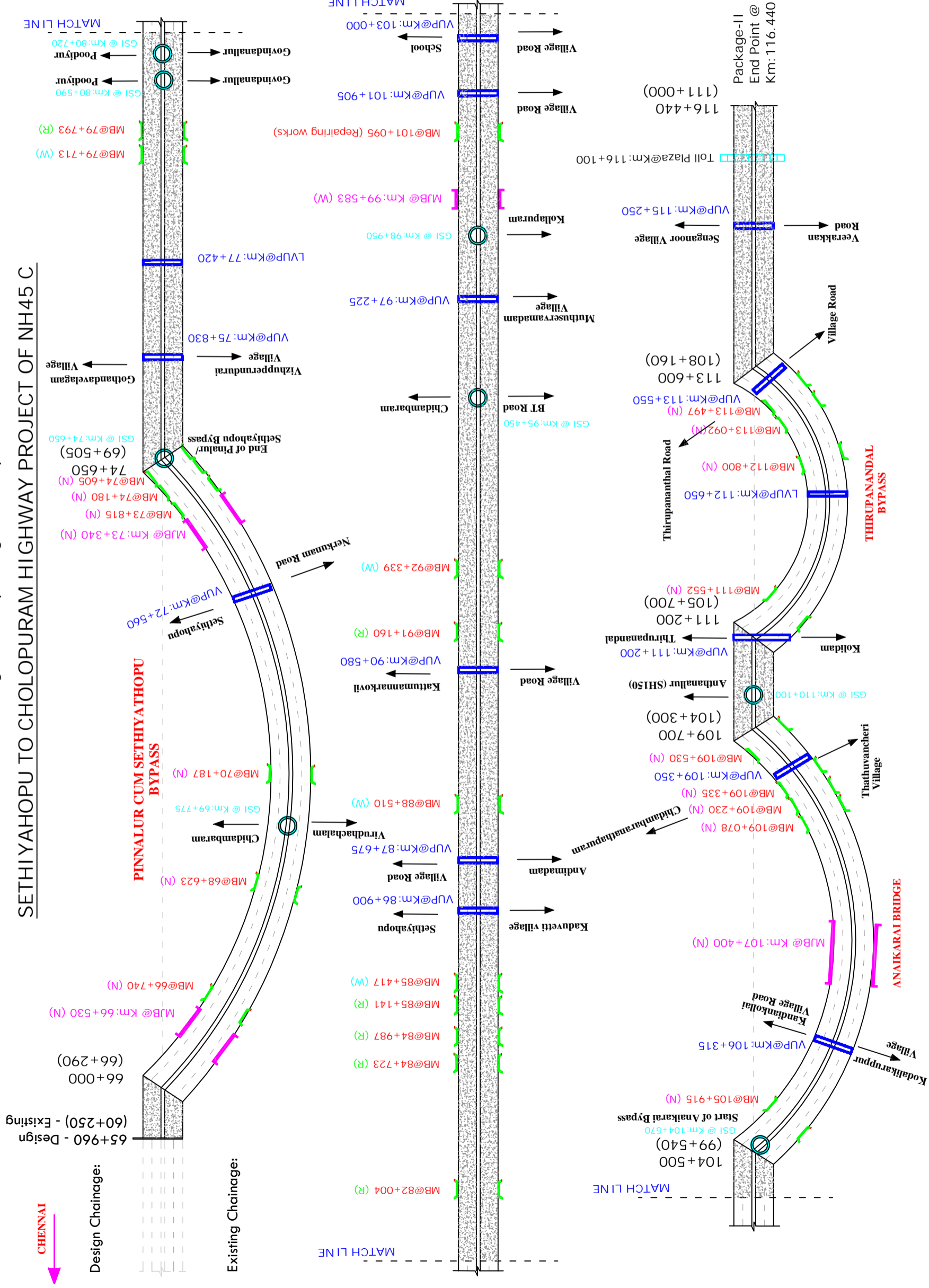
The Sethiyahopu to Cholopuram section of NH-45C is an important link to connect Metropolitan city of Chennai to religious and tourist places of Cholopuram, Thanjavur, kumbakonam, Puducherry. The project is also expected to provide improved connectivity to other religious places & other major cities like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

Project Synopsis

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

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

Figure 2: Project Alignment Map
 SETHIYAHOPU TO CHOLOPURAM HIGHWAY PROJECT OF NH45 C



THANJAVUR

CHENNAI

MATCH LINE

MATCH LINE

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

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

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

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

Anaikarai Bypass
 Km: 104+500 to 109+700

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

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

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

Thirupananthal Bypass
 Km: 111+200 to 113+600

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

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

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

LEGEND:

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

Salient Features of Project:

SI No	Description	Unit	Scope
1.	Total Length of Project	Km	50.480
2.	Length of Widening Portion	Km	34.230
3.	Length of Bypass	Km	16.250
4.	Length of service/Slip Road	Km	27.100
5.	Culverts	Nos.	53
6.	Slab Culvert	Nos.	07
7.	Minor Bridge	Nos.	25
8.	Major Bridge	Nos.	04
9.	VUP/LVUP	Nos.	15
10.	Grade Separated Structure	Nos.	08
11.	Minor Intersection	Nos.	07
12.	Major Intersection	Nos.	09
13.	Bus Bays and Shelters	Nos.	01

Drawing Title

Strip Plan - Sethiyathopu to Cholapuram Highway Project

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

Figure 1: Project Location Map

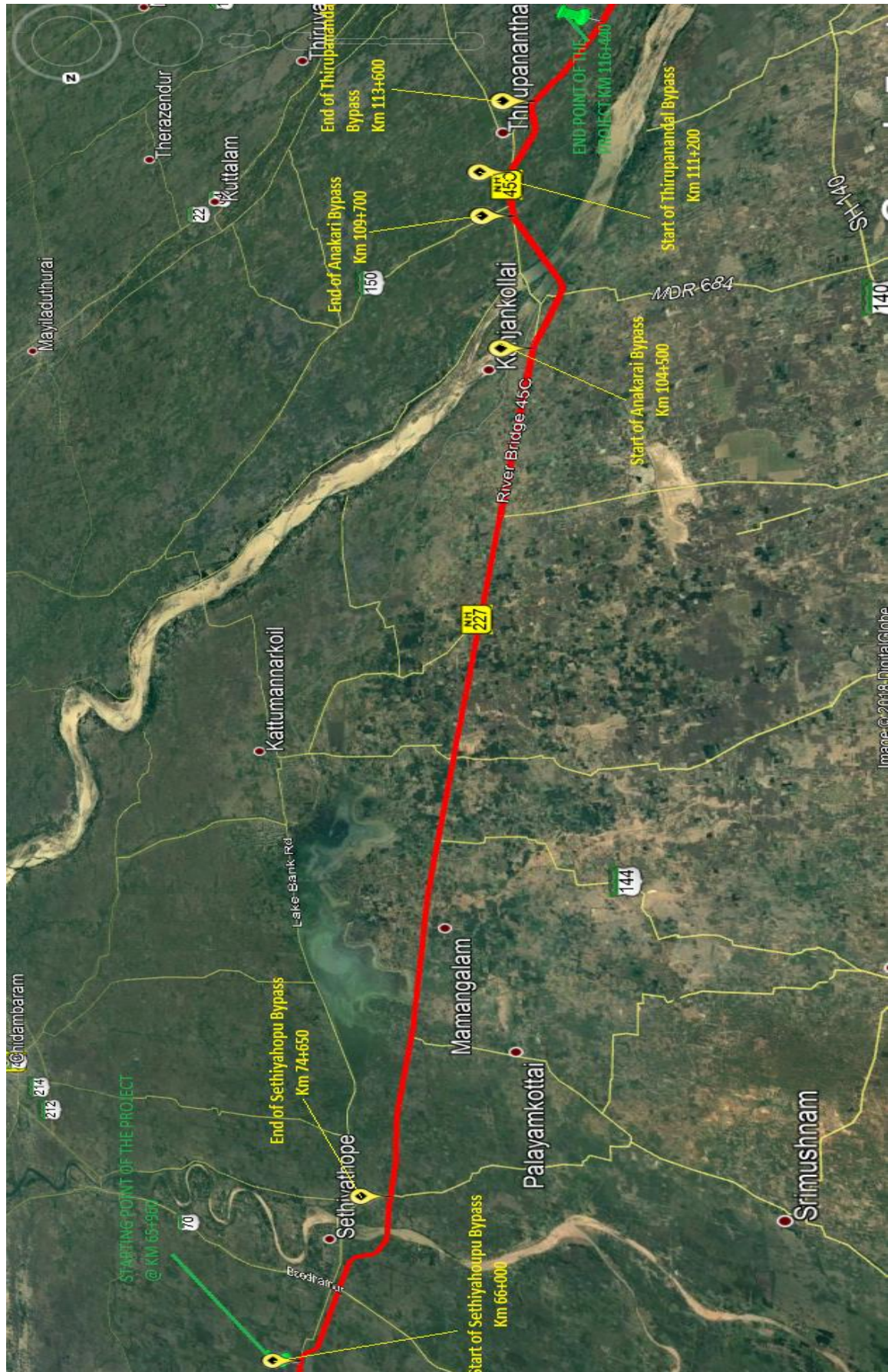


Table - 1.1: Details of Project Alignments

Existing and Proposed Alignments							
Sl. no.	Existing Chainage (Km)		Design Chainage (Km)		LENGTH (Km)	TCS Type	Remarks
	From	To	From	To			
1	60.250	Bypass	65.960	69.460	3.500	Type-A-3 (Fig 2.4 of the manual)	Bypass
2	Bypass	Bypass	69.460	70.090	0.630	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
3	Bypass	Bypass	70.090	72.350	2.260	Type-A-3 (Fig 2.4 of the manual)	Bypass
4	Bypass	Bypass	72.350	72.775	0.425	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
5	Bypass	Bypass	72.775	74.335	1.560	Type-A-3 (Fig 2.4 of the manual)	Bypass
6	Bypass	69.820	74.335	74.960	0.625	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
7	69.820	70.375	74.960	75.520	0.560	Type-A-3 (Fig 2.4 of the manual)	Eccentric Widening
8	70.375	71.010	75.520	76.150	0.630	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
9	71.010	71.855	76.150	76.900	0.750	Type-B (Fig 2.6 of the manual) with both side service road	Eccentric Widening
10	71.855	72.170	76.900	77.220	0.320	Type-B (Fig 2.6 of the manual) with both side service road	Concentric Widening
11	72.170	72.570	77.220	77.620	0.400	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
12	72.570	72.800	77.620	77.850	0.230	Type-B (Fig 2.6 of the manual) with both side service road	Concentric Widening
13	72.800	73.230	77.850	78.300	0.450	Type-B (Fig 2.6 of the manual) with both side service road	Eccentric Widening
14	73.230	75.105	78.300	80.150	1.850	Type-A-3 (Fig 2.4 of the manual)	Eccentric Widening
15	75.105	76.080	80.150	81.120	0.970	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
16	76.080	76.460	81.120	81.500	0.380	TCS-1	Concentric Widening

17	76.460	77.000	81.500	82.240	0.740	Type-A-3 (Fig 2.4 of the manual)	Eccentric Widening
18	77.000	78.115	82.240	83.150	0.910	Type-B (Fig 2.6 of the manual) with both side service road	Eccentric Widening
19	78.115	79.110	83.150	84.150	1.000	Type-B (Fig 2.6 of the manual) with both side service road	Concentric Widening
20	79.110	79.510	84.150	84.550	0.400	Type-B (Fig 2.6 of the manual) with both side service road	Eccentric Widening
21	79.510	80.610	84.550	85.650	1.100	Type-A-3 (Fig 2.4 of the manual)	Eccentric Widening
22	80.610	81.555	85.650	86.580	0.930	Type-B (Fig 2.6 of the manual) with both side service road	Concentric Widening
23	81.555	82.170	86.580	87.210	0.630	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
24	82.170	82.320	87.210	87.360	0.150	Type-B (Fig 2.6 of the manual) with both side service road	Concentric Widening
25	82.320	82.910	87.360	87.990	0.630	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
26	82.910	83.180	87.990	88.265	0.275	Type-B (Fig 2.6 of the manual) with both side service road	Concentric Widening
27	83.180	83.660	88.265	88.745	0.480	Type-A-3 (Fig 2.4 of the manual)	Eccentric Widening
28	83.660	85.220	88.745	90.265	1.520	Type-B (Fig 2.6 of the manual) with both side service road	Concentric Widening
29	85.220	85.850	90.265	90.895	0.630	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
30	85.850	86.555	90.895	91.600	0.705	Type-A-3 (Fig 2.4 of the manual)	Eccentric Widening
31	86.555	87.015	91.600	92.050	0.450	TCS-1	Concentric Widening
32	87.015	87.525	92.050	92.560	0.510	Type-A-3 (Fig 2.4 of the manual)	Eccentric Widening
33	87.525	90.000	92.560	95.035	2.475	Type-B (Fig 2.6 of the manual) with both side service road	Concentric Widening
34	90.000	90.830	95.035	95.865	0.830	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
35	90.830	91.350	95.865	96.400	0.535	Type-B (Fig 2.6 of the manual) with both side service road	Concentric Widening

36	91.350	91.970	96.400	96.910	0.510	TCS-1	Concentric Widening
37	91.970	92.460	96.910	97.535	0.625	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
38	92.460	93.550	97.535	98.535	1.000	TCS-1	Concentric Widening
39	93.550	94.370	98.535	99.335	0.800	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
39A	94.370	94.875	99.335	99.840	0.505	Type-A-3 (Fig 2.4 of the manual)	Eccentric Widening
40	94.875	95.350	99.840	100.300	0.460	Type-B (Fig 2.6 of the manual) with both side service road	
41	95.350	96.630	100.300	101.590	1.290	Type-A-3 (Fig 2.4 of the manual)	Eccentric Widening
42	96.630	97.260	101.590	102.225	0.635	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
43	97.260	97.720	102.225	102.685	0.460	Type-B (Fig 2.6 of the manual) with both side service road	Eccentric Widening
44	97.720	98.360	102.685	103.315	0.630	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
45	98.360	99.190	103.315	104.160	0.845	Type-B (Fig 2.6 of the manual) with both side service road	Eccentric Widening
46	99.190	Bypass	104.160	104.990	0.830	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
47	Bypass	Bypass	104.990	106.000	1.010	Type-A-3 (Fig 2.4 of the manual)	Bypass
48	Bypass	Bypass	106.000	106.625	0.625	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
49	Bypass	Bypass	106.625	109.035	2.410	Type-A-3 (Fig 2.4 of the manual)	Bypass
50	Bypass	104.260	109.035	109.660	0.625	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
51	104.260	105.015	109.660	110.515	0.855	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
52	105.015	105.390	110.515	110.890	0.375	Type-B (Fig 2.6 of the manual) with both side service road	Eccentric Widening

53	105.390	Bypass	110.890	111.515	0.625	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
54	Bypass	Bypass	111.515	112.430	0.915	Type-A-3 (Fig 2.4 of the manual)	Bypass
55	Bypass	Bypass	112.430	112.840	0.410	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
56	Bypass	Bypass	112.840	113.225	0.385	Type-A-3 (Fig 2.4 of the manual)	Bypass
57	Bypass	108.410	113.225	113.850	0.625	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
58	108.410	109.395	113.850	114.835	0.985	Type-A-3 (Fig 2.4 of the manual)	Eccentric Widening
59	109.395	110.220	114.835	115.660	0.825	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
60	110.220	111.000	115.660	116.440	0.780	Type-A-3 (Fig 2.4 of the manual)	Eccentric Widening

1. Background and Project Details

1.1. Project Overview

Name of Work	Four Laning of Sethiyahopu-Cholopuram from Km. 65.960 to Km.116.440 of NH-45C under NHDP-IV on Hybrid Annuity Mode Basis.
Name of Employer	National Highways Authority of India (NHAI) G-5 & 6, Sector-10, Dwarka, New Delhi -110075
Name of Concessionaire	Patel Sethiyahopu – Cholopuram Highway Pvt Ltd, Patel House, Beside Prakruti Resorts, Channi Road, Vadodara. Gujarat– 391740 Tel: +91-265 277 6678 Fax: +91-265 277 7878
Independent Engineer	M/s. Theme Engineering Services Pvt. Ltd, S.F B1&B2, gateway Apartments, koranattu Karuppur, Kumbakonam – 612501.
EPC Contractor	M/s. Patel Infrastructure Limited, Patel House, Beside Prakruti Resorts, Channi Road,Vadodara Gujarat– 391740, Tel: +91-265 277 6678 Fax: +91-265 277 7878
Design Consultant	CTL Global Services Pvt. Ltd. 101, 1st Floor, Krishna Chambers, HAL, Airport Road, Bangalore-560017
Senior Lender	Punjab National Bank, Large Corporate Branch, Neelkamal Building, Opp. Sales India, Ashram Road, Ahmedabad - 380009
Lenders Independent Engineers	Sharul Techno-Financial Consultancy Services Pvt. Ltd., 403, Aspire Tower 5, Amanora Park Town, Hadapsar, Pune - 411028.
Length of Road (Design Length)	50.480 Kms
Total Bid Cost	Rs. 1461.00 Crores (as per concession agreement)
Date of Concession Agreement	November 9, 2017

Concession Period	17 Years (Construction Period 2 Years from Appointed date, Operation period 15 years from COD)
Appointed Date	16.08.2018
Construction Period	2 years from Appointed date
Completion Date	15.08.2020
Maintenance Period	15 years from COD

1.2. Salient Project Features

Besides the construction of new carriageways and widening and strengthening of existing carriageways, the following table summaries the major elements of the project construction:

4 - Lane Divided Carriage Way	50.48 Km.
Service Road/ Slip Road	26.595 Km (Slip Road = 14.510 Kms & Service Road = 12.085 Kms)
Major Bridge	04 Nos.
Minor Bridge	25 Nos.
Grade Separate Intersection	08 Nos.
Vehicular Underpass	13 Nos.
Light Vehicular Underpass	2 Nos.
Culverts	60 Nos.
Major Intersections	07 Nos.
Minor Intersections	100 Nos.
Bus Bays	09 Nos.
Toll Plaza	01 Nos.

1.3. Contractual Project Milestones

Following is a listing of the Key Project Milestones:

Mile Stone	Description	Target Date
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

Note: The Settlement Agreement has been signed between Concessionaire and Authority on 04.03.2021 with the target of completion of 28.345 Kms length by 31.05.2021, and further completion of additional 7.595 Kms length by 30.11.2021 i.e. up to Payment Date of 1st Annuity. The non-workable length/non-handed over length is 14.54 Km as per joint site verification by Concessionaire, IE and NHAI. This 14.54 Km length shall be handed over to the Concessionaire by 31.05.2021 and shall be completed by 31.07.2022.

Status of PCOD Proposal:-

Sr. No.	Description	Target	Achieved as on date	Remarks
1	Completion of 28.345 Kms by 31.05.2021	55.00% (803.60 Cr.)	57.646%	
2	Completion of 35.940 Kms (i.e. 28.345 Kms + 7.595 Kms) by 30.11.2021	72.25% (1055.57 Crore)		
3	Completion of balance 14.540 Kms by 31.07.2022	27.75% (405.43 crore)		

1.4. Payment milestone during Construction Period

Payment Mile Stone	Eligibility Criteria	Payment Amount (Rs.)	Claimed Amount (Rs.)	Date of release of payment
Mile Stone-I	On Achievement of 10% of Physical Progress	116.88 Crs.	116.88 Crs.	04.10.2019
Mile Stone-II	On Achievement of 30% of Physical Progress	116.88 Crs.	116.88 Crs.	25.09.2020
Mile Stone-III	On Achievement of 50% of Physical Progress	116.88 Crs.		
Mile Stone-IV	On Achievement of 75% of Physical Progress	116.88 Crs.		
Mile Stone-V	On Achievement of 90% of Physical Progress	116.88 Crs.		

1.5. Permits & Approvals

Sr. No.	Details	Authority	Current Status	Remarks
1	Extraction of Boulders from Quarries	Dist. Mining Officer	Obtained	PIL (EPC Contractor) have executed an agreement with Mr. Thiru V. Sekar for supply of boulders that is having a valid license for extraction of boulders for the quarry at Padalur Village, Perambalur District.
2	Installation of Crusher	Village Panchayat Head	Obtained	
3	-----D O-----	Pollution Control Board	Obtained	
4	Use of Explosives	District Collector	Obtained	
5	Labour License	Labour Commissioner	Obtained	
6	Environmental Clearance		NA	
7	Trees Cutting Permission	Forest department through NHAI	Obtained	Work in Progress
8	Electric Poles Shifting	Tamil Nadu Electricity Board	Obtained	Work in Progress
9	Water Pipes Shifting	Tamilnadu Water Supply and Drainage Board	Obtained	Work in Progress
10	Drawing Water from river/ reservoir		NA	

2. Right of Way Status

2.1. Land Acquisition

As per the Schedule – A of Concession Agreement, the Proposed Right of Way (ROW) is of 45 & 60 meters as per table below.

	Design Chainage (Km)	Design Length (Km)	Width (m)	Remarks
Full Right of Way (full width)				
Stretch	65.960 to 75.150	9.190	60.00	Within 15 days of date of Agreement.
Stretch	75.150 to 82.380	7.230	45.00	
Stretch	82.380 to 83.080	0.700	60.00	
Stretch	83.080 to 84.050	0.970	45.00	
Stretch	84.050 to 86.440	2.390	60.00	
Stretch	86.440 to 87.660	1.220	52.50	
Stretch	87.660 to 91.730	4.070	45.00	
Stretch	91.730 to 93.730	2.000	52.50	
Stretch	93.730 to 95.900	2.170	45.00	
Stretch	95.900 to 99.700	3.800	60.00	
Stretch	99.700 to 104.500	4.800	30.00	
Stretch	104.500 to 109.700	5.200	60.00	
Stretch	109.700 to 110.980	1.280	30.00	
Stretch	110.980 to 113.700	2.720	60.00	
Stretch	113.700 to 116.440	2.740	30.00	
Total Length		50.480		

	Design Chainage (Km)	Design Length (Km)	Width (m)	Remarks
Stretch	099.700 to 104.500	4.800	15.00	Within 90(Ninety) days of the Appointed date
Stretch	109.700 to 110.980	1.280	15.00	
Stretch	113.700 to 116.400	2.740	15.00	

Besides this, the Authority has to acquire additional land at Toll plaza location, Bus bays, Turning radius at Major junctions.

Sl. No.	Description	Unit	Present Status	Remarks
A)	Total Length of the Project Highway	Km	50.48	
1	Use of Existing Road Portion	Km	34.23	
2	Proposed Bypass / Realignment portion	Km	16.25	
B)	Hindered Length			
1.	Hindrance towards existing building, payment pending, NOC from PWD/WRO, teak trees etc.,	Km	20.720	
2.	Hindrance due to Electrical Lines	Km	1.050	
3.	Hindrance due to Rural Water Supply lines	Km	19.500	
4.	Net Hindered Length (both Side)	Km	42.84	
C)	Total Project Length (both Side)	Km	100.96	
D)	% Hindered Length	%	42.43%	

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

The status of compensation disbursed is as below: -

Table 2.1-3: Compensation disbursement for land					
SL. No.	Name of the District	Total No. of Land cases	Amount paid (in Nos.)	Balance to be Paid (in Nos.)	Remarks
1	Cuddalore	710	613	97	
2	Ariyalur	355	310	45	
3	Thanjavur	102	98	4	
	Total in Nos.	1167	1021	146	
		Total in %	87.49%	12.51%	

Table 2.1-4 - Compensation disbursement for Structures					
Sl. No.	Name of the District	Total No. of structures	Amount paid (in Nos.)	Balance to be Paid (in Nos.)	Remarks
1	Cuddalore	383	333	50	
2	Ariyalur	461	433	28	
3	Thanjavur	148	96	52	
	Total in Nos.	992	862	130	
		Total in %	86.89%	13.11%	

• Details of Stretches Under Hindrance towards existing building, payment pending, NOC from PWD/WRO, teak trees etc.:

Sr. No	Chainage		Length (km)	Hindrance Length (Km)	Side	Reason	Non workable length as on 30.11.2021 (km)
	From	To					
1	65.960	66.260	0.300	0.300	BHS	Issue Cleared.	
2	70.900	71.400	0.500	0.500	BHS	Issue Cleared.	
3	72.350	72.775	0.425	0.425	BHS	Issue Cleared.	
4	73.100	74.335	1.235	1.235	BHS	Issue Cleared.	
5	75.520	76.150	0.630	0.630	BHS	Removal of Structures	0.630
6	77.050	77.220	0.170	0.085	LHS	Removal of Structures	0.085
7	80.100	81.150	1.050	1.050	BHS	Removal of Structures	1.050
8	82.050	82.150	0.100	0.100	BHS	Issue Cleared.	
9	83.400	84.280	0.880	0.880	BHS	Removal of Structures	0.880
10	85.800	86.200	0.400	0.400	BHS	Removal of Structures	0.400
11	86.400	86.560	0.160	0.160	BHS	Issue Cleared.	
12	87.360	87.990	0.630	0.630	BHS	Removal of Structures	0.630
13	90.265	90.895	0.630	0.630	BHS	Issue Cleared.	
14	95.035	95.865	0.830	0.830	BHS	Issue Cleared.	
15	98.500	99.400	0.900	0.900	BHS	Removal of Structures	0.900
16	104.990	106.000	1.010	1.010	BHS	Relocation of Toll Plaza from proposed location as per CA at Km 116+100 to Km 105+500. Policy circular vide letter dated 02.11.2018 was issued according to which minimum distance between Toll Plaza in the same stretch shall not be less than 60Km. As the Toll Plaza for Cholopuram-Thanjavur section has been proposed at Km 152+000 the distance between the toll plazas was 35.900 Km only. Considering the resistance of the public and the	1.010

						distance between the two toll plazas, alternate location was to be found out. Relocation of Toll Plaza proposals submitted to NHAI by RO Madurai on 13.10.2020.	
17	106.625	109.700	3.075	3.075	BHS	Pending Disbursement of Compensation	3.075
18	113.225	113.850	0.625	0.625	BHS	Pending Disbursement of Compensation	0.625
19	114.400	114.650	0.250	0.250	BHS	Pending Disbursement of Compensation	0.250
20	114.835	115.660	0.825	0.825	BHS	Removal of Structures	0.825
Total in Kms				14.540			10.360

The 10.36 Km. length is still under non-workable length out of 14.54 km. non-workable length as per Settlement Agreement executed on dated 04.03.2021.

2.2. Removal of Religious Structures

The following structures coming within the ROW are to be demolished

Sl No.	Name of the District	Total No. of structures	Removed as on Date (in Nos.)	Balance (in Nos.)
1	Cuddalore	10	3	7
2	Ariyalur	10	1	9
3	Thanjavur	2	2	0
	Total in Nos.	22	6	16

2.3. Shifting of Utilities and Electrical HT/LT Lines

To proceed with the project construction, several utilities are required to be shifted under the supervision of the respective authorities. These include a water supply line, hand pumps, overhead water tanks, besides Electrical lines, as shown in the table below.

Sr. No.	Name of the District	Chainages			Total Number of Estimates	Remarks
		From	To	Length in Km		
1	Cuddalore	65+960	86+440	20.48	25	Work in Progress
2	Ariyalur	86+440	106+860	20.42	46	
3	Thanjavur	106+860	116+440	9.58	4	

Sr. No	Name of the District	Chainages			Number of Estimates	Present Status	Remarks
		From	To	Length in Km			
1	Cuddalore	65+960	86+440	20.48	10	Estimate Approved	Supervision charges are paid and work in progress
2	Ariyalur	86+440	106+860	20.42	5	Estimate Approved	
3	Thanjavur	106+860	116+440	9.58	5	Estimate Approved	
4	Cuddalore& Thanjavur	Km:70+020, Km:73+470 and Km:113+720			3	Estimate Approved	Supervision Charges paid

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

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

Sl. No.	Authority	Description	Unit	Total Length/ Nos.	Work done	Balance	Remarks
1	BDO & EE, TWAD	Water Supply Pipe Line	Kms.	72.695	25.679	47.016	Work in progress
2	BDO of Concern Union	Hand Pump/Pump Room with Bore well	Nos.	24	16	8	
3	BDO of Concern Union	Over Head Tank	Nos.	15	13 Nos Completed	2	
4	TNEB	Electrical Lines	Kms.	6.83	5.78	1.05	

2.4. Tree felling

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

3. Progress Briefing – Contractor Activities

3.1. Pre-construction Activities

Detailed Design & Drawings

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

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

Sl No.	Description	Unit	Total Scope As per Sch. B	Design Submitted	Drawing Approved
1	Pavement Design	Km	50.48	50.48	50.48
2	Plan & Profile	Km	50.48	50.48	50.48
3	Typical Cross Sections	Type	7	7	7
4	Major Intersections	No	07	05	-
5	Minor Intersections	No	100	14	-
6	Toll Plaza (Typical Details)	No	01	01	-
7	Service Roads	No	26.595	26.595	26.595

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

Sr. No	Description	Unit	Total Scope As per Sch. B	Design Submitted	Drawing Approved
1	Major Bridges	No	04	04	04
2	Minor Bridges	No	25	25	25
3	Grade Separated Intersection	No	08	08	08
4	VUP/LVUP	No	15	15	15
5	Box /Slab Culvert	No	60	60	60

4. Physical Progress of Work

4.1. Physical Progress of Work:

The Progress of the Major works carried out at the Site in the Month of November 2021 is as follows.

CUMMULATIVE STATEMENT**For Main Carriageway**

Sr. No.	Description	Total Length of Highway Excluding Toll Plaza (in. Km.)	Progress up to Previous Month (in Km.)	Progress during this Month (in Km.)	Cumulative Progress Achieved up to this Month (in Km.)	Work in Progress (In Km.)	Balance Length to be Completed	Cumulative % of Progress Achieved
1	Clearing and Grubbing							
	LHS	47.28	40.620	0.000	40.620	0	6.660	85.91%
	RHS	47.28	39.530	0.000	39.530	0	7.750	83.61%
2	Embankment							
	LHS	47.28	31.360	0.240	31.600	1.100	15.680	66.84%
	RHS	47.28	31.040	0.060	31.100	1.300	16.180	65.78%
3	Subgrade							
	LHS	47.28	31.215	0.240	31.455	0.145	15.825	66.53%
	RHS	47.28	30.815	0.060	30.875	0.225	16.405	65.30%
4	GSB/ Cement Treated Base							
	LHS	47.28	29.025	0.570	29.595	0.100	17.685	62.60%
	RHS	47.28	28.855	0.840	29.695	0.110	17.585	62.81%
5	Wet Mix Macadam							
	LHS	47.28	28.775	0.155	28.930	0	18.350	61.19%
	RHS	47.28	28.315	0.615	28.930	0	18.350	61.19%
6	Dense Bitumen Macadam							
	LHS	47.28	27.595	0.210	27.805	0	19.475	58.81%
	RHS	47.28	27.355	0.180	27.535	0	19.745	58.24%
7	Bituminous Concrete							
	LHS	47.28	25.385	1.580	26.965	0	20.315	57.03%
	RHS	47.28	25.475	1.650	27.125	0	20.155	57.37%

For Service Road

Sr. No.	Description	Total Length of Service Road (in Km.)	Progress up to Previous Month (in Km.)	Progress during this Month (in Km.)	Cumulative Progress Achieved up to this Month (in Km.)	Work in Progress (in Km.)	Balance Length to be Completed	Cumulative % of Progress Achieved
1	Embankment	53.19	26.400	0.680	27.080	2.440	26.110	50.91%
2	Sub grade	53.19	23.450	0.840	24.290	2.790	28.900	45.67%
3	GSB/ Cement Treated Base	53.19	22.230	1.020	23.250	0.110	29.940	43.71%
4	Wet Mix Macadam	53.19	21.490	0.700	22.190	0	31.000	41.72%
5	Dense Bitumen Macadam	53.19	21.320	0.540	21.860	0	31.330	41.10%
6	Bituminous Concrete	53.19	16.400	0.000	16.400	0	36.790	30.83%

Structure Work

Sr. No.	Type of Structure	Total No. of Structures	Nos. of Structures		
			Completed	Work in Progress	Balance to be taken up
1	Culvert	60	44	11	5
2	Light Vehicular Underpass	2	1	0	1
3	Vehicular Underpass	13	7.50	5.50	0
4	Minor Bridges	25	21	4	0
5	Major Bridge	4	0	4	0
6	Flyover	8	5.50	1.50	1

The Physical Progress of the Project up to November 2021 as per Approved Schedule G is as follows:-

Component	Item Description	Unit	Planned in Scope (As per Scope of Work)	Cost Weightage in Component (%)	Progress till Date	% Physical Progress
1	2	3	4	5	6	7
Road works including culverts, minor bridges, underpasses, overpasses, approaches to ROB/RUB/ Major Bridges/ Structures (but excluding service roads)	A- Widening and strengthening of existing road					
	(1) Earthwork up to top of the sub-grade	Km	66.96	9.517%	43.890	6.238%
	(2) Granular work (sub-base, base, shoulders)					
	(a) GSB/ Cement Treated Base	Km	65.52	3.373%	43.470	2.238%
	(b) WMM/ Cement Treated Base	Km	65.52	4.046%	42.520	2.625%
	(3) Shoulders	Km	17.65	0.112%	14.595	0.093%
	(4) Bituminous work					
	(a) DBM	Km	65.52	3.344%	42.100	2.149%
	(b) BC	Km	65.52	3.023%	40.890	1.887%
	(5) Rigid Pavement					
	(6) Widening and repair of culverts	Nos.	16	0.440%	9.900	0.272%
	(7) Widening and repair of minor bridges	Nos.	4	0.959%	3.700	0.887%
	B- New realignment/bypass					
	(1) Earthwork up to top of the sub-grade	Km	28.68	6.437%	18.440	4.139%
	(2) Granular work (sub-base, base, shoulders)					
	(a) GSB/ Cement Treated Base	Km	28.68	1.615%	15.820	0.891%
	(b) WMM/ Cement Treated Base	Km	28.68	1.436%	15.340	0.768%
	(3) Shoulders	Km	24.63	0.112%	9.120	0.042%
	(4) Bituminous work					
	(a) DBM	Km	28.68	1.279%	13.240	0.590%
	(b) BC	Km	28.68	1.158%	13.200	0.533%
	(5) Rigid Pavement					
	C- New culverts, minor bridges, underpasses, overpasses on existing road, realignments, bypasses:					
	(1) Culverts	Nos.	44	2.070%	34.10	1.604%
	(2) Minor bridges					

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	(a) Foundation	Nos.	58	3.953%	52.00	3.544%
	(b) Substructure	Nos.	134	2.623%	101.00	1.977%
	(c) Superstructure (including crash barrier etc. complete)	Nos.	50	1.559%	35.15	1.096%
	(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%	46.00	2.115%
	(ii) Substructure	Nos.	60	0.751%	48.00	0.601%
	(iii) Superstructure (including crash barrier etc. complete)	Nos.	30	1.289%	17.00	0.730%
	(b) Overpass					
	(i) Foundation					
	(ii) Substructure					
	(iii) Superstructure (including crash barrier etc. complete)					
	(c) Flyover					
	(i) Foundation	Nos.	36	2.426%	28.00	1.887%
	(ii) Substructure	Nos.	36	0.470%	28.00	0.366%
	(iii) Superstructure (including crash barrier etc. complete)	Nos.	20	1.244%	14.00	0.871%
	(d) Foot over Bridge					
Major Bridge works and ROB/RUB	A- Widening and repairs of Major Bridges					
	(1) Foundation					
	(a) Open Foundation					
	(b) Pile Foundation/ Well Foundation					
	(2) Sub-structure					

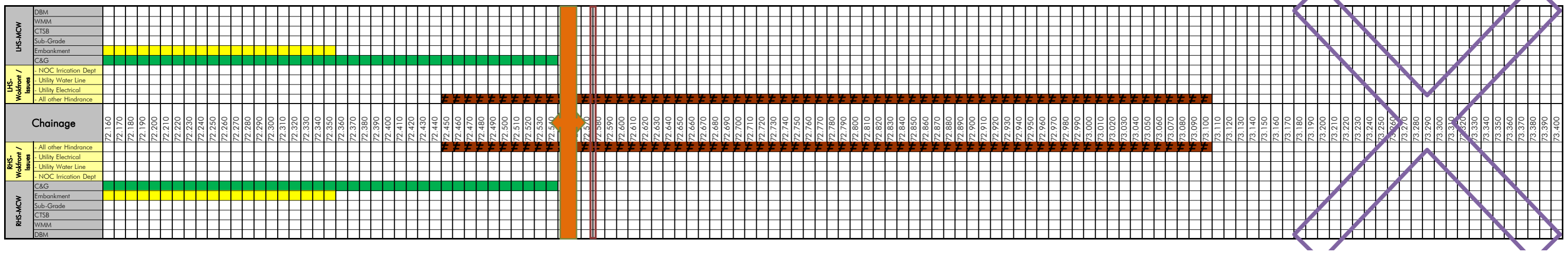
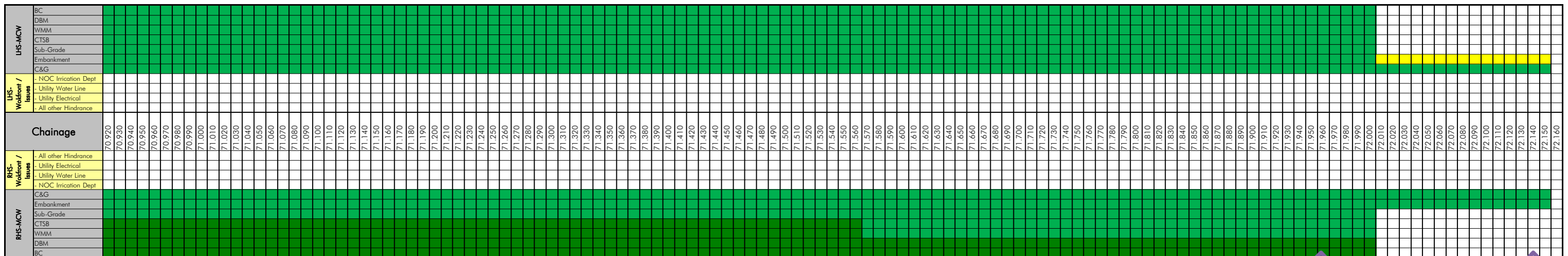
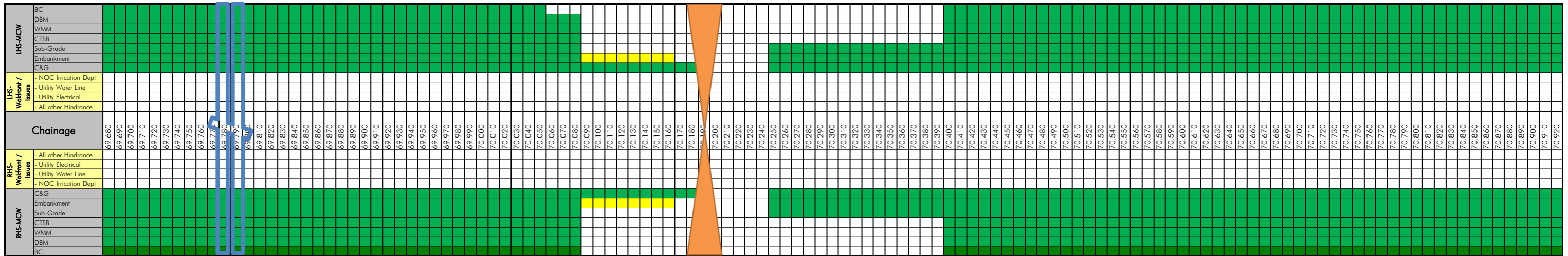
	(3) Super-structure (including crash barriers etc. complete)					
	C- New Major Bridges					
	(1) Foundation					
	(a) Open Foundation					
	(b) Pile Foundation/ Well Foundation					
	(i) Foundation	Nos.	84	9.699%	77.00	8.891%
	(2) Sub-structure	Nos.	84	4.576%	64.00	3.486%
	(3) Super-structure (including crash barriers etc. complete)					
	(i) For MJB at Km. 107+400					
	(a) Casting of Superstructure (Box Segment)	Nos.	666	1.450%	565.00	1.230%
	(b) Erection of Superstructure (Box Segment)	Nos.	666	1.050%	129.00	0.203%
	(i) For other Major Bridges					
	(a) Super-structure (including crash barriers etc. complete)	Nos.	37	2.500%	2.00	0.135%
	D- New rail-road bridges					
	(a) ROB					
	(1) Foundation	Nos.				
	(2) Sub-structure	Nos.				
	(3) Super-structure (including crash barriers etc. complete)	Nos.				
	(b) RUB					
	(1) Foundation	Nos.				
	(2) Sub-structure	Nos.				
	(3) Super-structure (including crash barriers etc. complete)	Nos.				
Structures (elevated sections, reinforced earth)	A- Elevated Structures					
	(1) Foundation	Nos.				
	(2) Sub-structure	Nos.				
	(3) Super-structure (including crash barriers etc.	Nos.				
	B- Reinforced earth Wall (includes Approaches of ROB, Underpasses, Overpasses, Flyover etc)	Sqm	196027	7.604%	64329.33	2.495%
Other Works	(i) Service roads/ Slip Roads	Km	53.19	4.690%	16.400	1.446%

(ii) Toll Plaza	Nos.	1	1.821%		
(iii) Road side drains	Km	28.85	5.429%	6.455	1.215%
(iv) Road signs, markings, km stones, safety devices,					
(a) Road signs, markings, km stones, ...	Km	100.96	2.558%	3.700	0.094%
(b) Concrete Crash Barrier/ W-Beam Crash Barrier in Road work					
(i) Concrete Crash Barrier	Km	26.5	1.179%	4.680	0.208%
(ii) W-Beam Crash Barrier	Km	10.03	0.788%		
(v) Project facilities					
(a) Bus Bays	No.	18	0.009%	2.000	0.001%
(b) Truck Lay-byes	No.				
(c) Rest areas	No.				
(vi) Repairs to bridges/structures	Nos.				
(vii) Road side plantation	Km	23.66	0.451%		
(viii) Protection works					
(a) Boulder pitching on slopes	Km	10.03	0.218%		
(b) Toe/Retaining wall	Km	10.03			
(x) Miscellaneous	Ls.	100%	0.164%	0.098%	0.098%
Total			100.00%		57.646%

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

Sethiyahopu - Cholopuram Road Projects

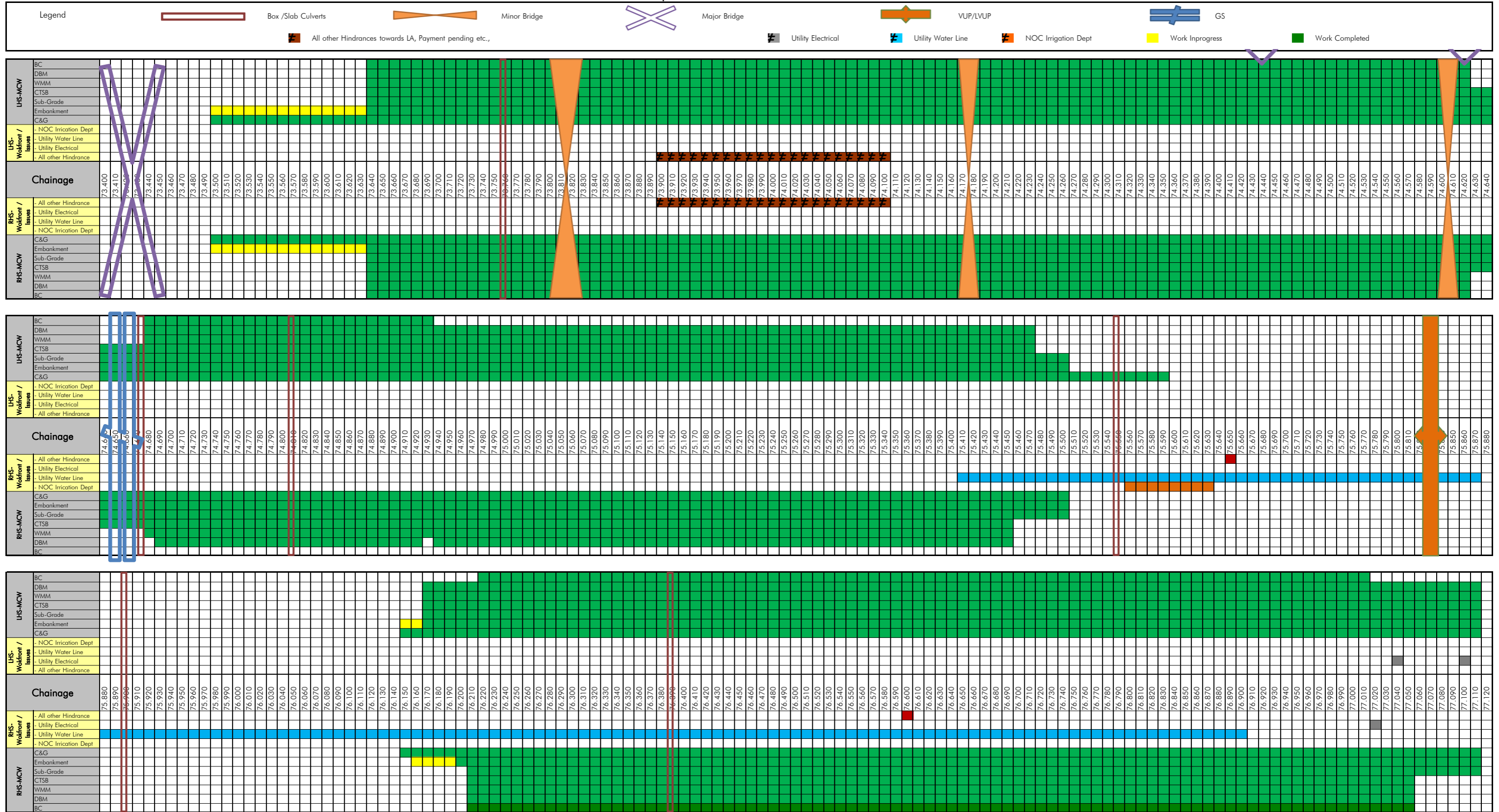
Strip Plan for MCW on 30.11.2021



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

Sethiyahopu - Cholopuram Road Projects

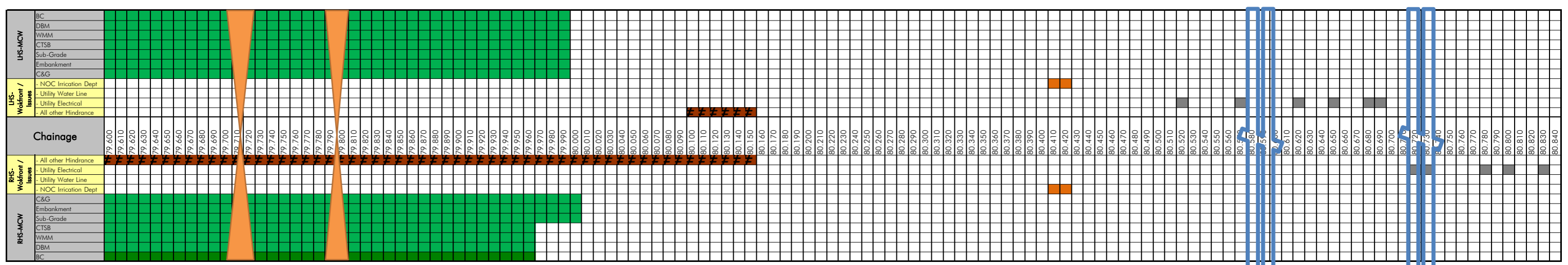
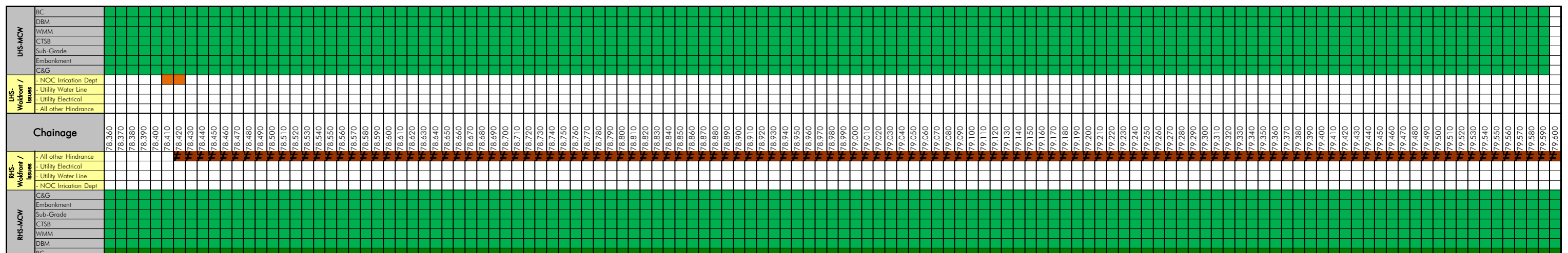
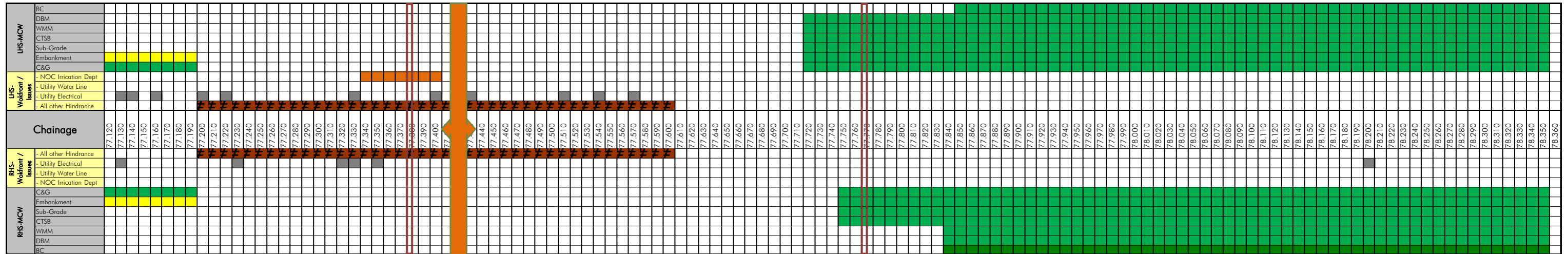
Strip Plan for MCW on 30.11.2021



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

Sethiyahopu - Cholopuram Road Projects

Strip Plan for MCW on 30.11.2021



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

Sethiyahopu - Cholopuram Road Projects

Strip Plan for MCW on 30.11.2021

Legend		Box /Slab Culverts		Minor Bridge		Major Bridge		VUP/LVUP		GS		
		All other Hindrances towards LA, Payment pending etc.,		Utility Electrical		Utility Water Line		NOC Irrigation Dept		Work Inprogress		Work Completed

LHS-MCW BC DBM WMM CTSB Sub-Grade Embankment C&G	LHS-Workfront / Issues - NOC Irrigation Dept - Utility Water Line - Utility Electrical - All other Hindrance	Chainage 80.840 80.850 80.860 80.870 80.880 80.890 80.900 80.910 80.920 80.930 80.940 80.950 80.960 80.970 80.980 80.990 81.000 81.010 81.020 81.030 81.040 81.050 81.060 81.070 81.080 81.090 81.100 81.110 81.120 81.130 81.140 81.150 81.160 81.170 81.180 81.190 81.200 81.210 81.220 81.230 81.240 81.250 81.260 81.270 81.280 81.290 81.300 81.310 81.320 81.330 81.340 81.350 81.360 81.370 81.380 81.390 81.400 81.410 81.420 81.430 81.440 81.450 81.460 81.470 81.480 81.490 81.500 81.510 81.520 81.530 81.540 81.550 81.560 81.570 81.580 81.590 81.600 81.610 81.620 81.630 81.640 81.650 81.660 81.670 81.680 81.690 81.700 81.710 81.720 81.730 81.740 81.750 81.760 81.770 81.780 81.790 81.800 81.810 81.820 81.830 81.840 81.850 81.860 81.870 81.880 81.890 81.900 81.910 81.920 81.930 81.940 81.950 81.960 81.970 81.980 81.990 82.000 82.010 82.020 82.030 82.040 82.050 82.060 82.070 82.080	RHS-Workfront / Issues - All other Hindrance - Utility Electrical - Utility Water Line - NOC Irrigation Dept C&G Embankment Sub-Grade CTSB WMM DBM BC	RHS-MCW BC DBM WMM CTSB Sub-Grade Embankment C&G	

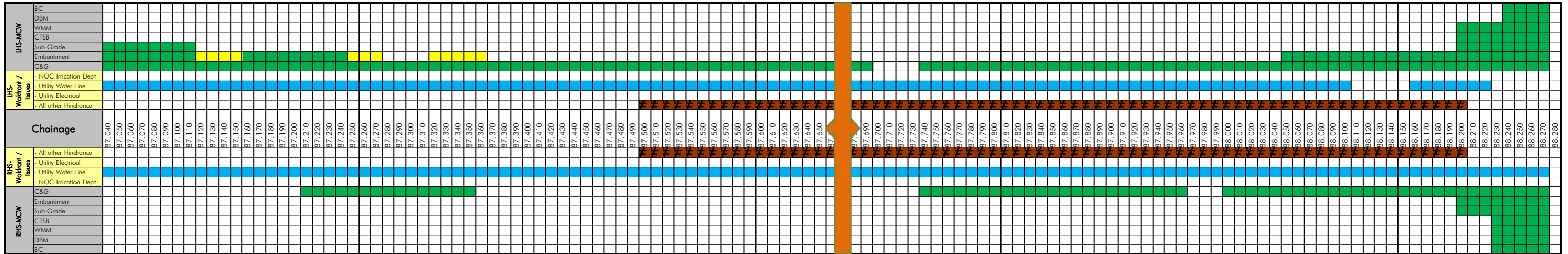
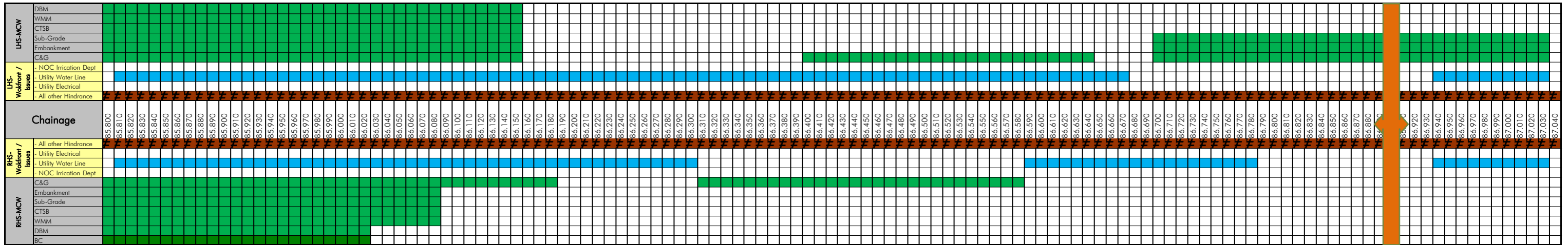
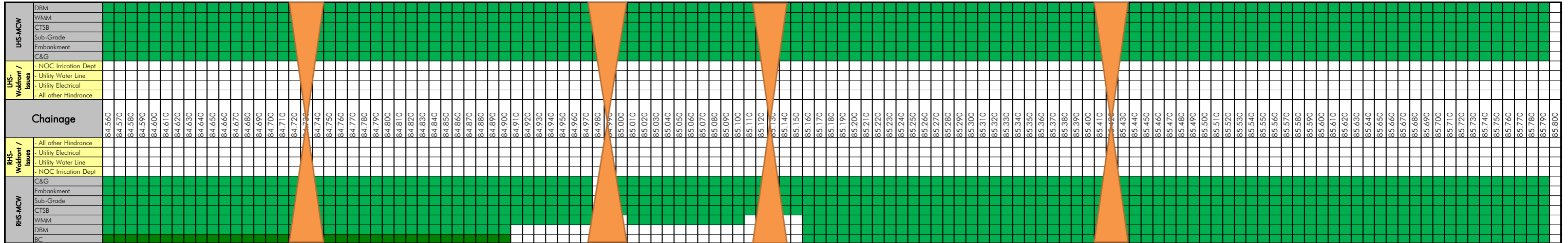
LHS-MCW BC DBM WMM CTSB Sub-Grade Embankment C&G	LHS-Workfront / Issues - NOC Irrigation Dept - Utility Water Line - Utility Electrical - All other Hindrance	Chainage 82.080 82.090 82.100 82.110 82.120 82.130 82.140 82.150 82.160 82.170 82.180 82.190 82.200 82.210 82.220 82.230 82.240 82.250 82.260 82.270 82.280 82.290 82.300 82.310 82.320 82.330 82.340 82.350 82.360 82.370 82.380 82.390 82.400 82.410 82.420 82.430 82.440 82.450 82.460 82.470 82.480 82.490 82.500 82.510 82.520 82.530 82.540 82.550 82.560 82.570 82.580 82.590 82.600 82.610 82.620 82.630 82.640 82.650 82.660 82.670 82.680 82.690 82.700 82.710 82.720 82.730 82.740 82.750 82.760 82.770 82.780 82.790 82.800 82.810 82.820 82.830 82.840 82.850 82.860 82.870 82.880 82.890 82.900 82.910 82.920 82.930 82.940 82.950 82.960 82.970 82.980 82.990 83.000 83.010 83.020 83.030 83.040 83.050 83.060 83.070 83.080 83.090 83.100 83.110 83.120 83.130 83.140 83.150 83.160 83.170 83.180 83.190 83.200 83.210 83.220 83.230 83.240 83.250 83.260 83.270 83.280 83.290 83.300 83.310 83.320	RHS-Workfront / Issues - All other Hindrance - Utility Electrical - Utility Water Line - NOC Irrigation Dept C&G Embankment Sub-Grade CTSB WMM DBM BC	RHS-MCW BC DBM WMM CTSB Sub-Grade Embankment C&G	

LHS-MCW BC DBM WMM CTSB Sub-Grade Embankment C&G	LHS-Workfront / Issues - NOC Irrigation Dept - Utility Water Line - Utility Electrical - All other Hindrance	Chainage 83.320 83.330 83.340 83.350 83.360 83.370 83.380 83.390 83.400 83.410 83.420 83.430 83.440 83.450 83.460 83.470 83.480 83.490 83.500 83.510 83.520 83.530 83.540 83.550 83.560 83.570 83.580 83.590 83.600 83.610 83.620 83.630 83.640 83.650 83.660 83.670 83.680 83.690 83.700 83.710 83.720 83.730 83.740 83.750 83.760 83.770 83.780 83.790 83.800 83.810 83.820 83.830 83.840 83.850 83.860 83.870 83.880 83.890 83.900 83.910 83.920 83.930 83.940 83.950 83.960 83.970 83.980 83.990 84.000 84.010 84.020 84.030 84.040 84.050 84.060 84.070 84.080 84.090 84.100 84.110 84.120 84.130 84.140 84.150 84.160 84.170 84.180 84.190 84.200 84.210 84.220 84.230 84.240 84.250 84.260 84.270 84.280 84.290 84.300 84.310 84.320 84.330 84.340 84.350 84.360 84.370 84.380 84.390 84.400 84.410 84.420 84.430 84.440 84.450 84.460 84.470 84.480 84.490 84.500 84.510 84.520 84.530 84.540 84.550	RHS-Workfront / Issues - All other Hindrance - Utility Electrical - Utility Water Line - NOC Irrigation Dept C&G Embankment Sub-Grade CTSB WMM DBM BC	RHS-MCW BC DBM WMM CTSB Sub-Grade Embankment C&G	

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

Sethiyahopu - Cholopuram Road Projects

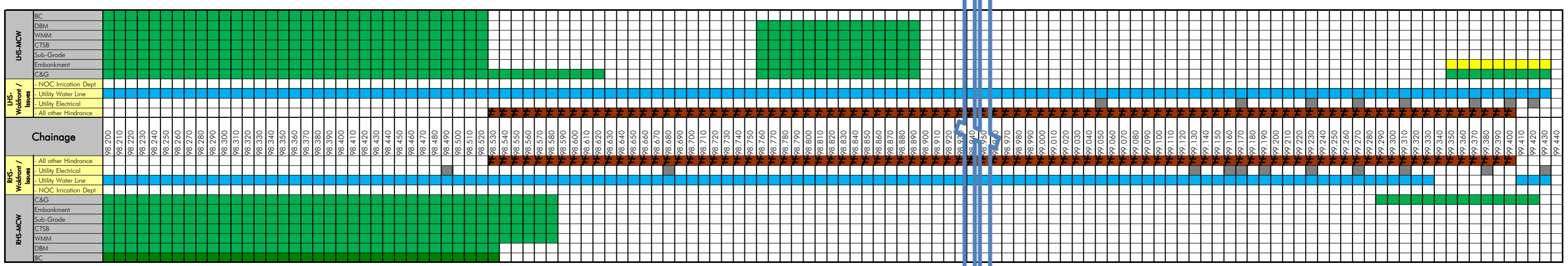
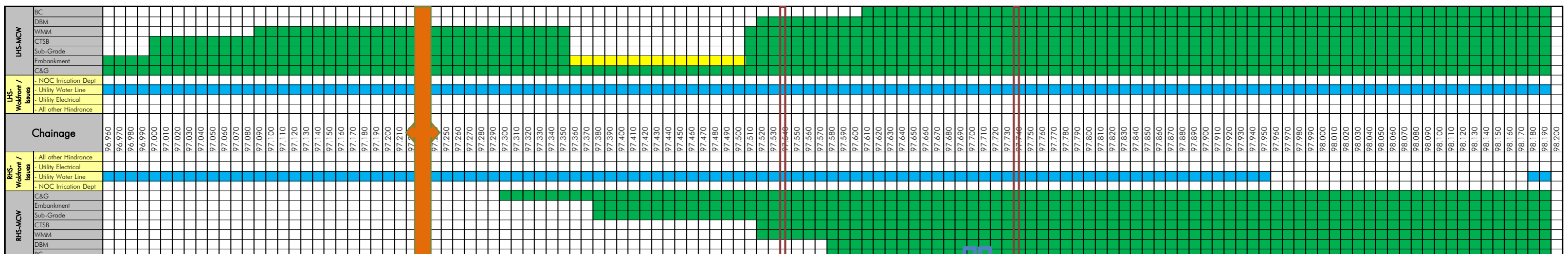
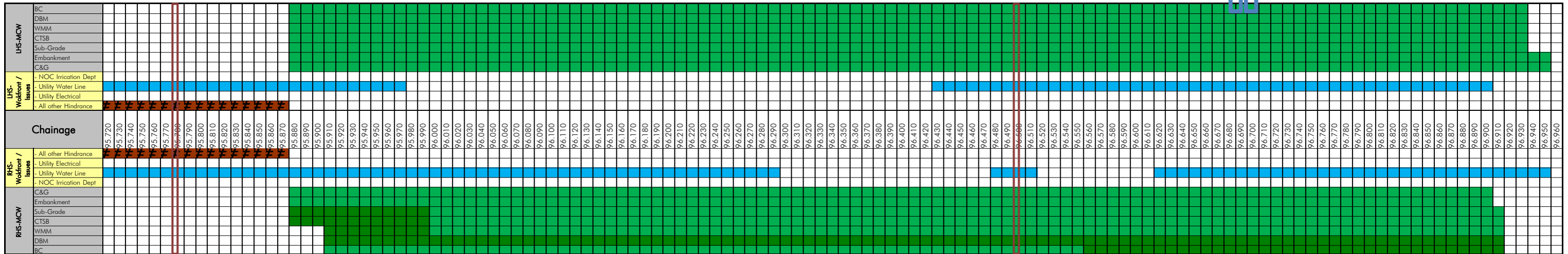
Strip Plan for MCW on 30.11.2021



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

Sethiyahopu - Cholopuram Road Projects

Strip Plan for MCW on 30.11.2021



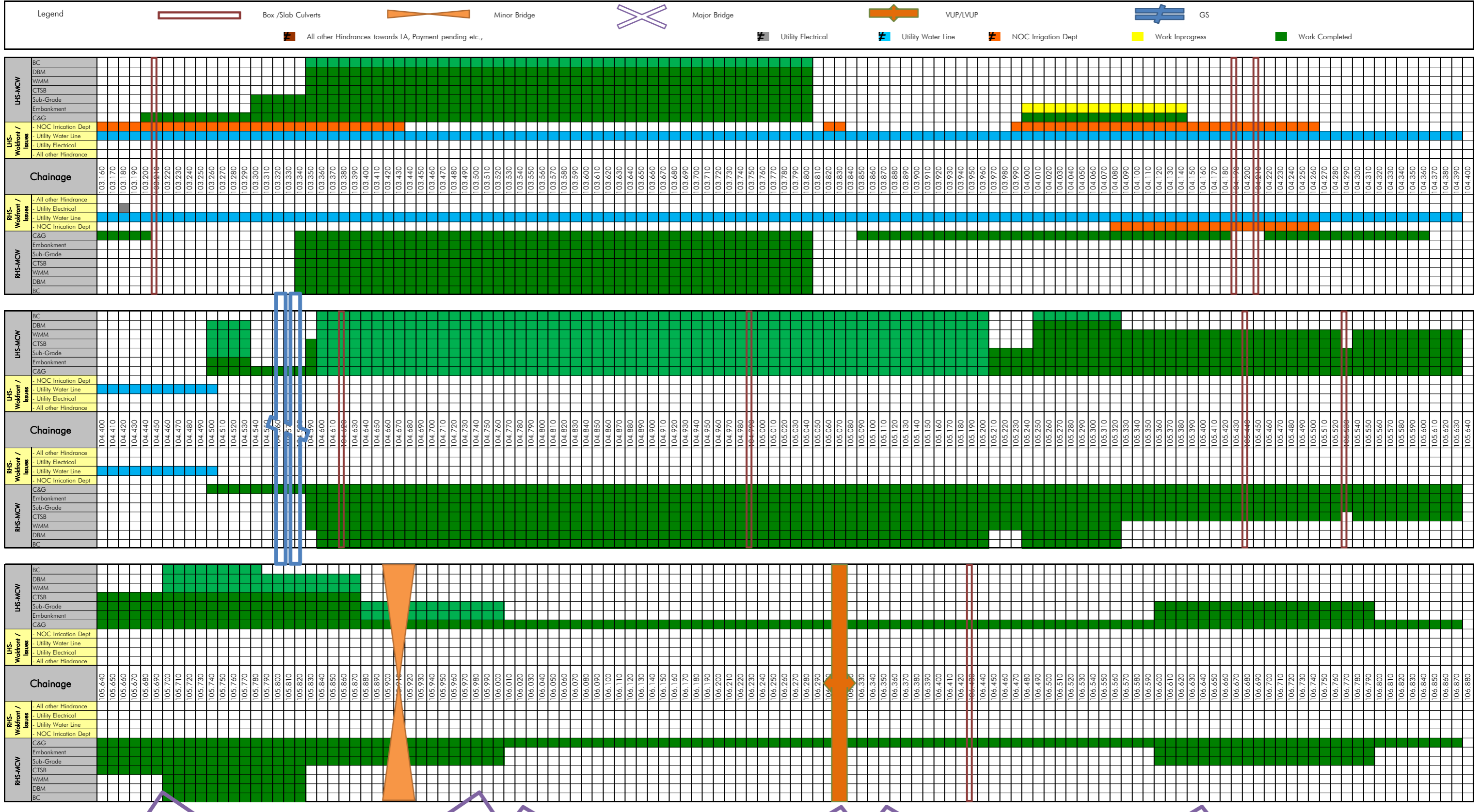
Four Laning of Sethiyahopu - Cholopuram from Km. 65.960 to Km. 116.440 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode
Sethiyahopu - Cholopuram Road Projects

Strip Plan for MCW on 30.11.2021



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

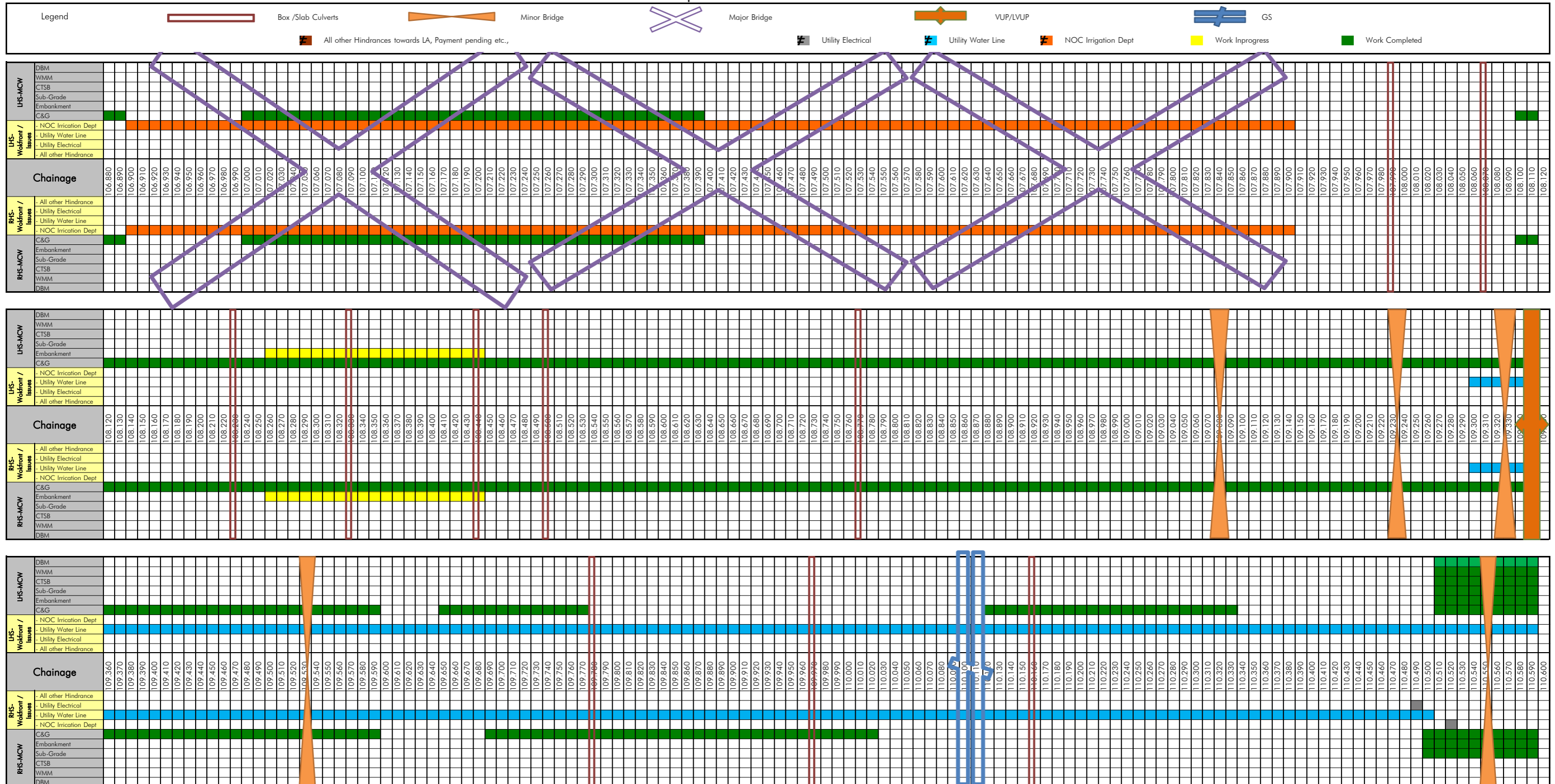
Strip Plan for MCW on 30.11.2021



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

Sethiyahopu - Cholopuram Road Projects

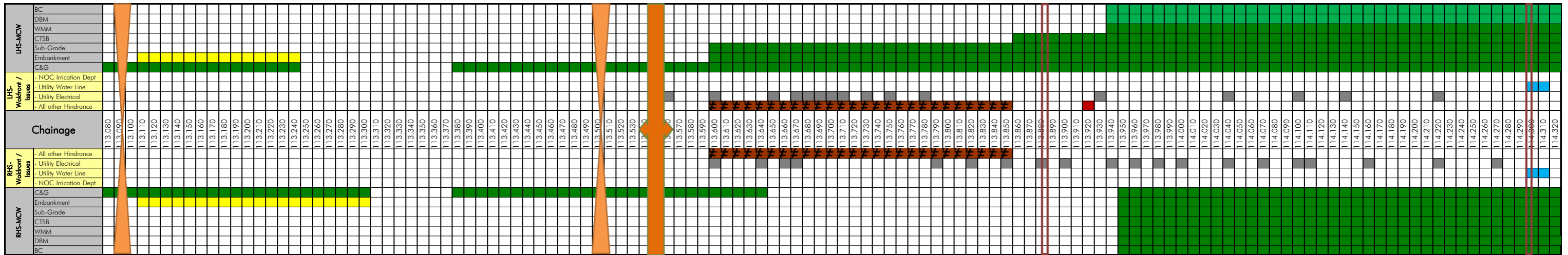
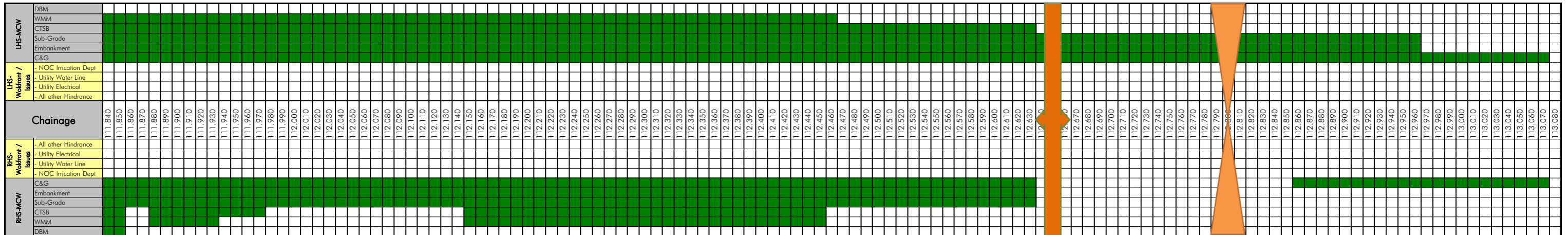
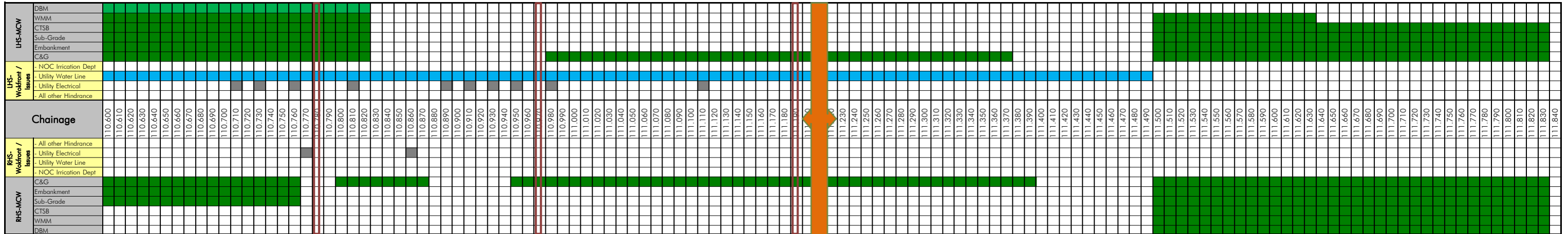
Strip Plan for MCW on 30.11.2021



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

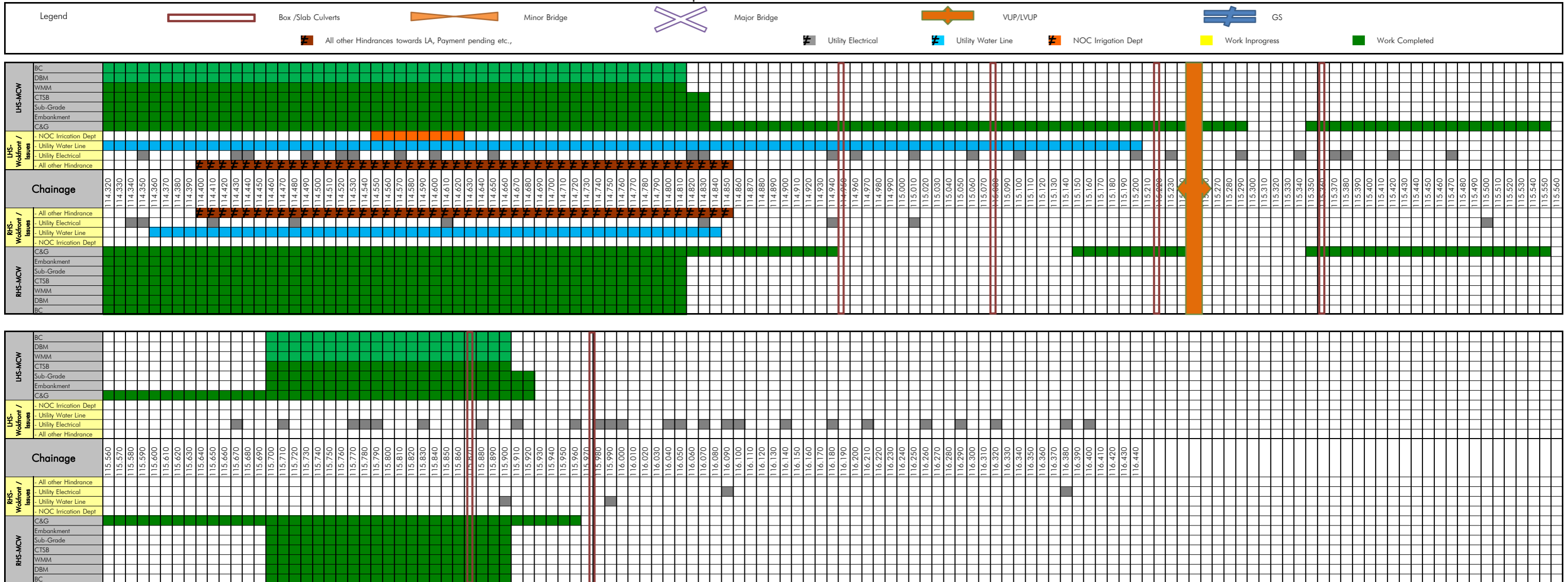
Sethiyahopu - Cholopuram Road Projects

Strip Plan for MCW on 30.11.2021



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

Strip Plan for MCW on 30.11.2021



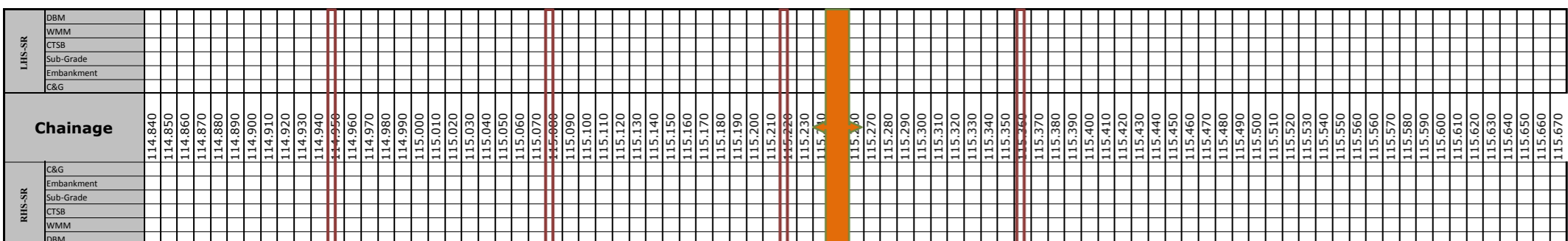
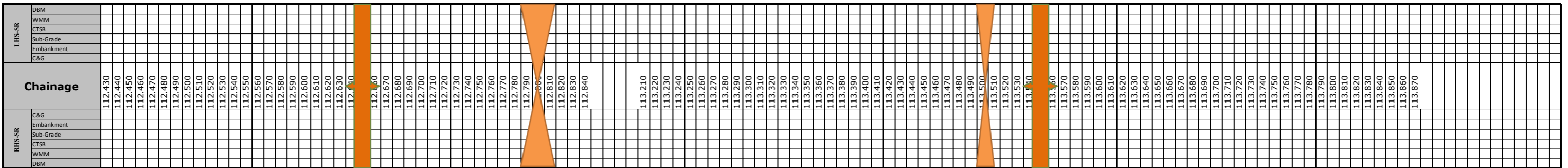
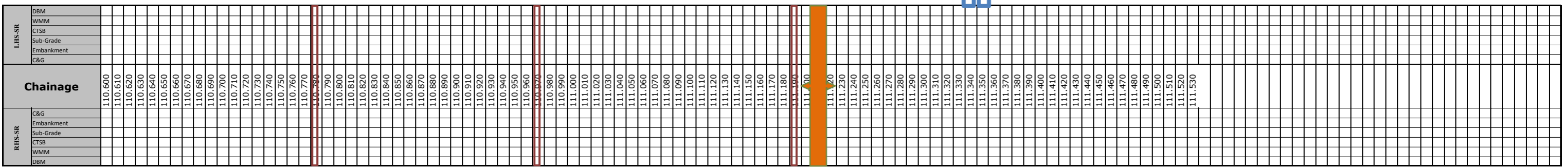
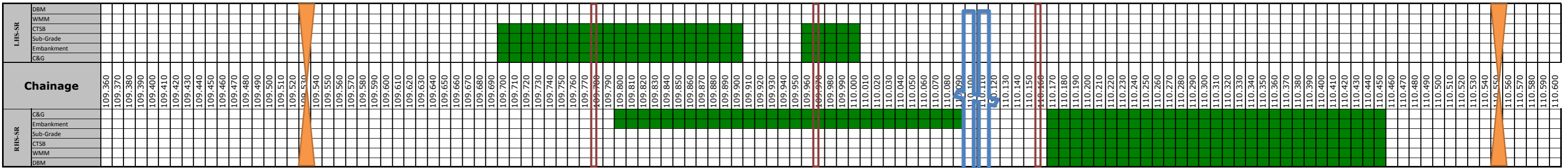
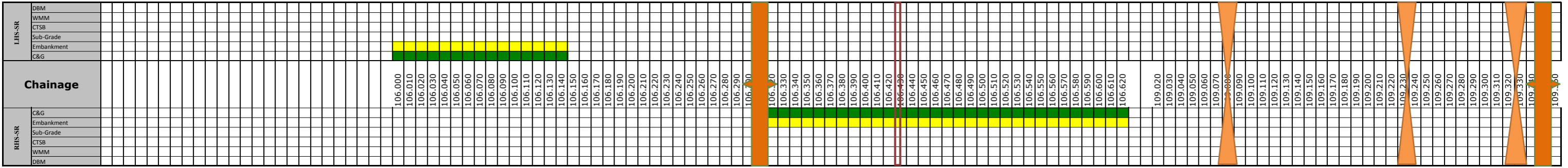
Four Laning of Sethiyahopu - Cholopuram from Km. 65.960 to Km. 116.440 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode

Sethiyahopu - Cholopuram Road Projects

Strip Plan for SR on 30.11.2021

Legend

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



SETHIAHOPU CHOLOPURAM PROJECT - STATUS OF BOX CULVERTS ON EXISTING ROAD - MCW							Completed							In Progress									
Status Upto	30.11.2021						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	Fly wing wall	Slab	Wall	Raft	PCC	Granular Filling	Excavation	Excavation	Granular Filling	PCC	Raft	Wall	Slab	Fly wing wall	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+767	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+402		EXISTING	1 x 1.5m		BOX CULVERT																	
34	110+795	110.785	EXISTING	1 x 1.2m x 2.0m	Repair & Widening	BOX CULVERT																	
35	110+980	110.971	EXISTING	1 x 1.5m x 2.0m	Repair & Reconstruction	BOX CULVERT																	
36	113+897	113.885	EXISTING	1 x 1.0m	Repair & Widening	BOX CULVERT																	
37	114+313	114.300	EXISTING	1 x 1.0m	Repair & Widening	BOX CULVERT																	
38	114+703	114.703	EXISTING			BOX CULVERT																	
39	114+954	114.952	EXISTING	1 x 1.0m	Repair & Reconstruction	BOX CULVERT																	
40	115+097	115.087	EXISTING	2 x 1.0m	Repair & Reconstruction	BOX CULVERT																	
41	115+232	115.221	EXISTING	1 x 2.0m x 2.0m	Repair & Reconstruction	BOX CULVERT																	
42	115+381	115.368	EXISTING	1 x 2.0m	Repair & Reconstruction	BOX CULVERT																	
43	115+884	115.872	EXISTING	2 x 1.0m	Repair & Widening	BOX CULVERT																	
44	115+978	115.978	EXISTING	1 x 2.0m x 2.0m	Repair & Widening	BOX CULVERT																	

SETHIYAHOPU CHOLOPURAM PROJECT - STATUS OF BOX CULVERTS ON EXISTING ROAD - SERVICE ROAD							Completed								In Progress								
Status Upto	30.11.2021						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	Fly wing wall	Slab	Wall	Raft	PCC	Granular Filling	Excavation	Excavation	Granular Filling	PCC	Raft	Wall	Slab	Fly wing wall	Protection Work	
1	74+675	74.670	EXISTING	1 x 3.0m x 2.0m	New Construction	BOX CULVERT																	
2	74+800	74.808	EXISTING	1 x 1.20m	Reconstruction	PIPE CULVERT																	
3	75+558	75.555	EXISTING	1x3.0m	Reconstruction	BOX CULVERT																	
4	75+902	75.897	EXISTING	1 x 2.0m x 2.0m	Reconstruction	BOX CULVERT																	
5	76+390	76.387	EXISTING	1 x 3.0m	Reconstruction	BOX CULVERT																	
6	77+382	77.379	EXISTING	1 x 4.0m	Reconstruction	BOX CULVERT																	
7	77+767	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+402		EXISTING	1 x 1.5m		BOX CULVERT																	
29	110+795	110.785	EXISTING	1 x 1.2m x 2.0m	Repair & Widening	BOX CULVERT																	
30	110+980	110.971	EXISTING	1 x 1.5m x 2.0m	Repair & Reconstruction	BOX CULVERT																	
31	113+897	113.885	EXISTING	1 x 1.0m	Repair & Widening	PIPE CULVERT																	
32	114+313	114.300	EXISTING	1 x 1.0m	Repair & Widening	PIPE CULVERT																	
33	114+954	114.952	EXISTING	1 x 1.0m	Repair & Reconstruction	PIPE CULVERT																	
34	115+097	115.087	EXISTING	2 x 1.0m	Repair & Reconstruction	PIPE CULVERT																	
35	115+232	115.221	EXISTING	1 x 2.0m x 2.0m	Repair & Reconstruction	BOX CULVERT																	
36	115+381	115.368	EXISTING	1 x 2.0m	Repair & Reconstruction	BOX CULVERT																	
37	115+884	115.872	EXISTING	2 x 1.0m	Repair & Widening	PIPE CULVERT																	
38	115+978	115.978	EXISTING	1 x 2.0m x 2.0m	Repair & Widening	BOX CULVERT																	

SETHIAHOPU CHOLOPURAM PROJECT - STATUS OF BOX CULVERTS ON BYPASS - MCW						Completed								In Progress								
Status Upto	30.11.2021					LHS								RHS								
Sr. No.	As Approved by IE	Design Chainage As per CA		Number and Length of Spans (m)	Type of Structure	Protection Work	Fly wing wall	Slab	Wall	Raft	PCC	Granular Filling	Excavation	Excavation	Granular Filling	PCC	Raft	Wall	Slab	Fly wing wall	Protection Work	
1	66+357	66.383	BYPASS	1 x 3.0m x 2.0m	BOX CULVERT																	
2	67+068	67.068	BYPASS	1 x 3.0m x 2.0m	BOX CULVERT																	
3	69+357	69.357	BYPASS	1 x 2.0m x 2.0m	BOX CULVERT																	
4	72+570	72.578	BYPASS	1 x 3.0m x 2.0m	BOX CULVERT																	
5	73+755	73.755	BYPASS	1x1.2.0mx2.0m	PIPE CULVERT																	
6	104+622	104.618	BYPASS	1 x 2.0m x 2.0m	BOX CULVERT																	
7	104+998	104.992	BYPASS	1 x 4.0m x 2.0m	BOX CULVERT																	
8	105+440	105.440	BYPASS	1 x 2.0m x 2.0m	BOX CULVERT																	
9	105+536	105.525	BYPASS	1 x 2.0m x 2.0m	BOX CULVERT																	
10	106+442	106.432	BYPASS	1 x 2.0m x 2.0m	BOX CULVERT																	
11	108+002	107.994	BYPASS	1 x 3.0m x 2.0m	BOX CULVERT																	
12	108+080	108.070	BYPASS	1 x 4.0m x 2.0m	BOX CULVERT																	
13	108+225	108.225	BYPASS	1 x 3.0m x 2.0m	BOX CULVERT																	
14	108+345	108.334	BYPASS	1 x 3.0m x 2.0m	BOX CULVERT																	
15	108+441	108.441	BYPASS	1 x 3.0m x 2.0m	BOX CULVERT																	
16	108+540	108.500	BYPASS	1 x 2.0m x 2.0m	BOX CULVERT																	
17	108+767	108.767	BYPASS	1 x 4.0m x 2.0m	BOX CULVERT																	
18	111+205	111.196	BYPASS	1 x 1.0m	PIPE CULVERT																	
19	113+372	113.372	BYPASS		BOX CULVERT																	

SETHIAHOPU CHOLOPURAM PROJECT - STATUS OF BOX CULVERTS ON BYPASS - SERVICE ROAD						Completed								In Progress								
Status Upto	30.11.2021					LHS								RHS								
Sr. No.	As Approved by IE	Design Chainage As per CA		Number and Length of Spans (m)	Type of Structure	Protection Work	Fly wing wall	Slab	Wall	Raft	PCC	Granular Filling	Excavation	Excavation	Granular Filling	PCC	Raft	Wall	Slab	Fly wing wall	Protection Work	
1	72+570	72.578	BYPASS	1 x 3.0m x 2.0m	BOX CULVERT																	
2	104+622	104.618	BYPASS	1 x 2.0m x 2.0m	BOX CULVERT																	
3	104+998	104.992	BYPASS	1 x 4.0m x 2.0m	BOX CULVERT																	
4	106+442	106.432	BYPASS	1 x 2.0m x 2.0m	BOX CULVERT																	
5	111+205	111.196	BYPASS	1 x 1.0m	PIPE CULVERT																	
6	113+372	113.372	BYPASS		BOX CULVERT																	

SETHIAHOPU CHOLOPURAM PROJECT - STATUS OF MNB-BOX - MCW						Completed	In Progress															
Status Upto	30.11.2021					LHS							RHS									
Sr. No.	As Approved by IE	Design Chainage As per CA	Number and Length of Spans (m)	Type of Structure		Protection Work	Retaining wall	Slab	Wall	Raft	PCC	Granular Filling	Excavation	Excavation	Granular Filling	PCC	Raft	Wall	Slab	Retaining wall	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									NA	NA	NA	NA	NA	NA	NA		
10	66+757	66.730	2 x 12.5m	MNBB	BYPASS																	
11	68+644	68.650	2 x 12.5m	MNBB	BYPASS																	
12	74+173	74.175	2 x 12.5m	MNBB	BYPASS																	
13	74+605	74.600	2 x 12.5m	MNBB	BYPASS																	
14	105+915	105.915	2 x 12.5m	MNBB	BYPASS																	
15	109+090	109.088	2 x 12.5m	MNBB	BYPASS																	
16	109+195	109.208	2 x 12.5m	MNBB	BYPASS																	
17	109+365	109.365	2 x 12.5m	MNBB	BYPASS																	
18	109+540	109.540	2 x 12.5m	MNBB	BYPASS																	
19	111+563	111.565	2 x 12.5m	MNBB	BYPASS																	
20	112+807	112.807	1 x 25m	MNBB	BYPASS																	
21	113+100	113.100	2 x 12.5m	MNBB	BYPASS																	
22	113+505	113.505	2 x 12.5m	MNBB	BYPASS																	

SETHIAHOPU CHOLOPURAM PROJECT - STATUS OF MNB-BOX - SERVICE ROAD						Completed							In Progress									
Status Upto	30.11.2021					LHS							RHS									
Sr. No.	As Approved by IE	Design Chainage As per CA	Number and Length of Spans (m)	Type of Structure		Protection Work	Retaining wall	Slab	Wall	Raft	PCC	Granular Filling	Excavation	Excavation	Granular Filling	PCC	Raft	Wall	Slab	Retaining wall	Protection Work	
1	74+605	74.600	2 x 12.5m	MNBB	BYPASS																	
2	105+915	105.915	2 x 12.5m	MNBB	BYPASS																	
3	109+090	109.088	2 x 12.5m	MNBB	BYPASS																	
4	109+195	109.208	2 x 12.5m	MNBB	BYPASS																	
5	109+365	109.365	2 x 12.5m	MNBB	BYPASS																	
6	109+540	109.540	2 x 12.5m	MNBB	BYPASS																	
7	111+563	111.565	2 x 12.5m	MNBB	BYPASS																	
8	112+807	112.807	1 x 25m	MNBB	BYPASS																	
9	113+100	113.100	2 x 12.5m	MNBB	BYPASS																	
10	113+505	113.505	2 x 12.5m	MNBB	BYPASS																	

SETHIAHOPU CHOLOPURAM PROJECT - STATUS OF LVUP					Completed	In Progress										
Status Upto	30.11.2021				LHS						RHS					
Sr. No.	As Approved by IE	Number and Length of Spans (m)	Type of Structure		Protection Work	Slab	Wall	Raft	PCC	Excavation	Excavation	PCC	Raft	Wall	Slab	Protection Work
1	77+420	1X10.5	LVUP	EXISTING												
2	112+643	1X10.5	LVUP	BYPASS												

SETHIYAHOPU CHOLOPURAM PROJECT - STATUS OF MNB (>15m Span)					Completed									In Progress											
Status upto	30.11.2021				LHS									RHS											
Sr. No.	MNB at Chainage	Span			Crash Barrier	Slab	Girder Launching	Girder Casting	Piercap /Abtcap	Pier/Abt	Open Foundation	PCC	Excavation	Excavation	PCC	Open Foundation	Pier/Abt	Piercap /Abtcap	Girder Casting	Girder Launching	Slab	Crash Barrier			
1	70+185	2 x 20	BYPASS	A1																					
				P1																					
				A2																					
2	73+815	1 x 15	BYPASS	A1																					
				A2																					
3	84+725	1 x 15	EXISTING	A1																					
				A2																					
4	84+987	2 x 15	EXISTING	A1																					
				P1																					
				A2																					

SETHIYAHOPU CHOLOPURAM PROJECT - STATUS OF MJB										Completed								
MJB at Chainage 66+530 (8x30) - BYPASS										In Progress								
Status Upto 30.11.2021	LHS/LSR									RHS/RSR								
	Crash Barrier	Slab	Girder Launching	Girder Casting Pier	Cap/Abt Can	Pier/Abt	Pile Cap	Pile		Pile	Pile Cap	Pier/Abt Pier	Cap/Abt Can	Girder Casting	Girder Launching	Slab	Crash Barrier	
A1																		
P1																		
P2																		
P3																		
P4																		
P5																		
P6																		
P7																		
A2																		
MJB at Chainage 73+340 (9x30) - BYPASS										Completed								
MJB at Chainage 73+340 (9x30) - BYPASS										In Progress								
Status Upto 30.11.2021	LHS/LSR									RHS/LSR								
	Crash Barrier	Slab	Girder Launching	Girder Casting Pier	Cap/Abt Can	Pier/Abt	Pile Cap	Pile		Pile	Pile Cap	Pier/Abt Pier	Cap/Abt Can	Girder Casting	Girder Launching	Slab	Crash Barrier	
A1																		
P1																		
P2																		
P3																		
P4																		
P5																		
P6																		
P7																		
P8																		
A2																		

MJB at Chainage 99+583 (3x25) - EXISTING ROAD										Completed		In Progress							
Status Upto 30.11.2021	LHS/LSR									RHS/LSR									
	Crash Barrier	Slab	Girder Launching	Girder Casting	Pier Cap/Abt	Can	Pier/Abt	Pile Cap	Pile	Pile	Pile Cap	Pier/Abt	Pier Cap/Abt	Can	Girder Casting	Girder Launching	Slab	Crash Barrier	
A1																			
P1										Existing Major Bridge need to be retained.									
P2																			
A2																			
MJB at Chainage 107+400 - BYPASS										Completed		In Progress							
Status Upto 30.11.2021	LHS/LSR									RHS/LSR									
	Crash Barrier	Slab	Girder Launching	Girder Casting	Pier Cap/Abt	Can	Pier/Abt	Pile Cap	Pile	Pile	Pile Cap	Pier/Abt	Pier Cap/Abt	Can	Girder Casting	Girder Launching	Slab	Crash Barrier	
A1																			
P1																			
P2																			
P3																			
P4																			
P5																			
P6																			
P7																			
P8																			
P9																			
P10																			
P11																			
P12																			
P13																			
P14																			
P15																			
P16																			
P17																			
P18																			
P19																			
A2																			

SETHIYAHOPU CHOLOPURAM PROJECT - STATUS OF FLYOVER					Completed									In Progress											
Status upto	30.11.2021				LHS									RHS											
Sr.No.	FO at Chainage	Span			Crash Barrier	Slab	Girder Launching	Girder Casting	Piercap /Abtcap	Abt Shaft	Pile Cap	PCC	Pile	Pile	PCC	Pile Cap	Abt Shaft	Piercap /Abtcap	Girder Casting	Girder Launching	Slab	Crash Barrier			
1	69+785	1x30	BYPASS	A1																					
				A2																					
2	74+655	1x30	BYPASS+EXISTING	A1																					
				A2																					
3	80+556	1x30	EXISTING	A1																					
				A2																					
4	80+720	1x30	EXISTING	A1																					
				A2																					
5	95+455	2x30	EXISTING	A1																					
				P1																					
				A2																					
6	98+950	2x30	EXISTING	A1																					
				P1																					
				A2																					
7	104+570	1x30	BYPASS	A1																					
				A2																					
8	110+110	1x30	EXISTING	A1																					
				A2																					

SETHIYAHOPU CHOLOPURAM PROJECT - STATUS OF VUP					Completed									In Progress									
Status upto	30.11.2021				LHS									RHS									
SR.NO.	VUP at Chainage	Span			Crash Barrier	Slab	Girder Launching	Girder Casting	Piercap /Abtcap	Abt Shaft	Pile Cap	PCC	Pile	Pile	PCC	Pile Cap	Abt Shaft	Piercap /Abtcap	Girder Casting	Girder Launching	Slab	Crash Barrier	
1	72+545	1x25	BYPASS	A1																			
				A2																			
2	75+830	1x25	EXISTING	A1																			
				A2																			
3	86+900	1x25	EXISTING	A1																			
				A2																			
4	87+670	1x25	EXISTING	A1																			
				A2																			
5	90+580	1x25	EXISTING	A1																			
				A2																			
6	97+225	1x25	EXISTING	A1																			
				A2																			
7	101+910	1x25	EXISTING	A1																			
				A2																			
8	102+975	1x25	EXISTING	A1																			
				A2																			
9	106+318	1x25	BYPASS	A1																			
				A2																			
10	109+350	1x25	BYPASS	A1																			
				A2																			
11	111+235	1x25	BYPASS+EXISTING	A1																			
				A2																			
12	113+550	1x25	BYPASS+EXISTING	A1																			
				A2																			
13	115+258	1x25	EXISTING	A1																			
				A2																			

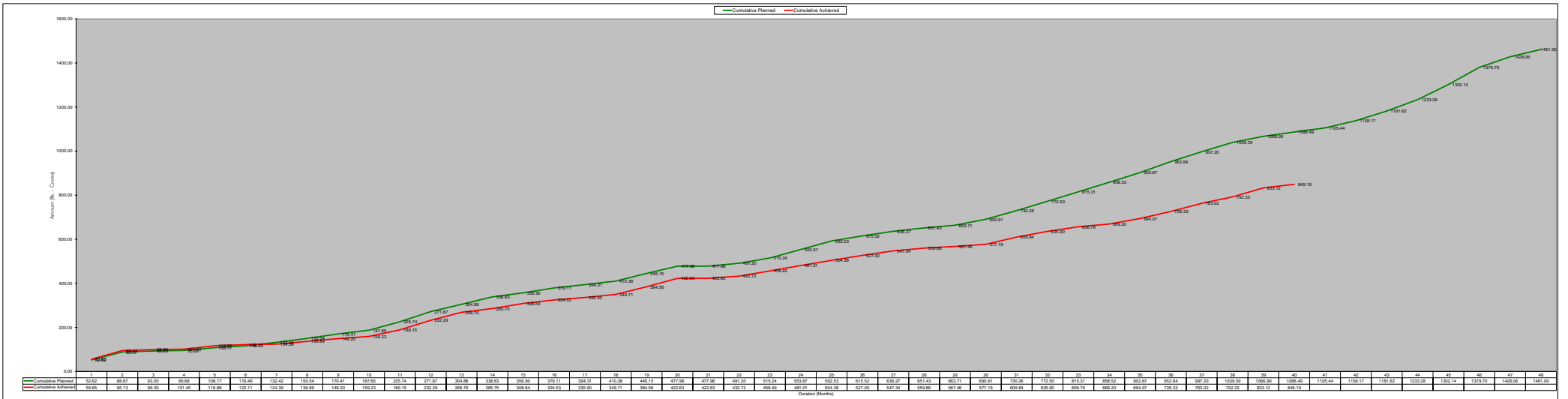
5. Financial & Physical Progress of Work

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

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

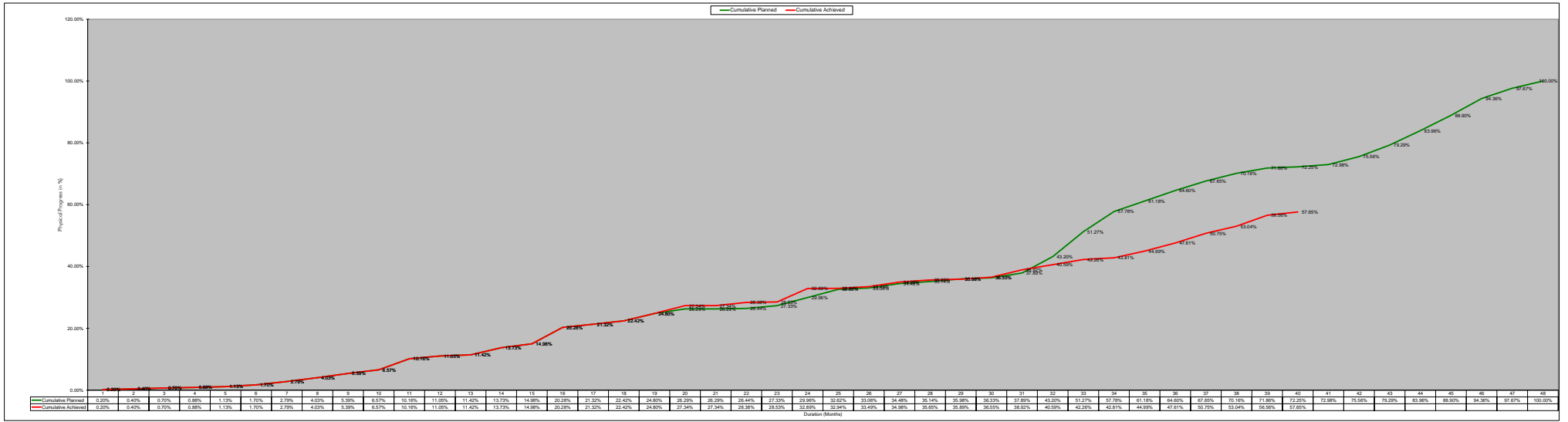
Four Laning of Sethiyahopu - Cholopuram from Km. 65.960 to 116.440 Section of NH45C in the state of Tamilnadu under NHDP-IV on Hybrid Annuity Mode

Fig. 03a- Financial Progress (S-Curve) as per revised Target



Schedule	2018					2019												2020												2021												2022									
	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	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul			
Monthly Planned	52.62	36.05	4.38	2.63	12.40	8.33	15.92	18.12	19.87	17.24	38.89	46.13	33.01	33.75	18.26	22.22	15.19	16.07	34.77	32.81	0.00	13.23	24.05	38.42	38.86	22.99	20.75	15.18	12.27	27.20	39.36	42.24	42.81	43.21	44.15	48.97	44.56	42.19	27.60	19.50	18.95	32.72	43.45	51.69	68.36	77.56	48.36	32.94			
Monthly Achieved	55.65	39.48	4.17	2.15	15.41	5.26	2.27	12.50	12.31	10.03	29.92	43.15	36.50	16.96	22.89	15.89	11.36	13.81	34.85	38.07	0.00	10.09	23.76	24.53	23.37	22.62	20.34	12.52	7.60	9.73	32.65	26.06	20.88	12.41	24.87	32.26	36.70	29.31	40.79	16.07											
Cumulative Planned	52.62	88.67	93.05	95.68	108.17	116.49	132.42	150.54	170.41	187.85	225.74	271.87	304.88	338.63	356.90	379.11	394.31	410.38	445.15	477.96	477.96	491.20	515.24	553.67	592.53	615.52	636.27	651.43	663.71	690.91	730.28	772.50	815.31	858.52	902.67	952.64	997.20	1039.39	1086.99	1086.49	1105.44	1138.17	1181.62	1233.28	1302.14	1379.70	1428.06	1461.00			
Cumulative Achieved	55.65	95.13	99.30	101.45	116.86	122.11	124.39	136.89	149.20	159.23	189.15	232.29	268.79	285.75	308.64	324.53	335.00	349.71	384.56	422.63	422.63	432.72	456.49	481.01	504.38	527.00	547.34	559.86	567.46	577.19	609.84	635.90	656.79	669.20	694.07	726.33	763.02	792.33	833.12	849.19											
Monthly Planned (%)	3.6%	2.5%	0.3%	0.2%	0.9%	0.6%	1.1%	1.2%	1.4%	1.2%	2.6%	3.2%	2.3%	2.3%	1.3%	1.5%	1.0%	1.1%	2.4%	2.2%	0.0%	0.9%	1.6%	2.6%	2.7%	1.6%	1.4%	1.0%	0.8%	1.9%	2.7%	2.9%	2.9%	3.0%	3.0%	3.4%	3.1%	2.9%	1.9%	1.3%	1.3%	2.2%	3.0%	3.5%	4.7%	5.3%	3.3%	2.3%			
Monthly Achieved (%)	3.6%	2.7%	0.3%	0.1%	1.1%	0.4%	0.2%	0.9%	0.8%	0.7%	2.0%	3.0%	2.5%	1.2%	1.6%	1.1%	0.8%	0.9%	2.4%	2.6%	0.0%	0.7%	1.6%	1.7%	1.6%	1.5%	1.4%	0.9%	0.5%	0.7%	2.2%	1.8%	1.4%	0.8%	1.7%	2.2%	2.5%	2.0%	2.8%	1.1%											
Cumulative Planned (%)	3.6%	6.1%	6.4%	6.5%	7.4%	8.0%	9.1%	10.3%	11.7%	12.8%	15.5%	18.6%	20.9%	23.2%	24.4%	25.9%	27.0%	28.1%	30.5%	32.7%	32.7%	33.6%	35.3%	37.9%	40.6%	42.1%	43.6%	44.6%	45.4%	47.3%	50.0%	52.9%	55.8%	58.8%	61.8%	65.2%	68.3%	71.1%	73.0%	74.4%	75.7%	77.9%	80.9%	84.4%	89.1%	94.4%	97.7%	100.0%			
Cumulative Achieved (%)	3.8%	6.5%	6.8%	6.9%	8.0%	8.4%	8.5%	9.4%	10.2%	10.9%	12.9%	15.9%	18.4%	19.6%	21.1%	22.2%	23.0%	23.9%	26.3%	28.9%	28.9%	29.6%	31.2%	32.9%	34.5%	36.1%	37.5%	38.3%	38.8%	39.5%	41.7%	43.9%	44.95%	45.80%	47.51%	49.71%	52.23%	54.23%	57.02%	58.12%											

Fig. 03b- Physical Progress (S-Curve) as per revised Target



Schedule	2018					2019												2020												2021												2022										
	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	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Jan	Feb	Mar	Apr	May	June	July									
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48				
Revised Target	0.20%	0.20%	0.30%	0.18%	0.25%	0.57%	1.09%	1.24%	1.36%	1.18%	3.59%	0.89%	0.37%	2.31%	1.25%	5.30%	-1.04%	1.10%	2.38%	1.49%	0.00%	0.15%	0.89%	2.63%	2.66%	0.44%	1.42%	0.66%	0.84%	0.35%	1.56%	5.31%	8.07%	6.51%	3.40%	3.42%	3.05%	2.51%	1.70%	0.39%	0.73%	2.58%	3.73%	4.67%	4.94%	5.46%	3.31%	2.33%				
Monthly Achiever	0.20%	0.20%	0.30%	0.18%	0.25%	0.57%	1.09%	1.24%	1.36%	1.18%	3.59%	0.89%	0.37%	2.31%	1.25%	5.30%	-1.04%	1.10%	2.38%	2.54%	0.00%	1.04%	0.15%	4.36%	0.04%	0.55%	1.49%	0.67%	0.24%	0.66%	2.38%	1.66%	1.68%	0.55%	2.18%	2.62%	3.14%	2.29%	3.52%	1.08%												
Cumulative Planned	0.20%	0.40%	0.70%	0.88%	1.13%	1.70%	2.79%	4.03%	5.39%	6.57%	10.16%	11.05%	11.42%	13.73%	14.98%	20.28%	21.32%	22.42%	24.80%	26.29%	26.29%	26.44%	27.33%	29.96%	32.62%	33.06%	34.48%	35.14%	35.98%	36.33%	37.89%	43.20%	51.27%	57.78%	61.18%	64.60%	67.65%	70.16%	71.86%	72.25%	72.98%	75.56%	79.29%	83.96%	88.90%	94.36%	97.67%	100.00%				
Cumulative Achiever	0.20%	0.40%	0.70%	0.88%	1.13%	1.70%	2.79%	4.03%	5.39%	6.57%	10.16%	11.05%	11.42%	13.73%	14.98%	20.28%	21.32%	22.42%	24.80%	27.34%	27.34%	28.38%	28.53%	32.89%	32.94%	33.49%	34.98%	35.65%	35.89%	36.55%	38.92%	40.59%	42.26%	42.81%	44.99%	47.61%	50.75%	53.04%	56.56%	57.65%												

6. Quality Control and Quality Assurance

6.1. List of Lab Equipment's

A site laboratory has been set up with all equipment required for testing soil, GSB, WMM, Bitumen, aggregate and concrete. Following tables represents the list of QA/QC equipment's available at Annaikarai & Meensurity Lab.

Table 6.1 - 1 QA/QC Lab Equipment at Annaikarai Lab		
Sl. NO	EQUIPEMENT LIST'S	QUANTITY
1	compression testing machine 2000 kN	1
2	cement mortar vibrating machine	1
3	AIV Apparatus	1
4	electronic weighing balance (50 kg)	1
5	electronic weighing balance (600 gm)	1
6	Hot Air Oven(250° c)	1
7	Hot plate	1
8	Rain Gauge	1
9	Sieve: as per IS 460 -1962 200 dia Brass frame	
10	4.75 mm	1
11	1.18 mm	1
12	600 mic	1
13	300 mic	1
14	90 mic	1
15	75 mic	1
16	Pan with Lid	1
17	Sieve: as per IS 460 -1962 200 dia GI frame	
18	40 mm	1
19	20 mm	1
20	12.5 mm	1
21	10 mm	1
22	4.75 mm	1
23	2.36 mm	1
24	Pan with Lid	1

25	Thickness Gauge	1
26	Glass Rain measuring jar (200CM ²)	2
27	GI Tray (18 x24 x50)	5
28	Enamel Tray (medium)	4
29	Enamel Tray (small)	6
30	spactula wooden handle	8
31	GI Tray ()	1
32	Iron tray	1
33	slump cone apparatus with tamping rod	2

Table 6.1 - 2 QA/QC Lab Equipment at Meensurity Lab

Sl. NO	EQUIPEMENT LIST'S	QUANTITY
1	Test Sieves Set 450mm internal diameter as per IS complete with lid & pan of hole sizes	
a	100mm	2 Nos
b	75mm	2 Nos
c	90mm	2 Nos
d	63mm	2 Nos
e	53mm	2 Nos
f	50mm	2 Nos
g	45mm	2 Nos
h	40mm	2 Nos
i	37.5mm	2 Nos
j	31.5mm	2 Nos
k	26.5mm	2 Nos
l	25mm	2 Nos
m	22.4mm	2 Nos
n	20.0mm	2 Nos
o	19.0mm	2 Nos
p	18mm	2 Nos
q	16mm	2 Nos
r	14mm	2 Nos
s	13.2mm	2 Nos

t	12.5mm	2 Nos
v	11.2mm	2 Nos
u	10mm	2 Nos
w	9.5mm	2 Nos
x	6.3mm	2 Nos
y	5.6mm	2 Nos
z	4.75mm	2 Nos
2	Test Sieves Set 200mm internal diameter (Brass frame & steel or brass wire cloth mesh) as per IS complete with lid & pan of sieve	
a	37.5mm	2 Nos
b	26.5mm	2 Nos
c	22.4mm	2 Nos
d	19mm	2 Nos
e	16mm	2 Nos
f	14mm	2 Nos
g	13.2mm	2 Nos
h	12.5	2 Nos
i	11.2mm	2 Nos
j	10mm	2 Nos
k	9.5mm	2 Nos
l	4.75mm	2 Nos
m	2.8mm	2 Nos
n	2.36mm	2 Nos
o	2.0mm	2 Nos
Sl. NO	EQUIPEMENT LIST'S	QUANTITY
p	1.80mm	2 Nos
q	1.7mm	2 Nos
r	1.4mm	2 Nos
s	1.18mm	2 Nos
t	1.0mm	3 Nos
v	0.600mm	2 Nos
u	0.425mm	2 Nos

w	0.355mm	2 Nos
x	0.300mm	2 Nos
y	0.180	2 Nos
z	0.090mm	2 Nos
aa	0.075mm	6 Nos
3	Measuring cylinder - Borosilicate glass - 100ML	40 Nos
4	Glass Thermometer 00c to 3000c	10 Nos
5	Flash filtering borosil glass - 2000ML	1 No
6	Flash filtering borosil glass - 5000ML	1 No
7	Round hot Plate	2 Nos
8	Measuring cylinder - Borosilicate glass - 1000ML	4 Nos
9	Measuring cylinder - Borosilicate glass - 250ML	4 Nos
10	Measuring cylinder- Borosilicate glass - 500ML	4 Nos
11	Beakers - glass borosil - low from cap 600ML	4 Nos
12	Compaction pedestal - 4"	4 Nos
13	Extractor plate - 6" dia for marshal test	1 No
14	Rammer marshal - 4"	4 Nos
15	Thermometer Infra red - MTX - 2	2 Nos
16	LE - Chatlier mould one set of six	2 Nos
17	Cone penetrometer	1 No
18	Los angeles abrasion testing machine	1 No
19	Marshal Mould - 4" dia	51 nos
20	G.I Tray - 1500*1500*100MM	4 Nos
21	Compaction pedestal - 6"	1 No
22	Marshal stability apparatus	1 No
23	Measuring cylinder- Plastic - 50ML	4 Nos
24	Measuring cylinder- Plastic - 250ML	2 Nos
25	Measuring cylinder- Plastic - 500ML	2 Nos
26	Measuring cylinder- Plastic - 1000ML	2 Nos
27	Vibrating machine with digital timer	1 No
28	Hot Air Oven - Thermostatic - NoN Digital - 45*45*45 CM	1 No
29	Hot Air Oven - Thermostatic - NoN Digital - 90*60*60 CM	1 No

30	Penetration cup - 55*70 MM	2 Nos
31	Penetration cup - 55*35MM	6 Nos
32	Standard Penetrometer - Automatic with digital timer	1 No
33	proctor compaction mould 100mm dia with 2.69kg Rammer mid steel	4 Nos
34	proctor compaction mould 150mm dia with 4.89kg Rammer mid steel	6 Nos
35	proving ring compression type 10kn	1 Nos
Sl. NO	EQUIPEMENT LIST'S	QUANTITY
36	proving ring compression type 2.5kn	1 Nos
37	proving ring compression type 25kn	1 Nos
38	proving ring compression type 50kn	1 Nos
39	pycnometer bottle	4 Nos
40	Rapid moisture meter-0-25%	4 Nos
41	Riffle sample divider -G.I-20mm , no of slot ;16	1 nos
42	Riffle sample divider -G.I-40mm , no of slot ;12	1 Nos
43	Pipette borosilicate glass - 10 ml	4 Nos
44	Sant equivalent value test apparaus with accessories	1 Nos
45	fileld density test app - sand replacement method small	2 Set
46	shrinkage limit set W/O mercury	1 Nos
47	Mercury 250 Gm	1 Nos
48	Buoyancy balance	1 Nos
49	Spatula 8"	10 Nos
50	Spatula 4"	10 Nos
51	Standard sand - grade III - Bag of 25 kg	2 Nos
52	Standard sand - grade I - Bag of 25 kg	2 Bag
53	Standard sand - grade II - Bag of 25 kg	2 Bag
54	stanard penetrometer - automatic with digital timer	1 Nos
55	Beaking head assembly - 6'	1 Nos
56	Bulk density cylindrical metal measure - 15 LTR	1 Nos
57	Bulk density cylindrical metal measure - 5 LTR	1 Nos
58	Bulk density cylindrical metal measure - 30 LTR	1 Nos
59	Calcium carbide - 500 GM for rapid moisture meter	10 Nos

60	Liquid limits device - hand operated	1 Nos
61	CBR mould mild steel 150mm dia eith collar and base plate	60 Nos
62	Perforrated plate - for CBR test AS per 1377	57 Nos
63	Spacer disc - for CBR test	4 nos
64	surcharge weight 2.5kg annular for cbr test	120 nos
65	cbr load frame electrical single speed	1 nos
66	chiesel 25mm wide *300mm long	20 nos
67	compression testing machine 2000kn digital manual pace	1 nos
68	cube moulds 7.06cm isi marked for cement	12
69	Concrete mixer - Tilting drum type	1 No
70	Constant temperature waterbath for marshal test with digital	2 Nos
71	Core drilling machine with disel engine	1 No
72	Electronic weighing balance - 10KG	1 No
73	Cube moulds - 10CM	18 Nos
74	Cube moulds - 5CM	12 Nos
75	Electronic weighing balance - 600Gms	2 Nos
76	Dial gauge 0.01*30mm	4 Nos
77	Electronic platform balance - 100KG	1 Nos
78	Electronic weighing balance - 30KG	2 Nos
79	Electronic weighing balance - 50KG	2 Nos
80	Electronic weighing balance - 5KG	1 No
81	Stop watch - digital	4 Nos
Sl. NO	EQUIPEMENT LIST'S	QUANTITY
82	Direct shear apparatus	1 No
83	Bottle wash plastic - 1000ML	4 Nos
84	Length gauge	1 No
85	Tray - G.I 300*300MM (12"*12")	6 Nos
86	Enamel tray -300*250*40 mm (10"*12")	9 Nos
87	Tray G.I -300*250*40 mm (10"*12")	9 Nos
88	Enamel tray -450*600*40 mm (18"*12")	12 Nos
89	Field density test app -sand replacement method medium	2 Set
90	Field density test app -sand replacement method Large	2 Set

91	Filter paper for marshal test 100mm dia	10 PKT
92	Filter paper for CBR test 15cm dia PKT of 100 circles	10 PKT
93	Flakiness gauge - M.S .Chrome / powder coated	1 Nos
94	Pensky marten flash piot apparatus	1 Nos
95	Flexural strength testing machine curve	1 Nos
96	French curve	2 Nos
97	Slump test aprpratus with tamping rod 16mm dia *600mm long	9 Nos
98	Thermometer dial 100mm dia * 300mm long 00 - 3000c	10 Nos
99	Tripod stand for CBR test	4 Nos
100	Gauging trowel 6" (150mm)	4 Nos
101	U tube glass viscometer	1 Nos
102	Saybolt viscometer with energy regulator	1 Nos
103	Vacuum pump -Singal Stage	1 Nos
104	Vibrating table -60*60 CM	1 Nos
105	Needle final setting time for vicat needle aprpratus	1 Nos
106	Needle Intial setting time for vicat needle aprpratus	1 Nos
107	Vicat Needle apparatus	2 Nos
108	Hammer with Handle - 1000 GM	4 Nos
109	Aggregate Impact testing machine	1 Nos
110	Beakers - glass borosil - low form cap ; 600ML	2 Nos
111	Beam mould -15*15*70 CM - Mild steel	17 Nos

6.2. Quality Control Test Summary

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

The detailed list of quality control test conducted up to the month of November - 2021 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 November -2021

S. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month			Tests conducted during reporting month November 2021						Test conducted upto this month				
				No. of test Conducted EPC/ Concessionaire	Passed	Failed	No. of test witnessed by IE	Tested		Passed		Failed		No. of test Conducted EPC/ Concessionaire	Passed	Failed	No. of test witnessed by IE
								Concessi onarie	IE	Concessio narie	IE	Concessi onarie	IE				
1.0 Tests on OGL																	
1.1	Grain size analysis	IS:2720 (Part4)	1 test / 250 meters	345	345	0	97	0	0	0	0	0	0	345	345	0	97
1.2	Atterberg Limits	IS:2720 (Part5)	1 test / 250 meters	345	345	0	97	0	0	0	0	0	0	345	345	0	97
1.3	Proctor	IS:2720 (Part8)	1 test / 250 meters	345	345	0	97	0	0	0	0	0	0	345	345	0	97
1.4	Free Swell index	IS:2720 (Part40)	1 test / 250 meters	345	338	7	97	0	0	0	0	0	0	345	338	7	97
1.5	California bearing ratio	IS:2720 (Part16)	As required	0	0	0	0	0	0	0	0	0	0	0	0	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	1324	1324	0	729	0	0	0	0	0	0	1324	1324	0	729
2.2	Atterberg Limits	IS:2720 (Part5)	1 test /1500 m ³	1324	1324	0	729	0	0	0	0	0	0	1324	1324	0	729
2.3	Proctor	IS:2720 (Part8)	1 test /1500 m ³	1324	1324	0	729	0	0	0	0	0	0	1324	1324	0	729
2.4	Free Swell index	IS:2720 (Part40)	1 test /1500 m ³	1324	1324	0	729	0	0	0	0	0	0	1324	1324	0	729
2.5	California bearing ratio	IS:2720 (Part16)	1 test / 3000 m ³	370	362	8	188	0	0	0	0	0	0	370	362	8	188
2.6	Direct shear Test	IS:2720 (Part13)	1 test /3000 m ³	223	220	3	114	0	0	0	0	0	0	223	220	3	114
3.0 Cutting portion & Existing for EMB/SG site sampling (MoRT&H 305)																	
3.1	Grain size analysis	IS:2720 (Part4)	1 test /1500 m ³	72	70	2	32	0	0	0	0	0	0	72	70	2	32
3.2	Atterberg Limits	IS:2720 (Part5)	1 test /1500 m ³	72	70	2	32	0	0	0	0	0	0	72	70	2	32
3.3	Proctor	IS:2720 (Part8)	1 test /1500 m ³	72	70	2	32	0	0	0	0	0	0	72	70	2	32
3.4	Free Swell index	IS:2720 (Part40)	1 test /1500 m ³	72	70	2	32	0	0	0	0	0	0	72	70	2	32
3.5	California bearing ratio	IS:2720 (Part16)	1 test / 3000 m ³	41	39	2	23	0	0	0	0	0	0	41	39	2	23
3.6	Direct shear Test	IS:2720 (Part13)	1 test /3000 m ³	1	1	0	1	0	0	0	0	0	0	1	1	0	1
4.0 Service Road																	
2.1	Grain size analysis	IS:2720 (Part4)	1 test /1500 m ³	27	27	0	20	0	0	0	0	0	0	27	27	0	20
2.2	Atterberg Limits	IS:2720 (Part5)	1 test /1500 m ³	27	27	0	20	0	0	0	0	0	0	27	27	0	20
2.3	Proctor	IS:2720 (Part8)	1 test /1500 m ³	27	27	0	20	0	0	0	0	0	0	27	27	0	20
2.4	Free Swell index	IS:2720 (Part40)	1 test /1500 m ³	27	27	0	20	0	0	0	0	0	0	27	27	0	20
2.5	California bearing ratio	IS:2720 (Part16)	1 test / 3000 m ³	8	8	0	8	0	0	0	0	0	0	8	8	0	8
2.6	Direct shear Test	IS:2720 (Part13)	1 test /3000 m ³	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0 FLYASH For Embankment																	
5.1	Liquid Limit & Plastic limit	TABLE-1	1 test /1500 m ³	417	417	0	241	0	0	0	0	0	0	417	417	0	241
5.2	Maximum Dry Density	Clause 5.2	1 test /1500 m ³	417	417	0	253	0	0	0	0	0	0	417	417	0	253
5.3	Grain size analysis	IS:2720 (Part4)	1 test /3000 m ³	277	277	0	165	0	0	0	0	0	0	277	277	0	165
5.4	Direct shear Test	IS:2720 (Part13)	1 test /3000 m ³	187	187	0	107	0	0	0	0	0	0	187	187	0	107

S. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month				Tests conducted during reporting month November 2021						Test conducted upto this month			
				No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos. of test witnessed by IE	Tested		Passed		Failed		No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos. of test witnessed by IE
								Concessio narie	IE	Concessio narie	IE	Concessio narie	IE				
6.0 Field Density Test MoRT&H 305																	
6.1	Field density (OGL)	IS:2720 (Part28)	1 test /3000 sqm	3999	3879	120	998	0	0	0	0	0	0	3999	3879	120	998
6.2	EMB field density	IS:2720 (Part28)	1 test /3000 sqm	75173	72755	2418	15310	0	0	0	0	0	0	75173	72755	2418	15310
6.3	SG field density	IS:2720 (Part28)	1 test / 2000 sqm	14240	13904	336	5778	183	40	180	37	3	3	14423	14084	339	5818
6.4	Shoulder field density	IS:2720 (Part28)	1 test / 2000 sqm	373	370	3	40	0	0	0	0	0	0	373	370	3	40
6.5	Ground improvement (Soil)	IS:2720 (Part28)	1 test / 2000 sqm	3035	2958	77	421	0	0	0	0	0	0	3035	2958	77	421
6.6	Ground improvement & Midean filling (Flyash)	IS:2720 (Part28)	1 test / 2000 sqm	24465	23779	686	3658	0	0	0	0	0	0	24465	23779	686	3658
7.0 Filter Media & Back filling MoRT&H 2500																	
7.1	Gradation		As required	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.2	Backfilling field density		1 test /1000 m ³	840	840	0	48	0	0	0	0	0	0	840	840	0	48
7.3	RE Wall field density		As required	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0 Safe Bearing capacity of soil																	
8.1	Free Swell index	IS:2720 (Part40)	As required	112	99	13	96	0	0	0	0	0	0	112	99	13	96
8.2	Grain size analysis	IS:2720 (Part4)	As required	112	105	7	96	0	0	0	0	0	0	112	105	7	96
8.3	Proctor	IS:2720 (Part8)	As required	112	105	7	96	0	0	0	0	0	0	112	105	7	96
8.4	Direct shear Test	IS:2720 (Part13)	As required	112	93	19	96	0	0	0	0	0	0	112	93	19	96
8.5	Bearing Capacity / Plate Load Test	IS:6403 / IS 1888	As required	110	56	54	66	0	0	0	0	0	0	110	56	54	66
9.0 CTSB Mix Design/Site Frequency MoRT&H 403																	
9.1	Gradation	Table 400-4	1 test/400m ³	807	807	0	331	15	3	15	3	0	0	822	822	0	334
9.2	Atterberg Limits	IS:2720 (Part5)	1 test/400m ³	686	686	0	254	15	3	15	3	0	0	701	701	0	257
9.3	Proctor	IS:2720 (Part8)	As required	32	32	0	30	2	2	2	2	0	0	34	34	0	32
9.4	CBR Test or unconfined compressive strength test	IS:2720 (Part16)	As required	1	1	0	1	0	0	0	0	0	0	1	1	0	1
9.5	Quality of cement		Minimum 1 test/5 tons	2	2	0	2	0	0	0	0	0	0	2	2	0	2
9.6	Aggregate impact value	IS:2386 Part-4	As required	28	28	0	17	0	0	0	0	0	0	28	28	0	17
9.7	Field Density	IS:2720 (Part28)	1 set of 2 Test per 500Sqm	4727	4727	0	3163	79	16	79	16	0	0	4806	4806	0	3179
9.8	Specific gravity & Water absorption	IS:2386 (Part2)	As required	2	2	0	2	0	0	0	0	0	0	2	2	0	2
9.9	Cubes	IRC SP 89 (2010)	1 set 400MT	1749	1749	0	628	20	3	20	3	0	0	1769	1769	0	631
10.0 Granular Bedding Material (For Structures-Ground Improvement)- Mix Design																	
10.1	Gradation	Table 400-1	1 test/400m ³	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.2	Atterberg Limits	IS:2720 (Part5)	1 test/400 m ³	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.3	Proctor	IS:2720 (Part8)	As required	0	0	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	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	0	0
10.6	Field Density	IS:2720 (Part28)	1 Test per 1000 Sq.m	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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								Concessi onarie	IE	Concessio narie	IE	Concessi onarie	IE				
11.0 Granular Bedding Material (For Structures-Ground Improvement)- Site Frequency																	
11.1	Gradation	Table 400-1	1 test/400m ³	3	3	0	3	0	0	0	0	0	0	3	3	0	3
11.2	Atterberg Limits	IS:2720 (Part5)	1 test/400 m ³	3	3	0	3	0	0	0	0	0	0	3	3	0	3
11.3	Proctor	IS:2720 (Part8)	As required	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.4	CBR Test	IS:2720 (Part16)	As required	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.5	Aggregate Impact value	IS:2386 Part-4	As required	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.6	Field Density	IS:2720 (Part28)	1 Test per 1000 Sq.m	90	90	0	21	0	0	0	0	0	0	90	90	0	21
12.0 WMM Mix Design																	
12.1	Gradation	Table 400-3	1 test/200m ³	53	53	0	53	0	0	0	0	0	0	53	53	0	53
12.2	Aggregate Impact Value	IS:2386 Part-4	1 test/ 1000 m ³	5	5	0	5	0	0	0	0	0	0	5	5	0	5
12.3	Flakiness & Elagation index	IS:2386 Part1	1 test/ 500 m ³	4	4	0	4	0	0	0	0	0	0	4	4	0	4
12.4	Atterberg Limits	IS:2720 (Part5)	1 test/200m ³	4	4	0	4	0	0	0	0	0	0	4	4	0	4
12.5	Water absorption & Sp.Gravity	IS:2386 Part2	As required	8	8	0	8	0	0	0	0	0	0	8	8	0	8
12.6	Proctor	IS:2720 (Part8)	As required	4	4	0	4	0	0	0	0	0	0	4	4	0	4
12.7	CBR	IS:2720 (Part16)	As required	2	2	0	2	0	0	0	0	0	0	2	2	0	2
13.0 WMM Site Frequency MoRT&H 406																	
13.1	Gradation	Table 400-3	1 test/200m ³	562	562	0	214	13	4	13	4	0	0	575	575	0	218
13.2	Aggregate Impact Value	IS:2386 Part-4	1 test/ 1000 m ³	305	305	0	118	7	2	7	2	0	0	312	312	0	120
13.3	Flakiness & Elagation index	IS:2386 Part1	1 test/ 500 m ³	316	316	0	104	7	2	7	2	0	0	323	323	0	106
13.4	Atterberg Limits	IS:2720 (Part5)	1 test/200m ³	525	525	0	187	13	4	13	4	0	0	538	538	0	191
13.5	Water absorption	IS:2386 Part2	As required	4	4	0	4	0	0	0	0	0	0	4	4	0	4
13.6	Proctor	IS:2720 (Part8)	As required	13	13	0	11	1	1	1	1	0	0	14	14	0	12
13.7	CBR	IS:2720 (Part16)	As required	1	1	0	1	0	0	0	0	0	0	1	1	0	1
13.8	Field Density	IS:2720 (Part28)	1 set Test per 1000 Sq.m / 3 pits	1141	1141	0	776	35	10	35	10	0	0	1176	1176	0	786
14.0 Dense Bituminous Macadam (Grade - II)																	
14.1	Bitumen Extraction & Gradation		1 Test/400MT	331	331	0	137	7	2	7	2	0	0	338	338	0	139
14.2	Combined Gradation	Table 500 - 18, Grad.II	1 Test/400MT	347	347	0	134	7	2	7	2	0	0	354	354	0	136
14.3	Individual Gradation Sets	Table 500 - 18, Grad.II	1 Test/400MT	347	347	0	134	7	2	7	2	0	0	354	354	0	136
14.4	Flakiness & Elagation index	MORTH Table 900 - 4	1 test/ 350 m ³	225	225	0	89	4	1	4	1	0	0	229	229	0	90
14.5	Aggregate Impact Value	MORTH Table 900 - 4	1 test/350m ³	267	267	0	109	4	1	4	1	0	0	271	271	0	110
14.6	Marshall Density	ASTM D 2726	1 Set/400MT	368	347	0	156	7	2	7	2	0	0	375	354	0	158
14.7	GMM	MORTH Table 900 - 4	1 Test/400MT	337	316	0	140	7	2	7	2	0	0	344	323	0	142
14.8	DBM Core Cutting	MORTH Table 900 - 4	1 Test/700M ²	980	980	0	433	12	5	12	5	0	0	992	992	0	438
Bitumen test (VG -40)																	
14.9	Softening Point	IS:1205 - 1978	1 Test/ 1 lot	162	162	0	69	3	2	3	2	0	0	165	165	0	71
14.10	Penetration	IS:1205 - 1978	1 Test/ 1 lot	162	162	0	69	3	2	3	2	0	0	165	165	0	71
14.11	viscosity	IS:1205 - 1978	1 Test/ 1 lot	162	162	0	69	3	2	3	2	0	0	165	165	0	71

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								Concessi onarie	IE	Concessio narie	IE	Concessi onarie	IE				
15.0 Bituminous Concrete (Grade - II) PMB MCW																	
15.1	Bitumen Extraction & Gradation	IRC SP 11	1 Test/400MT	146	146	0	67	5	5	5	5	0	0	151	151	0	72
15.2	Combined Gradation	Table 500 - 17, Grad.II	1 Test/400MT	188	188	0	113	5	5	5	5	0	0	193	193	0	118
15.3	Individual Gradation Sets	Table 500 - 17, Grad.II	1 Test/400MT	188	188	0	113	5	5	5	5	0	0	193	193	0	118
15.4	Flakiness & Elagation index	MORTH Table 900 - 4	1 test/ 350 m ³	85	85	0	38	3	3	3	3	0	0	88	88	0	41
15.5	Aggregate Impact Value	MORTH Table 900 - 4	1 test/350m ³	87	87	0	40	3	3	3	3	0	0	90	90	0	43
15.6	Marshall Density	ASTM D 2726	1 Set/400MT	170	170	0	84	5	5	5	5	0	0	175	175	0	89
15.7	GMM	MORTH Table 900 - 4	1 Test/400MT	170	170	0	84	5	5	5	5	0	0	175	175	0	89
15.8	BC Core Cutting	MORTH Table 900 - 4	1 Test/700M ²	654	654	0	254	31	7	31	7	0	0	685	685	0	261
16.0 Bituminous Concrete (Grade - II) VG-40 S/R																	
16.1	Bitumen Extraction & Gradation	IRC SP 11	1 Test/400MT	21	21	0	9	0	0	0	0	0	0	21	21	0	9
16.2	Combined Gradation	Table 500 - 17, Grad.II	1 Test/400MT	21	21	0	9	0	0	0	0	0	0	21	21	0	9
16.3	Individual Gradation Sets	Table 500 - 17, Grad.II	1 Test/400MT	21	21	0	9	0	0	0	0	0	0	21	21	0	9
16.4	Flakiness & Elagation index	MORTH Table 900 - 4	1 test/ 350 m ³	13	13	0	5	0	0	0	0	0	0	13	13	0	5
16.5	Aggregate Impact Value	MORTH Table 900 - 4	1 test/350m ³	13	13	0	5	0	0	0	0	0	0	13	13	0	5
16.6	Marshall Density	ASTM D 2726	1 Set/400MT	21	21	0	9	0	0	0	0	0	0	21	21	0	9
16.7	GMM	MORTH Table 900 - 4	1 Test/400MT	21	21	0	9	0	0	0	0	0	0	21	21	0	9
16.8	BC Core Cutting	MORTH Table 900 - 4	1 Test/700M ²	96	96	0	40	0	0	0	0	0	0	96	96	0	40
Bitumen test (PMB)																	
16.9	Softening Point	IS:1205 - 1978	1 Test/ 1 lot	112	112	0	49	5	1	5	1	0	0	117	117	0	50
16.10	Elastic recovery	IS:15462 - 2019	1 Test/ 1 lot	112	112	0	49	5	1	5	1	0	0	117	117	0	50
17.0 Prime Coat																	
17.0	Rate of Spread of Binder		Three tests per day	741	741	0	356	18	6	18	6	0	0	759	759	0	362
17.1 Emulsion Test (SS-1)																	
17.1	Say bolt Viscometer	IS:8887-2004	1 Test/ 1 lot	2	2	0	1	0	0	0	0	0	0	2	2	0	1
17.2 Tack Coat																	
17.2	Rate of Spread of Binder		Three tests per day	778	778	0	293	20	6	20	6	0	0	798	798	0	299
17.3 Emulsion Test (RS-1)																	
17.3	Say bolt Viscometer	IS:8887-2004	1 Test/ 1 lot	3	3	0	2	0	0	0	0	0	0	3	3	0	2

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								Concessio narie	IE	Concessio narie	IE	Concessio narie	IE				
18.0 Fine Aggregate MoRT&H 1008																	
18.1	Gradation/ Sieve analysis	IS:2386 (Part1)	1 test per day	1724	1724	0	595	20	9	20	9	0	0	1744	1744	0	604
18.2	Specific gravity& Water absorption	IS:2386 (Part3)	As required	16	16	0	15	0	0	0	0	0	0	16	16	0	15
18.3	Fineness Modulus	MORT&H Sec. 1008&383	1 test per day	1582	1582	0	523	20	9	20	9	0	0	1602	1602	0	532
18.4	Alkali aggregate reactivity test	IS:2386 (Part-7)IS : 456	1 test per source	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.5	Deleterious material/silt	IS:2386 (Part2)	1 test per source	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0 Coarse Aggregate MoRT&H 1007																	
19.1	Gradation	IS:2386 (Part1)	1 test per day	1622	1622	0	587	20	9	20	9	0	0	1642	1642	0	596
19.2	Specific gravity& Water absorption	IS:2386 (Part3)	As required	18	18	0	15	0	0	0	0	0	0	18	18	0	15
19.3	Aggregate Impact Value	IS:2386 (Part4)	1 test / each source & monthly	438	438	0	200	4	1	4	1	0	0	442	442	0	201
19.4	Flakiness index	IS:2386 (Part1)	1 test / each source & monthly	408	408	0	187	4	1	4	1	0	0	412	412	0	188
19.5	Soundness	IS:2386 (Part5)	As required	2	2	0	2	0	0	0	0	0	0	2	2	0	2
19.6	Alkali aggregate reactivity test	IS:2386 (Part-7)IS : 456	1 test per source	2	2	0	2	0	0	0	0	0	0	2	2	0	2
19.7	Deleterious constituents	IS:2386 (Part2)	1 test per source	2	2	0	2	0	0	0	0	0	0	2	2	0	2
19.8	Petrographic Examination	IS:2386 (Part8)	1 test per source	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0 Cement MoRT&H 1006																	
20.1	Chemical test / Physical test	IS:4031,4032	1 test per source	14	14	0	9	0	0	0	0	0	0	14	14	0	9
20.2	Fineness	IS:4031 (Part1)	Every batch	502	502	0	237	7	1	7	1	0	0	509	509	0	238
20.3	Normal Consistency	IS:4031 (Part4)	Every batch	474	474	0	237	7	1	7	1	0	0	481	481	0	238
20.4	Initial,Final setting time	IS:4031 (Part5)	Every batch	474	474	0	237	7	1	7	1	0	0	481	481	0	238
20.5	Soundness of Cement	IS:4031 (Part3)	Every batch	418	418	0	203	7	1	7	1	0	0	425	425	0	204
20.6	Compressive Strength-set	IS:4031 (Part6)															
	3 days		1 test per Lot	428	428	0	189	6	0	6	0	0	0	434	434	0	189
	7 days		1 test per Lot	419	419	0	186	7	1	7	1	0	0	426	426	0	187
	28 days		1 test per Lot	415	415	0	181	8	2	8	2	0	0	423	423	0	183
21.0. (A) Concrete Cube Strength																	
M15 PCC																	
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	641	641	0	228	6	0	6	0	0	0	647	647	0	228
	28Days Compressive Strength			1073	1073	0	444	49	14	49	14	0	0	1122	1122	0	458
M20 KERB																	
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	251	281	0	70	10	2	10	2	0	0	261	291	0	72
	28Days Compressive Strength			702	672	0	168	21	7	21	7	0	0	723	693	0	175
M20 RCC																	
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	375	375	0	109	1	0	1	0	0	0	376	376	0	109
	28Days Compressive Strength			731	731	0	241	12	5	12	5	0	0	743	743	0	246

S. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month				Tests conducted during reporting month November 2021						Test conducted upto this month			
				No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos. of test witnessed by IE	Tested		Passed		Failed		No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos. of test witnessed by IE
								Concessi onarie	IE	Concessio narie	IE	Concessi onarie	IE				
M20PCC																	
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	6	6	0	3	0	0	0	0	0	0	6	6	0	3
	28Days Compressive Strength			8	8	0	6	0	0	0	0	0	0	8	8	0	6
M25 RCC																	
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	26	26	0	9	11	1	11	1	0	0	37	37	0	10
	28Days Compressive Strength			47	47	0	35	22	9	22	9	0	0	69	69	0	44
M30 RCC																	
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	781	781	0	264	9	3	9	3	0	0	790	790	0	267
	28Days Compressive Strength			1266	1266	0	483	40	6	40	6	0	0	1306	1306	0	489
M30 RCC PUMPABLE																	
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	113	113	0	51	1	1	1	1	0	0	114	114	0	52
	28Days Compressive Strength			277	277	0	142	9	5	9	5	0	0	286	286	0	147
M35 RCC																	
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	387	387	0	189	4	1	4	1	0	0	391	391	0	190
	28Days Compressive Strength			775	775	0	394	27	18	27	18	0	0	802	802	0	412
M35 PILING																	
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	981	981	0	514	0	0	0	0	0	0	981	981	0	514
	28Days Compressive Strength			2909	2909	0	1555	0	0	0	0	0	0	2909	2909	0	1555
M35 RCC PUMPABLE																	
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	946	946	0	393	3	2	3	2	0	0	949	949	0	395
	28Days Compressive Strength			2874	2874	0	1207	19	6	19	6	0	0	2893	2893	0	1213
M35 RE BLOCK																	
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	792	792	0	228	0	0	0	0	0	0	792	792	0	228
	28Days Compressive Strength			2270	2270	0	728	0	0	0	0	0	0	2270	2270	0	728
M40 PUMP & M40 RCC																	
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	803	803	0	306	29	13	29	13	0	0	832	832	0	319
	28Days Compressive Strength			1750	1750	0	635	111	65	111	65	0	0	1861	1861	0	700
M40 PQC																	
	7 Days Flexural Strength	As Per IS:516	As Per IS:516	12	12	0	12	0	0	0	0	0	0	12	12	0	12
	28 Days Flexural Strength			30	30	0	30	0	0	0	0	0	0	30	30	0	30
	7Days Compressive Strength	As Per IS:516	As Per IS:516	12	12	0	12	0	0	0	0	0	0	12	12	0	12
	28Days Compressive Strength			30	30	0	30	0	0	0	0	0	0	30	30	0	30
M40 PILING																	
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	306	306	0	92	0	0	0	0	0	0	306	306	0	92
	28Days Compressive Strength			997	997	0	271	0	0	0	0	0	0	997	997	0	271
M45 PUMP																	
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	369	369	0	150	0	0	0	0	0	0	369	369	0	150
	28Days Compressive Strength			1020	1020	0	385	0	0	0	0	0	0	1020	1020	0	385
M50 RCC PUMP																	
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	19	19	0	12	0	0	0	0	0	0	19	19	0	12
	28Days Compressive Strength			29	29	0	23	0	0	0	0	0	0	29	29	0	23
M60 PUMP																	
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700 No of sets	521	521	0	159	18	2	18	2	0	0	539	539	0	161
	28Days Compressive Strength			1754	1754	0	483	86	18	86	18	0	0	1840	1840	0	501

BORROW AREA SUMMARY

S.NO	B/A NO.	Chainage	Side	Suitable For	Subgrademission Letter No	Approved Letter No	Remark	
1	1	Maruvay 61+090	LHS	Embankment	PSCHPL/SCP/IE/2018/093	TES/IE/SCP/PIL/2018/059	Approved	
2	1	61+090 LHS (Maruvai) EX - 01	LHS	Embankment	PSCHPL/SCP/IE/2020/656	TES/IE/SC/PIL/2020/470	Approved	
3	1	61+090 LHS (Maruvai) EX - 02	LHS	Embankment&Subgrade	PSCHPL/SCP/IE/2020/656	TES/IE/SC/PIL/2020/470	Approved	
4	1	61+090 LHS (Maruvai) EX - 03	LHS	Embankment	PSCHPL/SCP/IE/2020/670	TES/IE/SC/PIL/2020/477	Approved	
5	1	61+090 LHS (Maruvai) EX - 04	LHS	Embankment&Subgrade	PSCHPL/SCP/IE/2020/679	TES/IE/SC/PIL/2020/486	Approved	
6	1	61+090 LHS (Maruvai) EX - 05	LHS	Embankment	PSCHPL/SCP/IE/2020/679	TES/IE/SC/PIL/2020/486	Approved	
7	1	61+090 LHS (Maruvai) EX - 06	LHS	Embankment	PSCHPL/SCP/IE/2020/683	TES/IE/SC/PIL/2020/500	Approved	
8	2	106+350 RHS Kodali	RHS	Embankment	PSCHPL/SCP/IE/2018/084	TES/IE/SCP/PIL/2018/061	Approved	
9	2	106+350 RHS (Kodali) EX - 01	RHS	Embankment	PSCHPL/SCP/IE/2020/670	TES/IE/SC/PIL/2020/477	Approved	
10	2	106+350 RHS (Kodali) EX - 02	RHS	Embankment	PSCHPL/SCP/IE/2020/689	TES/IE/SC/PIL/2020/490	Approved	
11	3	113+250 LHS Paalur	LHS	Embankment	PSCHPL/SCP/IE/2018/101	TES/IE/SCP/PIL/2018/098	Approved	
12	4	113+250 LHS Kattanakaram	LHS	Embankment	PSCHPL/SCP/IE/2018/147	TES/IE/SCP/PIL/2018/122	Approved	
13	5	113+250 LHS Manikudi	LHS	Embankment	PSCHPL/SCP/IE/2018/116	TES/IE/SCP/PIL/2018/099	Approved	
14	6	112+250 RHS Ammiyapan	RHS	Embankment	PSCHPL/SCP/IE/2018/160	TES/IE/SCP/PIL/2018/131	Approved	
15	7	80+500 RHS Palayan kottai	RHS	Embankment	PSCHPL/SCP/IE/2018/160	TES/IE/SCP/PIL/2018/129	Approved	
16	7	80+500 RHS Palayan kottai EX-01	RHS	Embankment	PSCHPL/SCP/IE/2019/374	TES/IE/SCP/PIL/2019/300	Approved	
17	7	80+500 RHS Palayan kottai EX-02	RHS	Embankment	PSCHPL/SCP/IE/2019/396	TES/IE/SCP/PIL/2019/315	Approved	
18	7	80+500 RHS Palayan kottai EX-03	RHS	Embankment&Subgrade	PSCHPL/SCP/IE/2019/435	TES/IE/SCP/PIL/2019/343	Approved	
19	8	98+950 RHS Ponnery	RHS	Embankment	PSCHPL/SCP/IE/2019/302	TES/IE/SCP/PIL/2019/247	Approved	
20	8	98+950 RHS Ponnery EX-01	RHS	Embankment&Subgrade	PSCHPL/SCP/IE/2019/488	TES/IE/SCP/PIL/2019/386	Approved	
21	9	106+320 RHS (Uthayanatham)	RHS	Embankment	PSCHPL/SCP/IE/2019/302	TES/IE/SCP/PIL/2019/247	Approved	
22	9	106+320 RHS (Uthayanatham EX-01)	RHS		PSCHPL/SCP/IE/2019/472	TES/IE/SCP/PIL/2019/365	Approved	
23	10	96+600 LHS (Pandianeery)	LHS		PSCHPL/SCP/IE/2019/302	TES/IE/SCP/PIL/2019/247	Approved	
24	10	96+600 LHS (Pandianeery) EX-01	LHS		PSCHPL/SCP/IE/2019/345	TES/IE/SCP/PIL/2018/268	Approved	
25	10	96+600 LHS (Pandianeery) EX-02	LHS	Embankment& RE WALL	PSCHPL/SCP/IE/2021/950	TES/IE/SC/PIL/2021/630		
26	11	88+550 (Kaduvetti)	LHS	Embankment	PSCHPL/SCP/IE/2019/335		Approved	
27	11	88+550 (Kaduvetti) EX - 01	LHS	Embankment&Subgrade	PSCHPL/SCP/IE/2019/352	TES/IE/SCP/PIL/2019/280	Approved	
28	12	90+500 Puthueary	RHS	Embankment&Subgrade	PSCHPL/SCP/IE/2019/390	TES/IE/SCP/PIL/2019/307	Approved	
29	12	90+500 Puthueary EX-01	RHS	RE WALL	PSCHPL/SCP/IE/2019/510			
30	12	90+500 Puthueary EX-02	RHS	Embankment&Subgrade	PSCHPL/SCP/IE/2020/750			
31	13	87+900 Andi Madam	RHS	Using For Filter Media				
32	14	87+900 Vilanthai	RHS					
33	15	87+600 Velaneary	RHS	Embankment	PSCHPL/SCP/IE/2019/387	TES/IE/SCP/PIL/2019/302	Approved	
34	16	82+900 Aandi Palayam	RHS	Embankment	PSCHPL/SCP/IE/2019/381	TES/IE/SCP/PIL/2019/299	Approved	
35	16	82+900 Aandi Palayam EX-01	RHS	RE WALL	PSCHPL/SCP/IE/2019/501	TES/IE/SC/PIL/2019/390	Approved	
36	16	82+900 Aandi Palayam EX-02	RHS	Subgrade& RE WALL	PSCHPL/SCP/IE/2020/758	TES/IE/SC/PIL/2020/528	Approved	
37	16	82+900 Aandi Palayam EX-03	RHS	Subgrade& RE WALL	PSCHPL/SCP/IE/2021/937	TES/IE/SC/PIL/2021/626	Approved	
38	16	82+900 Aandi Palayam EX-04	RHS	Subgrade& RE WALL				
39	17	94+400 kundaveli East	LHS	Embankment	PSCHPL/SCP/IE/2019/408	TES/IE/SC/PIL/2019/320	Approved	
40	18	83+000 Vanamadevi	LHS	Embankment	PSCHPL/SCP/IE/2019/397	TES/IE/SC/PIL/2019/314	Approved	
41	19	101+900 Thaluthalai Medu	RHS	Embankment	PSCHPL/SCP/IE/2019/422	TES/IE/SC/PIL/2019/355	Approved	
42	20	110+100 Athipakkam	RHS	Embankment	PSCHPL/SCP/IE/2019/452	TES/IE/SC/PIL/2019/354	Approved	
43	21	103+200 VEmbankmentankudi	LHS	Subgrade& RE WALL	PSCHPL/SCP/IE/2019/463	TES/IE/SC/PIL/2019/362	Approved	
44	21	103+200 VEmbankmentankudi EX-01	LHS	Subgrade& RE WALL	PSCHPL/SCP/IE/2020/717	TES/IE/SC/PIL/2020/504	Approved	
45	21	103+200 VEmbankmentankudi EX-02	LHS	Subgrade& RE WALL	PSCHPL/SCP/IE/2020/775	TES/IE/SC/PIL/2020/538	Approved	
46	22	97+300 Muthuservamadam	RHS	Embankment	PSCHPL/SCP/IE/2019/447	TES/IE/SC/PIL/2019/349	Approved	
47	23	80+500 Kandiyankuppam	RHS	Embankment&Subgrade	PSCHPL/SCP/IE/2019/561	TES/IE/SC/PIL/2019/418	Approved	
48	23	80+500 Kandiyankuppam EX - 01	RHS	Embankment&Subgrade	PSCHPL/SCP/IE/2020/626	TES/IE/SC/PIL/2020/452	Approved	
49	23	80+500 Kandiyankuppam EX - 02	RHS	Embankment&Subgrade	PSCHPL/SCP/IE/2021/812	TES/IE/SC/PIL/2021/555	Approved	
50	23	80+500 Kandiyankuppam EX - 03	RHS	Embankment	PSCHPL/SCP/IE/2021/845	TES/IE/SC/PIL/2021/576	Approved	
51	24	106+900 Karaikuruchi	RHS	Embankment	PSCHPL/SCP/IE/2020/636	TES/IE/SC/PIL/2020/453	Approved	
52	24	106+900 Karaikuruchi EX - 01	RHS	Subgrade	PSCHPL/SCP/IE/2020/691	TES/IE/SC/PIL/2020/491	Approved	
53	24	106+900 Karaikuruchi EX - 02	RHS	Subgrade	PSCHPL/SCP/IE/2021/961	TES/IE/SC/PIL/2021/632	Approved	
54	25	90+500 RHS (IDAIPALLAM)	LHS	Embankment	PSCHPL/SCP/IE/2020/637	TES/IE/SC/PIL/2020/454	Approved	
55	25	90+500 RHS (IDAIPALLAM) EX-01	RHS	Embankment&Subgrade	PSCHPL/SCP/IE/2020/640	TES/IE/SC/PIL/2020/469	Approved	
56	26	98+900 LHS (kommedu)	RHS	Embankment&Subgrade	PSCHPL/SCP/IE/2020/661	TES/IE/SC/PIL/2020/472	Approved	
57	27	91+400RHS (pappakudi)	RHS	Embankment	PSCHPL/SCP/IE/2020/657	TES/IE/SC/PIL/2020/471	Approved	
58	28	92+600 RHS Chokalingapuram	RHS	Embankment&Subgrade	PSCHPL/SCP/IE/2020/676	TES/IE/SC/PIL/2020/471	Approved	
59	28	92+600 RHS Chokalingapuram EX-01	RHS	Subgrade	PSCHPL/SCP/IE/2020/838	TES/IE/SC/PIL/2020/568	Approved	
60	29	90+580 RHS Irudhayapuram	RHS	Embankment	PSCHPL/SCP/IE/2020/711	TES/IE/SC/PIL/2020/501	Approved	
61	30	80+500 RHS Keelpathi	RHS	Embankment & Subgrade	PSCHPL/SCP/IE/2020/711	TES/IE/SC/PIL/2020/501	Approved	
62	30	80+500 RHS Keelpathi EX - 1	RHS	Embankment & Subgrade	PSCHPL/SCP/IE/2021/926	TES/IE/SC/PIL/2021/618	Approved	
63	30	80+500 RHS Keelpathi EX - 2	RHS	Embankment & Subgrade	PSCHPL/SCP/IE/2021/927	TES/IE/SC/PIL/2021/619	Approved	
64	31	87+600 RHS Thirukalappur	RHS	Subgrade& RE WALL	PSCHPL/SCP/IE/2020/717	TES/IE/SC/PIL/2020/504	Approved	
65	32	106+300 RHS Keelnatham	RHS	Subgrade& RE WALL	PSCHPL/SCP/IE/2020/725	TES/IE/SC/PIL/2020/505	Approved	
66	33	87+600 RHS Thathur	RHS	Embankment& RE WALL	PSCHPL/SCP/IE/2020/736	TES/IE/SC/PIL/2020/511	Approved	
67	35	115+250 RHS KADAMPANKUDI	RHS	Embankment& RE WALL	PSCHPL/SCP/IE/2020/812			
68	36	Thirukalapur kuppam	RHS	Subgrade & RE WALL	PSCHPL/SCP/IE/2020/838	TES/IE/SC/PIL/2020/569	Approved	

S.NO	B/A NO.	Chainage	Side	Suitable For	Subgrademission Letter No	Approved Letter No	Remark
69	36	Thirukalapur kuppam Ex - 1	RHS	Subgrade & RE WALL	PSCHPL/SCP/IE/2021/887	TES/IE/SC/PIL/2021/598	Approved
70	36	Thirukalapur kuppam Ex - 2	RHS	Subgrade & RE WALL	PSCHPL/SCP/IE/2021/936		Approved
71	37	Manalmedu(109+350)	RHS	Embankment	PSCHPL/SCP/IE/2021/844	TES/IE/SC/PIL/2021/574	Approved
72	38	Melur (98+900)	RHS	Subgrade & RE WALL	PSCHPL/SCP/IE/2021/847	TES/IE/SC/PIL/2021/578	Approved
73	38	Melur (98+900) EX - 1	RHS	Subgrade & RE WALL	PSCHPL/SCP/IE/2021/886	TES/IE/SC/PIL/2021/599	Approved
74	39	Thirukalapur South (87+600)	RHS	Embankment	PSCHPL/SCP/IE/2021/853	TES/IE/SC/PIL/2021/584	Approved
75	40	Kaduvetti (88+750)	RHS	Embankment & RE Wall Median filling	PSCHPL/SCP/IE/2021/954	TES/IE/SC/PIL/2021/631	Approved
1	1	FLYASH Ex-01	LHS	RE WALL	PSCHPL/SCP/IE/2018/122	TES/IE/SC/PIL/2018/101	Approved
2	2	FLYASH EX-02	LHS		PSCHPL/SCP/IE/2019/303	TES/IE/SC/PIL/2019/255	Approved
3	3	FLYASH EX-03	LHS				Approved
4	4	FLYASH EX-04	LHS		PSCHPL/SCP/IE/2019/448	TES/IE/SC/PIL/2019/350	Approved
5	5	FLYASH EX-05	LHS		PSCHPL/SCP/IE/2019/489	TES/IE/SC/PIL/2019/385	Approved
6	6	FLYASH EX-06	LHS		PSCHPL/SCP/IE/2019/518	TES/IE/SC/PIL/2019/400	Approved
7	7	FLYASH EX-07	LHS		PSCHPL/SCP/IE/2019/570	TES/IE/SC/PIL/2019/430	Approved
8	8	FLYASH EX-08	LHS		PSCHPL/SCP/IE/2019/571	TES/IE/SC/PIL/2019/431	Approved
9	9	FLYASH EX-09	LHS		PSCHPL/SCP/IE/2020/728	TES/IE/SC/PIL/2020/512	Approved
10	10	FLYASH EX-10	LHS		PSCHPL/SCP/IE/2020/761	TES/IE/SC/PIL/2020/527	Approved
11	11	FLYASH EX-11	LHS		PSCHPL/SCP/IE/2021/814	TES/IE/SC/PIL/2021/554	Approved
12	12	FLYASH EX-12	LHS		PSCHPL/SCP/IE/2021/828	TES/IE/SC/PIL/2021/558	Approved
13	13	FLYASH EX-13	LHS		PSCHPL/SCP/IE/2021/846	TES/IE/SC/PIL/2021/577	Approved
14	14	FLYASH EX-14	LHS				
15	15	FLYASH EX-15	LHS		PSCHPL/SCP/IE/2021/919	TES/IE/SC/PIL/2021/613	Approved
16	16	FLYASH EX-16	LHS		PSCHPL/SCP/IE/2021/917	TES/IE/SC/PIL/2021/612	Approved
17	17	FLYASH EX-17	LHS		PSCHPL/SCP/IE/2021/949	TES/IE/SC/PIL/2021/629	Approved
18	18	FLYASH EX-18	LHS		PSCHPL/SCP/IE/2021/960	TES/IE/SC/PIL/2021/633	Approved
19	19	FLYASH EX-19	LHS		PSCHPL/SCP/IE/2021/964		

SOURCE APPROVAL SUMMARY

S.No	Item	Source	Submission Letter No	Approved Letter No	Remarks
1	Quality Assurance Plan (QAP)	M/s Patel Infrastructure Ltd	PSCHPL/SCP/IE/2018/019	TES/IE/SC/PIL/2018/034	Approved
2	Cement	M/s Ramco Cements Limited, Chennai.	PSCHPL/SCP/IE/2018/012	TES/IE/SC/PIL/2018/005	Approved
		M/s Dalmia Bharat Cement, Ariyalur	PSCHPL/SCP/IE/2018/009	TES/IE/SC/PIL/2018/006	Approved
		M/s Ultratech	PSCHPL/SCP/IE/2018/090	TES/IE/SC/PIL/2018/060	Approved
		M/s India Cement (Coremenda)	PSCHPL/SCP/IE/2018/063	TES/IE/SC/PIL/2018/040	Approved
		M/s Chettinad Cement, Chennai.	PSCHPL/SCP/IE/2018/009	TES/IE/SC/PIL/2018/052	Approved
		M/s Barathi Cement,	PSCHPL/SCP/IE/2018/154	TES/IE/SC/PIL/2018/128	Approved
		M/s JSW Cement,	PSCHPL/SCP/IE/2018/294	TES/IE/SC/PIL/2018/257	Approved
3	Steel	M/s Jindal Steel & Power Limited, New Delhi.	PSCHPL/SCP/IE/2018/202	TES/IE/SC/PIL/2018/010	Approved
		M/s shyam Steel	PSCHPL/SCP/IE/2018/202	TES/IE/SC/PIL/2018/016	Approved
		M/s Kamachi Industries limited, Chennai.	PSCHPL/SCP/IE/2018/301	TES/IE/SC/PIL/2018/056	Approved
		M/s SAIL	PSCHPL/SCP/IE/2018/202	TES/IE/SC/PIL/2018/173	Approved
		M/s VIZAG STEEL	PSCHPL/SCP/IE/2018/202	TES/IE/SC/PIL/2018/173	Approved
		M/s Tata Steel Limited,	PSCHPL/SCP/IE/2018/202	TES/IE/SC/PIL/2018/173	Approved
		M/s Essar Steel Ltd,	PSCHPL/SCP/IE/2018/202	TES/IE/SC/PIL/2018/173	Approved
		M/s Electrosteel Steels Limited,	PSCHPL/SCP/IE/2018/202	TES/IE/SC/PIL/2018/173	Approved
		M/s Agarwal Foundries pvt Limited,	PSCHPL/SCP/IE/2019/516	TES/IE/SC/PIL/2019/402	Approved
4	HT strands	M/s Usha Martin Limited	PSCHPL/SCP/IE/2018/286	Factory visit Required	
		M/s D.P.Wires Limited	PSCHPL/SCP/IE/2018/045	PSCHPL/SCP/IE/2018/028	Approved
		M/s Kataria industries Pvt Ltd,	PSCHPL/SCP/IE/2018/253	TES/IE/SC/PIL/2018/213	Approved
5	Prestressing Agency	M/s Dynamic Prestressing India Pvt. Ltd	PSCHPL/SCP/IE/2018/059	TES/IE/SC/PIL/2018/037	Approved
6	Mechanical couplers	M/s Unitech couplers India (P) Ltd., Coimbatore.	PSCHPL/SCP/IE/2018/018	TES/IE/SC/PIL/2018/009	Approved
		M/s Splicetek India Pvt Ltd., Mumbai.	PSCHPL/SCP/IE/2018/018	Factory visit Required	
7	Chemical Admixture	M/s Fosroc, Bangalore	PSCHPL/SCP/IE/2018/008	TES/IE/SC/PIL/2018/003	Approved
		M/s Kunal Conchem Pvt.Ltd, Faridabad	PSCHPL/SCP/IE/2018/008	TES/IE/SC/PIL/2018/067	Approved
		M/s Rheoplast Technology Pvt. Ltd, Mumbai	PSCHPL/SCP/IE/2018/008	TES/IE/SC/PIL/2018/066	Approved
		M/s BASF India Limited	PSCHPL/SCP/IE/2018/072	TES/IE/SC/PIL/2018/042	Approved
		M/s Sika India Pvt Ltd,	PSCHPL/SCP/IE/2018/272	TES/IE/SC/PIL/2018/234	Approved
		M/s B&B Specialities India Pvt Ltd,	PSCHPL/SCP/IE/2018/233	TES/IE/SC/PIL/2018/179	Approved
		M/S CAC Pvt Ltd,	PSCHPL/SCP/IE/2018/219	TES/IE/SC/PIL/2018/180	Approved
		M/s CBS Chemicals,	PSCHPL/SCP/IE/2018/293	TES/IE/SC/PIL/2018/256	Approved
8	Curing Compound	M/s Kunal Conchem Pvt.Ltd, Faridabad	PSCHPL/SCP/IE/2018/094	TES/IE/SC/PIL/2018/067	Approved
		M/s CBS Chemicals Pvt.Ltd, Faridabad	PSCHPL/SCP/IE/2019/464	TES/IE/SC/PIL/2019/369	Approved
9	Emulsion	M/s Indian Oil Corporation	PSCHPL/SCP/IE/2018/061	TES/IE/SC/PIL/2018/039	Approved
		M/s IWL India Limited	PSCHPL/SCP/IE/2018/073	TES/IE/SC/PIL/2018/054	Approved
		M/s Hindustan Colas Private Limited	PSCHPL/SCP/IE/2018/062	TES/IE/SC/PIL/2018/035	Approved
		M/s Ooms Polymer Modified Bitumen Pvt Ltd,	PSCHPL/SCP/IE/2018/314	TES/IE/SC/PIL/2018/254	Approved
		M/s Tiki Tar and shell india pvt ltd	PSCHPL/SCP/IE/2020/674	TES/IE/SC/PIL/2020/485	Approved
10	Bitumen	M/s Indian Oil Corporation	PSCHPL/SCP/IE/2018/061	TES/IE/SC/PIL/2018/039	Approved
		M/s Hindustan Colas Private Limited	PSCHPL/SCP/IE/2018/282	TES/IE/SC/PIL/2018/0238	Approved
		M/s IWL India Limited	PSCHPL/SCP/IE/2018/073	TES/IE/SC/PIL/2018/054	Approved
		M/s Tiki Tar industries,	PSCHPL/SCP/IE/2018/250	TES/IE/SC/PIL/2018/0215	Approved
		M/s Ooms Polymer Modified Bitumen Pvt Ltd, (PMB)	PSCHPL/SCP/IE/2021/806	Factory visit Required	
		M/s BITCOL Corporation india Pvt.Ltd	PSCHPL/SCP/IE/2021/920	TES/IE/SC/PIL/2021/611	Approved
		M/s Hincal (HCPL) PMB 70 H10	PSCHPL/SCP/IE/2021/810	TES/IE/SC/PIL/2021/557	Approved
11	Mastic Ashphalt	M/s IWL India Limited	PSCHPL/SCP/IE/2018/073	TES/IE/SC/PIL/2018/053	Approved
12	Micro Silica	M/s Elkem South Asia pvt Ltd,	PSCHPL/SCP/IE/2018/201	TES/IE/SC/PIL/2018/170	Approved
13	Anti Stripping	M/s HCPL & Tiki Tar Pvt Ltd,	PSCHPL/SCP/IE/2019/495	TES/IE/SC/PIL/2019/384	Approved
14	Micro Fine	M/s Suyag Elements India Pvt Ltd	PSCHPL/SCP/IE/2020/614	TES/IE/SC/PIL/2020/449	Approved
15	Expansion Joint	M/s Kantaflex India Pvt Ltd	PSCHPL/SCP/IE/2020/784	TES/IE/SC/PIL/2021/544	Approved
		M/s Sanfield India Ltd	PSCHPL/SCP/IE/2020/781	TES/IE/SC/PIL/2021/543	Approved
		M/s Hercules Structural Systems Pvt Ltd	PSCHPL/SCP/IE/2020/782	TES/IE/SC/PIL/2021/545	Approved
16	Road Marking	M/s Solucio iffrasolutions Pvt	PSCHPL/SCP/IE/2021/894	TES/IE/SC/PIL/2021/607	Approved
17	Metal Beam CrashBarrier	M/s Roadshield Pvt	PSCHPL/SCP/IE/2021/893	TES/IE/SC/PIL/2021/608	Approved
18	TRAFFIC SIGN BOARDS	M/s S.N.I Infrotech Pvt Ltd	PSCHPL/SCP/IE/2020/744	TES/IE/SC/PIL/2020/744	Approved
19	Elastomeric Bearings	M/s Polymer Products Pvt Ltd	PSCHPL/SCP/IE/2020/595	TES/IE/SC/PIL/2020/451	Approved
		M/s Sanfield India Ltd	PSCHPL/SCP/IE/2018/228,168	TES/IE/SC/PIL/2019/205	Approved
		M/s Ammenji Rubber pvt Ltd	PSCHPL/SCP/IE/2018/144	TES/IE/SC/PIL/2018/127	Approved
20	Highway Lighting	M/s PCP Powers pvt Ltd	PSCHPL/SCP/IE/2020/788	TES/IE/SC/PIL/2021/542	Approved
21	Road Studs	M/s 3M Indian Limited	PSCHPL/SCP/IE/2021/987		

7. Weather Report -Meensuritti

DATE	Temperature (°C)		Rainfall in mm	Humidity in %		Remarks
	Max	Min		Max	Min	
01/11/2021	29.70	26.20	20.00	92	62	Rainy
02/11/2021	30.10	26.00	51.00	94	60	Rainy
03/11/2021	30.70	25.50	6.00	96	62	Rainy
04/11/2021	29.10	25.80	4.00	92	52	Rainy
05/11/2021	28.70	26.00	80.00	90	50	Rainy
06/11/2021	28.60	27.00	0.00	91	54	Cloudy
07/11/2021	29.10	26.50	40.00	93	56	Rainy
08/11/2021	28.20	24.50	8.00	96	58	Rainy
09/11/2021	27.80	25.50	109.00	93	62	Rainy
10/11/2021	28.80	23.80	5.00	94	68	Rainy
11/11/2021	28.70	24.00	6.00	90	65	Rainy
12/11/2021	27.90	25.50	0.00	94	60	Sunny
13/11/2021	28.10	26.20	0.00	93	58	Cloudy
14/11/2021	28.20	26.90	18.00	94	57	Rainy
15/11/2021	27.90	26.20	0.00	96	60	Sunny
16/11/2021	28.00	26.40	0.00	94	58	Sunny
17/11/2021	28.20	26.90	0.00	95	60	Sunny
18/11/2021	27.40	24.30	43.00	96	64	Rainy
19/11/2021	28.40	25.10	0.00	93	62	Cloudy
20/11/2021	28.70	26.20	17.00	90	60	Rainy
21/11/2021	28.90	26.60	0.00	89	58	Cloudy
22/11/2021	29.10	26.90	2.00	90	55	Rainy
23/11/2021	29.40	27.50	0.00	96	56	Cloudy
24/11/2021	28.70	26.80	10.00	92	60	Rainy
25/11/2021	27.80	26.20	29.00	92	48	Rainy
26/11/2021	27.40	26.70	51.00	94	47	Rainy
27/11/2021	27.80	24.50	38.00	95	50	Rainy
28/11/2021	27.40	25.00	55.00	93	58	Rainy
29/11/2021	27.70	24.10	3.00	94	57	Rainy
30/11/2021	28.20	26.60	8.00	95	54	Rainy

Weather Report Anakarai

DATE	Temperature (°C)		Rainfall in mm	Humidity in %		Remarks
	Max	Min		Max	Min	
01/11/2021	30.10	26.30	11.00	92	60	Rainy
02/11/2021	29.80	25.80	115.00	93	65	Rainy
03/11/2021	30.50	25.60	6.00	94	59	Rainy
04/11/2021	30.20	25.70	4.00	95	55	Rainy
05/11/2021	29.40	25.90	80.00	94	63	Rainy
06/11/2021	28.70	26.50	0.00	92	43	Cloudy
07/11/2021	29.30	26.40	91.00	93	65	Rainy
08/11/2021	29.00	25.60	3.00	95	54	Rainy
09/11/2021	28.10	25.70	110.00	96	66	Rainy
10/11/2021	28.50	23.40	11.00	96	62	Rainy
11/11/2021	28.90	24.50	7.00	95	60	Rainy
12/11/2021	28.30	25.10	0.00	95	54	Cloudy
13/11/2021	27.80	25.40	30.00	92	57	Rainy
14/11/2021	28.60	25.70	2.00	93	59	Rainy
15/11/2021	28.30	25.80	12.00	96	61	Rainy
16/11/2021	28.40	26.20	0.00	92	57	Rainy
17/11/2021	28.00	26.40	62.00	93	64	Rainy
18/11/2021	28.60	25.00	7.00	94	56	Rainy
19/11/2021	28.10	24.80	0.00	92	55	Cloudy
20/11/2021	28.30	25.90	7.00	93	62	Rainy
21/11/2021	28.40	25.20	13.00	94	63	Rainy
22/11/2021	30.00	25.90	17.00	93	61	Rainy
23/11/2021	29.70	27.10	0.00	95	57	Cloudy
24/11/2021	28.60	26.50	17.00	96	58	Rainy
25/11/2021	28.70	25.40	25.00	95	63	Rainy
26/11/2021	28.40	25.80	77.00	96	65	Rainy
27/11/2021	28.60	24.60	41.00	93	66	Rainy
28/11/2021	28.40	24.80	53.00	92	61	Rainy
29/11/2021	27.40	24.60	2.00	93	57	Rainy
30/11/2021	28.10	28.30	10.00	92	58	Rainy

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- Various issues related to environment and safety, such as traffic management, safety signage, disposal of waste materials and oil spillage, housekeeping, area barricading and traffic management, etc, are being taken care of during the execution of the project.
- Periodic Safety meetings being conducted on a regular basis and the details of the photographs for the same along with action taken are as below.

9. Support required from NHAI

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

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

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

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

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

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

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

Sl. No.	Chainage	Distance from PCL	Remarks/Action to be taken	Present Status
1	68+644 (02 Nos)	-	To be shifted to edge of PROW	Estimate pending with EE PWD Chidambaram
2	81+850	9.3m	To be shifted to edge of PROW	Deposit Amount remitted to PWD/WRO. Work yet to be commenced.
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	Estimate received from BDO. Approval pending with Authority

13. Removal of Religious structures of 16 Nos. and Bus stand from the proposed ROW.

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

14. Removal of Government Buildings like VAO office, School, Post Office & Ration Shop etc.

15. Removal of unauthorized occupations in 38 nos. in Cuddalore dist. & 32 nos. in Ariyalur dist. in the project highways.

16. 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.

17. Revised Estimates for Electrical Shifting due to non-available of vertical clearance – Request Authority for earlier Approval.

18. Estimate for shifting of water supply utilities in Missing locations-Request Authority for earlier Approval.

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

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

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

Further, vide our letter no. 16 dated 08.05.2020 & 19 dated 20.05.2020 we informed that Government of Tamilnadu had instructed to continue to enforce all the existing restrictions issued by MHA order dated 24.03.2020 during extended lock down period i.e. up to 31.05.2020. After that, a notification issued by Revenue and Disaster Management (D-II) Department, Govt. of Tamilnadu bearing no. 203 dated 23.04.2020 vide which it is informed that resumption of construction of road & bridge project can be done with taking all precaution as per Standard Operating Procedure (SOPs) for social distancing and obtain permission from District Administration.

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

spreading of coronavirus, our workers and labours are putting their voice/desire for roaming to their home town. Based on prevailing situation and circumstances thereto & on human ground we could not restrict them from going to their home town and many migrant labours/staffs have registered their name for the movement to their home town.

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

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

In addition to that due to surge of cases of COVID-19 in State of Tamilndau, Government of these states has given instruction to compulsory quarantine period of 14 days for passenger/people who are coming in the state from another state.

Thus, Concessionaire started construction activities in Project Highway after getting permission from District Administration as well as tried to get momentum of the Progress of work as like they have on 20.03.2020 but they are facing lots of challenges like non-availability of desired nos. of skilled labours, non-availability of desired staff for operation of our machineries, non-availability of spare parts in local market due to disturbance of supply chain, due to enforcement of 14 days Quarantine as per Govt. norms labours are also not willing to come back to work considering upcoming Monsoon season, etc. which are beyond the control of Concessionaire.

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

21. The second wave of COVID-19 in India appears to be ascending faster than the first wave that peaked in mid-September last year Nevertheless, India is already leading the world in terms of average daily cases detected and registers the third-highest average daily deaths. The whole country is facing big difficulties and struggling for the survival of human life. The impact of this event is an extremely painful and great loss to the nation. Looking to such an uncontrolled situation, Supreme Court intervened on 22.04.2021 and asked for the national plan for COVID-19 with the central Government and took own cognizance of what it called a national health emergency situation. The Health System has been collapsed due to the severe scarcity of oxygen. The spread of Coronavirus cases in Tamil Nadu right now is so fast, that it took only half the duration to overtake the daily infection peak number reported in the first wave.

Due to many restrictions in persisting conditions arise due to occurring of 2nd wave of Extra ordinary event COVID-19, the supply chain of required material is being disturbed and not in smooth shape which leads to hampering the work progress during this valuable working season. Due to surge in cases of 2nd wave of COVID-19 drastically day by day and additional lockdown like restriction imposing by State Government, migrants labours are leaving the state and going to their native place under the fear of prevailing situation. Further migrants labours who were gone their home at Holi Festival are not returning back due to fear and precarious situation of the spike of COVID-19 pandemic. Due to this condition, we are facing acute

shortage of labour/operator/driver for the construction activities in Project Highway and work is being affected because of the impediments beyond the control of the Concessionaire. It is also pertaining to mention that despite taking all necessary precaution and follow the safety guidelines of COVID-19, unfortunately, our many manpower including senior-level deployed at in Project i.e. Sethiyahopu- Cholapuram Section have been infected by COVID-19 and our both base camp (i.e. Meensuruti Base Camp & Anakarai Base Camp) have been sealed by the Block Medical officer, Govt. Community Health Center, Ariyalur despite that incident was beyond our control.

10. Important Events

Table 10.1. Details of Important Events

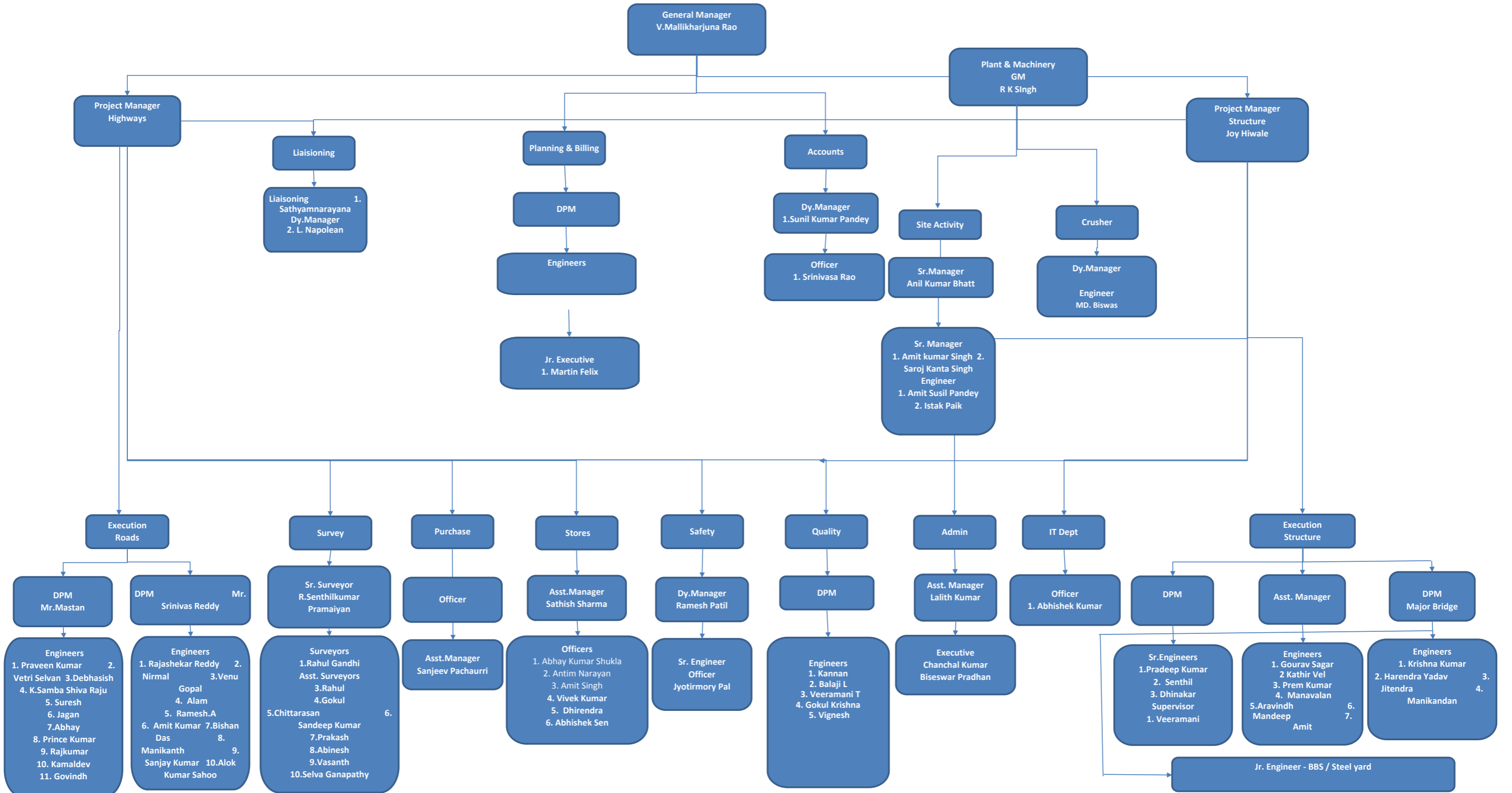
Sl. No	Date of Events	Description of Events	Remarks
1.	24.11.2021	Joint Advisor plantation Site Inspection	

11. Organization Chart

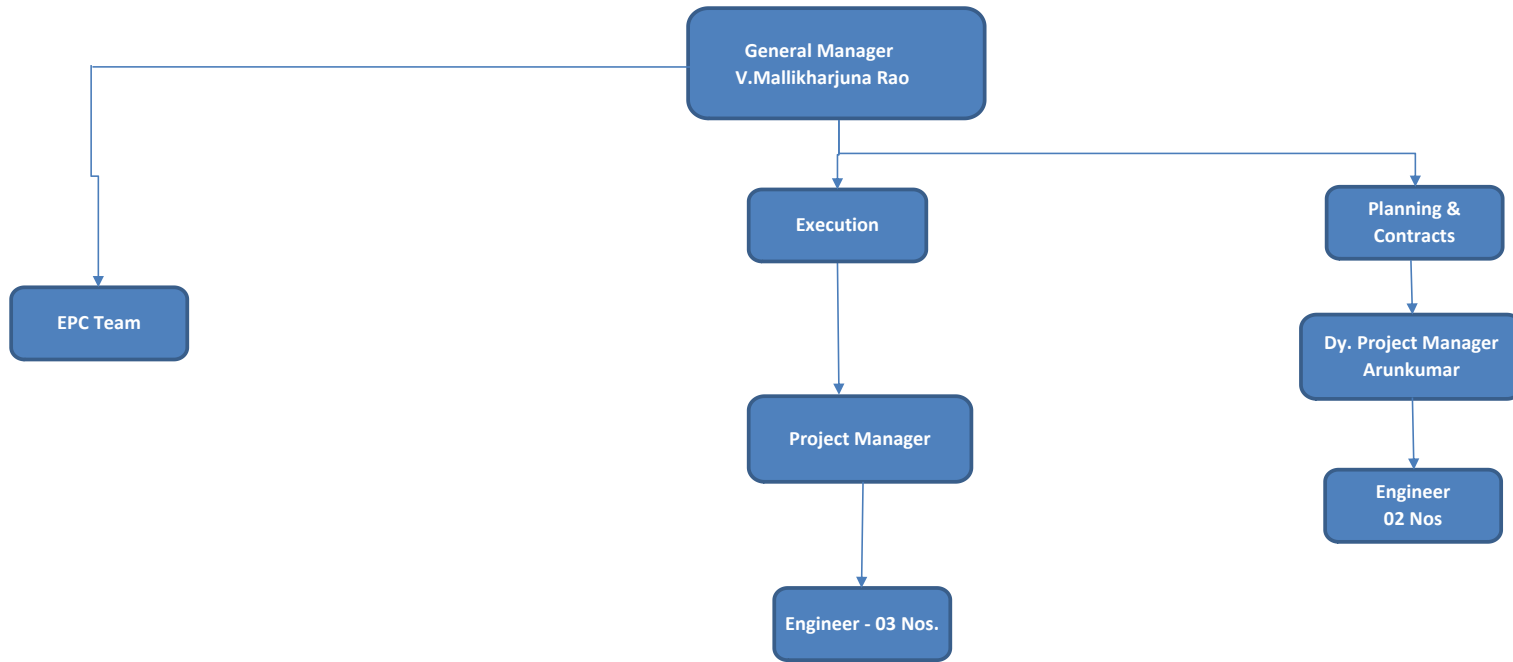
The following figures represents the organization structure of the EPC and SPV Team.

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

ORGANIZATION CHART - EPC TEAM



ORGANIZATION CHART - SPV TEAM



12. List of Plants, Machinery and Equipment's

Table 12.1 - List of Plants, Machinery and Equipment's

S.No.	Name of the Machinery	Capacity / Model	Mobilized in Nos.	Remarks
1	Grader	120K2	9	
2	Excavator	JCB-220	13	
3	Dozer		4	
4	Soil Compactor	HAMM 311	8	
5	Backhoe Loader	JCB 3DX	8	
6	Tipper	Bharat Benz- 3128C	310	
7	Transit Mixture	2523C	12	
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	2	
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	2	
20	Genset 63KVA Boiler	63KVA Boiler	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	Both are in operation.

26	Launching Girder		2	Both are in operation.
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13. Change of Scope Proposals

Table 13.1 - Status of Change of Scope Proposals

Sl. No	Proposal Details	Date of Proposal	Current Status	COS Amount	Actual Date of Approval
1	Replacement of Pipe Culverts with Box Culverts	23.03.2018	Approved	3.21 Cr	21.02.2020
2	Strengthening/up grade the incident Management Service	10.05.2019	Required COS notice for Strengthening/upgrade the incident Management Service.	NA	NA
3	Comprehensive -COS 02	20.08.2018	Approved	(-) 4.69 Cr	23.06.2021

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

Four laning of Sethiyahopu to Cholapuram from Km 65+960 to 116+440 section of NH-45C in the state of Tamilnadu under NHDP-IV on Hybrid Annuity Mode.

TABLE 14.1 - CORRESPONDANCE - CONCESSIONAIRE TO NHAI

S.No	Date	Letter No	Subject	Remarks
1	02.11.2021	PSCHPL/SCP/NHAI/2021/1001	RA Bill-12 Shifting of Water Supply utilities as per CI 11.2.1 of Concession Agreement	
2	20.11.2021	PSCHPL/SCP/NHAI/2021/1004	Submission of Unaudited Quarterly financial report	
3	23.11.2021	PSCHPL/SCP/NHAI/2021/1013	Submission of revised SOP-Lifting of pond ash for road works-Safe handling of pond ash to comply environmental regulations and maintaining shift break-in timing- non adherence- Stoppage of trucks	
4	25.11.2021	PSCHPL/SCP/NHAI/2021/1014	Notice for Change in Law on account of implementation of GST Act 2017	
5	25.11.2021	PSCHPL/SCP/NHAI/2021/1015	Construction of Service road/Slip road Works hampered due to existance of Hindrance & insufficient ROW	

Four laning of Sethiyahopu to Cholapuram from Km 65+960 to 116+440 section of NH-45C in the state of Tamilnadu under NHDP-IV on Hybrid Annuity Mode.

TABLE 14.2 - CORRESPONDANCE - NHAI TO CONCESSIONAIRE

S.No	Date	Letter No	Subject	Remarks
1	02.11.2021	NHAI/PIU/Thanj/11025/09/2018/2754	Shifting of Water supply utilities	
2	06.11.2021	NHAI/PIU/Thanj/11025/03/2018/2773	Non acquired lands have been utilized by the concessionaire Complaints made-report called for	
3	06.11.2021	NHAI/PIU/Thanj/11025/11/2018/2775	Submission of Unaudited Quarterly financial report	
4	08.11.2021	NHAI/PIU/Thanj/11025/03/2018/2793	Vanamadevi Village of kattumannarkoil taluk -representation	
5	09.11.2021	NHAI/PIU/Thanj/11017/02/2009/2810	Installation of HT Survey No 63/6C4 of Sethiyathope village Objections made	
6	09.11.2021	NHAI/PIU/Thanj/11019/47/2017/2822	North - East Monsoon in Tamil Nadu - Heavy Rains at some Place - Preparedness by the concessionaires/Contractors/O&M Agencies to meet any eventuality and also to ensure Proper Maintenance of the road	
7	11.11.2021	NHAI/PIU/Thanj/11023/02/2012/2846	Pending project finalization -Instruction issued -Communicated	
8	11.11.2021	NHAI/PIU/Thanj/11099/05/2014/2854	Information sought for under Right to Information Act' 2005 by Sh. P.Vishnu Manoharan - Report called for	
9	12.11.2021	NHAI/PIU/Thanj/11025/17/2018/2863	Construction activities hampered due to stopage of Transportation of Pond Ash from neyveli Lignite corporation India limited	
10	12.11.2021	NHAI/PIU/Thanj/11025/17/2018/2864	Construction activities hampered due to stopage of Transportation of Pond Ash from neyveli Lignite corporation India limited	
11	13.11.2021	NHAI/PIU/Thanj/11019/03/2008/2884	Change the Bus Shelter Proposed at Pudaiyur Village	
12	16.11.2021	NHAI/PIU/Thanj/11025/17/2018/2902	Construction activities hampered due to stopage of Transportation of Pond Ash from neyveli Lignite corporation India limited-Permission requested	
13	18.11.2021	NHAI/PIU/Thanj/11019/03/2008/2932	Ariyalur District -Udayarpalayam Taluk -Vinayagan koil Street -Provision of Service road requested	
14	18.11.2021	NHAI/PIU/Thanj/11019/03/2008/2935	Acquisition of land-Pudaiyur Village of Srimushnam Taluk in Cuddalore District - Provision of Service Road requested-	
15	20.11.2021	NHAI/PIU/Thanj/11019/03/2009/2944	Survey No 1/12 and 1/13 -Anaiwari village of kattumannarkoil taluk in Cuddalore District -Sh.Renganathan S/O Chinnamani -No Objection certificate requested	
16	20.11.2021	NHAI/PIU/Thanj/11019/22/2011/2946	Additional land acquisition for Insufficient Right of Way-requested by the Concessionaire -Preparation and submission of Land Plan Schedule -requested	
17	22.11.2021	NHAI/PIU/Thanj/11025/03/2018/2953	Request to provide passage at Cholatharam Village	
18	24.11.2021	NHAI/PIU/Thanj/11025/17/2018/2982	Construction activities hampered due to stopage of Transportation of Pond Ash from neyveli Lignite corporation India limited-Submission of revised SOP	

Four laning of Sethiyahopu to Cholapuram from Km 65+960 to 116+440 section of NH-45C in the state of Tamilnadu under NHDP-IV on Hybrid Annuity Mode.

TABLE 14.3 - CORRESPONDANCE - CONCESSIONAIRE TO INDEPENDENT ENGINEER

S.No	Date	Letter No	Subject	Remarks
1	02.11.2021	PSCHPL/SCP/IE/2021/1000	Submission of Monthly Progress Report for the month of October 2021	
2	20.11.2021	PSCHPL/SCP/IE/2021/1005	Soil test reports for the proposed borrow area of the project BA 07 (Ex 04)	
3	21.11.2021	PSCHPL/SCP/IE/2021/1006	Shifting of existing irrigation Sluices at Km 81/850, Km 82/100, Km 81/870, Km 81/910, Km 82/010	
4	22.11.2021	PSCHPL/SCP/IE/2021/1007	Unprecedented/Unseasonal Heavy rainfall over the project Alignment-Notice for the occurrence of Force majeure-Non Political event under Article 28.2, Article 28.5 of the concession Agreement	
5	22.11.2021	PSCHPL/SCP/IE/2021/1008	Compliance report-NCR 05-Kerb laying	
6	22.11.2021	PSCHPL/SCP/IE/2021/1009	Compliance report-NCR 08-Improper laying of Kerb	
7	22.11.2021	PSCHPL/SCP/IE/2021/1010	Compliance report-NCR 09-Improper laying of Kerb	
8	22.11.2021	PSCHPL/SCP/IE/2021/1011	Compliance report-NCR 10-Improper laying of Kerb	
9	22.11.2021	PSCHPL/SCP/IE/2021/1012	Compliance report-NCR 12-Improper laying of Kerb	

Four laning of Sethiyahopu to Cholapuram from Km 65+960 to 116+440 section of NH-45C in the state of Tamilnadu under NHDP-IV on Hybrid Annuity Mode.

TABLE 14.4 - CORRESPONDANCE - INDEPENDENT ENGINEER TO CONCESSIONAIRE / NHAI

S.No	Date	Letter No	Subject	Remarks
1	09.11.2021	TES/IE/SC/ATH/2021/297	Shifting of existing drainage inlet sluices at Km 81.850, 82.100, 81.870, 81.910 & 82.010 –Estimate Submission – Remarks called for – Observations – Reg.	
2	10.11.2021	TES/IE/SC/ATH/2021/300	Shifting of Water Supply Utilities- Reg.	
3	11.11.2021	TES/IE/SC/PIL/2021/639	Shifting of existing drainage inlet sluices	
4	11.11.2021	TES/IE/SC/PIL/2021/640	Damages in the Existing Road - Reg	
5	12.11.2021	TES/IE/SC/ATH/2021/301	Minutes of Video Conference meetings conducted by the Advisor (Plantation & Clearance), GHD, NHAI – HQ on 02.11.2021	
6	12.11.2021	TES/IE/SC/PIL/2021/641	Site observations – Reg	
7	16.11.2021	TES/IE/SC/PIL/2021/642	Procurement of Road Studs & Delineators from Ms 3M India Limited - Reg	
8	17.11.2021	TES/IE/SC/PIL/2021/643	Repair and strengthening of existing minor Bridges - Requested Joint inspection to conduct condition survey of existing minor bridges – Reg	
9	20.11.2021	TES/IE/SC/ATH/2021/302	Vanamadevi village of kattumannarkoil taluk-Representation	
10	20.11.2021	TES/IE/SC/ATH/2021/303	Request to provide irrigation pipeline at manippallam village	
11	20.11.2021	TES/IE/SC/ATH/2021/304	IE Inspection report for the month of October 2021	
12	23.11.2021	TES/IE/SC/PIL/2021/644	Site observations Plantation	
13	24.11.2021	TES/IE/SC/ATH/2021/305	Shifting of existing irrigation Sluices at Km 81/850, Km 82/100, Km 81/870, Km 81/910, Km 82/010-Estimate requested for construction of box culvert (3m x 2.35m) with 3 vents at km 81.960	
14	25.11.2021	TES/IE/SC/ATH/2021/306	Construction activities hampered at Vattathur village	
15	26.11.2021	TES/IE/SC/ATH/2021/307	Acquisition of land-Pudaiyur Village of Srimushnam Taluk in Cuddalore District -Provision of Service road requested	

15. Progress Photographs

Sl.No	Description	Location	Side
1	CTSB Laying work in Progress	112+300	LHS



Sl.No	Description	Location	Side
2	WMM Laying work in Progress	71+570	LHS
3	WMM Laying work in Progress	112+100	LHS



Sl.No	Description	Location	Side
4	DBM Laying work in Progress	71+590	LHS
5	DBM Laying work in Progress	71+550	RHS



Sl.No	Description	Location	Side
6	BC Laying work in Progress	67+490	LHS
7	BC Laying work in Progress	81+120	LHS



Sl.No	Description	Location	Side
8	Box Segment Launching work in Progress	107+400	LHS



Sl.No	Description	Location	Side
9	MBCB Installation work in progress	94+100	CEN
10	MBCB Installation work in progress	104+900	



Sl.No	Description	Location	Side
11	Fixing of Road Signs Work in progress	84+000 to 84+300	LHS

