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

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

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
FEBRUARY 2022

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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.

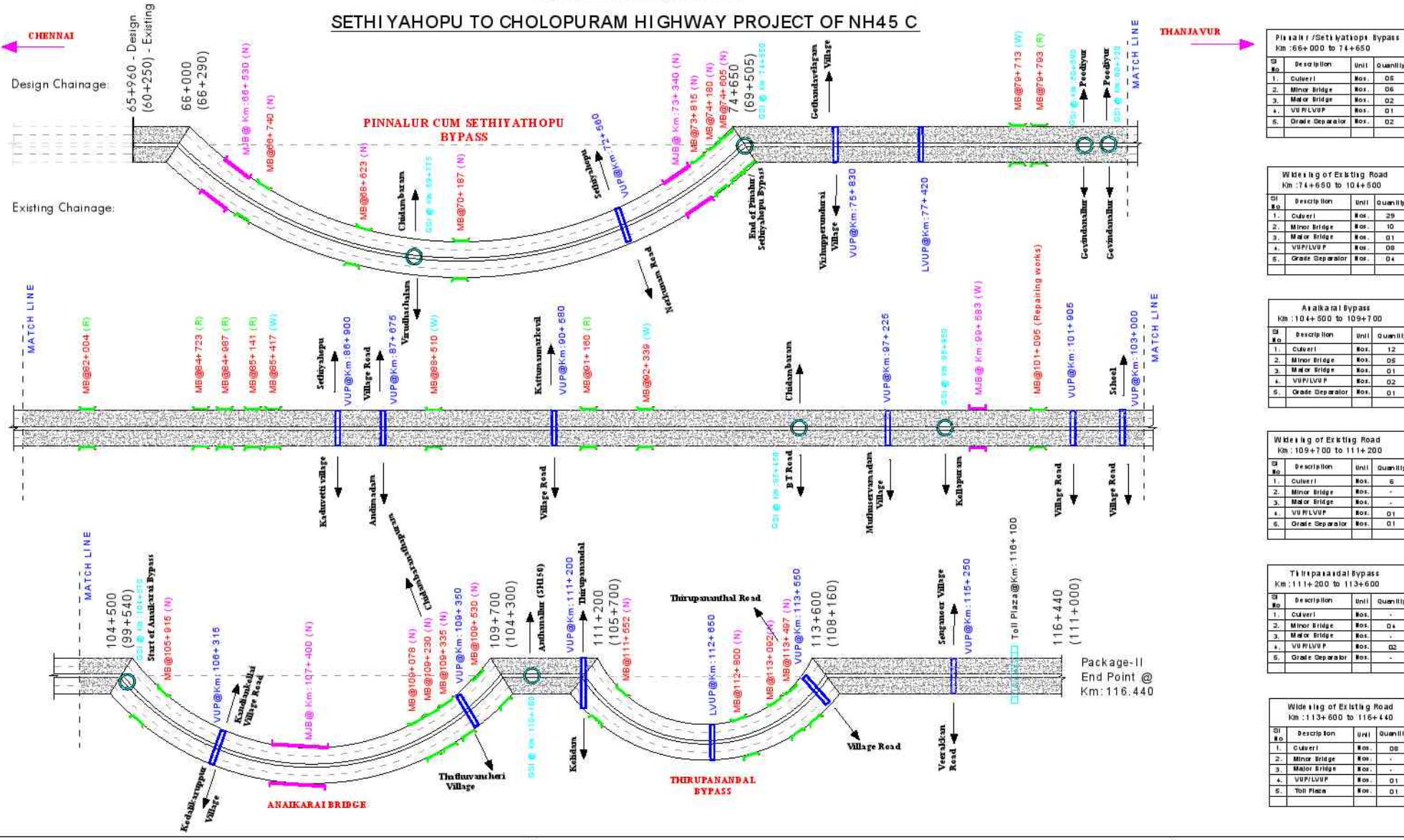
The Sethiyahopu to Cholopuram section of NH-45C is an important link to connect Metropolitan city of Chennai to religious and tourist places of Cholapuram, Thanjavur, kumbakonam, Puducherry. The project is also expected to provide improved connectivity to other religious places & other major cities like 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



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

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

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

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

Anaikarai Bypass
Km :104+500 to 109+700

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

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

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

Thirupanandal Bypass
Km :111+200 to 113+600

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

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

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

LEGENT:

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

Salient Features of Project:

Sl No	Description	Unit	Scope
1.	Total Length of Project	Km	50.480
2.	Length of Widening Portion	Km	34.230
3.	Length of Bypass	Km	16.250
4.	Length of service /Slip Road	Km	27.100
5.	Culverts		
	Box Culvert	Nos.	53
	Slab Culvert	Nos.	07
6.	Minor Bridge	Nos.	25
7.	Major Bridge	Nos.	04
8.	VUP/LVUP	Nos.	15
9.	Grade Separated Structure	Nos.	08
10.	Toll Plaza	Nos.	01
11.	Minor Intersection	Nos.	100
12.	Major Intersection	Nos.	07
13.	Bus Bays and Shelters	Nos.	09

Drawing Title

Strip Plan - Sethiyahopu to Cholopuram Highway Project

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

Figure 1: Project Location Map

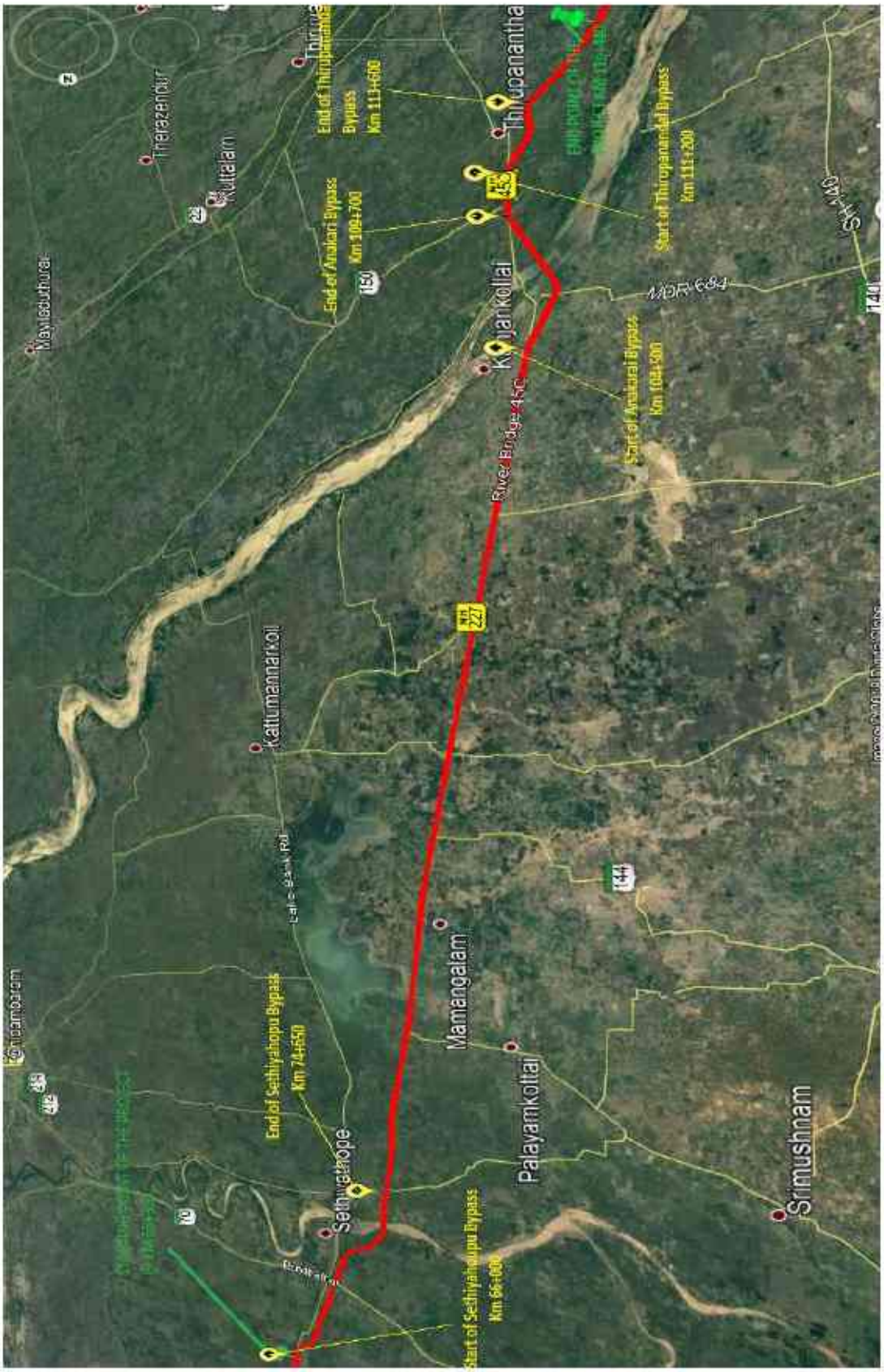


Table - 1.1: Details of Project Alignments

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, Ist 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 214th day from the Appointed Date.	18th 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 334th day from the Appointed Date.	16th 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 584th day from the Appointed Date.	22nd March 2020
Scheduled Completion	Concessionaire shall have completed Project on 730th day from the Appointed Date.	15th 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.

The Competent Authority has communicated extension of time approval for 105 days.

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.)	59.991%	
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.

Table 2.1-1: Details of proposed ROW as per Schedule-A

	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		

Balance Right of way (width)				
	Design Chainage (Km)	Design Length (Km)	Width (m)	Within 90(Ninety) days of the Appointed date
Stretch	099.700 to 104.500	4.800	15.00	
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.

Table 2.1-2: Status of Land Acquisition as per Site Condition.

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	6.130	
2.	Hindrance due to Electrical Lines	Km		
3.	Hindrance due to Rural Water Supply lines	Km		
4.	Net Hindered Length (both Side)	Km		
C)	Total Project Length (both Side)	Km	50.48	
D)	% Hindered Length	%	12.14%	

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)	Non workable length as on 28.02.2022 (km)	Side	Reason	Remarks
	From	To					
1	72.350	73.180	0.830	0.830	BHS	Removal of Structures	
2	75.520	76.150	0.630	0.630	BHS	Removal of Structures	
3	80.100	81.150	1.050	1.050	BHS	Removal of Structures	
4	87.360	87.990	0.630	0.630	BHS	Removal of Structures	
5	95.035	95.865	0.830	0.830	BHS	Removal of Structures	
6	98.500	99.400	0.900	0.900	BHS	Removal of Structures	
7	101.590	102.225	0.635	0.635	BHS	Removal of Structures	
8	113.225	113.850	0.625	0.625	BHS	Pending Disbursement of Compensation	
Total in Kms				6.130			

The 6.130 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

Table 2.2-1: Status of Removal of Religious structures

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.

Table 2.3-1: Status of sanction of Estimates - Relocation of RWS Pipe line

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	

Table 2.3-2: Status of sanction of Estimates - Electrical Lines Relocation

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

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

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

Table 2.3-3: Status of Utility Relocation

Sl. No.	Authority	Description	Unit	Total Length/ Nos.	Work done	Balance	Remarks
1	BDO & EE,TWAD	Water Supply Pipe Line	Kms.	72.695	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

Table 2.4-1: Status of Tree felling

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

3. Progress Briefing – Contractor Activities

3.1. Pre-construction Activities

Detailed Design & Drawings

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

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

Sl No.	Description	Unit	Total Scope As per Sch. B	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 February 2022 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	31.890	0.240	32.130	1.100	15.150	67.96%
	RHS	47.28	31.390	0.290	31.680	1.200	15.600	67.01%
3	Subgrade							
	LHS	47.28	31.745	0.210	31.955	0.175	15.325	67.59%
	RHS	47.28	31.165	0.270	31.435	0.245	15.845	66.49%
4	GSB/ Cement Treated Base							
	LHS	47.28	29.935	0.330	30.265	0.100	17.015	64.01%
	RHS	47.28	30.035	0.330	30.365	0.100	16.915	64.22%
5	Wet Mix Macadam							
	LHS	47.28	29.585	0.380	29.965	0	17.315	63.38%
	RHS	47.28	29.545	0.200	29.745	0	17.535	62.91%
6	Dense Bitumen Macadam							
	LHS	47.28	28.785	0.270	29.055	0	18.225	61.45%
	RHS	47.28	29.155	0.190	29.345	0	17.935	62.07%
7	Bituminous Concrete							
	LHS	47.28	28.525	0.000	28.525	0	18.755	60.33%
	RHS	47.28	28.765	0.190	28.955	0	18.325	61.24%

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	28.090	0.830	28.920	2.970	24.270	54.37%
2	Sub grade	53.19	25.360	0.990	26.350	2.570	26.840	49.54%
3	GSB/ Cement Treated Base	53.19	24.460	0.670	25.130	0.100	28.060	47.25%
4	Wet Mix Macadam	53.19	22.910	1.210	24.120	0	29.070	45.35%
5	Dense Bitumen Macadam	53.19	22.670	0.830	23.500	0	29.690	44.18%
6	Bituminous Concrete	53.19	17.520	1.420	18.940	0	34.250	35.61%

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	45.75	9.25	5
2	Light Vehicular Underpass	2	1	0	1
3	Vehicular Underpass	13	8.00	5.00	0
4	Minor Bridges	25	21.00	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 February 2022 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	Remarks
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%	44.950	6.389%	
	(2) Granular work (sub-base, base, shoulders)						
	(a) GSB/ Cement Treated Base	Km	65.52	3.373%	44.810	2.307%	
	(b) WMM/ Cement Treated Base	Km	65.52	4.046%	44.370	2.740%	
	(3) Shoulders	Km	17.65	0.112%	16.625	0.106%	
	(4) Bituminous work						
	(a) DBM	Km	65.52	3.344%	44.050	2.248%	
	(b) BC	Km	65.52	3.023%	43.200	1.993%	
	(5) Rigid Pavement						
	(6) Widening and repair of culverts	Nos	16	0.440%	11.65	0.320%	
	(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%	11.210	0.051%	
	(4) Bituminous work						
	(a) DBM	Km	28.68	1.279%	14.350	0.640%	
	(b) BC	Km	28.68	1.158%	14.280	0.577%	
	(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						
(a) Foundation	Nos	58	3.953%	54.00	3.680%	
(b) Substructure	Nos	134	2.623%	106.00	2.075%	
(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%	50.00	2.298%	
(ii) Substructure	Nos	60	0.751%	50.00	0.626%	
(iii) Superstructure (including crash barrier etc. complete)	Nos	30	1.289%	18.00	0.773%	
(b) Overpass						
(i) Foundation						
(ii) Substructure						
(iii) Superstructure (including crash barrier etc. complete)						
(c) Flyover						
(i) Foundation	Nos	36	2.426%	30.00	2.021%	
(ii) Substructure	Nos	36	0.470%	30.00	0.392%	
(iii) Superstructure (including crash barrier etc. complete)	Nos	20	1.244%	14.00	0.871%	

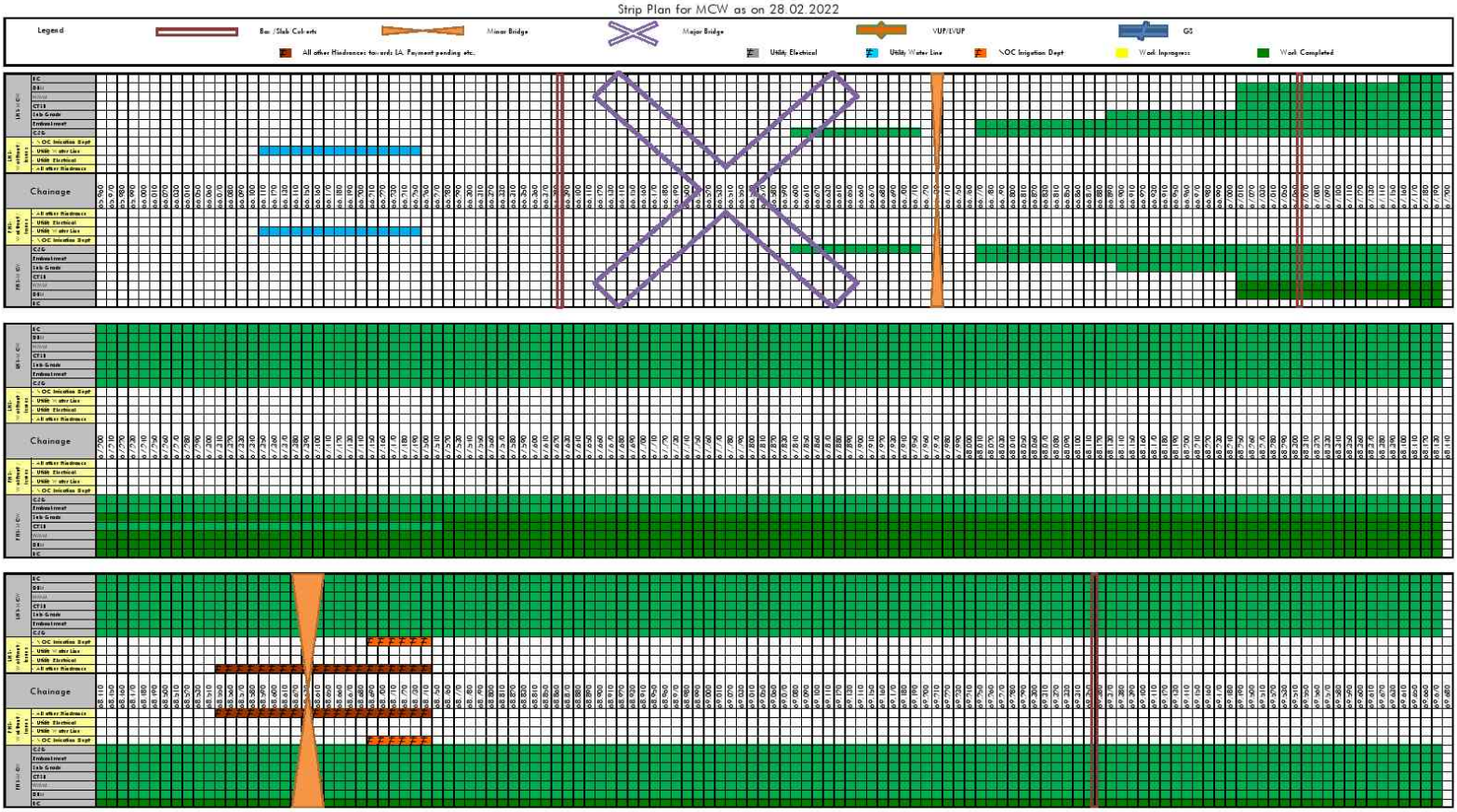
	(d) Foot over Bridge						
Major Bridge works and ROB/RUB	A- Widening and repairs of Major Bridges						
	(1) Foundation						
	(a) Open Foundation						
	(b) Pile Foundation/ Well Foundation						
	(2) Sub-structure						
	(3) Super-structure (including crash barriers etc. complete)						
	C- New Major 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%	622.00	1.354%	
	(b) Erection of Superstructure (Box Segment)	Nos	666	1.050%	163.00	0.257%	
	(i) For other Major Bridges						
	(a) Super-structure (including crash barriers etc. complete)	Nos	37	2.500%	5.10	0.345%	
	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%	39,571	1.535%	Only RE Block Erection Quantity is considered
Other Works	(i) Service roads/ Slip Roads	Km	53.19	4.690%	18.940	1.670%	
	(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%	56.690	1.437%	
	(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%	4.000	0.002%	
	(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%		59.991%	

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 as on 28.02.2022



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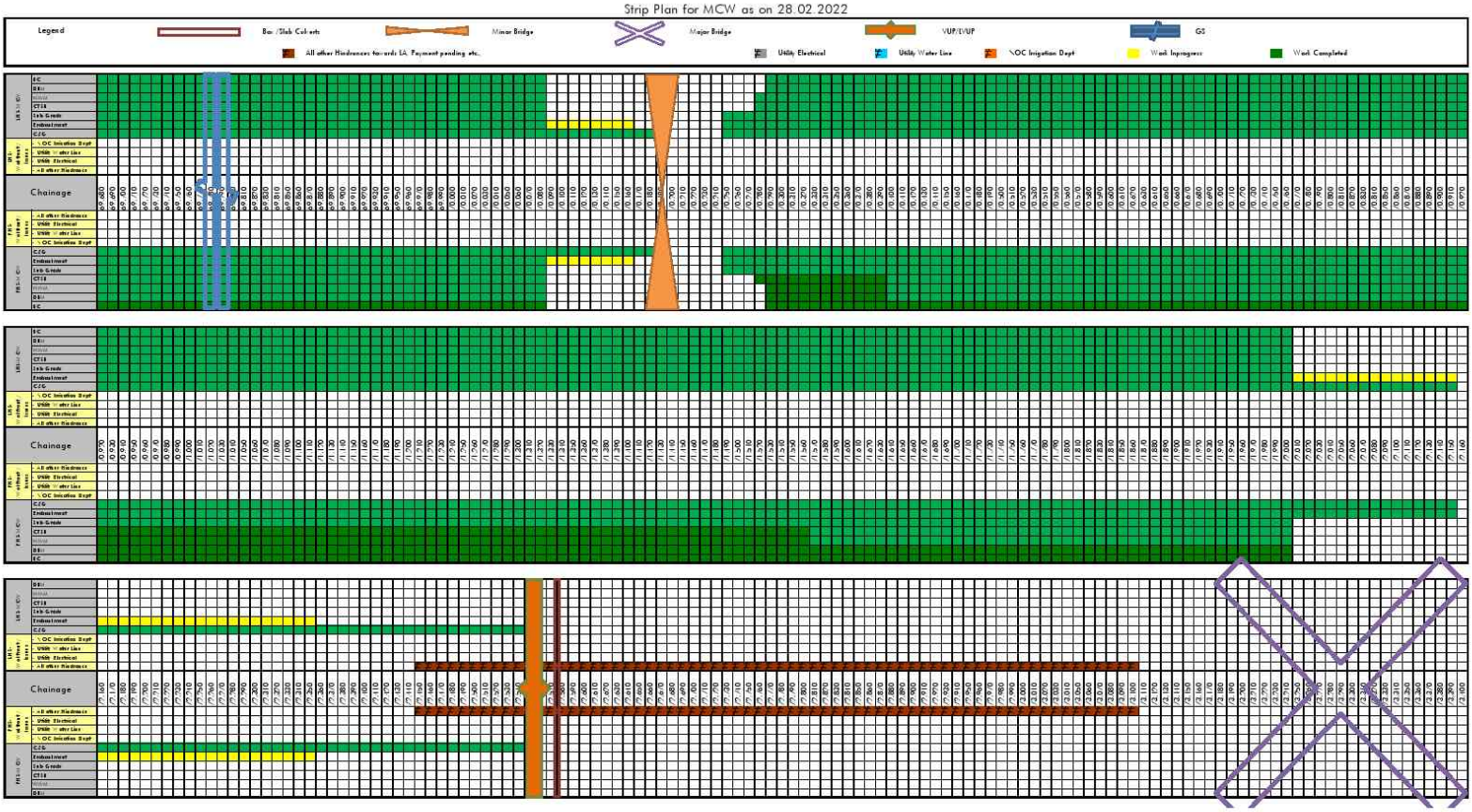

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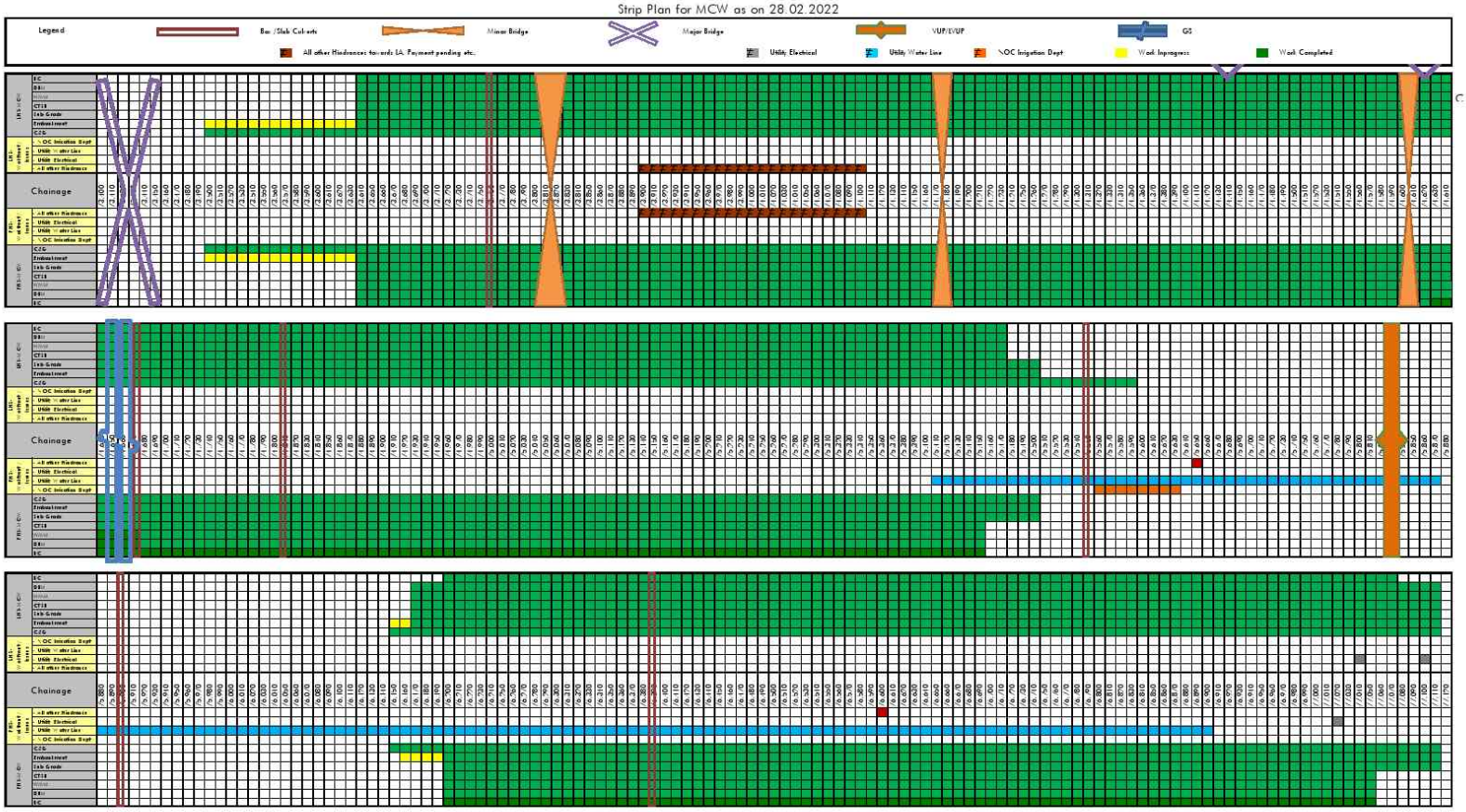

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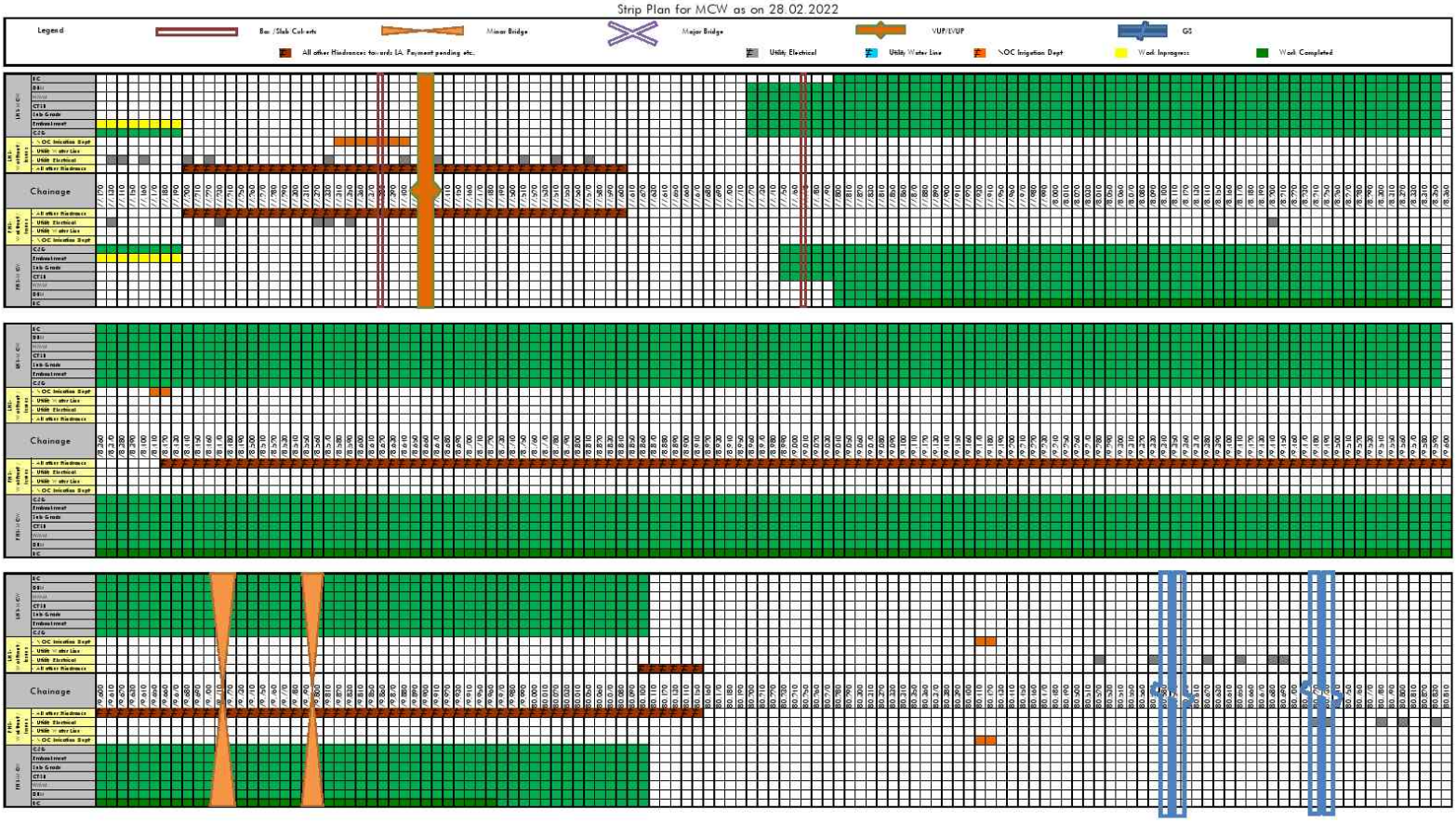

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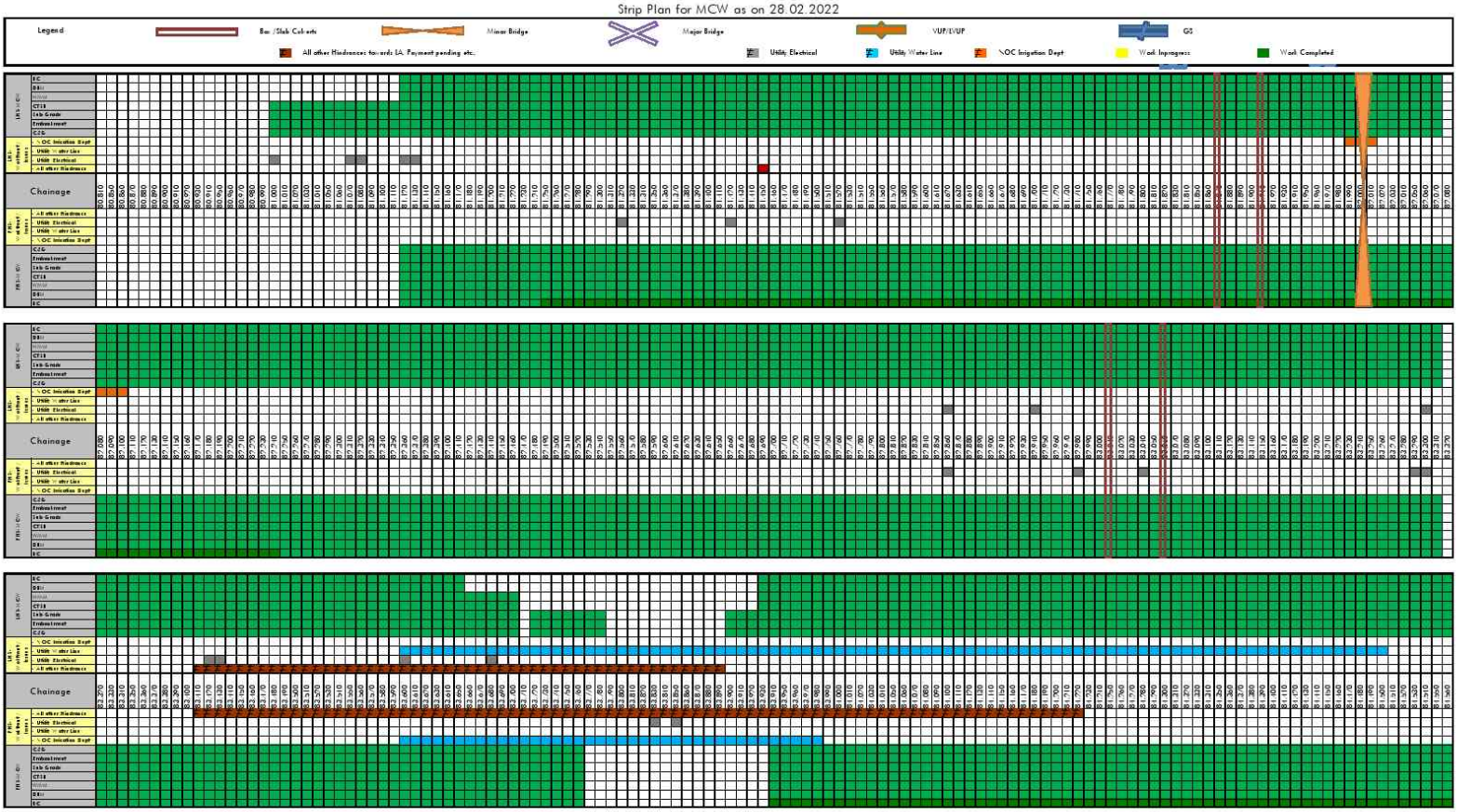

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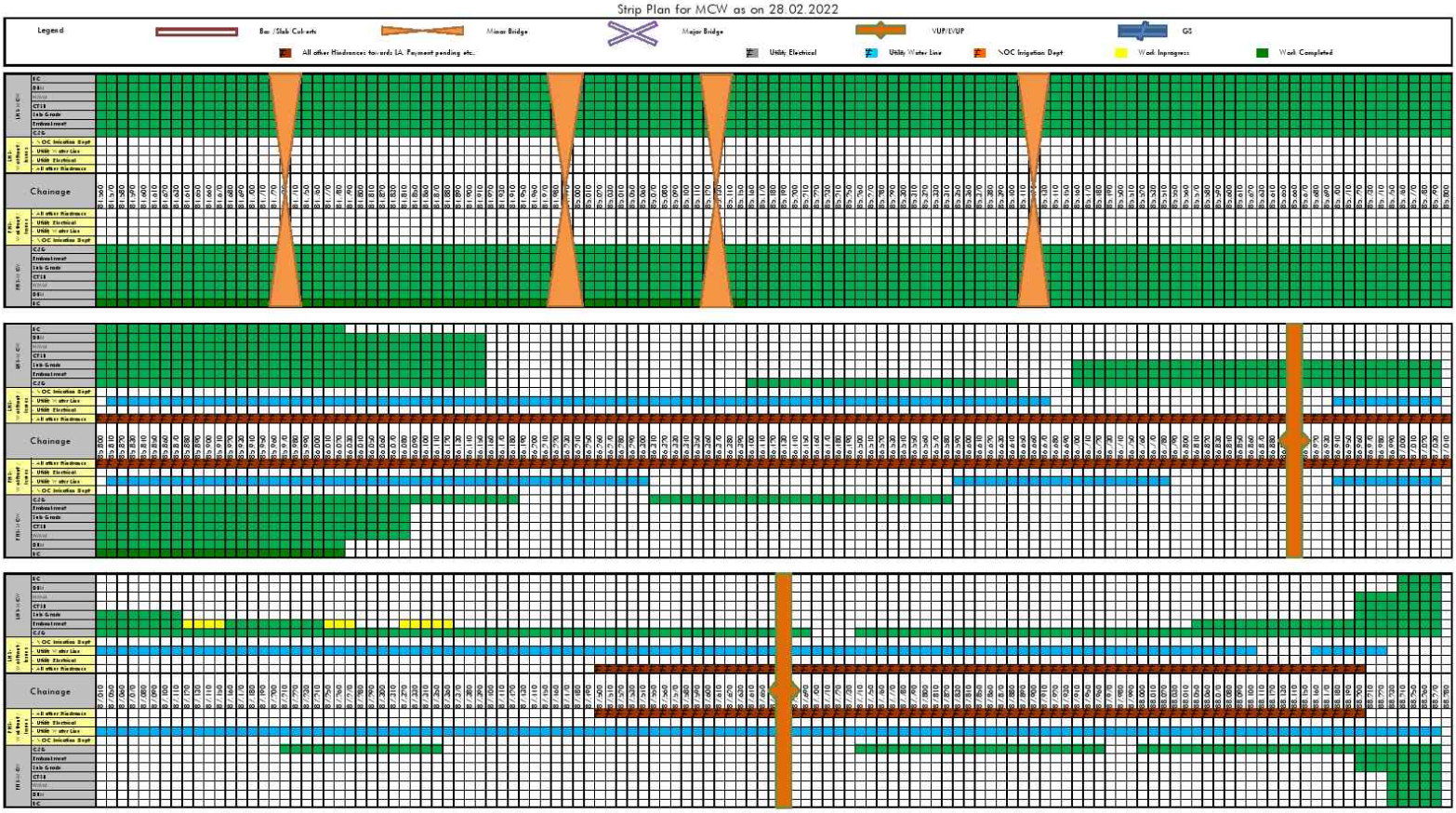

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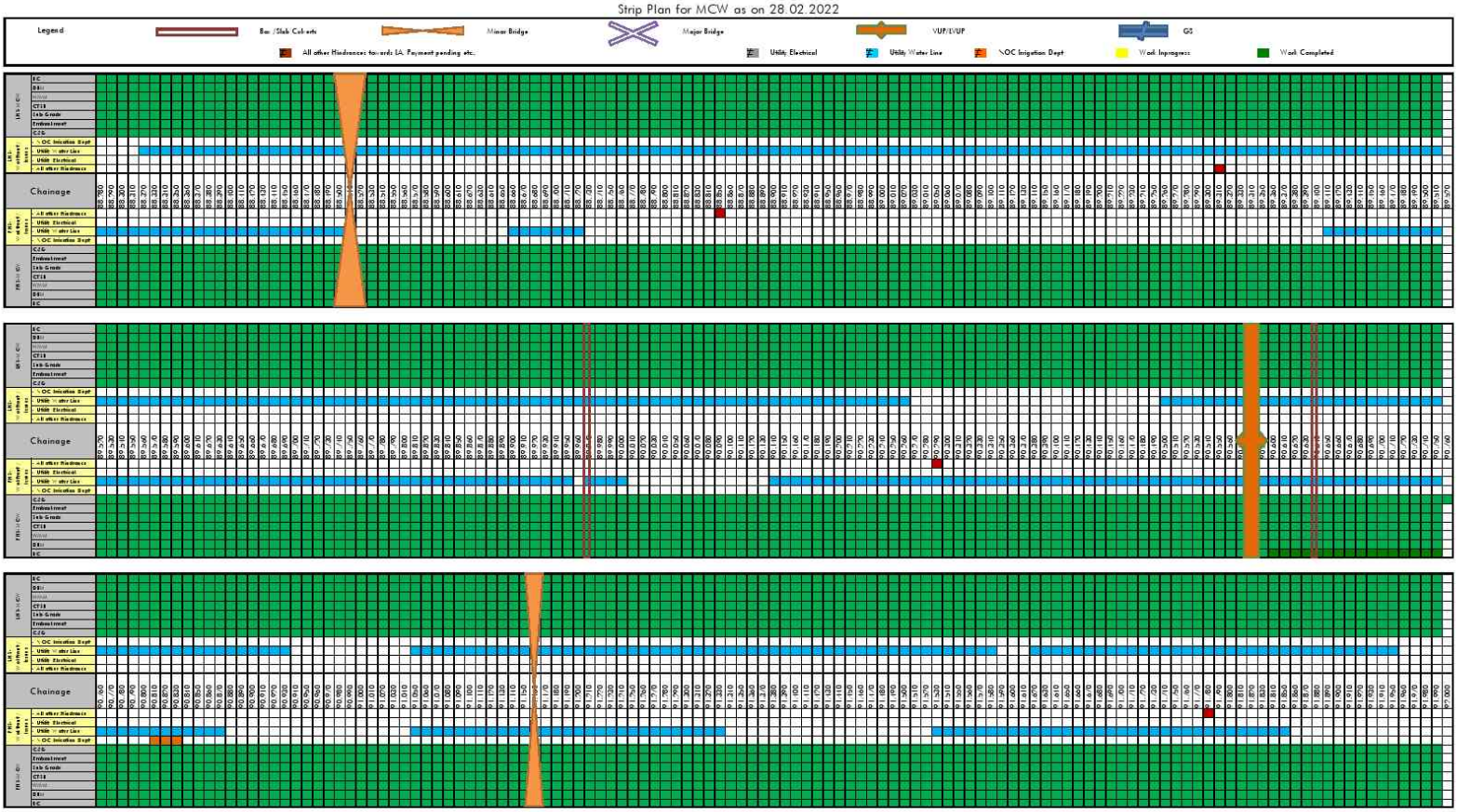

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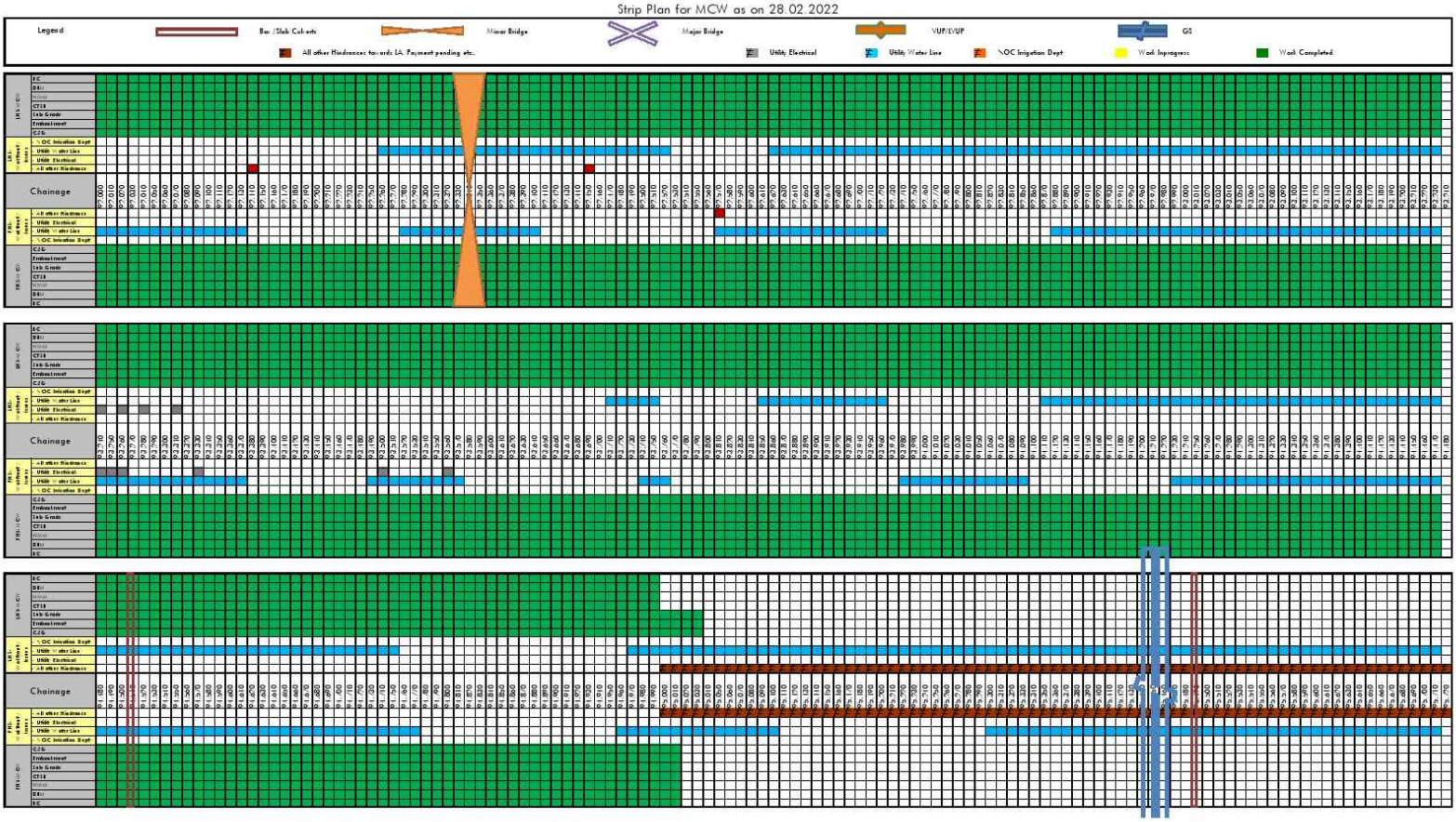

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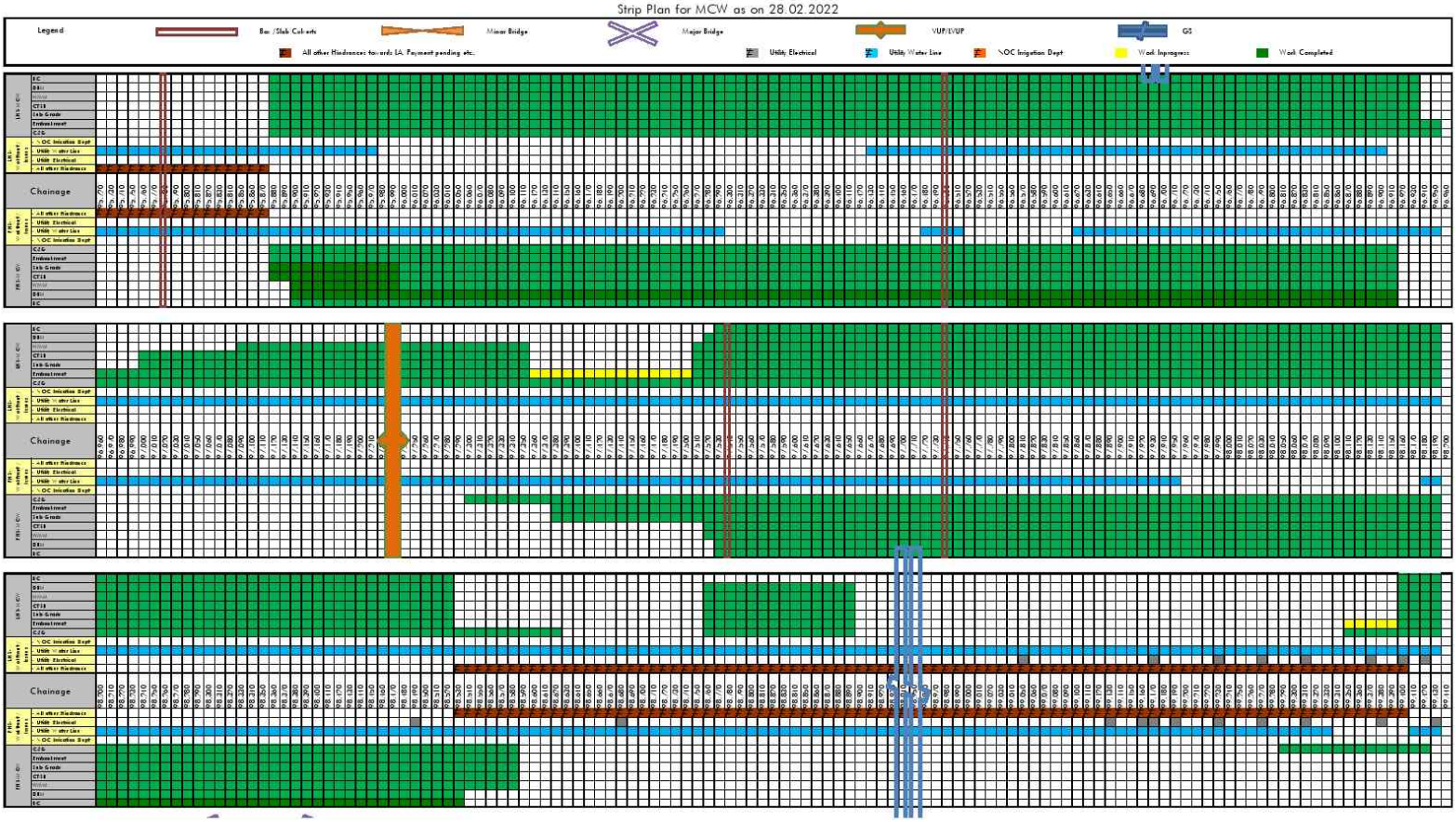

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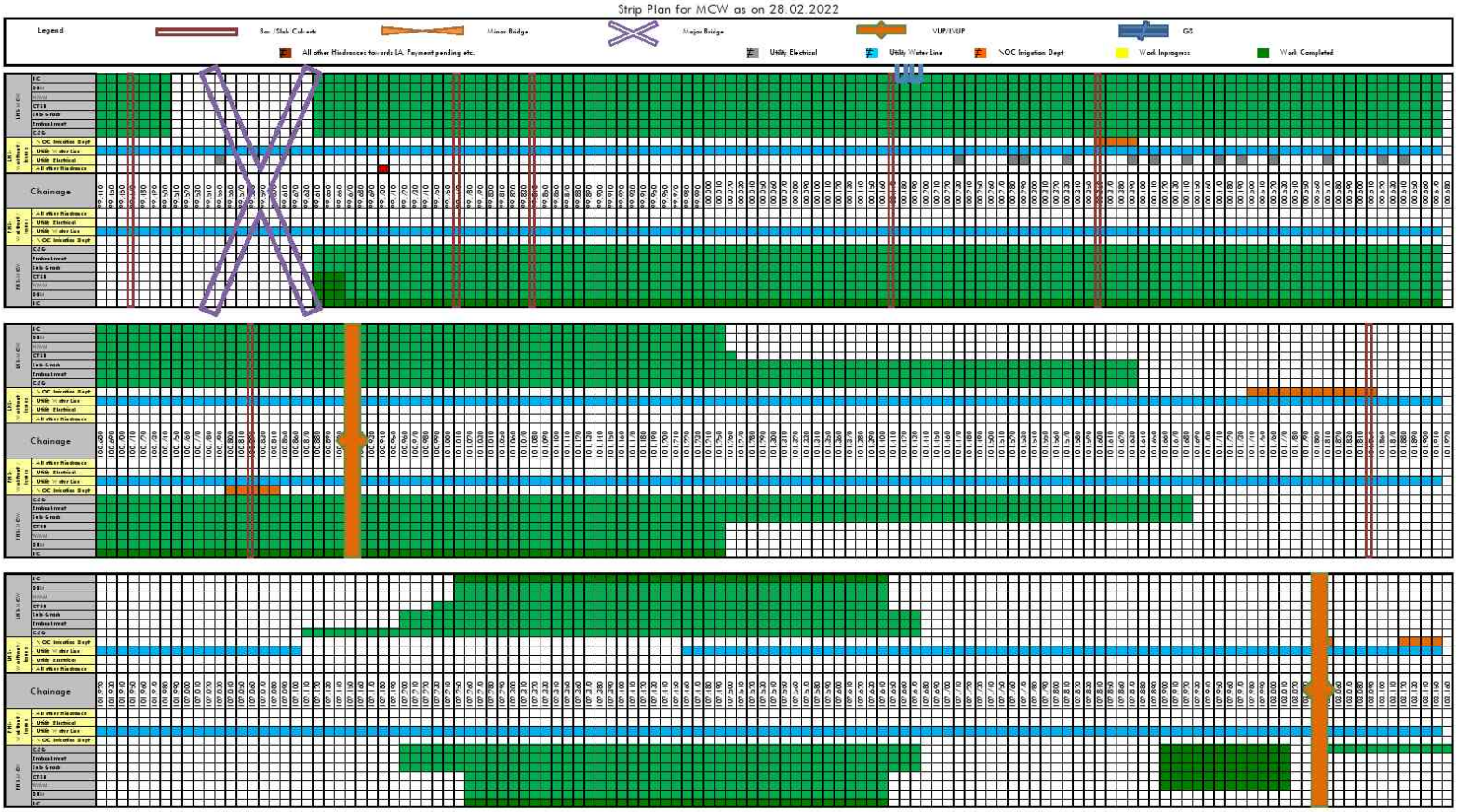

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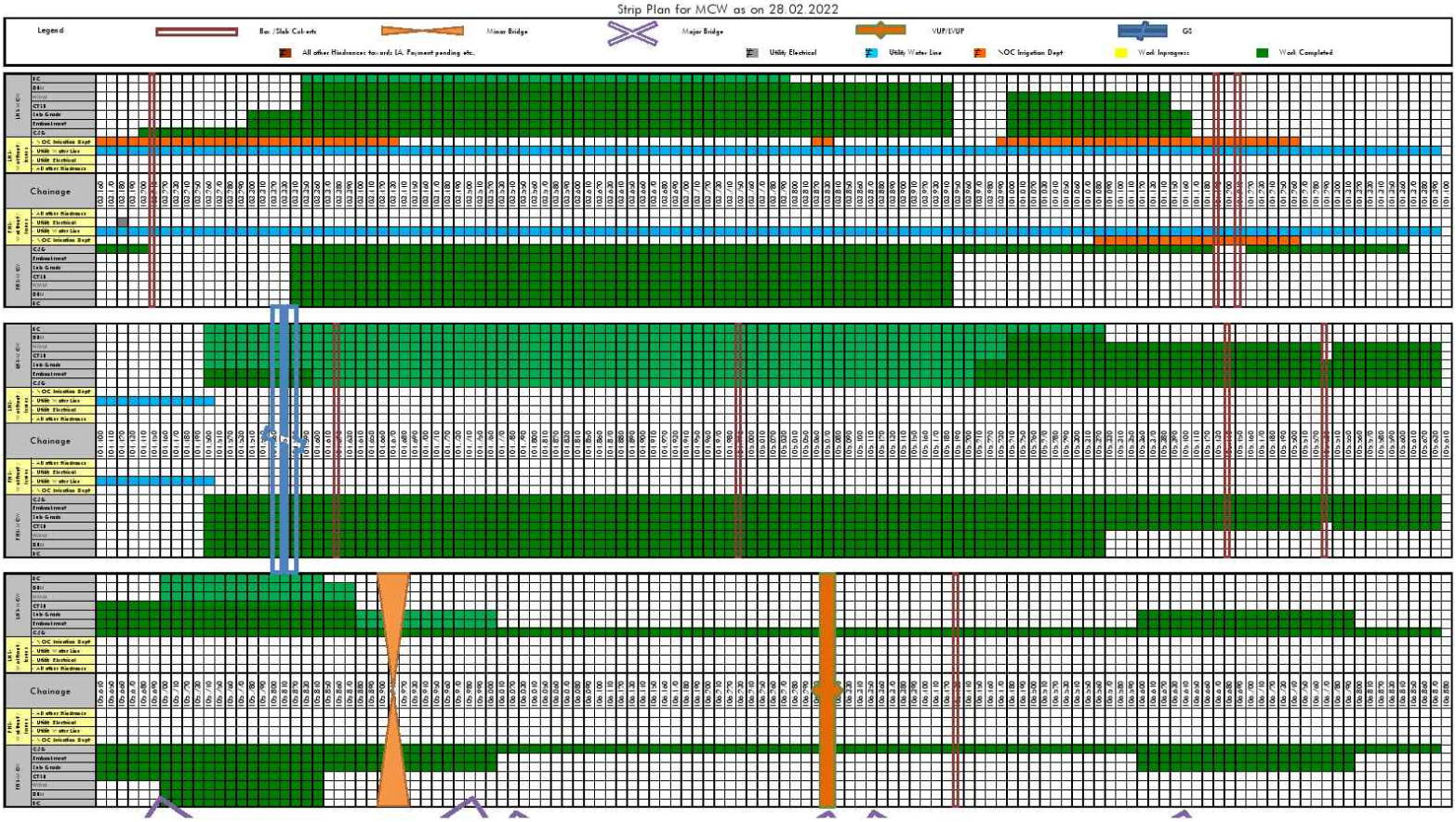

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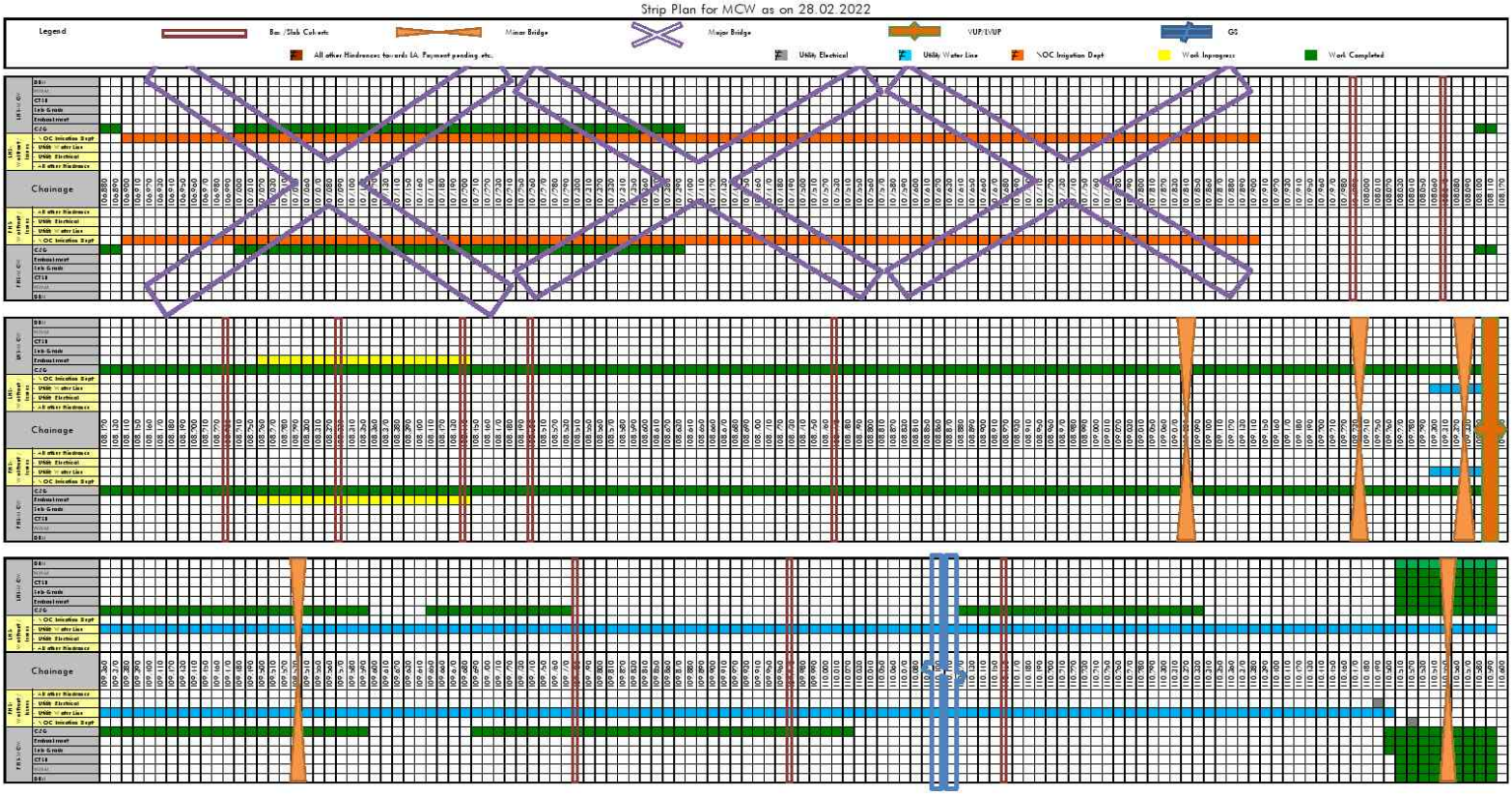
Sethiyahopu - Cholopuram Road Projects

Strip Plan for MCW as on 28.02.2022

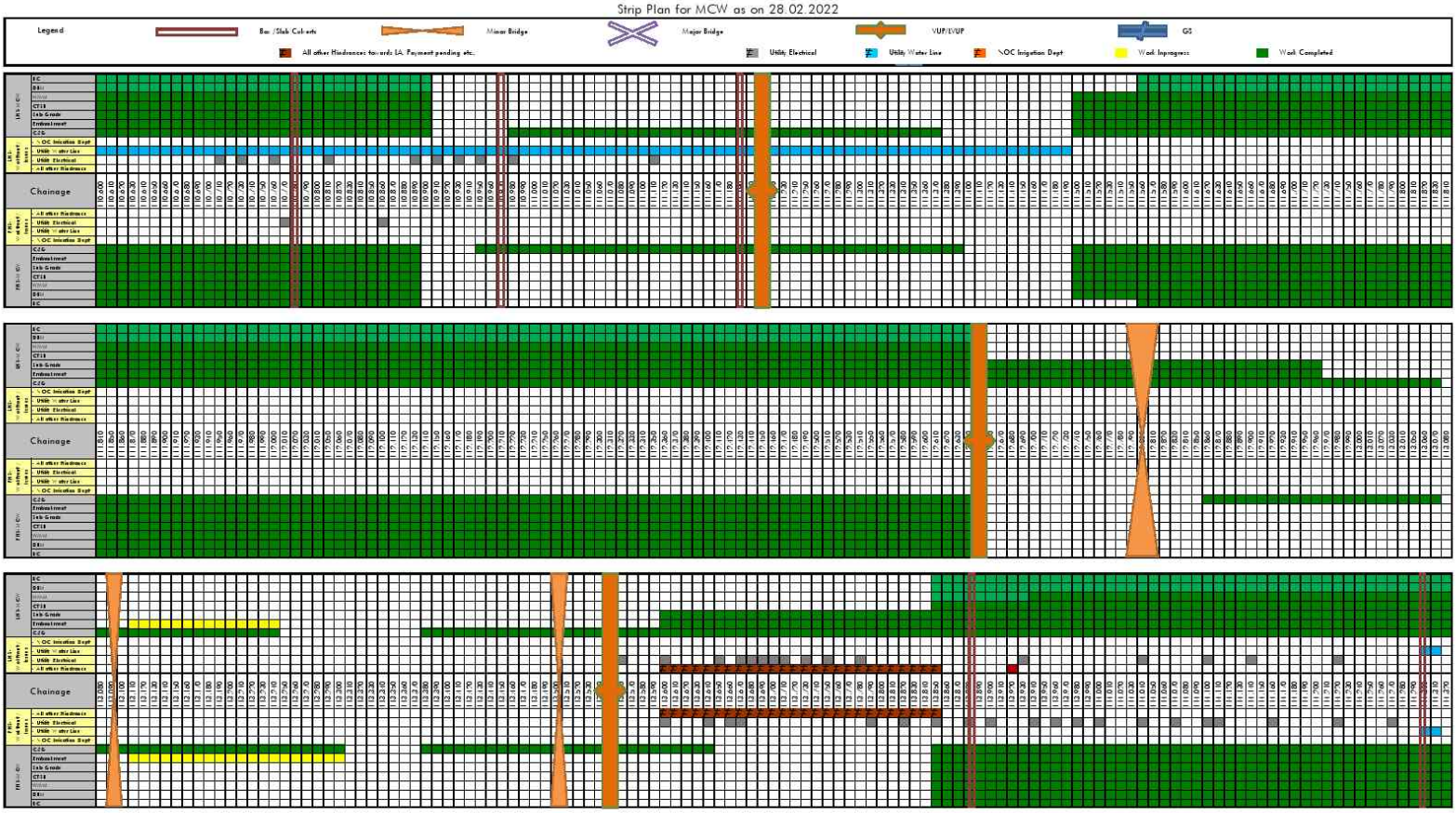


MPP FEBRUARY 2022

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 as on 28.02.2022

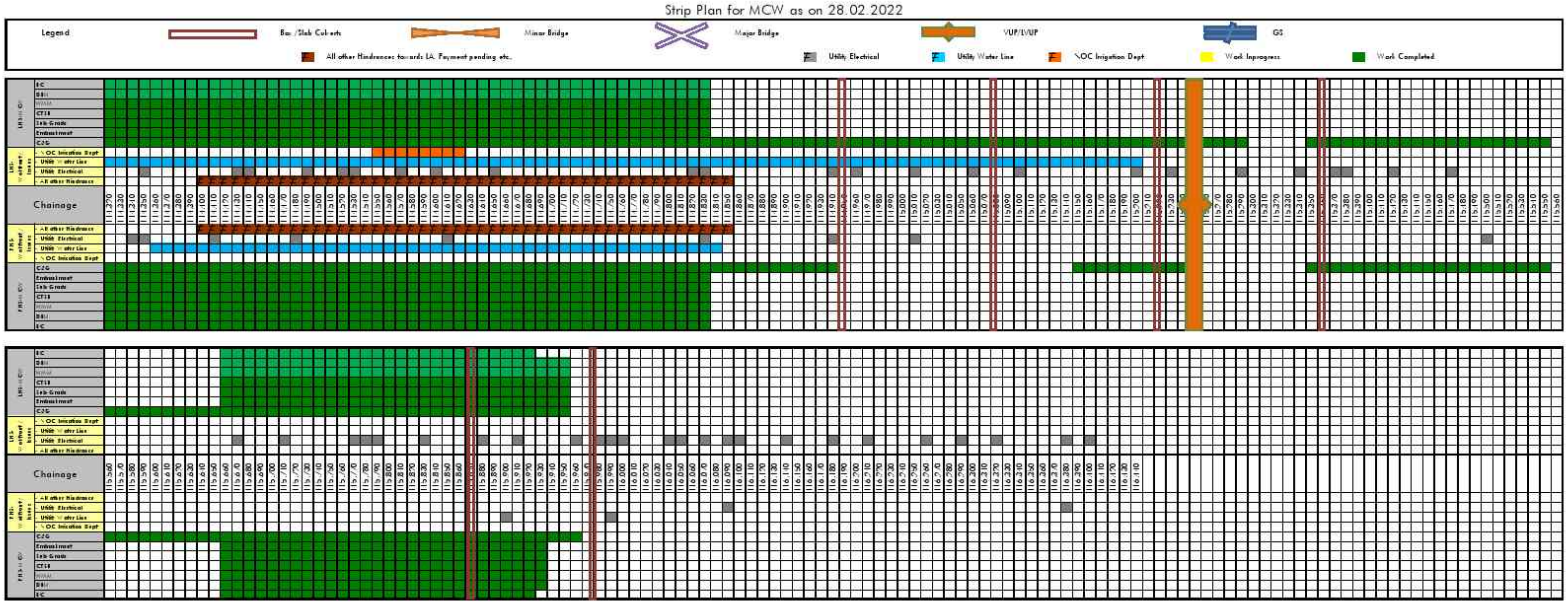


MPP, FEBRUARY 2022

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 as on 28.02.2022

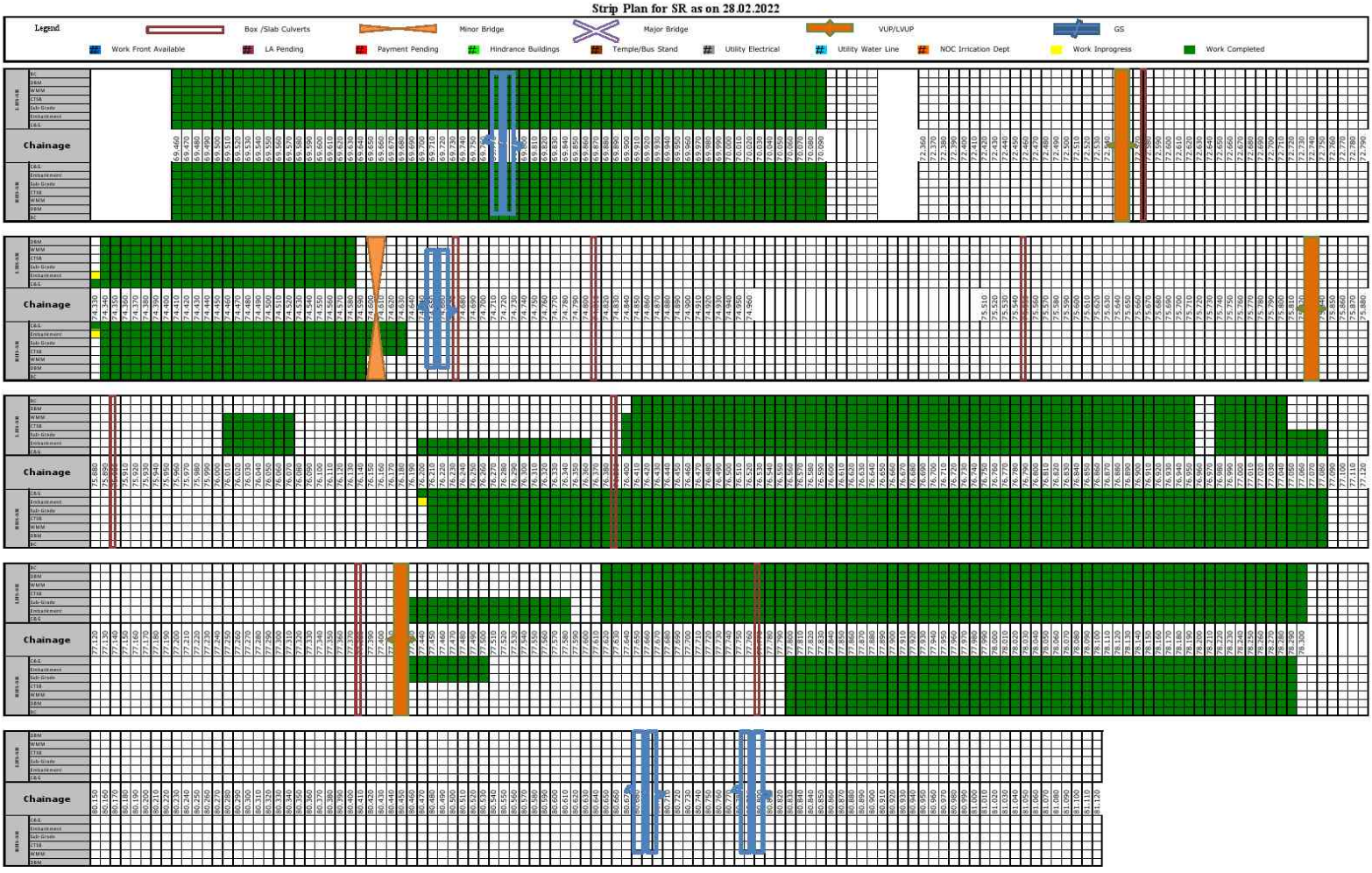


MPP FEBRUARY 2022

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 as on 28.02.2022

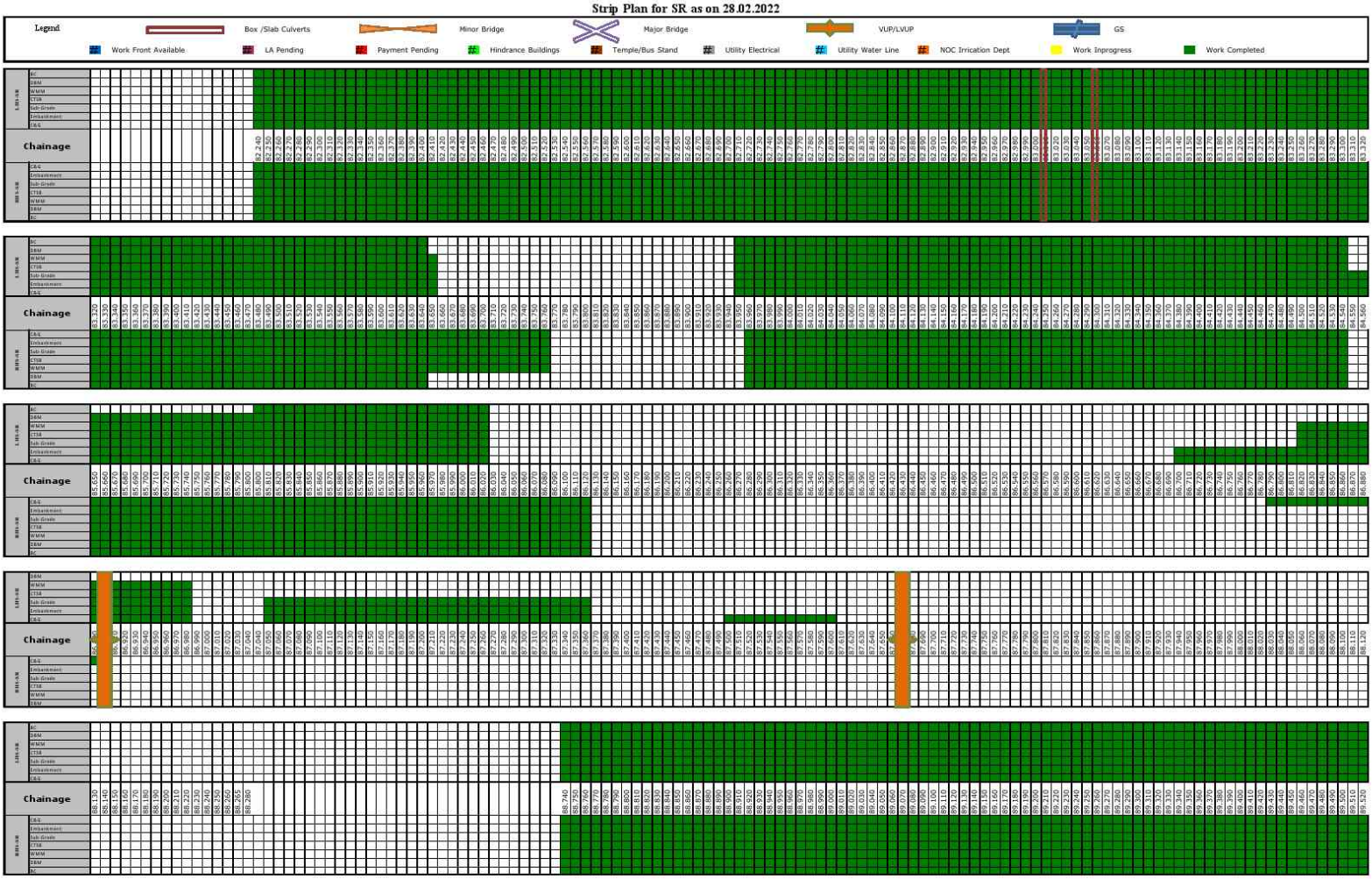


MPR FEBRUARY 2022

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 as on 28.02.2022

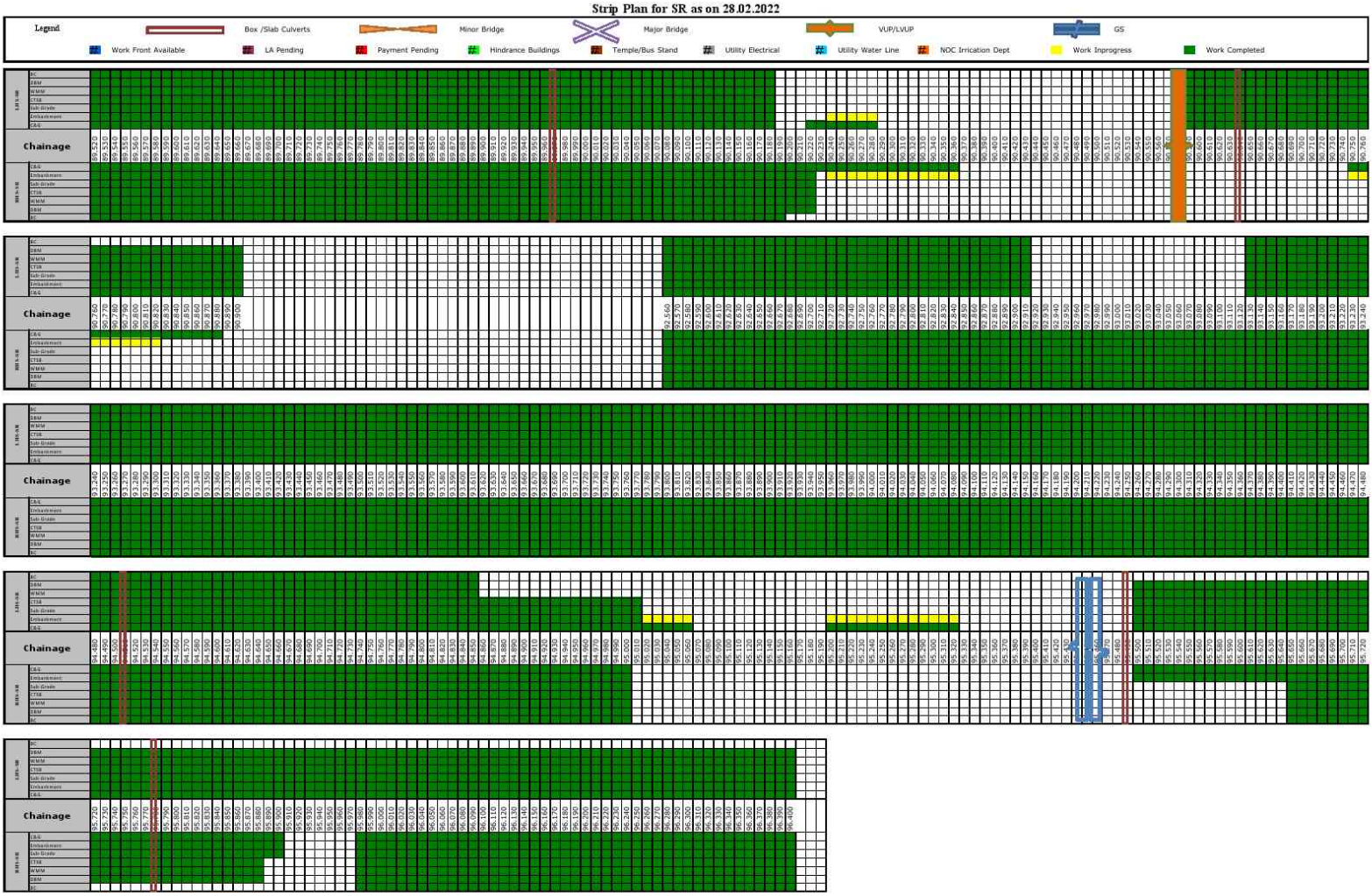


MPR FEBRUARY 2022

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

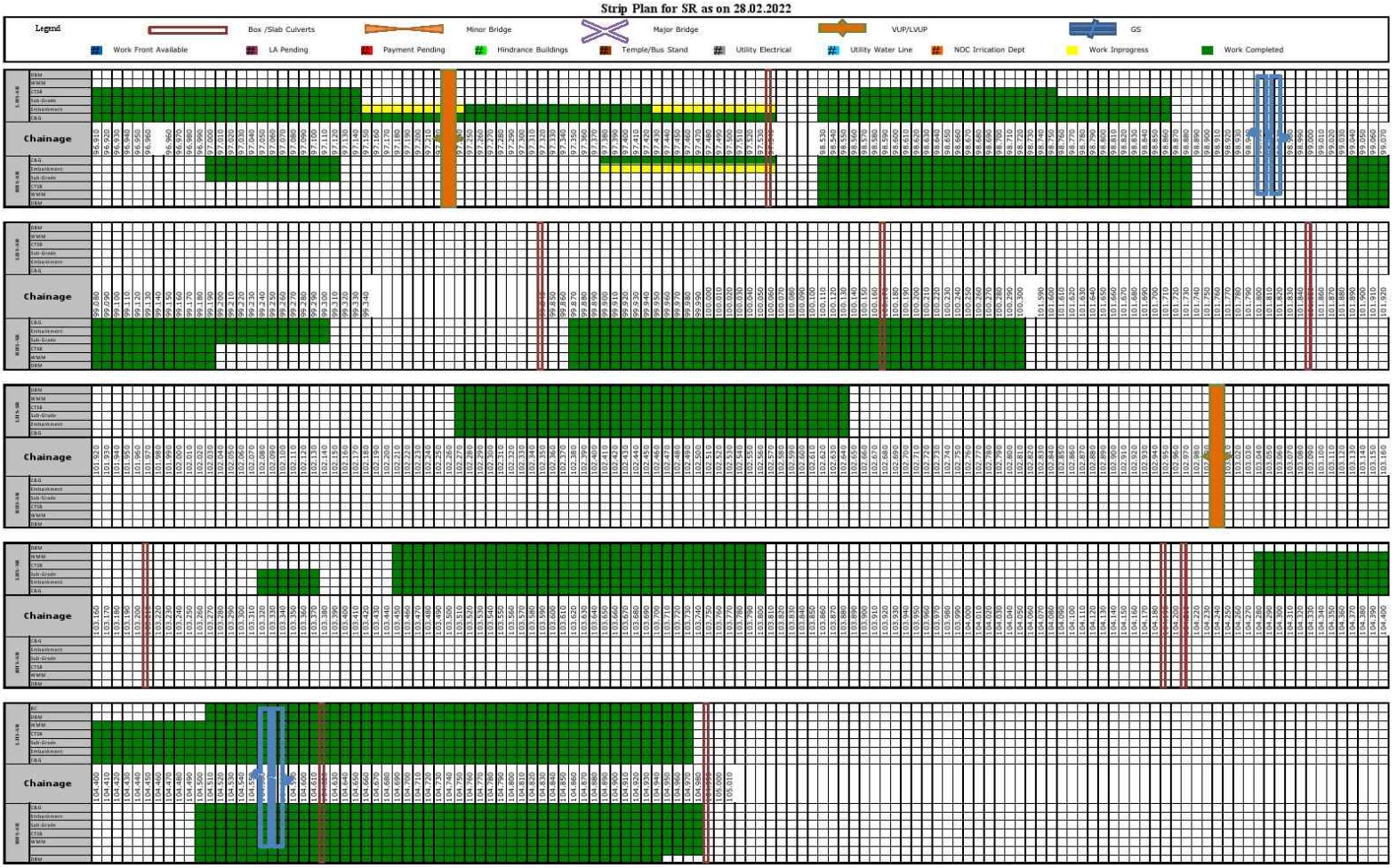
Strip Plan for SR as on 28.02.2022



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

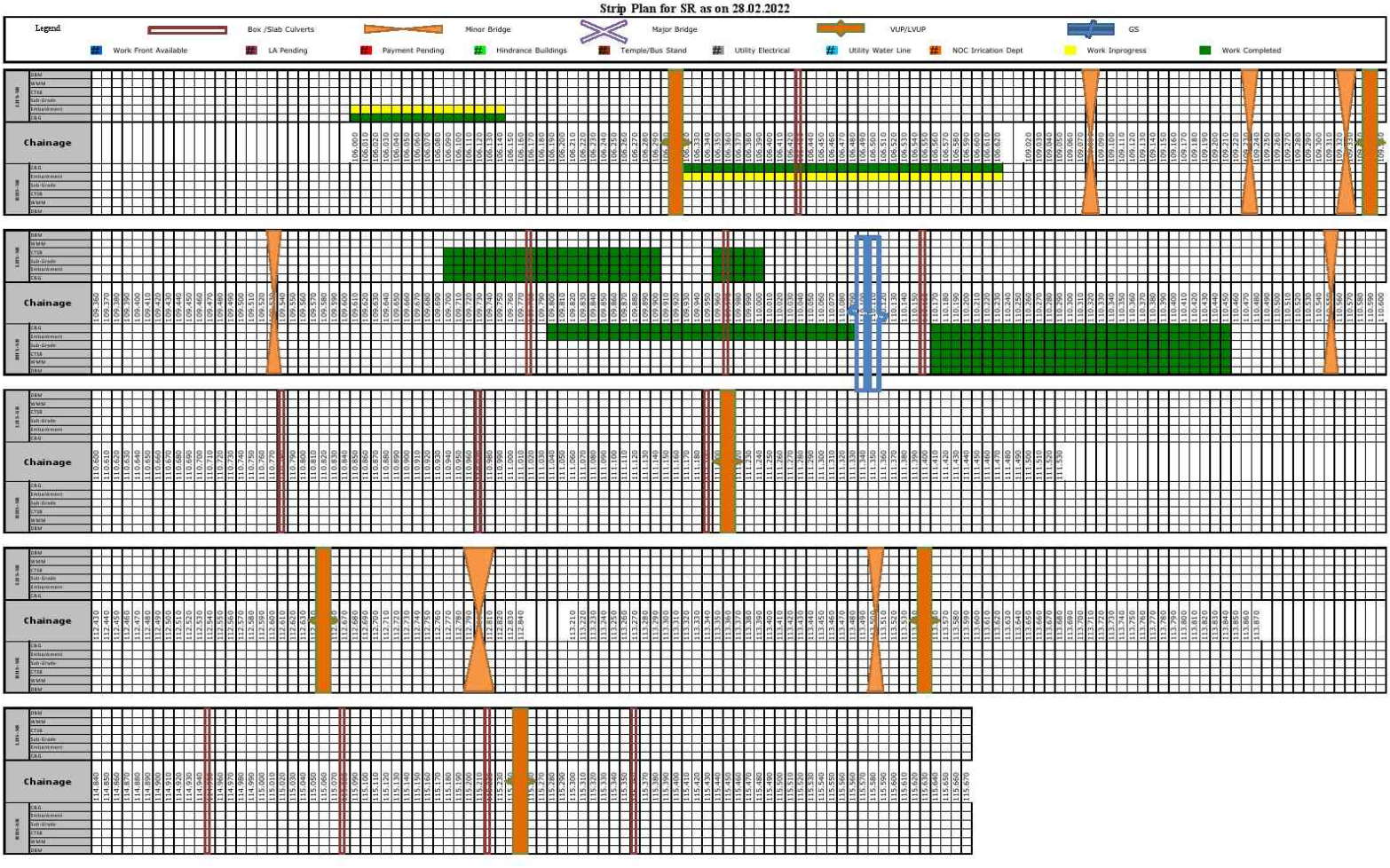
Strip Plan for SR as on 28.02.2022



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 as on 28.02.2022



MPR FEBRUARY 2022

SETHIYAHOPU CHOLOPURAM PROJECT -
STATUS OF BOX CULVERTS ON EXISTING ROAD - MCW

Completed

In Progress

Status Upto	28.02.2022						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 3.0 m x 2.0 m	New Construction	BOX CULVERT																	
2	74+800	74.808	EXISTING	1 x 1.20 m	Reconstruction	BOX CULVERT																	
3	75+558	75.555	EXISTING	1x3.0 m	Reconstruction	BOX CULVERT																	
4	75+902	75.897	EXISTING	1 x 2.0 m x 2.0 m	Reconstruction	BOX CULVERT																	
5	76+390	76.387	EXISTING	1 x 3.0 m	Reconstruction	BOX CULVERT																	
6	77+382	77.379	EXISTING	1 x 4.0 m	Reconstruction	BOX CULVERT																	
7	77+767	77.764	EXISTING	1 x 2.0 m	Widening	BOX CULVERT																	
8	81+868	81.867	EXISTING	1 x 2.0 m x 2.0 m	Reconstruction	BOX CULVERT																	
9	81+913	81.910	EXISTING	1 x 1.95 m x 1.0 m	Widening	BOX CULVERT																	
10	83+012	83.007	EXISTING	2 x 2.0 m x 2.0 m	Reconstruction	BOX CULVERT																	
11	83+065	83.062	EXISTING	1 x 2.0 m x 2.0 m	Reconstruction	BOX CULVERT																	
12	89+973	89.969	EXISTING	4 x 0.75 m	Widening	BOX CULVERT																	
13	90+640	90.637	EXISTING	1 x 1.20 m	Reconstruction	BOX CULVERT																	
14	94+509	94.509	EXISTING	1 x 3.6 m x 1.6 m	Widening	BOX CULVERT																	
15	95+495	95.490	EXISTING	1 x 1.2 m x 0.9 m	Reconstruction	BOX CULVERT																	
16	95+794	95.787	EXISTING	1 x 1.20 m	Reconstruction	BOX CULVERT																	
17	96+511	96.505	EXISTING	1 x 5.0 m	Reconstruction	BOX CULVERT																	
18	97+530	97.534	EXISTING	1x2.0 m	Reconstruction	BOX CULVERT																	
19	97+742	97.738	EXISTING	1 x 3.0 m x 1.0 m	Widening	BOX CULVERT																	
20	99+471	99.467	EXISTING	1 x 3.0 m x 4.0 m	Repair & Widening	BOX CULVERT																	
21	99+776	99.769	EXISTING	1 x 2.0 m x 2.0 m	Repair & Widening	BOX CULVERT																	
22	99+840	99.838	EXISTING	1 x 1.5 m x 1.5 m	Repair & Widening	BOX CULVERT																	
23	100+177	100.173	EXISTING	1 x 1 m	Repair & Widening	BOX CULVERT																	
24	100+364	100.358	EXISTING	1 x 10 m	Repair & Widening	BOX CULVERT																	
25	100+823	100.817	EXISTING	1 x 3.5 m x 2.5 m	Repair & Widening	BOX CULVERT																	
26	101+851	101.851	EXISTING	1 x 1.5 m x 1.5 m	Repair & Reconstruction	BOX CULVERT																	
27	103+220	103.214	EXISTING	1 x 4.0 m x 2.5 m	Repair & Reconstruction	BOX CULVERT																	
28	104+197	104.190	EXISTING	1 x 1.0 m	Repair & Reconstruction	BOX CULVERT																	
29	104+215	104.208	EXISTING	1 x 1.0 m	Reconstruction	BOX CULVERT																	
30	109+786	109.779	EXISTING	1 x 1.0 m	Repair & Reconstruction	BOX CULVERT																	
31	109+975	109.967	EXISTING	1 x 2.0 m x 1.7 m	Repair & Reconstruction	BOX CULVERT																	
32	110+167	110.160	EXISTING	2 x 1.0 m	Repair & Reconstruction	BOX CULVERT																	
33	110+402		EXISTING	1 x 1.5 m		BOX CULVERT																	
34	110+795	110.785	EXISTING	1 x 1.2 m x 2.0 m	Repair & Widening	BOX CULVERT																	
35	110+980	110.971	EXISTING	1 x 1.5 m x 2.0 m	Repair & Reconstruction	BOX CULVERT																	
36	113+897	113.885	EXISTING	1 x 1.0 m	Repair & Widening	BOX CULVERT																	
37	114+313	114.300	EXISTING	1 x 1.0 m	Repair & Widening	BOX CULVERT																	
38	114+703	114.703	EXISTING			BOX CULVERT																	
39	114+954	114.952	EXISTING	1 x 1.0 m	Repair & Reconstruction	BOX CULVERT																	
40	115+097	115.087	EXISTING	2 x 1.0 m	Repair & Reconstruction	BOX CULVERT																	
41	115+232	115.221	EXISTING	1 x 2.0 m x 2.0 m	Repair & Reconstruction	BOX CULVERT																	
42	115+381	115.368	EXISTING	1 x 2.0 m	Repair & Reconstruction	BOX CULVERT																	
43	115+884	115.872	EXISTING	2 x 1.0 m	Repair & Widening	BOX CULVERT																	
44	115+978	115.978	EXISTING	1 x 2.0 m x 2.0 m	Repair & Widening	BOX CULVERT																	

SETHIYAHOPU CHOLOPURAM PROJECT -
STATUS OF BOX CULVERTS ON EXISTING ROAD - SERVICE ROAD

Completed | In Progress

Status Upto	28.02.2022						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																	

SETHIYAHOPU CHOLOPURAM PROJECT - STATUS OF BOX CULVERTS ON BYPASS - MCW							Completed								In Progress							
Status Upto	28.02.2022					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																	

SETHIYAHOPU CHOLOPURAM PROJECT - STATUS OF BOX CULVERTS ON BYPASS - SERVICE ROAD							Completed								In Progress							
Status Upto	28.02.2022					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																

SETHIYAHOPU CHOLOPURAM PROJECT - STATUS OF MNB-BOX - MCW							Completed								In Progress								
Status Upto	28.02.2022					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																

SETHIYAHOPU CHOLOPURAM PROJECT - STATUS OF MNB-BOX - SERVICE ROAD							Completed								In Progress							
Status Upto	28.02.2022					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																

SETHIYAHOPU CHOLOPURAM PROJECT - STATUS OF LVUP						Completed							In Progress					
Status Upto	28.02.2022				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	28.02.2022				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

MJB at Chainage 66+530 (8x30) - BYPASS

Completed

In Progress

Status Upto 28.02.2022	LHS/LSR								RHS/RSR							
	Crash Barrier	Slab	Girder Launching	Girder Casting	Pier Cap/Abt Cap	Pier/Abt	Pile Cap	Pile	Pile	Pile Cap	Pier/Abt	Pier Cap/Abt Cap	Girder Casting	Girder Launching	Slab	Crash Barrier
A1																
P1																
P2																
P3																
P4																
P5																
P6																
P7																
A2																

MJB at Chainage 73+340 (9x30) - BYPASS

Completed

In Progress

Status Upto 28.02.2022	LHS/LSR								RHS/RSR							
	Crash Barrier	Slab	Girder Launching	Girder Casting	Pier Cap/Abt Cap	Pier/Abt	Pile Cap	Pile	Pile	Pile Cap	Pier/Abt	Pier Cap/Abt Cap	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 28.02.2022	LHS/LSR								RHS/RSR							
	Crash Barrier	Slab	Girder Launching	Girder Casting	Pier Cap/Abt Cap	Pier/Abt	Pile Cap	Pile	Pile	Pile Cap	Pier/Abt	Pier Cap/Abt Cap	Girder Casting	Girder Launching	Slab	Crash Barrier
A1									Existing Major Bridge need to be retained.							
P1																
P2																
A2																

MJB at Chainage 107+400 - BYPASS

Completed

In Progress

Status Upto 28.02.2022	LHS/LSR								RHS/RSR							
	Crash Barrier	Slab	Girder Launching	Girder Casting	Pier Cap/Abt Cap	Pier/Abt	Pile Cap	Pile	Pile	Pile Cap	Pier/Abt	Pier Cap/Abt Cap	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	28.02.2022				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	28.02.2022				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

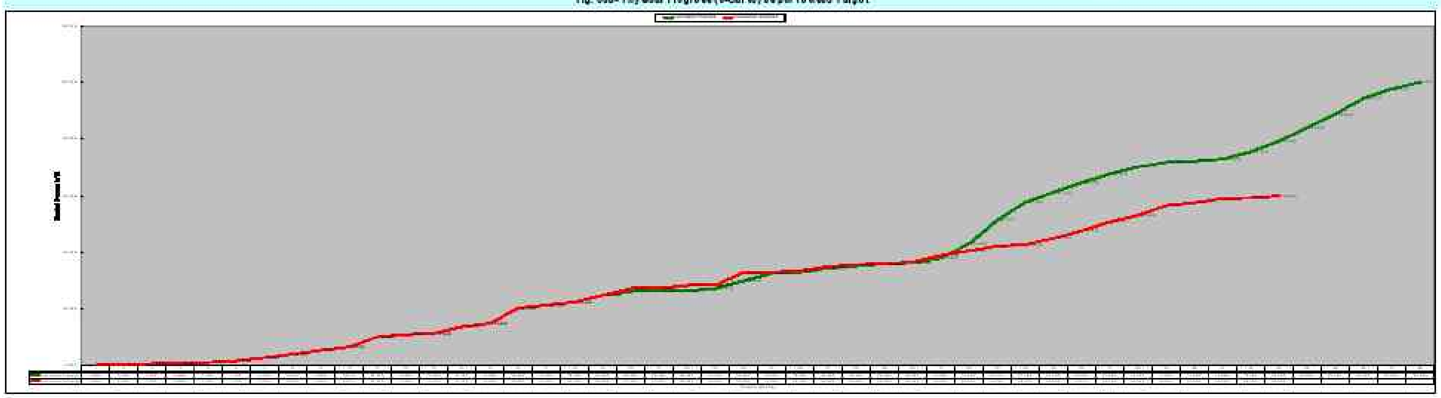
Figure 3b: Physical Progress - Planned vs Achieved - S Curve

Four Laning of Sathiyahopu - Cholopuram from Km. 85.360 to 118.440 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

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

Fig. 68b - Physical Progress (S-Curve) as per revised Target



[illegible]	[illegible]	2018					2019											
		Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]	[illegible]	2020											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		18	19	20	21	22	23	24	25	26	27	28	29
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]	[illegible]	2021											
		Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
		30	31	32	33	34	35	36	37	38	39	40	41
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]	[illegible]	2022						
		Jan	Feb	Mar	Apr	May	June	July
		42	43	44	45	46	47	48
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]					
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]					

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	EQUIPMENT 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 (200CM³)	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	EQUIPMENT 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	EQUIPMENT 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	EQUIPMENT 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 cylinderical metal measure - 15 LTR	1 Nos
57	Bulk density cylinderical metal measure - 5 LTR	1 Nos
58	Bulk density cylinderical 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 with collar and base plate	60 Nos
62	Perforated plate - for CBR test AS per 1377	57 Nos
63	Spacer disc - for CBR test	4 nos
64	surcharge weight 2.5kg annular for cbr test	120 nos
65	cbr load frame electrical single speed	1 nos
66	chiesel 25mm wide *300mm long	20 nos
67	compression testing machine 2000kn digital manual pace	1 nos
68	cube moulds 7.06cm isi marked for cement	12
69	Concrete mixer - Tilting drum type	1 No
70	Constant temperature waterbath for marshal test with digital	2 Nos
71	Core drilling machine with disel engine	1 No
72	Electronic weighing balance - 10KG	1 No
73	Cube moulds - 10CM	18 Nos
74	Cube moulds - 5CM	12 Nos
75	Electronic weighing balance - 600Gms	2 Nos
76	Dial gauge 0.01*30mm	4 Nos
77	Electronic platform balance - 100KG	1 Nos
78	Electronic weighing balance - 30KG	2 Nos
79	Electronic weighing balance - 50KG	2 Nos
80	Electronic weighing balance - 5KG	1 No
81	Stop watch - digital	4 Nos
Sl. NO	EQUIPEMENT LISTS	QUANTITY
82	Direct shear apparatus	1 No
83	Bottle wash plastic - 1000ML	4 Nos
84	Length gauge	1 No
85	Tray - G.I 300*300MM (12"*12")	6 Nos
86	Enamel tray -300*250*40 mm (10"*12")	9 Nos
87	Tray G.I -300*250*40 mm (10"*12")	9 Nos
88	Enamel tray -450*600*40 mm (18"*12")	12 Nos
89	Field density test app -sand replacement method medium	2 Set
90	Field density test app -sand replacement method Large	2 Set

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

6.2. Quality Control Test Summary

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

The detailed list of quality control test conducted up to the month of February - 2022 are tabulated below:-

Four Laning of Sethiyathope - Cholopuram From km 65.960 to km 116.440 Section of NH-45C in the State of Tamil Nadu under NHDP Phase-IV on Hybrid Annuity Mode.

Monthly Progress Report : Summary of Quality Control Report : Month of February - 2022

Sr. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month				Tests conducted during reporting month February 2022						Test conducted upto this month			
								Tested		Passed		Failed					
				No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos. of test witnessed by IE	Concessionaire	IE	Concessionaire	IE	Concessionaire	IE	No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos. of test witnessed by IE
1.0 Tests on OGL																	
1.1	Grain size analysis	IS:2720 (Part4)	1 test/ 250 meters	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 (MoRTH 305)																	
2.1	Grain size analysis	IS:2720 (Part4)	1 test/1500 m²	1344	1344	0	739	0	0	0	0	0	0	1344	1344	0	739
2.2	Atterberg Limits	IS:2720 (Part5)	1 test/1500 m²	1344	1344	0	739	0	0	0	0	0	0	1344	1344	0	739
2.3	Proctor	IS:2720 (Part8)	1 test/1500 m²	1344	1344	0	739	0	0	0	0	0	0	1344	1344	0	739
2.4	Free Swell index	IS:2720 (Part40)	1 test/1500 m²	1344	1344	0	739	0	0	0	0	0	0	1344	1344	0	739
2.5	California bearing ratio	IS:2720 (Part16)	1 test/ 3000 m²	380	372	8	193	0	0	0	0	0	0	380	372	8	193
2.6	Direct shear Test	IS:2720 (Part13)	1 test/3000 m²	233	230	3	119	0	0	0	0	0	0	233	230	3	119
3.0 Cutting portion & Existing for EMB/SG site sampling (MoRTH 305)																	
3.1	Grain size analysis	IS:2720 (Part4)	1 test/1500 m²	80	78	2	40	2	2	2	2	0	0	82	80	2	42
3.2	Atterberg Limits	IS:2720 (Part5)	1 test/1500 m²	80	78	2	40	2	2	2	2	0	0	82	80	2	42
3.3	Proctor	IS:2720 (Part8)	1 test/1500 m²	80	78	2	40	2	2	2	2	0	0	82	80	2	42
3.4	Free Swell index	IS:2720 (Part40)	1 test/1500 m²	80	78	2	40	2	2	2	2	0	0	82	80	2	42
3.5	California bearing ratio	IS:2720 (Part16)	1 test/ 3000 m²	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 m²	1	1	0	1	0	0	0	0	0	0	1	1	0	1
4.0 Service Road																	
4.1	Grain size analysis	IS:2720 (Part4)	1 test/1500 m²	27	27	0	20	0	0	0	0	0	0	27	27	0	20
4.2	Atterberg Limits	IS:2720 (Part5)	1 test/1500 m²	27	27	0	20	0	0	0	0	0	0	27	27	0	20
4.3	Proctor	IS:2720 (Part8)	1 test/1500 m²	27	27	0	20	0	0	0	0	0	0	27	27	0	20
4.4	Free Swell index	IS:2720 (Part40)	1 test/1500 m²	27	27	0	20	0	0	0	0	0	0	27	27	0	20
4.5	California bearing ratio	IS:2720 (Part16)	1 test/ 3000 m²	8	8	0	8	0	0	0	0	0	0	8	8	0	8
4.6	Direct shear Test	IS:2720 (Part13)	1 test/3000 m²	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 m²	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 m²	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 m²	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 m²	187	187	0	107	0	0	0	0	0	0	187	187	0	107

Sr. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month				Tests conducted during reporting month February 2022						Test conducted upto this month			
								Tested		Passed		Failed					
				No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos. of test witnessed by IE	Concessionaire	IE	Concessionaire	IE	Concessionaire	IE	No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos. of test witnessed by 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	75373	72955	2418	15370	48	10	30	10	18	0	75471	72985	2436	15380
6.3	SG field density	IS:2720 (Part28)	1 test/2000 sqm	14659	14320	339	5868	40	10	40	10	0	0	14699	14360	339	5878
6.4	Shoulder field density	IS:2720 (Part28)	1 test/2000 sqm	1013	970	43	175	0	0	0	0	0	0	1013	970	43	175
6.5	Ground improvement (Soil)	IS:2720 (Part28)	1 test/2000 sqm	3035	2958	77	471	0	0	0	0	0	0	3035	2958	77	471
6.6	Ground improvement & Median filling (Flyash)	IS:2720 (Part28)	1 test/2000 sqm	21465	20779	686	3658	0	0	0	0	0	0	21465	20779	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 m²	840	840	0	48	0	0	0	0	0	0	840	840	0	48
7.3	PE 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 (Part 13)	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/400 m³	891	891	0	354	9	5	9	5	0	0	900	900	0	359
9.2	Atterberg Limits	IS:2720 (Part5)	1 test/400 m³	770	770	0	277	9	5	9	5	0	0	779	779	0	282
9.3	Proctor	IS:2720 (Part8)	As required	36	36	0	34	2	2	2	2	0	0	38	38	0	36
9.4	CBR Test or unconfined compressive strength test	IS:2720 (Part 16)	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 500 Sqm	4932	4932	0	2735	39	10	39	10	0	0	4971	4971	0	2745
9.8	Specific gravity & Water absorption	IS:2386 (Part3)	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	1849	1849	0	655	9	4	9	4	0	0	1858	1858	0	659
10.0 Granular Bedding Material (For Structures-Ground Improvement) Mix Design																	
10.1	Gradation	Table 400-1	1 test/400 m³	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.2	Atterberg Limits	IS:2720 (Part5)	1 test/400 m³	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 (Part 16)	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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								Tested		Passed		Failed					
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11.0 Granular Bedding Material (For Structures Ground Improvement- Site Frequency																	
11.1	Gradation	Table 400-1	1 test/400 m^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	71	0	0	0	0	0	0	90	90	0	71
12.0 WMM Mix Design																	
12.1	Gradation	Table 400-3	1 test/500 m^3	61	61	0	61	0	0	0	0	0	0	61	61	0	61
12.2	Aggregate Impact Value	IS:2386 Part-4	1 test/ 1000 m^3	13	13	0	13	0	0	0	0	0	0	13	13	0	13
12.3	Flakiness & Elongation index	IS:2386 Part1	1 test/ 600 m^3	17	17	0	17	0	0	0	0	0	0	17	17	0	17
12.4	Atterberg Limits	IS:2720 (Part5)	1 test/500 m^3	17	17	0	17	0	0	0	0	0	0	17	17	0	17
12.5	Water absorption & Sp.Gravity	IS:2386 Part3	As required	8	8	0	8	0	0	0	0	0	0	8	8	0	8
12.6	Proctor	IS:2720 (Part8)	As required	1	1	0	1	0	0	0	0	0	0	1	1	0	1
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 Method-2H Mix																	
13.1	Gradation	Table 400-3	1 test/500 m^3	415	415	0	378	1	3	1	3	0	0	419	419	0	331
13.2	Aggregate Impact Value	IS:2386 Part-4	1 test/ 1000 m^3	347	347	0	175	3	7	3	7	0	0	353	353	0	177
13.3	Flakiness & Elongation index	IS:2386 Part1	1 test/ 600 m^3	351	351	0	111	3	7	3	7	0	0	360	360	0	113
13.4	Atterberg Limits	IS:2720 (Part5)	1 test/500 m^3	578	578	0	191	1	3	1	3	0	0	587	587	0	197
13.5	Water absorption	IS:2386 Part3	As required	1	1	0	1	0	0	0	0	0	0	1	1	0	1
13.6	Proctor	IS:2720 (Part8)	As required	16	16	0	11	1	1	1	1	0	0	17	17	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 setTest per 1000 Sq.m / 3 pits	1719	1719	0	810	19	57	19	57	0	0	1731	1731	0	815
14.0 Dence Bituminous Macadam (Grade -II)																	
14.1	Bitumen Extraction & Gradation		1 Test/100MT	366	366	0	155	1	1	1	1	0	0	370	370	0	159
14.2	Combined Gradation	Table-500 - 18, Grad.II	1 Test/100MT	365	365	0	141	1	1	1	1	0	0	369	369	0	145
14.3	Individual Gradation Sets	Table-500 - 18, Grad.II	1 Test/100MT	365	365	0	141	1	1	1	1	0	0	369	369	0	145
14.4	Flakiness & Elongation index	MORTH Table-900 - 1	1 test/ 350 m^3	538	538	0	95	2	5	2	5	0	0	540	540	0	97
14.5	Aggregate Impact Value	MORTH Table-900 - 1	1 test/350 m^3	780	780	0	115	2	5	2	5	0	0	782	782	0	117
14.6	Marshall Density	ASTM D2726	1 Set/100MT	395	395	0	144	1	1	1	1	0	0	399	399	0	148
14.7	GMM	MORTH Table-900 - 1	1 Test/100MT	361	312	0	150	1	1	1	1	0	0	368	361	0	154
14.8	DBM Core Cutting	MORTH Table-900 - 1	1 Test/100M^2	1108	1108	0	492	1	1	1	1	0	0	1112	1112	0	496
Bitumen test (VG-10)																	
14.9	Softening Point	IS:1205 - 1978	1 Test/ 1 lot	186	186	0	78	5	5	5	5	0	0	191	191	0	83
14.10	Penetration	IS:1205 - 1978	1 Test/ 1 lot	186	186	0	78	5	5	5	5	0	0	191	191	0	83
14.11	Viscosity	IS:1205 - 1978	1 Test/ 1 lot	186	186	0	78	5	5	5	5	0	0	191	191	0	83

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								Concessionaire	IE	Concessionaire	IE	Concessionaire	IE				
15.0 Bituminous Concrete (Grade - II) PMB/CWI																	
15.1	Bitumen Extraction & Gradation	IRC SP 11	1 Test/400MT	205	205	0	100	3	3	3	3	0	0	208	208	0	103
15.2	Combined Gradation	Table500 - 17, Grad.II	1 Test/400MT	217	217	0	176	3	3	3	3	0	0	220	220	0	179
15.3	Individual Gradation Sets	Table500 - 17, Grad.II	1 Test/400MT	217	217	0	176	3	3	3	3	0	0	220	220	0	179
15.4	Flakiness & Elongation index	MORTH Table 900 - 4	1 test/ 350 m²	104	104	0	47	3	3	3	3	0	0	107	107	0	50
15.5	Aggregate Impact Value	MORTH Table 900 - 4	1 test/350 m²	106	106	0	49	3	3	3	3	0	0	109	109	0	52
15.6	Marshall Density	ASTM D2726	1 Set/400MT	213	213	0	101	3	3	3	3	0	0	216	216	0	104
15.7	GMM	MORTH Table 900 - 4	1 Test/400MT	213	213	0	101	3	3	3	3	0	0	216	216	0	104
15.8	BC Core Cutting	MORTH Table 900 - 4	1 Test/700M²	848	848	0	321	10	10	10	10	0	0	858	858	0	331
16.0 Bituminous Concrete (Grade - II) VG-40 S/P																	
16.1	Bitumen Extraction & Gradation	IRC SP 11	1 Test/400MT	41	41	0	17	0	0	0	0	0	0	41	41	0	17
16.2	Combined Gradation	Table500 - 17, Grad.II	1 Test/400MT	41	41	0	17	0	0	0	0	0	0	41	41	0	17
16.3	Individual Gradation Sets	Table500 - 17, Grad.II	1 Test/400MT	41	41	0	17	0	0	0	0	0	0	41	41	0	17
16.4	Flakiness & Elongation index	MORTH Table 900 - 4	1 test/ 350 m²	25	25	0	11	0	0	0	0	0	0	25	25	0	11
16.5	Aggregate Impact Value	MORTH Table 900 - 4	1 test/350 m²	25	25	0	11	0	0	0	0	0	0	25	25	0	11
16.6	Marshall Density	ASTM D2726	1 Set/400MT	41	41	0	17	0	0	0	0	0	0	41	41	0	17
16.7	GMM	MORTH Table 900 - 4	1 Test/400MT	41	41	0	17	0	0	0	0	0	0	41	41	0	17
16.8	BC Core Cutting	MORTH Table 900 - 4	1 Test/700M²	174	174	0	74	0	0	0	0	0	0	174	174	0	74
Bitumen test (PMB)																	
16.9	Softening Point	IS:1205 - 1978	1 Test/ 1 lot	131	131	0	57	2	1	2	1	0	0	133	133	0	58
16.10	Elastic recovery	IS:15462 - 2019	1 Test/ 1 lot	131	131	0	57	2	1	2	1	0	0	133	133	0	58
17.0 Prime Coat																	
17.0	Rate of Spread of Binder		Three tests per day	855	855	0	106	9	9	9	9	0	0	864	864	0	115
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	984	984	0	381	12	12	12	12	0	0	996	996	0	393
17.3 Emulsion Test (RS-1)																	
17.3	Say bolt Viscometer	IS:8887-2004	1 Test/ 1 lot	4	4	0	3	1	1	1	1	0	0	5	5	0	4
18.0 Fine Aggregate MoRTH 1000																	
18.1	Gradation/ Sieve analysis	IS:2386 (Part1)	1 test per day	1827	1827	0	623	49	18	49	18	0	0	1876	1876	0	641
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	MORTH Sec. 1000 2383	1 test per day	1685	1685	0	551	49	18	49	18	0	0	1734	1734	0	569
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

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19.0 Coarse Aggregate MoRTH 1000																	
19.1	Gradation	IS:2386 (Part I)	1 test per day	175	175	0	613	19	18	19	18	0	0	177	177	0	633
19.2	Specific gravity & Water absorption	IS:2386 (Part3)	As required	18	18	0	18	0	0	0	0	0	0	18	18	0	18
19.3	Aggregate Impact Value	IS:2386 (Part4)	1 test / each source 2 monthly	161	161	0	788	17	6	17	6	0	0	173	173	0	794
19.4	Flatiness index	IS:2386 (Part1)	1 test / each source 2 monthly	131	131	0	198	17	6	17	6	0	0	143	143	0	701
19.5	Soundness	IS:2386 (Part5)	As required	7	7	0	7	0	0	0	0	0	0	7	7	0	7
19.6	Alkali aggregate reactivity test	IS:2386 (Part VII) : 1963	1 test per source	7	7	0	7	0	0	0	0	0	0	7	7	0	7
19.7	Deleterious constituents	IS:2386 (Part7)	1 test per source	7	7	0	7	0	0	0	0	0	0	7	7	0	7
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) MoRTH 1800																	
20.1	Chemical test/ Physical test	IS:1031, 1829	1 test per source	11	11	0	9	0	0	0	0	0	0	11	11	0	9
20.2	Fineness	IS:1031 (Part1)	Every batch	276	276	0	943	8	2	8	2	0	0	284	284	0	918
20.3	Normal Consistency	IS:1031 (Part1)	Every batch	198	198	0	942	8	2	8	2	0	0	206	206	0	918
20.4	Initial & Final setting time	IS:1031 (Part5)	Every batch	198	198	0	942	8	2	8	2	0	0	206	206	0	918
20.5	Soundness of Cement	IS:1031 (Part3)	Every batch	117	117	0	909	8	2	8	2	0	0	150	150	0	934
20.6	Compressive Strength test	IS:1031 (Part6)															
	3 days		1 test per Lot	152	152	0	981	/	2	/	2	0	0	160	160	0	984
	7 days		1 test per Lot	112	112	0	991	/	1	/	1	0	0	120	120	0	998
	28 days		1 test per Lot	139	139	0	187	/	2	/	2	0	0	116	116	0	198
21.0 Concrete Cube Strength																	
	M15 PCC																
	7Days Compressive Strength	MoRTH Sec. 1 /00	MoRTH Sec. 1 /00 No. of sets	111	111	0	929	5	8	5	0	0	0	116	116	0	929
	28 Days Compressive Strength			1711	1711	0	183	17	5	17	5	0	0	1776	1776	0	190
	M20 FEPB																
	7Days Compressive Strength	MoRTH Sec. 1 /00	MoRTH Sec. 1 /00 No. of sets	96 /	99 /	0	12	0	0	0	0	0	0	96 /	99 /	0	12
	28 Days Compressive Strength			119	119	0	190	0	0	0	0	0	0	119	119	0	190
	M20 PCC																
	7Days Compressive Strength	MoRTH Sec. 1 /00	MoRTH Sec. 1 /00 No. of sets	138	138	0	189	0	0	0	0	0	0	138	138	0	189
	28 Days Compressive Strength			151	151	0	918	0	0	0	0	0	0	151	151	0	918
	M25 PCC																
	7Days Compressive Strength	MoRTH Sec. 1 /00	MoRTH Sec. 1 /00 No. of sets	136	136	0	16	0	0	0	0	0	0	136	136	0	16
	28 Days Compressive Strength			17	17	0	15	0	0	0	0	0	0	17	17	0	15
	M25 PCC																
	7Days Compressive Strength	MoRTH Sec. 1 /00	MoRTH Sec. 1 /00 No. of sets	97	97	0	10	2	2	2	2	0	0	99	99	0	17
	28 Days Compressive Strength			11	11	0	18	1	0	1	0	0	0	18	18	0	18

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	M30 PCC																
	7 Days Compressive Strength	MoRTSH Sec. 1 /00	MoRTSH Sec. 1 /00 No of sets	800	800	0	971	15	2	15	2	0	0	815	815	0	971
	28 Days Compressive Strength			1315	1315	0	491	21	9	21	9	0	0	1336	1336	0	500
	M30 PCC PUMPABLE																
	7 Days Compressive Strength	MoRTSH Sec. 1 /00	MoRTSH Sec. 1 /00 No of sets	116	116	0	57	9	1	9	1	0	0	125	125	0	52
	28 Days Compressive Strength			286	286	0	141	5	0	5	0	0	0	291	291	0	141
	M35 PCC																
	7 Days Compressive Strength	MoRTSH Sec. 1 /00	MoRTSH Sec. 1 /00 No of sets	397	397	0	191	0	0	0	0	0	0	397	397	0	191
	28 Days Compressive Strength			805	805	0	115	2	0	2	0	0	0	807	807	0	115
	M35 PILING																
	7 Days Compressive Strength	MoRTSH Sec. 1 /00	MoRTSH Sec. 1 /00 No of sets	981	981	0	511	0	0	0	0	0	0	981	981	0	511
	28 Days Compressive Strength			2989	2989	0	1555	0	0	0	0	0	0	2989	2989	0	1555
	M35 PCC PUMPABLE																
	7 Days Compressive Strength	MoRTSH Sec. 1 /00	MoRTSH Sec. 1 /00 No of sets	978	978	0	101	17	5	17	5	0	0	995	995	0	104
	28 Days Compressive Strength			2956	2956	0	1537	36	15	36	15	0	0	2992	2992	0	1541
	M35 PE BLOCK																
	7 Days Compressive Strength	MoRTSH Sec. 1 /00	MoRTSH Sec. 1 /00 No of sets	795	795	0	398	0	0	0	0	0	0	795	795	0	398
	28 Days Compressive Strength			2270	2270	0	1158	0	0	0	0	0	0	2270	2270	0	1158
	M40 PUMP & M40 PCC																
	7 Days Compressive Strength	MoRTSH Sec. 1 /00	MoRTSH Sec. 1 /00 No of sets	866	866	0	379	20	6	20	6	0	0	886	886	0	335
	28 Days Compressive Strength			1981	1981	0	1171	30	18	30	18	0	0	1921	1921	0	1157
	M40 PCC																
	7 Days Flexural Strength	As Per IS Code	As Per IS Code	17	17	0	17	0	0	0	0	0	0	17	17	0	17
	28 Days Flexural Strength			30	30	0	30	0	0	0	0	0	0	30	30	0	30
	7 Days Compressive Strength	As Per IS Code	As Per IS Code	17	17	0	17	0	0	0	0	0	0	17	17	0	17
	28 Days Compressive Strength			30	30	0	30	0	0	0	0	0	0	30	30	0	30
	M40 PILING																
	7 Days Compressive Strength	MoRTSH Sec. 1 /00	MoRTSH Sec. 1 /00 No of sets	306	306	0	95	0	0	0	0	0	0	306	306	0	95
	28 Days Compressive Strength			997	997	0	571	0	0	0	0	0	0	997	997	0	571
	M45 PUMP																
	7 Days Compressive Strength	MoRTSH Sec. 1 /00	MoRTSH Sec. 1 /00 No of sets	369	369	0	150	13	6	13	6	0	0	382	382	0	156
	28 Days Compressive Strength			1070	1070	0	386	7	7	7	7	0	0	1077	1077	0	386
	M60 PCC PUMP																
	7 Days Compressive Strength	MoRTSH Sec. 1 /00	MoRTSH Sec. 1 /00 No of sets	19	19	0	17	0	0	0	0	0	0	19	19	0	17
	28 Days Compressive Strength			39	39	0	53	0	0	0	0	0	0	39	39	0	53
	M60 PUMP																
	7 Days Compressive Strength	MoRTSH Sec. 1 /00	MoRTSH Sec. 1 /00 No of sets	376	376	0	186	19	10	19	10	0	0	395	395	0	196
	28 Days Compressive Strength			1955	1955	0	957	60	11	60	11	0	0	2015	2015	0	968

PATEL SETHIYAHOPU CHOLOPURAM HIGHWAY PVT. LTD.

Four Laning of Sethiyahopu - Cholapuram from Km. 65.960 to 116.440 section of NH-45C in the state of Tamil Nadu under NHDP Phase-IV on Hybrid Annuity Mode

STATUS OF NCR

Sl No	NCR NO	Date	Location		Description of NCR	NCR Issued reference	Concessionaire Reply Reference	NCR Closed Reference	Remarks
			From	To					
1	NCR - 01	30.01.2019	Box Culver at Km:76+390 (LHS)		Improper Ground Improvement for Box culver at Km:76+390	Lr.No.221_30.01.2019	Lr.No.280_14.02.2019	Lr.No.258_20.03.2019	Closed
2	NCR - 02	23.05.2019	Minor Bridge at Km:79+795 (LHS)		a) Improper compaction/vibration f Abtment -1 wall 2nd lift lead to honey combs. b) No cover to the reinforcement in Abutment -1 wall 2nd lift	Lr.No.304_23.05.2019	Lr.No.956_13.08.2021	Lr.No.630A_13.08.2021	Closed
3	NCR - 03	23.05.2019	Abutment A2 of Minor Bridge at Km:85+435 (LHS)		Improper alignment (plumb) of Abutment-2 wall 2nd lift	Lr.No.305_23.05.2019	Lr.No.958_15.08.2021	Lr.No.631A_21.08.2021	Closed
4	NCR - 04	23.05.2019	Pile cap for Abutment A2 of VUP at Km.102+975 LHS		Honey combs in Pile cap for Abutment A2 of VUP at Km.102+975 LHS	Lr.No.306_23.05.2019	Lr.No.959_15.08.2021	Lr.No.632A_31.08.2021	Closed
5	NCR - 05	15.11.2019	HW between Km:93+900 to Km.94+200 (RHS)		Rectification required in Median kerb	Lr.No.403_15.11.2019 Lr.No.478_09.07.2020	Lr.No.1008_22.11.2021	Lr.No.646_26.11.2021	Closed
6	NCR - 06	13.12.2019	HW between Km:82+850 to Km.82+970 (RHS)		WMM segregation	Lr.No.429_13.12.2019	Lr.No.766_23.12.2020	Lr.No.551_29.01.2021	Closed
7	NCR - 07	09.07.2020	Diversion road damaged at Km:97+300 to Km:97+600		Diversion road damaged	Lr.No.476_09.07.2020	Lr.No.727_02.10.2020	Lr.No.509_14.10.2020	Closed
8	NCR - 08	23.07.2020	95+990 to 96+100(RHS) 96+230 to Km:96+300(RHS)		Improper laying of Kerb and not as per approved drawings	Lr.No.482_23.07.2020	Lr.No.1009_22.11.2021	Lr.No.647_26.11.2021	Closed
9	NCR - 09	31.07.2020	96+300 to 96+400(RHS)		Kerb mould is not as per the approved drawings	Lr.No.484_31.07.2020	Lr.No.1010_22.11.2021	Lr.No.648_27.11.2021	Closed
10	NCR - 10	18.08.2020	96+100 to 96+220(RHS)		Kerb mould is not as per the approved drawings	Lr.No.489_18.08.2020	Lr.No.1011_22.11.2021	Lr.No.649_29.11.2021	Closed
11	NCR - 11	12.11.2020	Km.83+950 to Km.84+100		Excavated Embankment fill and used in Subgrade layer	Lr.No.523_12.11.2020	Lr.No.774_02.12.2020	Lr.No.552_29.01.2021	Closed
12	NCR - 12	02.12.2021	Km.83+940 to Km.84+080 (LHS)		Median kerb laying is not in line and level	Lr.No.591_02.12.2021	Lr.No.1012_22.11.2021	Lr.No.650_29.11.2021	Closed
13	NCR - 13	03.04.2021	Box Culvert at Km:77+766 (LHS)		Box Culvert without proper shuttering and reinforcement exposed.	Lr.No.587_03.04.2021	Lr.No.888_12.05.2021	Lr.No.597A_12.05.2021	Closed
14	NCR - 14	05.05.2021	RE wall of VUP at Km:90+580		Unsuitable soil is used in RE wall embankment filling at Km:90+580 (VUP)	Lr.No.596_05.05.2021	Lr.No.892_18.05.2021	Lr.No.603_22.06.2021	Closed

7. Weather Report -Meensurtti

DATE	Temperature (°C)		Rainfall in mm	Humidity in %		Remarks
	Max	Min		Max	Min	
1-Feb-22	31.80	26.80	0.00	83	52	Sunny
2-Feb-22	30.10	24.80	0.00	82	56	Sunny
3-Feb-22	31.80	25.00	0.00	80	53	Sunny
4-Feb-22	31.60	24.00	0.00	81	52	Sunny
5-Feb-22	31.20	24.90	0.00	82	51	Sunny
6-Feb-22	30.60	25.50	0.00	83	50	Sunny
7-Feb-22	31.70	26.10	0.00	80	54	Sunny
8-Feb-22	30.90	25.70	0.00	82	51	Sunny
9-Feb-22	31.70	25.80	0.00	80	53	Sunny
10-Feb-22	30.90	25.10	0.00	82	52	Sunny
11-Feb-22	27.20	25.80	39.00	79	66	Rainy
12-Feb-22	29.70	23.90	0.00	86	58	Sunny
13-Feb-22	30.10	25.40	0.00	82	56	Sunny
14-Feb-22	31.20	23.80	0.00	84	52	Sunny
15-Feb-22	31.70	23.90	0.00	85	53	Sunny
16-Feb-22	32.00	23.40	0.00	87	52	Sunny
17-Feb-22	30.60	23.80	0.00	80	51	Sunny
18-Feb-22	31.70	24.30	0.00	81	50	Sunny
19-Feb-22	30.90	24.40	0.00	82	51	Sunny
20-Feb-22	31.20	24.60	0.00	85	50	Sunny
21-Feb-22	31.70	25.90	0.00	86	53	Sunny
22-Feb-22	31.70	25.80	0.00	85	52	Sunny
23-Feb-22	31.90	25.90	0.00	86	53	Sunny
24-Feb-22	30.80	25.80	0.00	82	57	Sunny
25-Feb-22	31.40	24.90	0.00	80	50	Sunny
26-Feb-22	31.90	25.10	0.00	79	51	Sunny
27-Feb-22	32.00	25.80	0.00	81	51	Sunny
28-Feb-22	30.90	24.90	0.00	84	54	Sunny

Weather Report Anakarai

DATE	Temperature (°C)		Rainfall in mm	Humidity in %		Remarks
	Max	Min		Max	Min	
1-Feb-22	34.30	24.00	0.00	88	49	Sunny
2-Feb-22	34.80	23.80	0.00	91	51	Sunny
3-Feb-22	34.00	24.10	0.00	92	50	Sunny
4-Feb-22	34.10	23.80	0.00	90	52	
5-Feb-22	34.30	23.40	0.00	89	51	Sunny
6-Feb-22	34.60	23.70	0.00	91	50	Sunny
7-Feb-22	34.00	24.20	0.00	87	47	Sunny
8-Feb-22	34.20	23.80	0.00	89	49	Sunny
9-Feb-22	34.30	23.70	0.00	90	51	Sunny
10-Feb-22	33.90	24.10	0.00	88	48	Sunny
11-Feb-22	34.10	23.70	0.00	91	50	Sunny
12-Feb-22	34.30	24.00	0.00	90	47	Sunny
13-Feb-22	34.90	23.70	0.00	89	49	Sunny
14-Feb-22	34.20	24.10	0.00	91	51	Sunny
15-Feb-22	33.90	23.80	0.00	92	53	Sunny
16-Feb-22	33.80	23.50	0.00	91	51	Sunny
17-Feb-22	34.10	23.10	0.00	92	52	Sunny
18-Feb-22	34.10	23.80	0.00	90	50	Sunny
19-Feb-22	35.30	23.60	0.00	89	52	Sunny
20-Feb-22	34.90	24.50	0.00	86	46	Sunny
21-Feb-22	34.60	24.90	0.00	87	47	Sunny
22-Feb-22	34.30	23.90	0.00	89	48	Sunny
23-Feb-22	34.70	24.20	0.00	91	49	Sunny
24-Feb-22	34.60	24.00	0.00	90	47	Sunny
25-Feb-22	34.40	24.10	0.00	88	48	Sunny
26-Feb-22	33.80	23.80	0.00	90	47	Sunny
27-Feb-22	34.10	24.00	0.00	87	47	Sunny
28-Feb-22	34.30	23.90	0.00	88	49	Sunny

8. Safety

- 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	81+850	9.3m	To be shifted to edge of PROW	Deposit Amount remitted to PWD/WRO. Work yet to be commenced.
2	81+870	1.8m	To be shifted to edge of PROW	
3	81+910	1.8m	To be shifted to edge of PROW	
4	82+010	1.8m	To be shifted to edge of PROW	
5	82+100	7.4m	To be shifted to edge of PROW	
6	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.	92+455	Temple	LHS	14	Type - A3	18.80	23.70	
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	
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.	99+710	Temple	LHS	20	Type - A3	17.95	25.00	

14. Removal of Government Buildings

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. Sathiyahopu- Cholapruram 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.

22. COVID-19 cases due to 3rd wave is being drastically increased and occurring never-seen before spikes in infected cases of COVID-19 day by day. You may also aware that in our country 3.47 Lakh new cases in a day have been recorded on 20.01.2022, which is already

bigger than the peak of the first wave of this pandemic in India and continuously increasing day by day.

It clearly shows that the 3rd wave of COVID-19 is spreading rapidly. It is also pertinent to mention that in Tamil Nadu 28,561 cases in a day have been recorded on 20.01.2022 (for reference, the highest number of cases per day in Tamil Nadu during the peak of 2nd wave was 36,184 cases per day on 21st May 2021) and continuously increasing day by day

In view of rising daily cases of the coronavirus disease (Covid-19), the Tamil Nadu government has imposed a complete lockdown in the state on Sunday (January 16, 2022) in view of the rising Covid-19 cases. The state government has been reimposing a Sunday lockdown in the state since January 9. The Tamil Nadu government had also extended the existing Covid-19 lockdown restrictions, including night curfew and imposed fresh restrictions around the Pongal festival till January 31. The city of Thanjavur has been continuing to report majority of cases in Tiruchirapalli region along with Tiruchi. This is the first time such a high number has been reported after the second wave in May 2021.

10. Important Events

Table 10.1. Details of Important Events

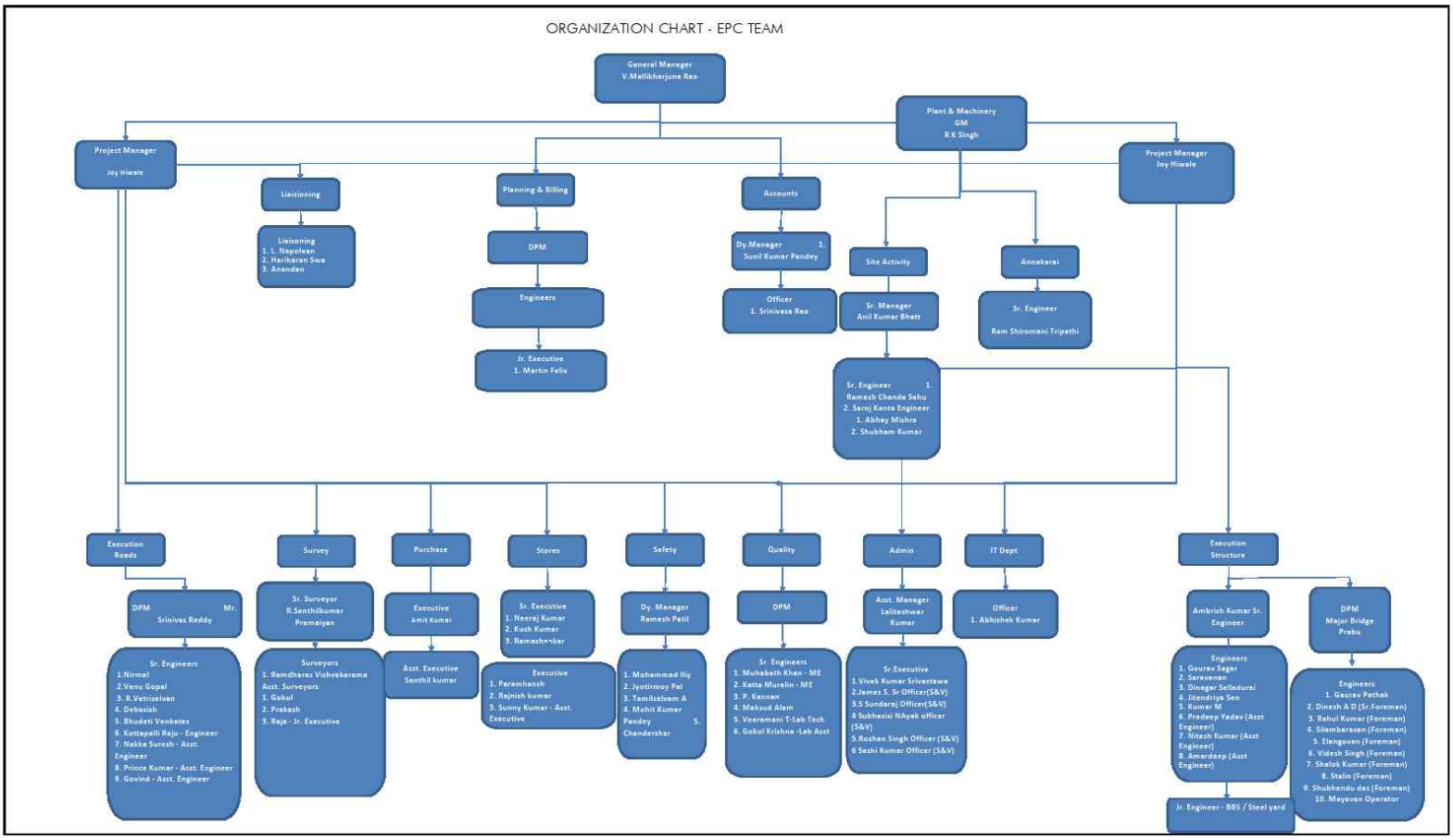
Sl. No	Date of Events	Description of Events	Remarks
1.	16.02.2022	RO Madurai Site Inspection	

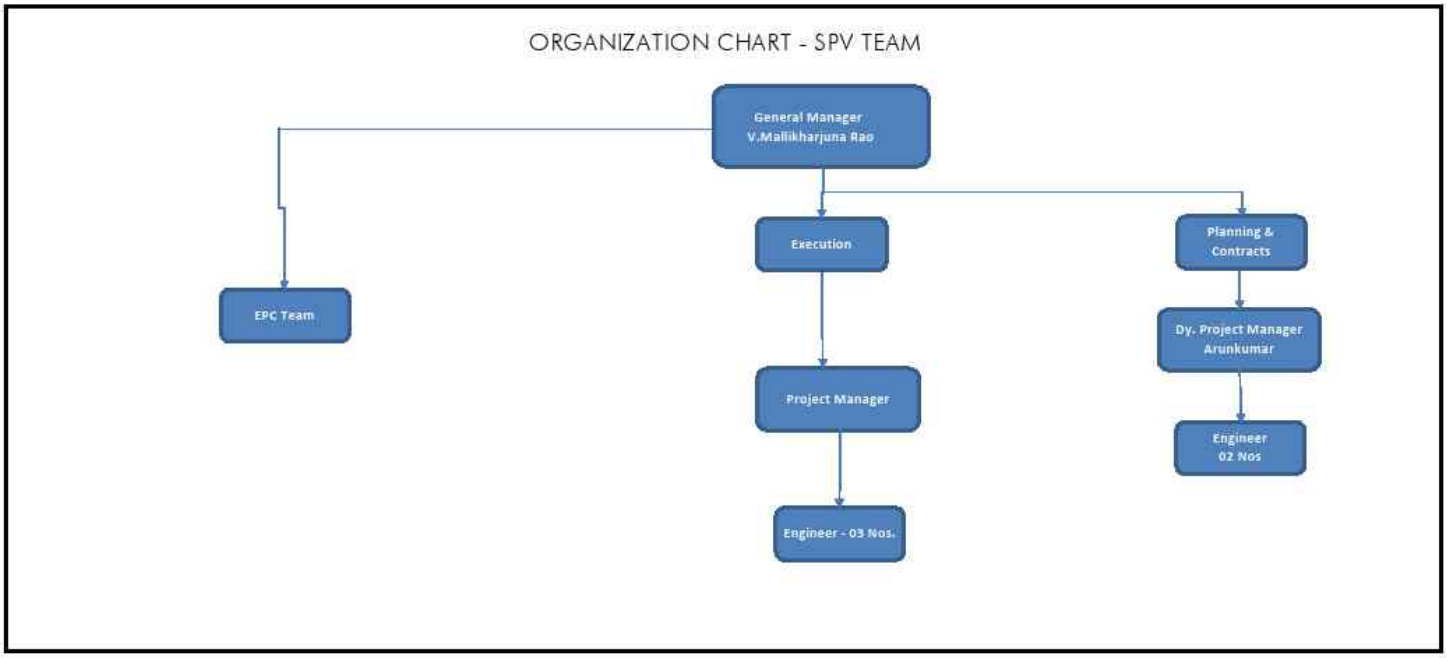
11. Organization Chart

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
General Manager
V.Mallikharjuna Rao
EPC Team
Execution
Project Manager
Engineer - 03 Nos.
Planning &
Contracts
Dy. Project Manager
Arunkumar
Engineer
02 Nos

12. List of Plants, Machinery and Equipments

Table 12.1 - List of Plants, Machinery and Equipments

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.

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/upgrade 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	05.02.2022	PSCHPL/SCP/NHAI/2022/1044	Submission of GST Payment Auditor Certificate Return and Request to release the withheld GST Amount	
2	07.02.2022	PSCHPL/SCP/NHAI/2022/1045	Construction activities hampered due to protest of local villagers at 89+550 (BHS).	
3	10.02.2022	PSCHPL/SCP/NHAI/2022/1047	Additional land acquisition for insufficient ROW Requested by the concessionaire -preparation and submission of land plan schedule-Concessionaire Reply comments.	
4	10.02.2022	PSCHPL/SCP/NHAI/2022/1048	Compliance Report - Chief Minister's Cell Petition no.2355781.	
5	11.02.2022	PSCHPL/SCP/NHAI/2022/1049	Anaiwari village kattumannarkoil taluk in cuddalore district Sh. Renganathan S/o. Chinnamani - No Objection Certificate requested.	
6	11.02.2022	PSCHPL/SCP/NHAI/2022/1050	Compliance Report- Encroachment on kundaveli east - removal requested	
7	11.02.2022	PSCHPL/SCP/NHAI/2022/1051	Anaiwari village kattumannarkoil taluk in cuddalore district Sh. Renganathan S/o. Chinnamani - No Objection Certificate requested.	
8	11.02.2022	PSCHPL/SCP/NHAI/2022/1052	Requested received from kundaveli (East) majra meensurutty village people for drainage facilities and pathway into over bridge	
9	11.02.2022	PSCHPL/SCP/NHAI/2022/1053	Shifting of Existing irrigation sluice.	
10	11.02.2022	PSCHPL/SCP/NHAI/2022/1054	Recording of Drone Videos-Submission of RA bill 01 as per NHAI Policy guidelines	
11	16.02.2022	PSCHPL/SCP/NHAI/2022/1057	Submission of copy of design and drawing of launching scheme for precast segmental construction of 50m span.	
12	16.02.2022	PSCHPL/SCP/NHAI/2022/1058	Submission of revised SOP-Lifting of pond Ash for road works from stage I & Interconnection Ash Pond for NHAI road Projects	
13	19.02.2022	PSCHPL/SCP/NHAI/2022/1061	Submission of Animation Mapping of fallen span of proposed major bridge at Km 107+400.	

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	03.02.2022	NHAI/PIU/Thanj/11025/03/2018/277	Request to remove the name boards in nandeeswarmangalam village of srimushnam taluk in cuddalore district	
2	04.02.2022	NHAI/PIU/Thanj/11017/01/2009/290	Cholatharam village of kattumannarkoil taluk in cuddalore district -Representation by the MLA Kattumannarkoil	
3	10.02.2022	NHAI/PIU/Thanj/11025/11/2018/338	Taking up of emergency maintenance works at severely damaged portions through concessionaire of adjacent package.	
4	11.02.2022	NHAI/PIU/Thanj/11025/11/2018/345	Taking up of emergency maintenance works at severely damaged portions through concessionaire of adjacent package.	
5	14.02.2022	NHAI/PIU/Thanj/11025/03/2018/358	Request received from kundaveli (east) Majra meensurutty village people for drainage facilities and pathway into over bridge	
6	17.02.2022	NHAI/PIU/Thanj/11025/03/2018/403	Cholathram village of srimushnam taluk in cuddalore district-VIP & public representation for providing various facilities -Report requested.	
7	17.02.2022	NHAI/PIU/Thanj/11025/17/2018/413	NLCIL Lifting of pond ash for road works from stage I & Interconection ash pond for NHAI road project -Grant for EOT.	
8	18.02.2022	NHAI/PIU/Thanj/11025/17/2018/417	Lifting of pond Ash for Rad Works from Stage I & Interconnection Ash Pond - Submission of Revised SOP	
9	18.02.2022	NHAI/PIU/Thanj/11025/03/2018/424	Acquistion of land in thalathalaimedu village-Irrigation tank & Chennai demolished-Restoration requested.	
10	18.02.2022	NHAI/PIU/Thanj/11017/02/2009/425	Installation of HT tower in sethiyathopu village objections made.	
11	21.02.2022	NHAI/PIU/Thanj/11025/03/2018/444	Villages representation.	
12	22.02.2022	NHAI/PIU/Thanj/11019/52/2017/463	Independent Consultancy Services for the month of September'2021 - 50% Claim	
13	22.02.2022	NHAI/PIU/Thanj/11019/52/2017/464	Independent Consultancy Services for the month of Oct'2021 - 50% Claim	
14	22.02.2022	NHAI/PIU/Thanj/11025/09/2018/465	Independent Consultancy Services for the month of Nov'2021 - 50% Claim	
15	23.02.2022	NHAI/PIU/Thanj/11025/09/2018/475	Shifting of existing drainage inlet sluices.	

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	02.02.2022	PSCHPL/SCP/IE/2022/1042	Submission of Methodology for Rebarring in Girders with Epoxy resin.	
2	02.02.2022	PSCHPL/SCP/IE/2022/1043	Submission of third party test reports on HT Strands from Usha Martin Limited	
3	07.02.2022	PSCHPL/SCP/IE/2022/1046	Submission of Monthly Progress Report for the month of January 2022	
4	21.02.2022	PSCHPL/SCP/IE/2022/1062	Soil test Report for the Proposed Borrow Area of the Project (BA No 41)	
5	21.02.2022	PSCHPL/SCP/IE/2022/1063	Submission of Design & Drawings for Toll plaza at Km 105+500.	
6	22.02.2022	PSCHPL/SCP/IE/2022/1064	Submission of Compliance Report - Comprehensive proposal for COS-2 - Observation Called for	
7	23.02.2022	PSCHPL/SCP/IE/2022/1065	Submission of Comprehensive details towards the proposal for deletion of 6.130 km of Non-Workable stretches in the Project as on 31.05.2021.	
8	23.02.2022	PSCHPL/SCP/IE/2022/1067	Submission of Drawing for Rain Water Harvesting Scheme.	

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	08.02.2022	TES/IE/SCP/PIL/2022/661	Quality Inspection Team visit on 25.10.2021 to 29.10.2021. - Compliance report called.	
2	09.02.2022	TES/IE/SCP/PIL/2022/662	Site observations -Plantation	
3	12.02.2022	TES/IE/SCP/PIL/2022/663	Concurrence of overhead gantry boards.	
4	17.02.2022	TES/IE/SCP/PIL/2022/664	Instruction for Plantation.	
5	17.02.2022	TES/IE/SCP/PIL/2022/665	Site Observation-Turfing.	
6	18.02.2022	TES/IE/SCP/PIL/2022/666	Submission of comprehensive details towards the proposal for deletion of 6.130 Km of Non Workable stretches in the project as on 31.05.2021 observations.	
7	21.02.2022	TES/IE/SCP/NHAI/2022/326	IE Inspection Report for the month of January 2022.	
8	21.02.2022	TES/IE/SCP/PIL/2022/667	Rebarring in Girders with Epoxy resin	
9	22.02.2022	TES/IE/SCP/PIL/2022/668	Site Observation	
10	23.02.2022	TES/IE/SCP/PIL/2022/328	Acquistion of land pudaiyur village of srimushnam taluk in cuddalore district-provision of service road requested	
11	24.02.2022	TES/IE/SCP/PIL/2022/669	Proposal of borrow area No-41	

15. Progress Photographs

Sl.No	Description	Location	Side
1	CTSB Top Laying Work in Progress	103+790	RHS

Sl.No	Description	Location	Side
2	WMM Laying work in Progress	103+790	RHS
3	WMM Laying work in Progress	99+520	LHS

Sl.No	Description	Location	Side
4	DBM Laying work in Progress	103+800	LHS
5	DBM Laying work in Progress	103+790	RHS

Sl.No	Description	Location	Side
6	BC Laying Work in Progress	104+900	RSR
7	BC Laying Work in Progress	74+360	LSR

Sl.No	Description	Location	Side
8	PSC Girder Launching work in Progress	66+530 MJB	LHS
9	Abutment Cap Concrete work in Progress	87+670 VUP	RHS

Sl.No	Description	Location	Side
10	PGR Frame Foundation Concrete work in Progress	89+556	LHS
11	Hazard Marker Sign Board Installation work in Progress	79+795	LHS