

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
Section of NH-45C under NHDP-IV on Hybrid Annuity Mode Basis.

PATEL SETHIYAHOPU-CHOLOPURAM HIGHWAY PRIVATE LIMITED



MONTHLY PROGRESS REPORT
JANUARY 2023

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Executive Summary

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

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

Project Synopsis

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

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

Figure 1: Project Location Map

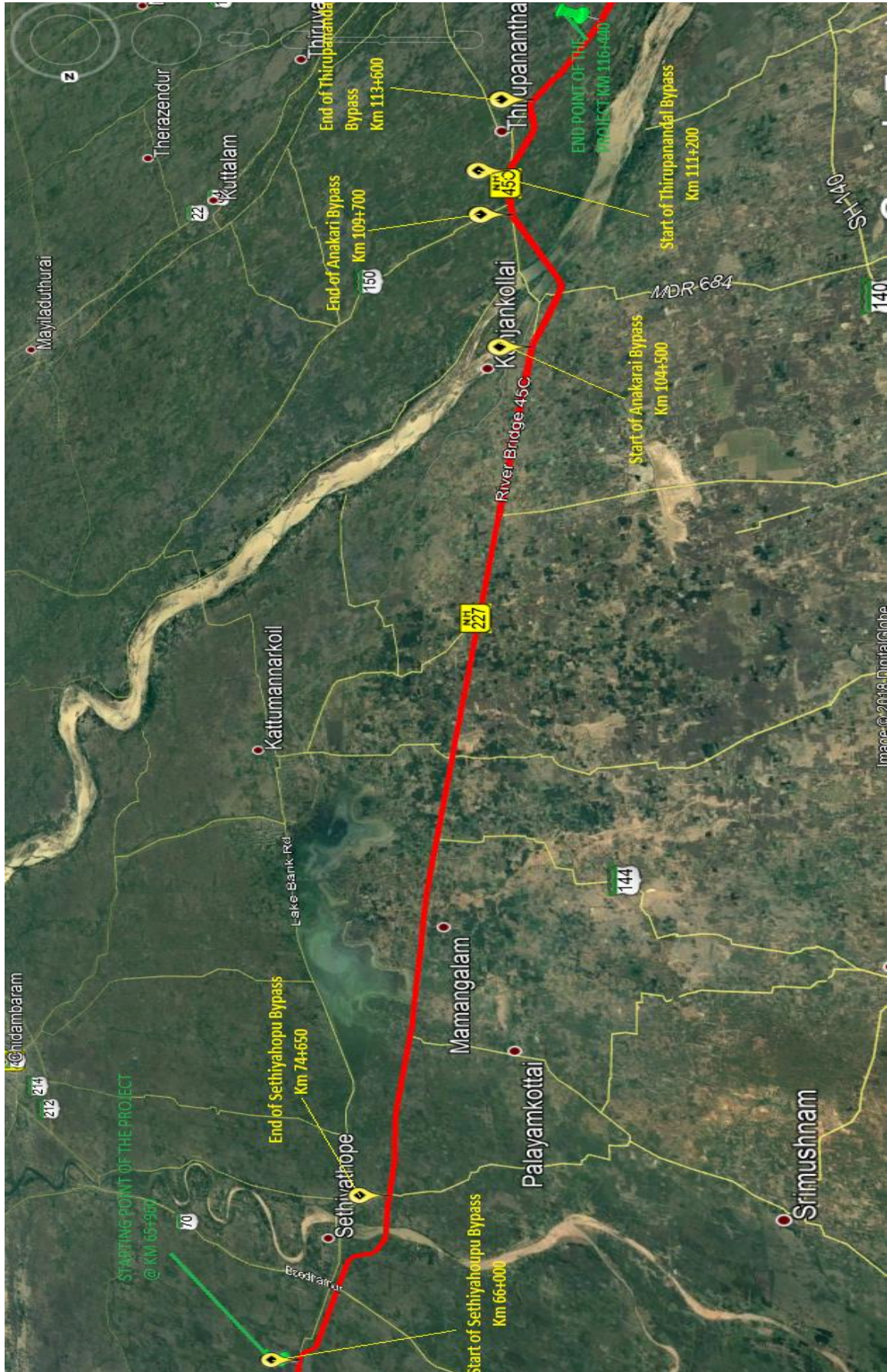
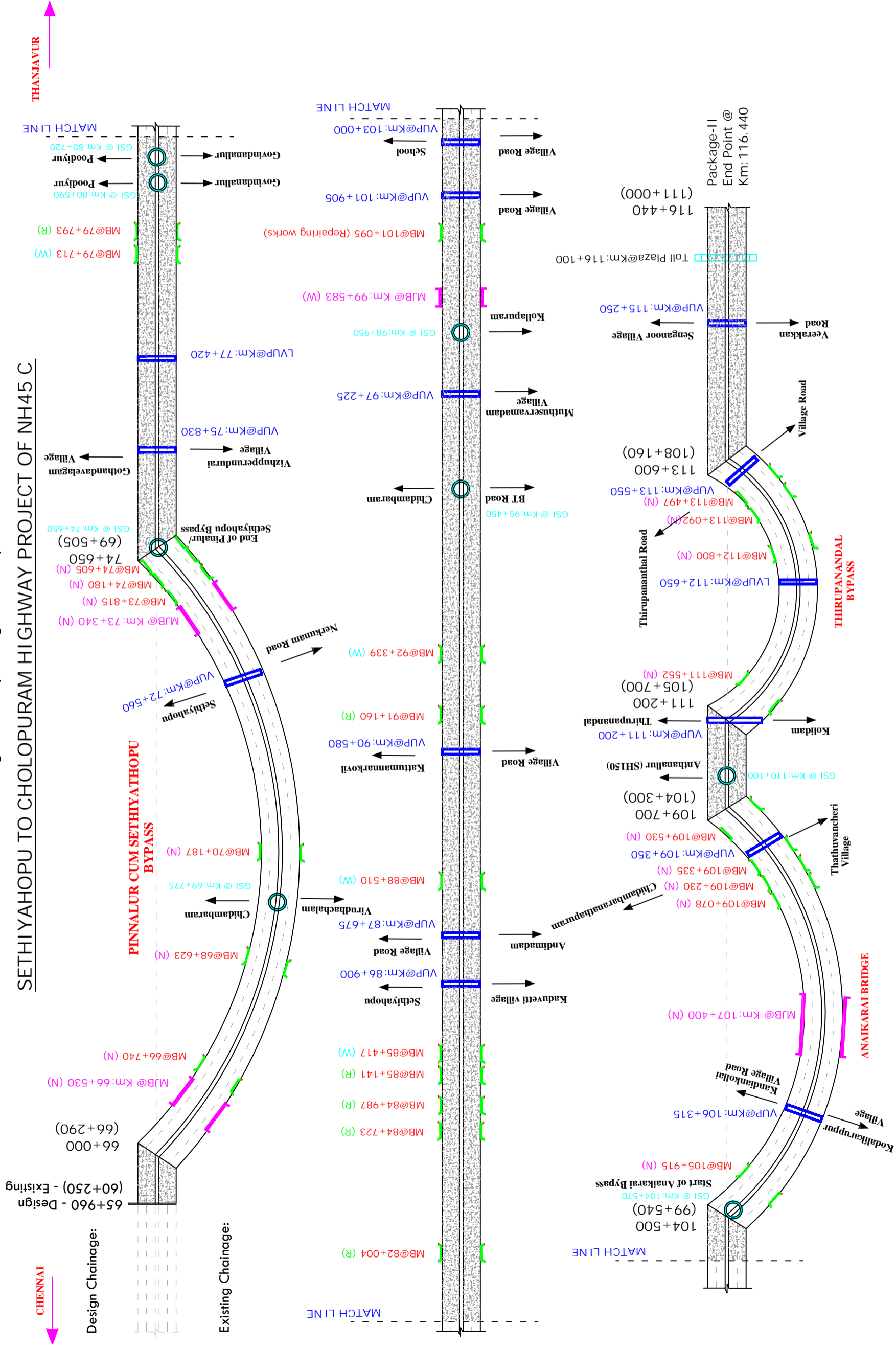


Figure 2: Project Alignment Map
 SETHIYAHOPU TO CHOLOPURAM HIGHWAY PROJECT OF NH45 C



THANJAVUR

CHENNAI

Design Chainage:

Existing Chainage:

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

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

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

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

Anaikarai Bypass
 Km: 104+500 to 109+700

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

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

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

Thirupananthal Bypass
 Km: 111+200 to 113+600

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

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

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

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:

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

Drawing Title

Strip Plan - Sethiyahopu to Cholapuram Highway Project

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

Table - 1.1: Details of Project Alignments

Existing and Proposed Alignments							
Sl. no.	Existing Chainage (Km)		Design Chainage (Km)		LENGTH (Km)	TCS Type	Remarks
	From	To	From	To			
1	60.250	Bypass	65.960	69.460	3.500	Type-A-3 (Fig 2.4 of the manual)	Bypass
2	Bypass	Bypass	69.460	70.090	0.630	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
3	Bypass	Bypass	70.090	72.350	2.260	Type-A-3 (Fig 2.4 of the manual)	Bypass
4	Bypass	Bypass	72.350	72.775	0.425	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
5	Bypass	Bypass	72.775	74.335	1.560	Type-A-3 (Fig 2.4 of the manual)	Bypass
6	Bypass	69.820	74.335	74.960	0.625	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
7	69.820	70.375	74.960	75.520	0.560	Type-A-3 (Fig 2.4 of the manual)	Eccentric Widening
8	70.375	71.010	75.520	76.150	0.630	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
9	71.010	71.855	76.150	76.900	0.750	Type-B (Fig 2.6 of the manual) with both side service road	Eccentric Widening
10	71.855	72.170	76.900	77.220	0.320	Type-B (Fig 2.6 of the manual) with both side service road	Concentric Widening
11	72.170	72.570	77.220	77.620	0.400	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
12	72.570	72.800	77.620	77.850	0.230	Type-B (Fig 2.6 of the manual) with both side service road	Concentric Widening
13	72.800	73.230	77.850	78.300	0.450	Type-B (Fig 2.6 of the manual) with both side service road	Eccentric Widening
14	73.230	75.105	78.300	80.150	1.850	Type-A-3 (Fig 2.4 of the manual)	Eccentric Widening
15	75.105	76.080	80.150	81.120	0.970	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
16	76.080	76.460	81.120	81.500	0.380	TCS-1	Concentric Widening
17	76.460	77.000	81.500	82.240	0.740	Type-A-3 (Fig 2.4 of the manual)	Eccentric Widening

18	77.000	78.115	82.240	83.150	0.910	Type-B (Fig 2.6 of the manual) with both side service road	Eccentric Widening
19	78.115	79.110	83.150	84.150	1.000	Type-B (Fig 2.6 of the manual) with both side service road	Concentric Widening
20	79.110	79.510	84.150	84.550	0.400	Type-B (Fig 2.6 of the manual) with both side service road	Eccentric Widening
21	79.510	80.610	84.550	85.650	1.100	Type-A-3 (Fig 2.4 of the manual)	Eccentric Widening
22	80.610	81.555	85.650	86.580	0.930	Type-B (Fig 2.6 of the manual) with both side service road	Concentric Widening
23	81.555	82.170	86.580	87.210	0.630	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
24	82.170	82.320	87.210	87.360	0.150	Type-B (Fig 2.6 of the manual) with both side service road	Concentric Widening
25	82.320	82.910	87.360	87.990	0.630	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
26	82.910	83.180	87.990	88.265	0.275	Type-B (Fig 2.6 of the manual) with both side service road	Concentric Widening
27	83.180	83.660	88.265	88.745	0.480	Type-A-3 (Fig 2.4 of the manual)	Eccentric Widening
28	83.660	85.220	88.745	90.265	1.520	Type-B (Fig 2.6 of the manual) with both side service road	Concentric Widening
29	85.220	85.850	90.265	90.895	0.630	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
30	85.850	86.555	90.895	91.600	0.705	Type-A-3 (Fig 2.4 of the manual)	Eccentric Widening
31	86.555	87.015	91.600	92.050	0.450	TCS-1	Concentric Widening
32	87.015	87.525	92.050	92.560	0.510	Type-A-3 (Fig 2.4 of the manual)	Eccentric Widening
33	87.525	90.000	92.560	95.035	2.475	Type-B (Fig 2.6 of the manual) with both side service road	Concentric Widening
34	90.000	90.830	95.035	95.865	0.830	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
35	90.830	91.350	95.865	96.400	0.535	Type-B (Fig 2.6 of the manual) with both side service road	Concentric Widening
36	91.350	91.970	96.400	96.910	0.510	TCS-1	Concentric Widening

37	91.970	92.460	96.910	97.535	0.625	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
38	92.460	93.550	97.535	98.535	1.000	TCS-1	Concentric Widening
39	93.550	94.370	98.535	99.335	0.800	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
39A	94.370	94.875	99.335	99.840	0.505	Type-A-3 (Fig 2.4 of the manual)	Eccentric Widening
40	94.875	95.350	99.840	100.300	0.460	Type-B (Fig 2.6 of the manual) with both side service road	
41	95.350	96.630	100.300	101.590	1.290	Type-A-3 (Fig 2.4 of the manual)	Eccentric Widening
42	96.630	97.260	101.590	102.225	0.635	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
43	97.260	97.720	102.225	102.685	0.460	Type-B (Fig 2.6 of the manual) with both side service road	Eccentric Widening
44	97.720	98.360	102.685	103.315	0.630	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
45	98.360	99.190	103.315	104.160	0.845	Type-B (Fig 2.6 of the manual) with both side service road	Eccentric Widening
46	99.190	Bypass	104.160	104.990	0.830	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
47	Bypass	Bypass	104.990	106.000	1.010	Type-A-3 (Fig 2.4 of the manual)	Bypass
48	Bypass	Bypass	106.000	106.625	0.625	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
49	Bypass	Bypass	106.625	109.035	2.410	Type-A-3 (Fig 2.4 of the manual)	Bypass
50	Bypass	104.260	109.035	109.660	0.625	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
51	104.260	105.015	109.660	110.515	0.855	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
52	105.015	105.390	110.515	110.890	0.375	Type-B (Fig 2.6 of the manual) with both side service road	Eccentric Widening
53	105.390	Bypass	110.890	111.515	0.625	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	

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

1. Background and Project Details

1.1. Project Overview

Name of Work	Four Laning of Sethiyahopu-Cholopuram from Km. 65.960 to Km. 116.440 Section 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, Plot No. 2, Annai Anjugam Nagar, Ullur, Chettimandapam, Kumbakonam – 612001.
EPC Contractor	M/s. Patel Infrastructure Limited, Patel House, Beside Prakruti Resorts, Channi Road, Vadodara Gujarat– 391740, Tel: +91-265 277 6678 Fax: +91-265 277 7878
Design Consultant	CTL Global Services Pvt. Ltd. 101, 1st Floor, Krishna Chambers, HAL, Airport Road, Bangalore-560017
Senior Lender	Punjab National Bank, Large Corporate Branch, Neelkamal Building, Opp. Sales India, Ashram Road, Ahmedabad - 380009
Lenders Independent Engineers	Sharul Techno-Financial Consultancy Services Pvt. Ltd., 403, Aspire Tower 5, Amanora Park Town, Hadapsar, Pune - 411028.
Length of Road (Design Length)	50.480 Kms
Total Bid Project 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 Dates as per CA	Revised Target Dates as per Settlement Agreement	Revised Target Dates recommended by PIU, NHAI considering EOT of 105 + 270 Days
Mile Stone -I	Concessionaire shall expended not less than 20 % of the Total capital cost and shall have commenced construction of the project and achieved 20% of physical progress on 214 th day from the Appointed Date.	18 th March 2019	➤ 31 st May'2021- Total 28.345 Km. four lane to be completed for PCOD-I.	➤ 13 th Sep'2021- Total 28.345 Km. four lane to be completed for PCOD-I (EOT of 105 days considered).
Mile Stone -II	Concessionaire shall expended not less than 35% of the Total capital cost and shall have commenced construction of the project and achieved 35% of physical progress on 334 th day from the Appointed Date.	16 th July 2019	➤ 30 th Nov'2021- Total 35.940 Km. four lane to be completed for PCOD-II.	➤ 28 th Feb'2023- Total 35.940 Km. four lane to be completed for PCOD-II (EOT of 105 + 270 days considered).
Mile Stone -III	Concessionaire shall expended not less than 75 % of the Total capital cost and shall have commenced construction of the project and achieved 75% of physical progress on 584 th day from the Appointed Date.	22 nd March 2020	➤ Balance 14.540 Km. four lane shall be handed over to the Concessionaire by 31 st May'2021 and shall be completed by 31 st July'2022.	➤ 10 th Aug'2023- Total 40.840 Km. four lane to be completed for PCOD-III (EOT of 105 + 270 days along with descope proposal in 9.640 Km length considered).
Sched uled Comp letion	Concessionaire shall have completed Project on 730 th day from the Appointed Date.	15 th August 2020		

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

However, out of 14.540 Kms, only 4.180 Kms was handed over to the Concessionaire by 31.05.2021. Out of the balance length equal to 10.360 Kms (i.e. 14.540 kms - 4.180 kms), Concessionaire considered 4.230 Kms length as workable length and remaining length equal to 6.130 Kms (i.e. 10.360 kms - 4.230 kms) was under approval of descope proposal at NHAI, HQ from the scope of work of Concessionaire.

The Competent Authority has communicated extension of time approval for 105 days due to occurrence of Force Majeure event on account of 2nd wave of COVID-19.

The Concessionaire had also requested to Authority/IE for the extension of time for PCOD-2 up to 28.02.2023 and PCOD-3 upto 10.08.2023 due to constraints of issue in obtaining permission for extracting soils from borrow area and also due to interruption in the availability of pond ash.

The Concessionaire had also submitted the proposal for additional descope to Authority / IE in 3.51 Km length in addition to the already proposed descope of 6.13 Km length due to interruption in the availability of pond ash required for the construction of RE Wall stretches and also due to local villagers were not allowing the concessionaire to continue the construction activities in some stretches. Hence, the concessionaire was not able to execute any construction activity in 3.51 Km length up to 31.05.2021 and submitted the proposal of additional de scope to Authority/IE.

In line of the submission done by the concessionaire, Independent Engineer has examined both the proposals submitted by the concessionaire and Independent Engineer vide IE letter no. 4906 & 4897 Dt. 04.11.2022 has recommended both the proposals to PIU, NHAI (i.e. total comprehensive descope proposal in 9.640 Km length (6.13Km+3.51Km) and extension of time proposal for PCOD-02 (completion of 35.940 Km) up to 28.02.2023 and extension of time proposal for PCOD-03 (completion of 40.840 Km duly considering the descope proposal of 9.640 Km length) up to 10.08.2023 for the approval of competent authority.

In line of the recommendation done by IE, PIU NHAI vide letter no. 3153 Dt. 04.11.2022 has also recommended both the proposals to RO, NHAI (i.e. total comprehensive descope proposal in 9.640 Km length (6.13Km+3.51Km) and extension of time proposal for PCOD-02 (completion of 35.940 Km) up to 28.02.2023 and extension of time proposal for PCOD-03 (completion of 40.840 Km duly considering the descope proposal of 9.640 Km length) up to 10.08.2023) for getting the approval from the competent authority.

Both the proposals recommended by PIU, NHAI (i.e. total comprehensive descope proposal in 9.640 Km length (6.13Km+3.51Km) and extension of time proposal for PCOD-02 (completion of 35.940 Km) up to 28.02.2023 and extension of time proposal for PCOD-03 (completion of 40.840 Km duly considering the descope proposal of 9.640 Km length) up to 10.08.2023) are under review of competent authority.

Status of Progress of Work as per Settlement Agreement Dt. 04.03.2021 :-

Sr. No.	Description	Target	Achieved as on date	Remarks
1	Completion of 28.345 Kms by 31.05.2021	55.00% (803.60 Cr.)	69.71%	IE vide letter no. 1144 dated 02.06.2022 has issued the Provisional Completion Certificate-1 (PCC-1) for the completion of 28.345 Kms w.e.f. 10.12.2021.
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.	110.94 Crs.	04.10.2019
Mile Stone-II	On Achievement of 30% of Physical Progress	116.88 Crs.	110.94 Crs.	25.09.2020
IPC No. 01 of Mile Stone-III (as per NHAI Policy Guidelines/Atmnirbhar Bharat)	On Achievement of 31.856% of Physical Progress	10.85 Crs.	10.29 Crs.	29.09.2020
IPC No. 02 of Mile Stone-III (as per NHAI Policy Guidelines/Atmnirbhar Bharat)	On Achievement of 32.758% of Physical Progress	5.27 Crs.	5.00 Crs.	10.11.2020
IPC No. 03 of Mile Stone-III (as per NHAI Policy Guidelines/Atmnirbhar Bharat)	On Achievement of 34.484% of Physical Progress	10.09 Crs.	9.57 Crs.	10.11.2020
IPC No. 04 of Mile Stone-III (as per NHAI Policy Guidelines/Atmnirbhar Bharat)	On Achievement of 35.144% of Physical Progress	3.86 Crs.	3.66 Crs.	10.12.2020

IPC No. 05 of Mile Stone-III (as per NHAI Policy Guidelines/Atmnirbhar Bharat)	On Achievement of 36.052% of Physical Progress	5.31 Crs.	5.04 Crs.	12.02.2021
IPC No. 06 of Mile Stone-III (as per NHAI Policy Guidelines/Atmnirbhar Bharat)	On Achievement of 37.886% of Physical Progress	10.72 Crs.	10.17 Crs.	18.03.2021
IPC No. 07 of Mile Stone-III (as per NHAI Policy Guidelines/Atmnirbhar Bharat)	On Achievement of 39.452% of Physical Progress	9.15 Crs.	8.69 Crs.	31.03.2021
IPC No. 08 of Mile Stone-III (as per NHAI Policy Guidelines/Atmnirbhar Bharat)	On Achievement of 40.979% of Physical Progress	8.92 Crs.	8.47 Crs.	10.05.2021
IPC No. 09 of Mile Stone-III (as per NHAI Policy Guidelines/Atmnirbhar Bharat)	On Achievement of 41.432% of Physical Progress	2.65 Crs.	2.51 Crs.	09.06.2021
IPC No. 10 of Mile Stone-III (as per NHAI Policy Guidelines/Atmnirbhar Bharat)	On Achievement of 43.429% of Physical Progress	11.67 Crs.	11.08 Crs.	16.07.2021
IPC No. 11 of Mile Stone-III (as per NHAI Policy Guidelines/Atmnirbhar Bharat)	On Achievement of 46.976% of Physical Progress	20.73 Crs.	19.67 Crs.	27.08.2021
IPC No. 12 of Mile Stone-III (as per NHAI Policy Guidelines/Atmnirbhar Bharat)	On Achievement of 49.966% of Physical Progress	17.47 Crs.	16.59 Crs.	20.09.2021
Payment Mile Stone-III & IPC No. 01 of Mile Stone-IV (as per NHAI Policy Guidelines/Atmnirbhar Bharat)	On achievement of 63.787% of physical progress	22.32 Crs.	21.20 Crs.	30.06.2022
IPC No. 02 of Mile Stone-IV (as per NHAI Policy Guidelines/Atmnirbhar Bharat)	On Achievement of 66.181% of physical progress	13.99 Crs.	13.28 Crs.	22.08.2022
IPC No. 03 of Mile Stone-IV (as per NHAI Policy Guidelines/Atmnirbhar Bharat)	On Achievement of 67.868% of physical progress	9.86 Crs.	9.36 Crs.	29.12.2022
IPC No. 04 of Mile Stone-IV (as per NHAI Policy Guidelines/Atmnirbhar Bharat)	On Achievement of 69.633% of physical progress	10.31 Crs.	9.79 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 Completed
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, 52.50 & 60 meters as mentioned in the 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 Bus bays/Bus Shelter locations, turning radius at Minor & Major junctions. The location of Bus bays/Bus Shelter as per Schedule C of Concession Agreement is given below in the tabular form:-

Sr. No.	Design Chainage	Side	Remarks
1	76.700	Both Hand Side	
2	79.350	Both Hand Side	
3	80.400	Both Hand Side	
4	81.450	Both Hand Side	
5	84.350	Both Hand Side	
6	92.250	Both Hand Side	
7	93.150	Both Hand Side	
8	94.250	Both Hand Side	
9	97.850	Both Hand Side	

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	6.130	
C)	Total Project Length (both Side)	Km	50.480	
D)	% Hindered Length	%	12.14%	

In addition to the above, Additional Land acquisition need to be acquired for the construction of all bus bays/Bus Shelter and all major and minor intersections.

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

The status of compensation disbursed for land and structures are given below:-

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

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 31.01.2023 (km)	Side	Reason	Remarks
	From	To					
1	72.350	73.180	0.830	0.830	BHS	Local Villager's Problem	
2	75.520	76.150	0.630	0.630	BHS	Local Villager's Problem	
3	80.100	81.150	1.050	1.050	BHS	Local Villager's Problem	
4	87.360	87.990	0.630	0.630	BHS	Local Villager's Problem	
5	95.035	95.865	0.830	0.830	BHS	Local Villager's Problem	
6	98.500	99.400	0.900	0.900	BHS	Local Villager's Problem	
7	101.590	102.225	0.635	0.635	BHS	Local Villager's Problem	
8	113.225	113.850	0.625	0.625	BHS	Local Villager's Problem	
Total in Kms				6.130 Km			

The 6.130 Km. length was under non-workable length out of 14.54 km. non-workable length as per Settlement Agreement executed on dated 04.03.2021.

In addition to above 6.130 Km non-workable length, following are the details of Stretches under Hindrance due to practical constraints available at site:-

Sr. No	Chainage		Length (km)	Length cannot be taken up due to practical constraints	Side	Reason	Remarks
	From	To					
1	77.220	77.800	0.580	0.580	BHS	Local Villager's Problem	
2	86.580	87.360	0.780	0.780	BHS	Local Villager's Problem	
3	109.035	109.700	0.665	0.665	BHS	Pond Ash Issue	
4	110.900	111.560	0.660	0.660	BHS	Pond Ash Issue	
5	114.835	115.660	0.825	0.825	BHS	Pond Ash Issue	
Total in Kms				3.510 Km			

2.2. Removal of Religious Structures

The following structures coming within the ROW are to be demolished:-

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

2.3. Shifting of Utilities and Electrical HT/LT Lines

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

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

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

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

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

Table 2.3-3: Status of Utility Relocation

Sl. No.	Authority	Description	Unit	Total Length/ Nos.	Work done	Balance	Remarks
1	BDO & EE,TWAD	Water Supply Pipe Line	Kms.	72.695	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	
5	TNEB	Erection of HT Tower at Ch. 73+470	Nos.	2	1	1	Work in progress

Sl. No	Authority	Description	Remarks
1	CMWSSB	Shifting of Veeranam Pipeline	Work in progress

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	
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	

3.1. 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

Sr 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	02	-
5	Minor Intersections	No	100	65	-
6	Toll Plaza (Typical Details)	No	01	01	-
7	Service Roads	Km	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 January 2023 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	47.280	40.620	0.000	40.620	0.000	6.660	85.91%
	RHS	47.280	39.530	0.000	39.530	0.000	7.750	83.61%
2	Embankment							
	LHS	47.280	35.155	0.655	35.810	1.050	11.470	75.74%
	RHS	47.280	34.790	0.655	35.445	1.050	11.835	74.97%
3	Subgrade							
	LHS	47.280	34.600	0.242	34.842	0.968	12.438	73.69%
	RHS	47.280	34.384	0.508	34.892	0.553	12.388	73.80%
4	GSB/ Cement Treated Base							
	LHS	47.280	34.560	0.000	34.560	0.000	12.720	73.10%
	RHS	47.280	34.384	0.090	34.474	0.000	12.806	72.91%
5	Wet Mix Macadam							
	LHS	47.280	34.510	0.000	34.510	0.000	12.770	72.99%
	RHS	47.280	34.384	0.000	34.384	0.000	12.896	72.72%
6	Dense Bitumen Macadam							
	LHS	47.280	34.510	0.000	34.510	0.000	12.770	72.99%
	RHS	47.280	34.384	0.000	34.384	0.000	12.896	72.72%
7	Bituminous Concrete							
	LHS	47.280	33.697	0.130	33.827	0.000	13.453	71.55%
	RHS	47.280	33.772	0.515	34.287	0.000	12.993	72.52%

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	53.190	31.930	0.115	32.045	0	21.145	60.25%
2	Sub grade	53.190	31.930	0.115	32.045	0	21.145	60.25%
3	GSB/ Cement Treated Base	53.190	31.550	0.435	31.985	0	21.205	60.13%
4	Wet Mix Macadam	53.190	31.430	0.100	31.530	0	21.660	59.28%
5	Dense Bitumen Macadam	53.190	30.840	0.220	31.060	0	22.130	58.39%
6	Bituminous Concrete	53.190	26.965	0.290	27.255	0	25.935	51.24%

Structure Work

Sr. No.	Type of Structure	Total No. of Structures	Nos. of Structures			
			Completed	Work in Progress	Balance to be taken up	Remarks
1	Culvert	60	48.25	4.75	7.00	
2	Light Vehicular Underpass	2	1	1	0	
3	Vehicular Underpass	13	11.00	1.50	0.50	Balance 0.5 No. has been included under Negative Change of Scope.
4	Minor Bridges	25	24.50	0.25	0.25	
5	Major Bridge	4	2.00	2.00	0	
6	Flyover	8	5.50	1.50	1.00	Balance 1.00 No. has been included under Negative Change of Scope.

The Physical Progress of the Project up to January 2023 as per the weightages finalized in the Approved Schedule G is as follows:-

Component	Item Description	Unit	Planned in Scope (As per Scope of Work)	Cost Weightage in Component (%)	Progress till Jan'2023	% Physical Progress	Remarks
1	2	3	4	5	6	7	8
Road works including culverts, minor bridges, underpasses, overpasses, approaches to ROB/RUB/ Major Bridges/ Structures (but excluding service roads)	A- Widening and strengthening of existing road						
	(1) Earthwork up to top of the sub-grade	Km	66.96	9.517%	49.720	7.067%	
	(2) Granular work (sub-base, base, shoulders)						
	(a) GSB/ Cement Treated Base	Km	65.52	3.373%	49.680	2.558%	
	(b) WMM/ Cement Treated Base	Km	65.52	4.046%	49.630	3.064%	
	(3) Shoulders	Km	17.65	0.112%	17.150	0.109%	
	(4) Bituminous work						
	(a) DBM	Km	65.52	3.344%	49.630	2.533%	
	(b) BC	Km	65.52	3.023%	49.490	2.283%	
	(5) Rigid Pavement						
	(6) Widening and repair of culverts	Nos	16	0.440%	14.000	0.385%	
	(7) Widening and repair of minor bridges	Nos	4	0.959%	4.00	0.959%	
	B- New realignment/bypass						
	(1) Earthwork up to top of the sub-grade	Km	28.68	6.437%	20.014	4.492%	
	(2) Granular work (sub-base, base, shoulders)						
	(a) GSB/ Cement Treated Base	Km	28.68	1.615%	19.354	1.090%	
	(b) WMM/ Cement Treated Base	Km	28.68	1.436%	19.264	0.965%	
	(3) Shoulders	Km	24.63	0.112%	14.660	0.067%	
	(4) Bituminous work						
	(a) DBM	Km	28.68	1.279%	19.264	0.859%	
(b) BC	Km	28.68	1.158%	18.624	0.752%		
(5) Rigid Pavement							

C- New culverts, minor bridges, underpasses, overpasses on existing road, realignments, bypasses:						
(1) Culverts	Nos	44	2.070%	34.25	1.611%	
(2) Minor bridges						
(a) Foundation	Nos	58	3.953%	57.50	3.919%	
(b) Substructure	Nos	134	2.623%	131.00	2.564%	
(c) Superstructure (including crash barrier etc. complete)	Nos	50	1.559%	46.45	1.449%	
(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%	51.00	2.344%	
(ii) Substructure	Nos	60	0.751%	51.00	0.639%	
(iii) Superstructure (including crash barrier etc. complete)	Nos	30	1.289%	22.725	0.976%	
(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%	29.00	0.379%	
(iii) Superstructure (including crash barrier etc. complete)	Nos	20	1.244%	14.00	0.871%	

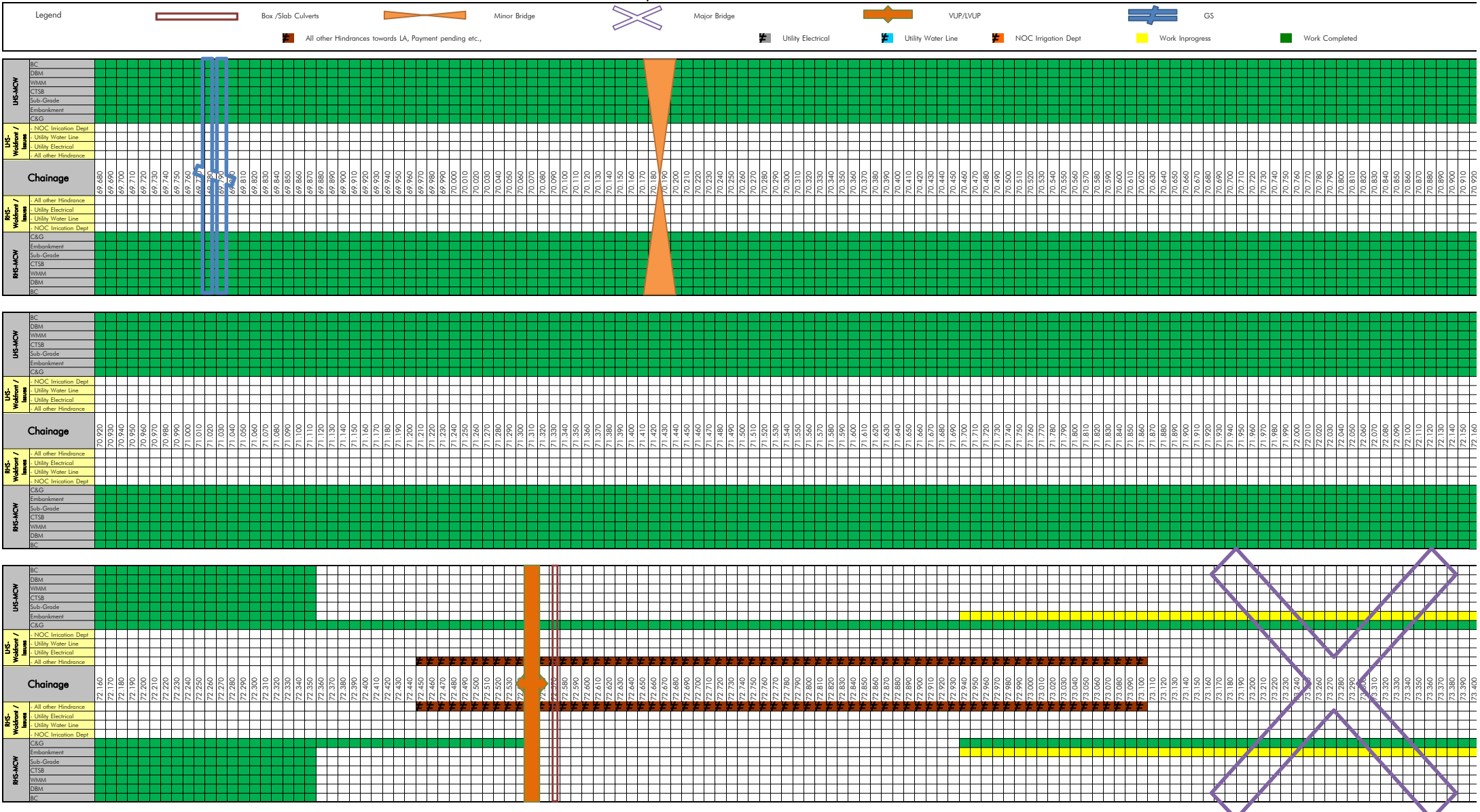
	(d) Foot over Bridge						
Major Bridge works and ROB/RUB	A- Widening and repairs of Major Bridges						
	(1) Foundation						
	(a) Open Foundation						
	(b) Pile Foundation/ Well Foundation						
	(2) Sub-structure						
	(3) Super-structure (including crash barriers etc. complete)						
	C- New Major Bridges						
	(1) Foundation						
	(a) Open Foundation						
	(b) Pile Foundation/ Well Foundation						
	(i) Foundation	Nos	84	9.699%	82.00	9.468%	
	(2) Sub-structure	Nos	84	4.576%	82.00	4.467%	
	(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%	666.00	1.450%	
	(b) Erection of Superstructure (Box Segment)	Nos	666	1.050%	282.00	0.445%	
	(i) For other Major Bridges						
	(a) Super-structure (including crash barriers etc. complete)	Nos	37	2.500%	25.80	1.743%	
	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%	53,050	2.058%		
Other Works	(i) Service roads/ Slip Roads	Km	53.19	4.690%	27.255	2.403%		
	(ii) Toll Plaza	Nos	1	1.821%				
	(iii) Road side drains	Km	28.85	5.429%	8.550	1.609%		
	(iv) Road signs, markings, km stones, safety devices,							
	(a) Road signs, markings, km stones, ...	Km	100.96	2.558%	57.940	1.468%		
	(b) Concrete Crash Barrier/ W- Beam Crash Barrier in Road work							
	(i) Concrete Crash Barrier	Km	26.5	1.179%	7.345	0.327%		
	(ii) W-Beam Crash Barrier	Km	10.03	0.788%	2.856	0.224%		
	(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%	1.607	0.031%		
	(viii) Protection works							
	(a) Boulder pitching on slopes	Km	10.03	0.218%	2.856	0.062%		
	(b) Toe/Retaining wall	Km	10.03					
	(x) Miscellaneous	Ls.	100%	0.164%				
		Total			100.00%		69.71%	

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

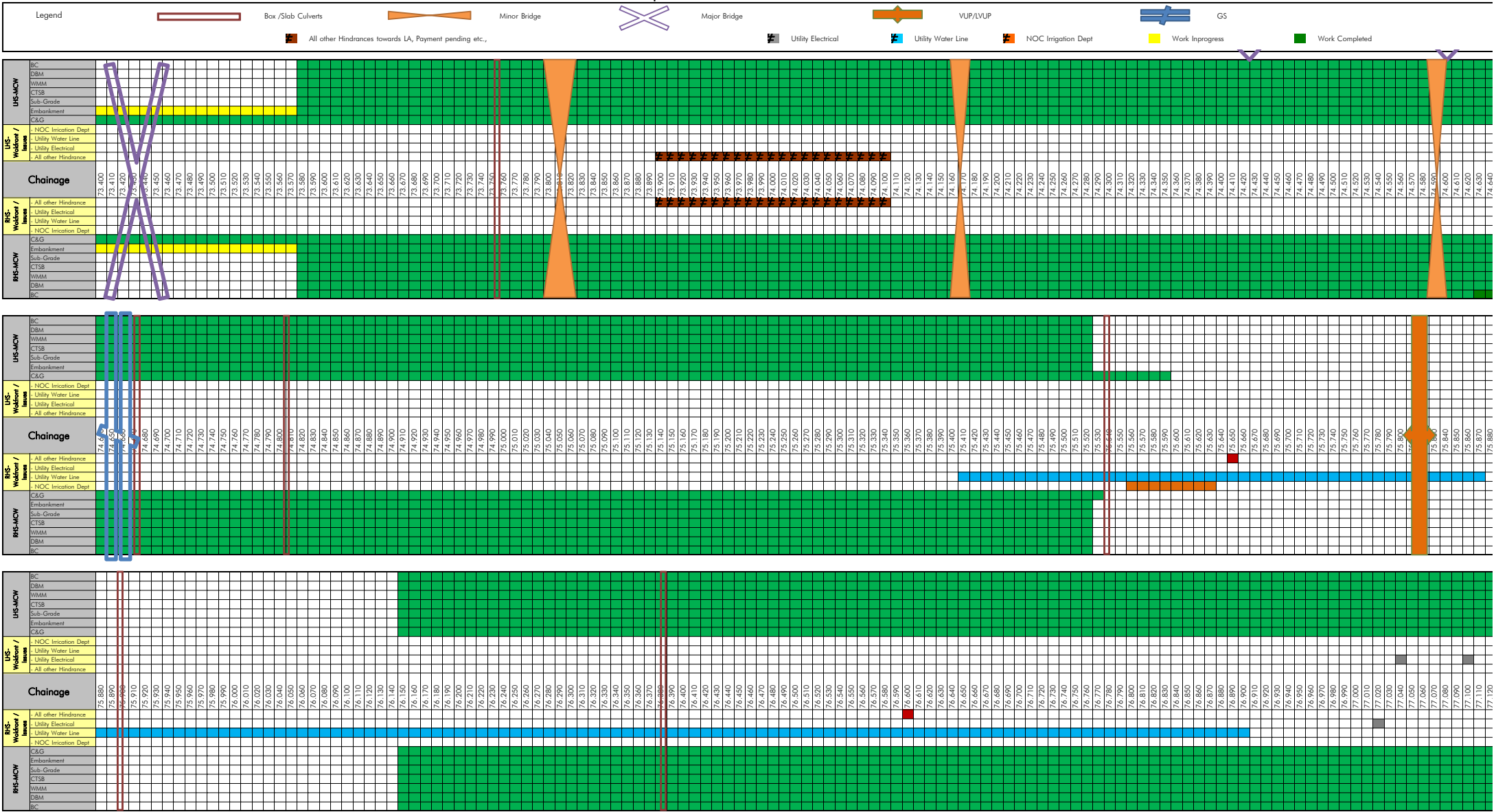
Strip Plan for MCW as on 31.01.2023



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Sethiyahopu - Cholopuram Road Projects

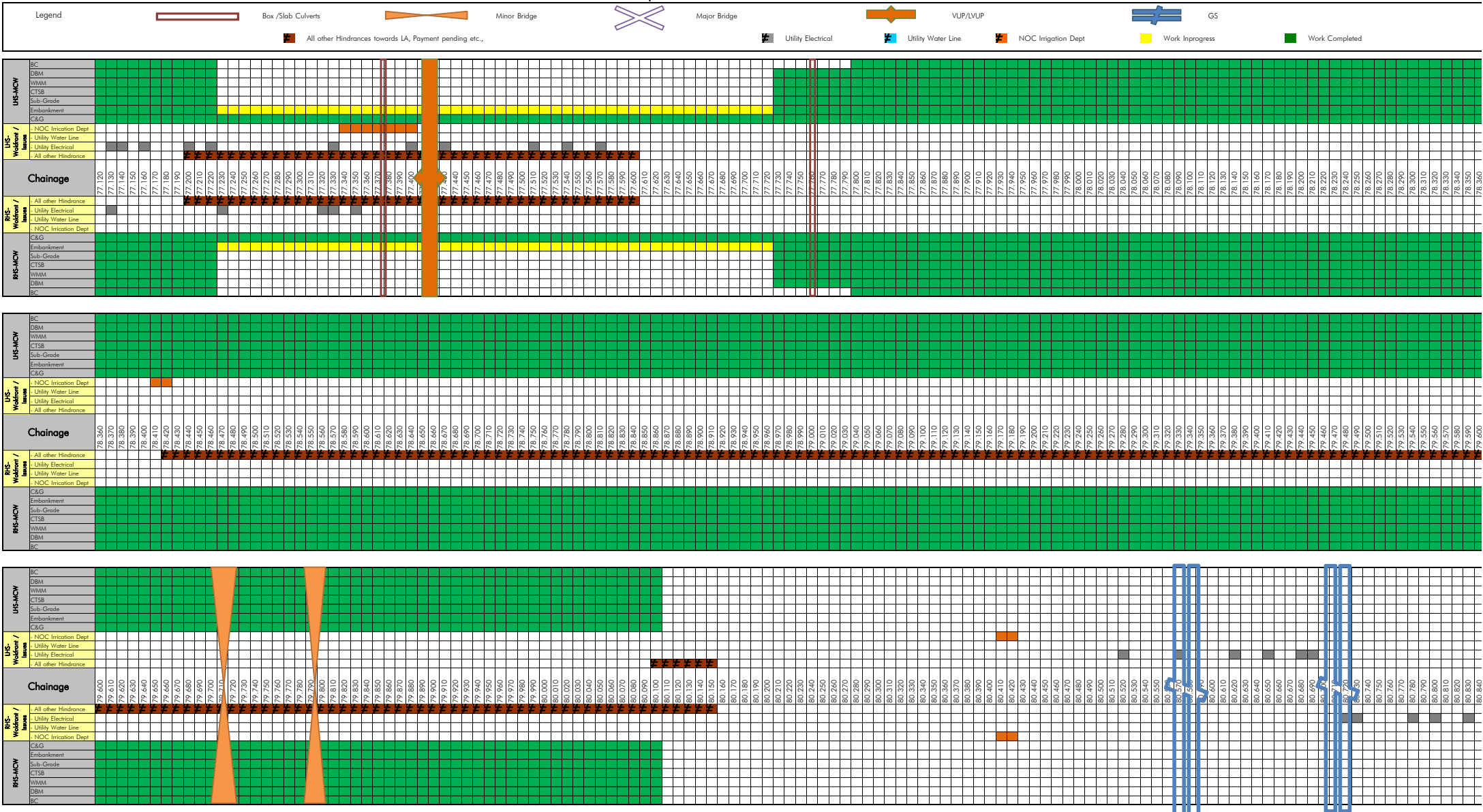
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Sethiyahopu - Cholopuram Road Projects

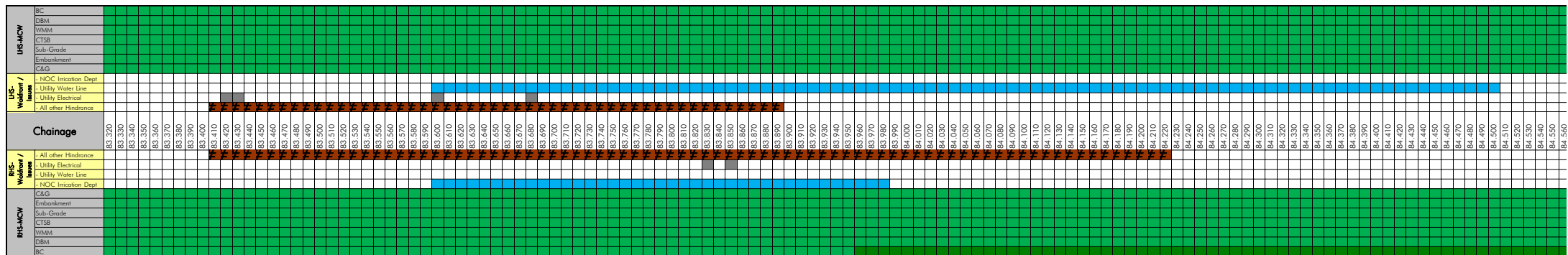
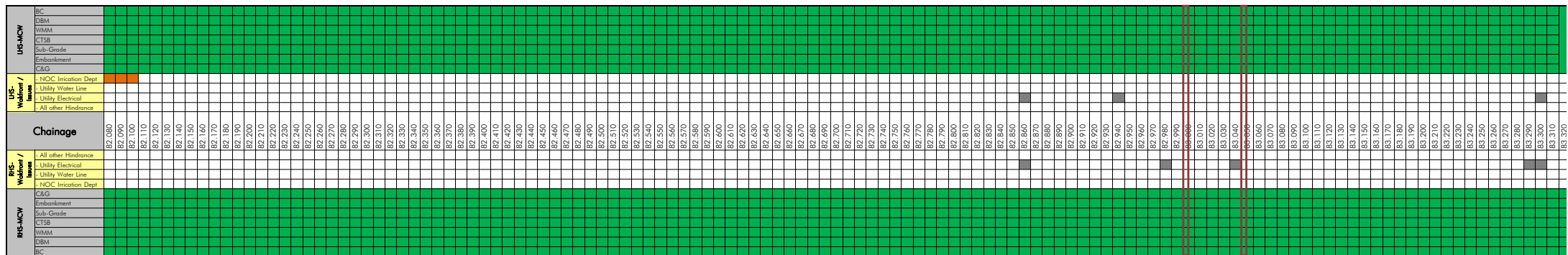
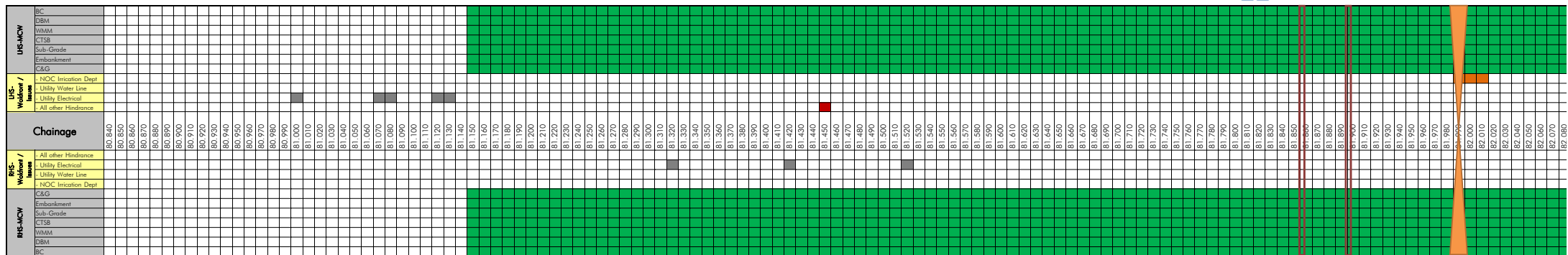
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Sethiyahopu - Cholopuram Road Projects

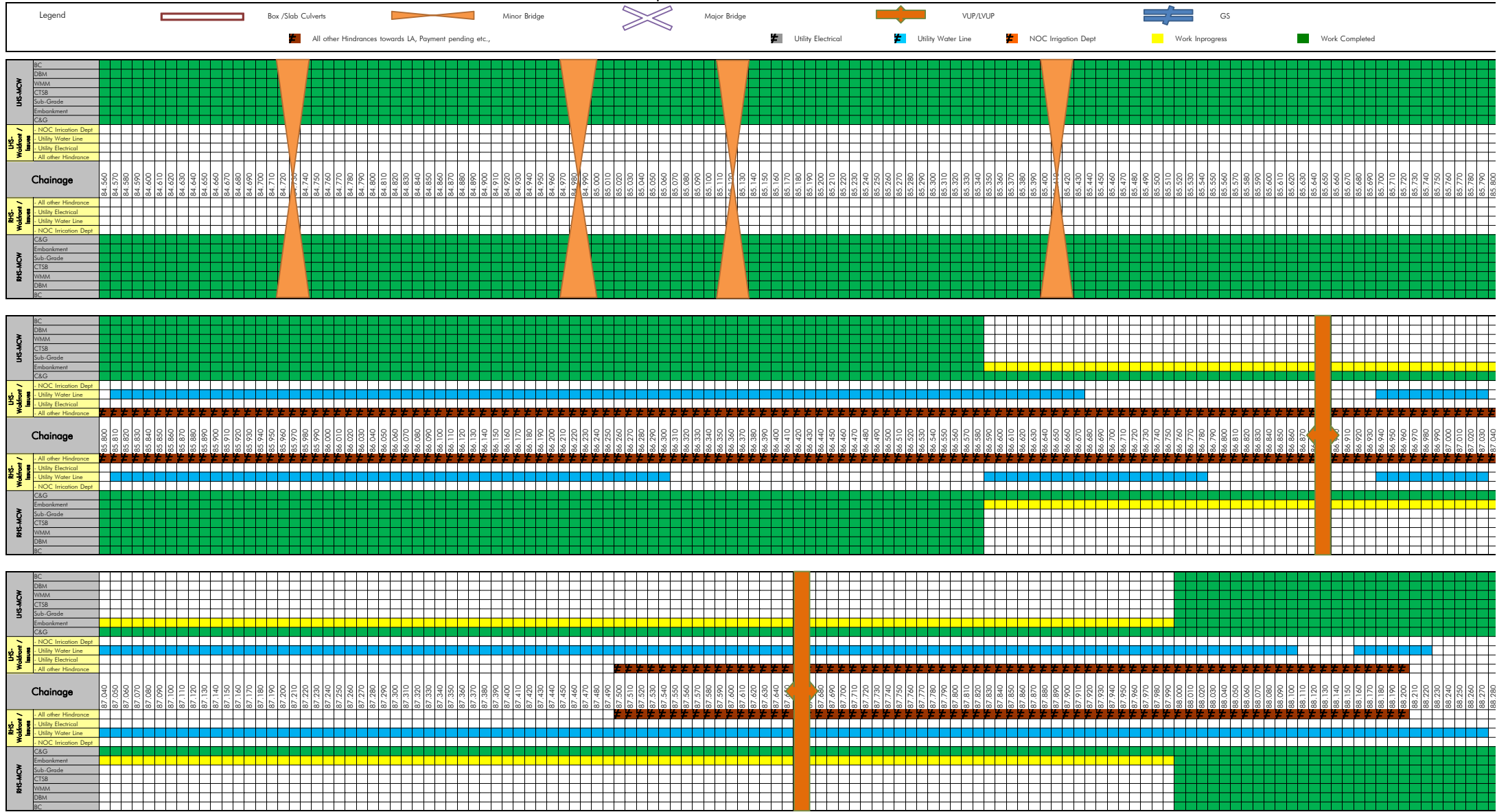
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Sethiyahopu - Cholopuram Road Projects

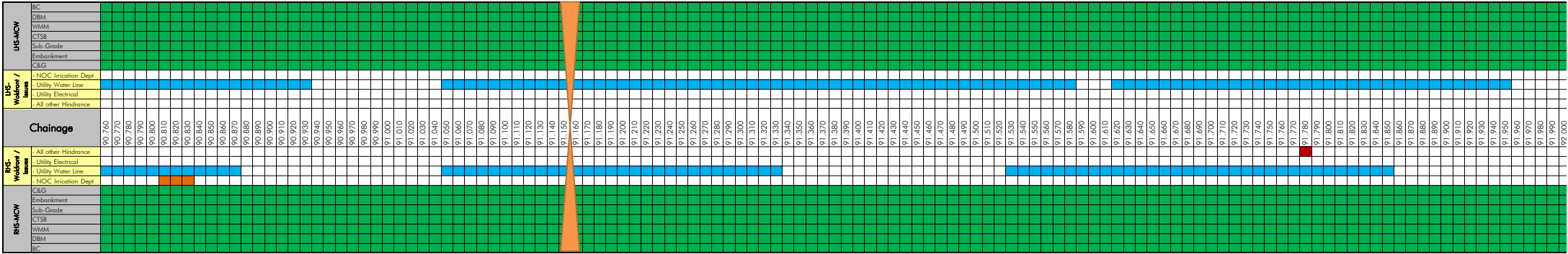
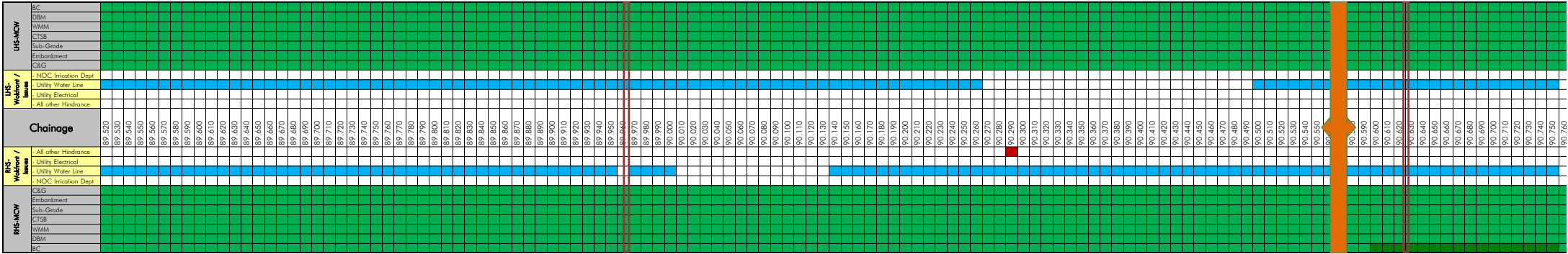
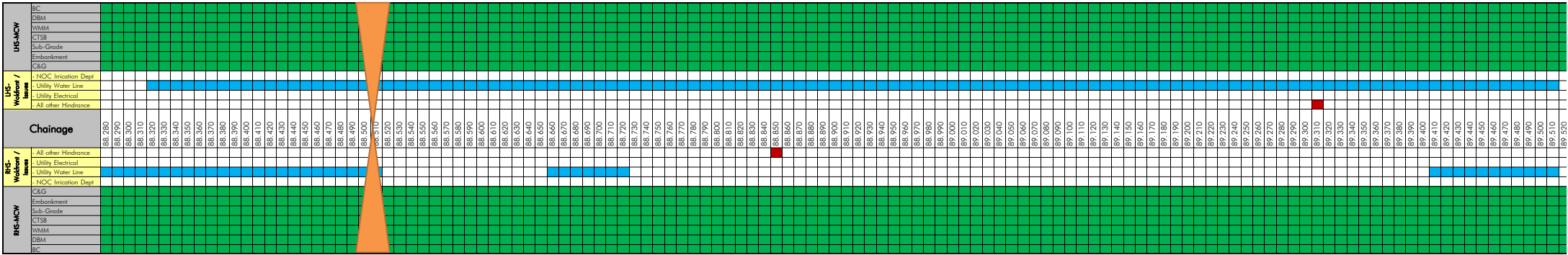
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Sethiyahopu - Cholopuram Road Projects

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Sethiyahopu - Cholopuram Road Projects

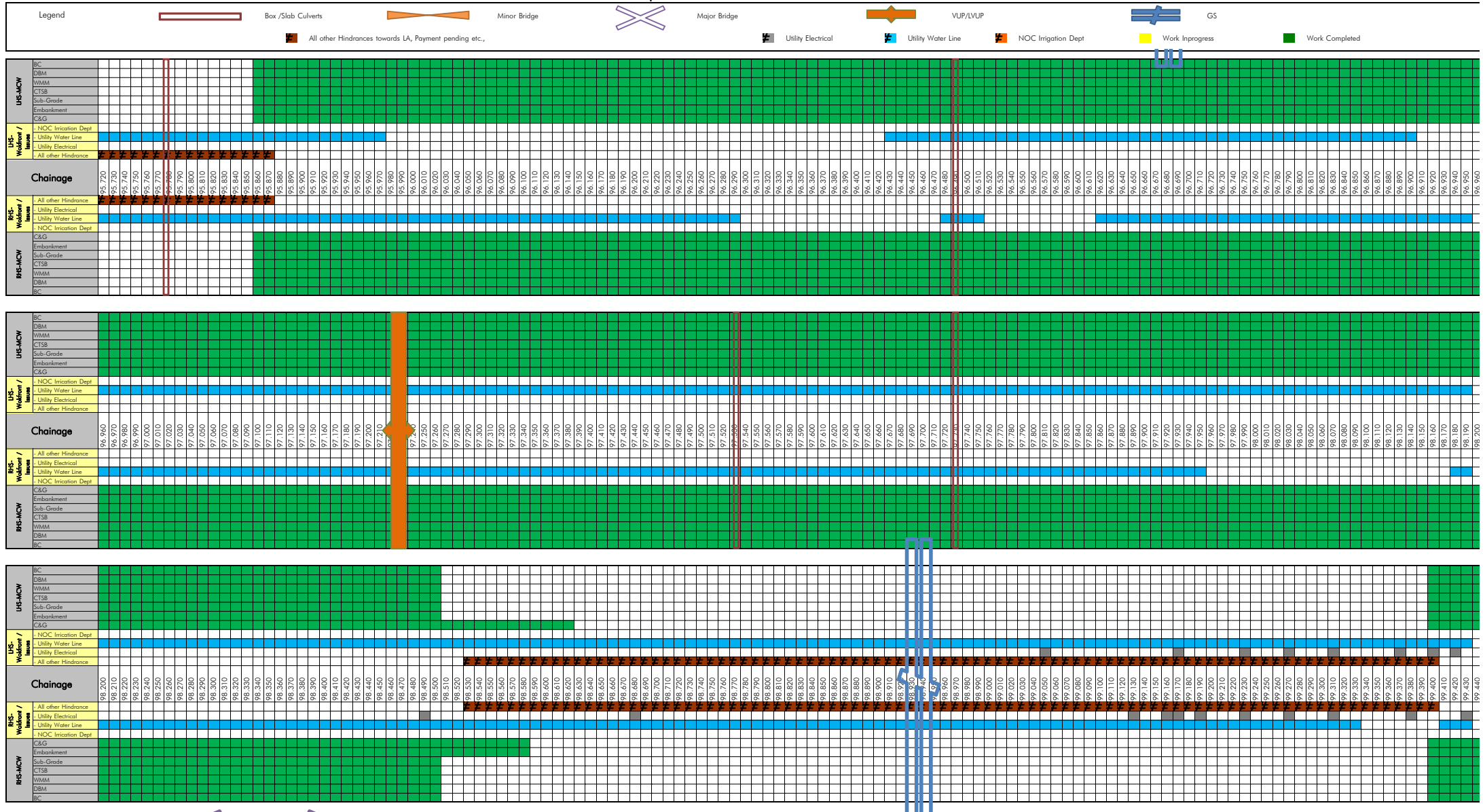
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Sethiyahopu - Cholopuram Road Projects

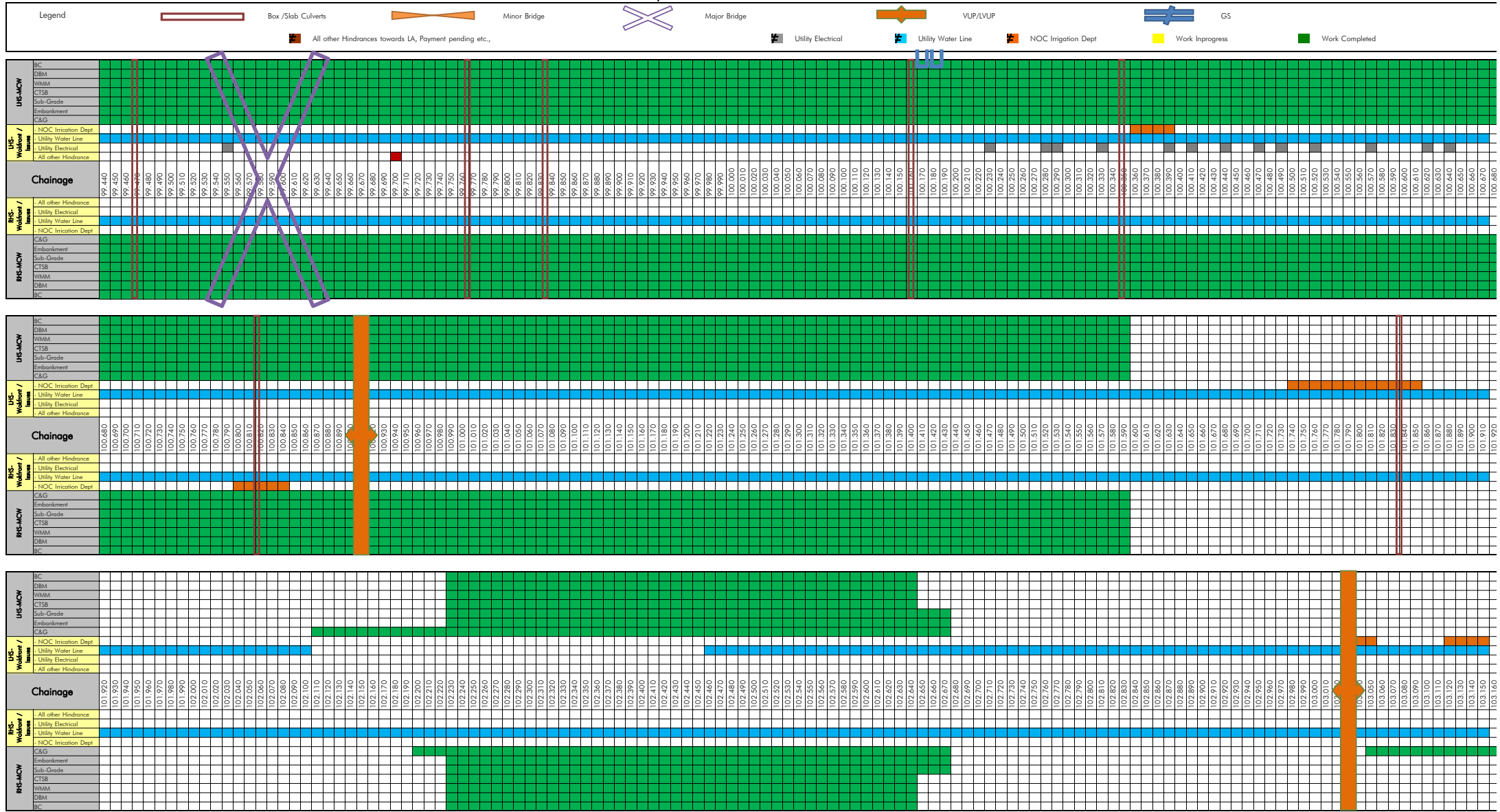
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Sethiyahopu - Cholopuram Road Projects

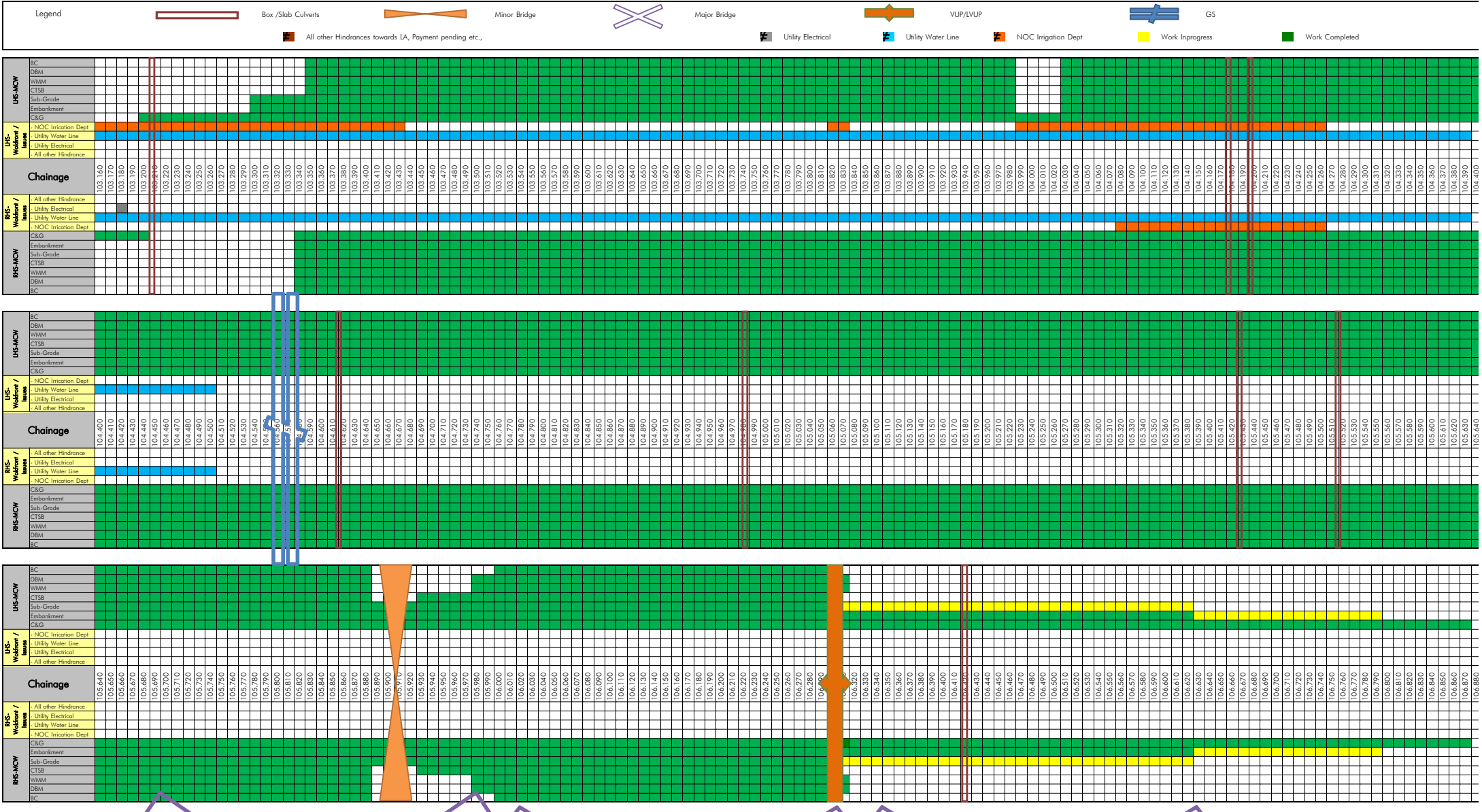
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Sethiyahopu - Cholopuram Road Projects

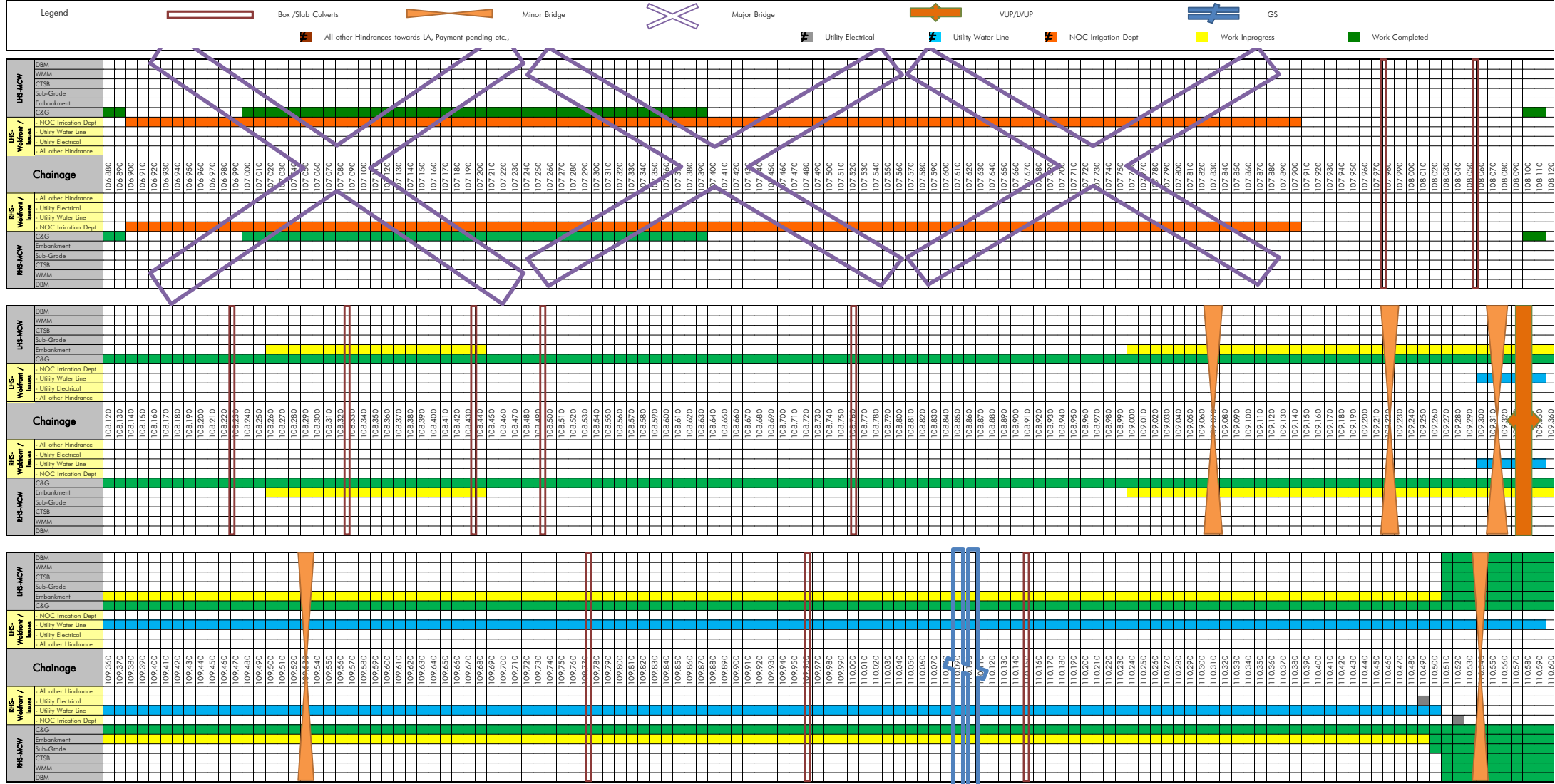
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Sethiyahopu - Cholopuram Road Projects

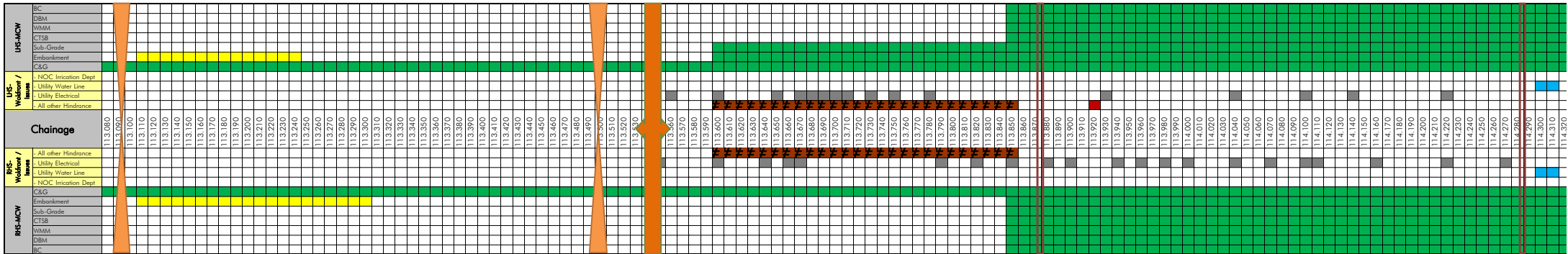
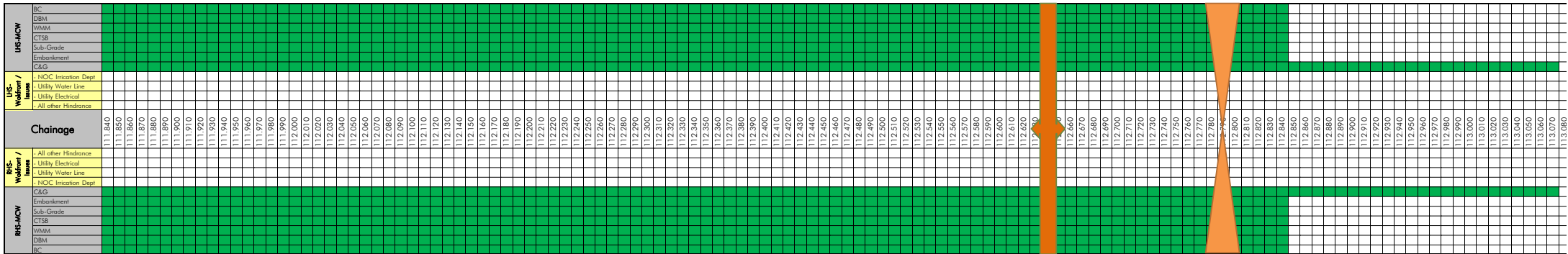
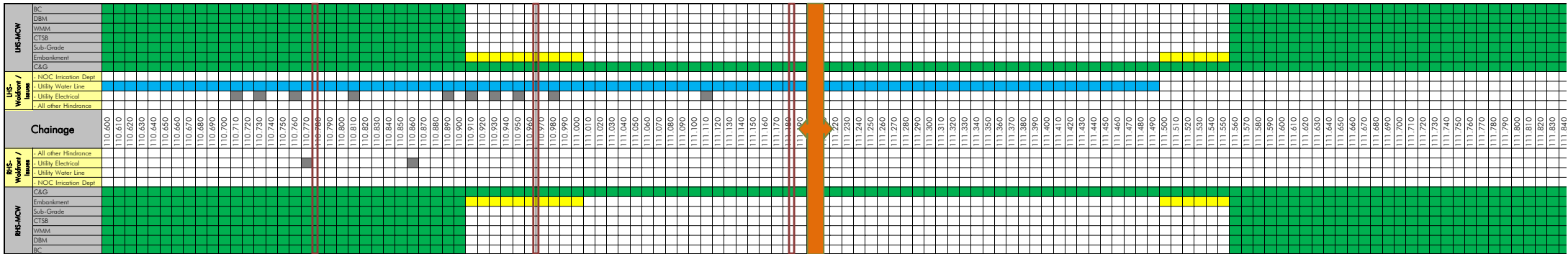
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Sethiyahopu - Cholopuram Road Projects

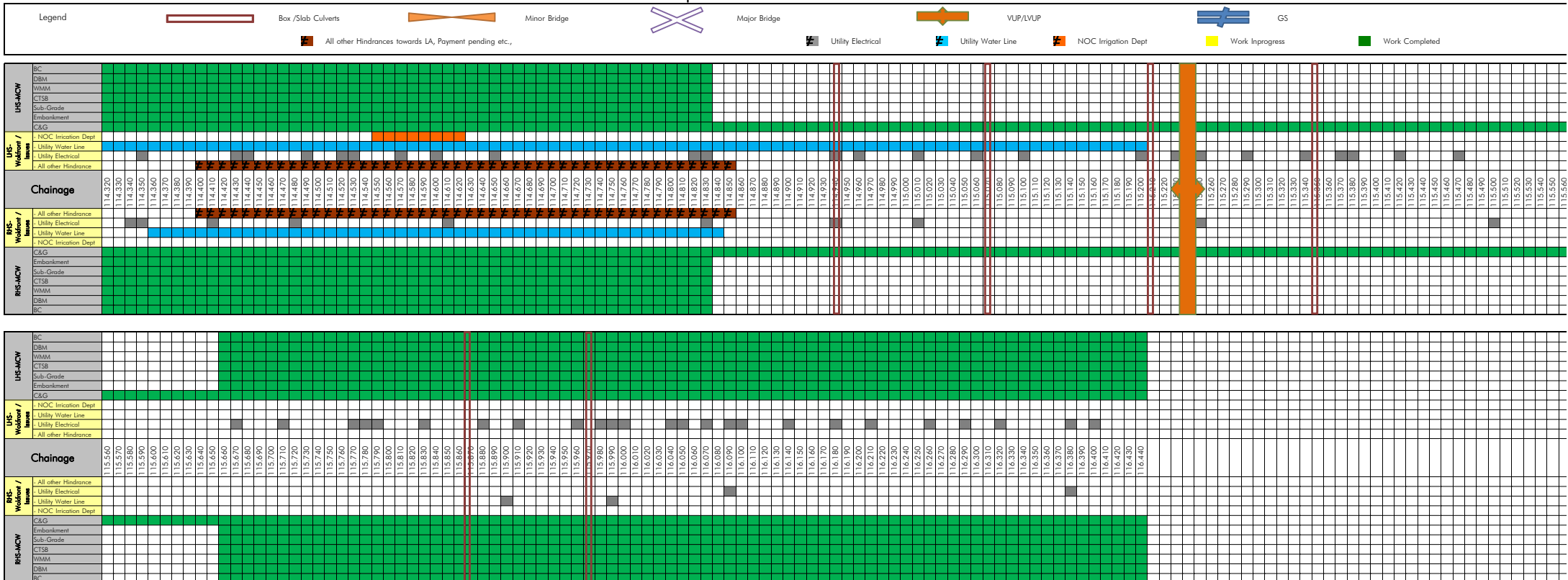
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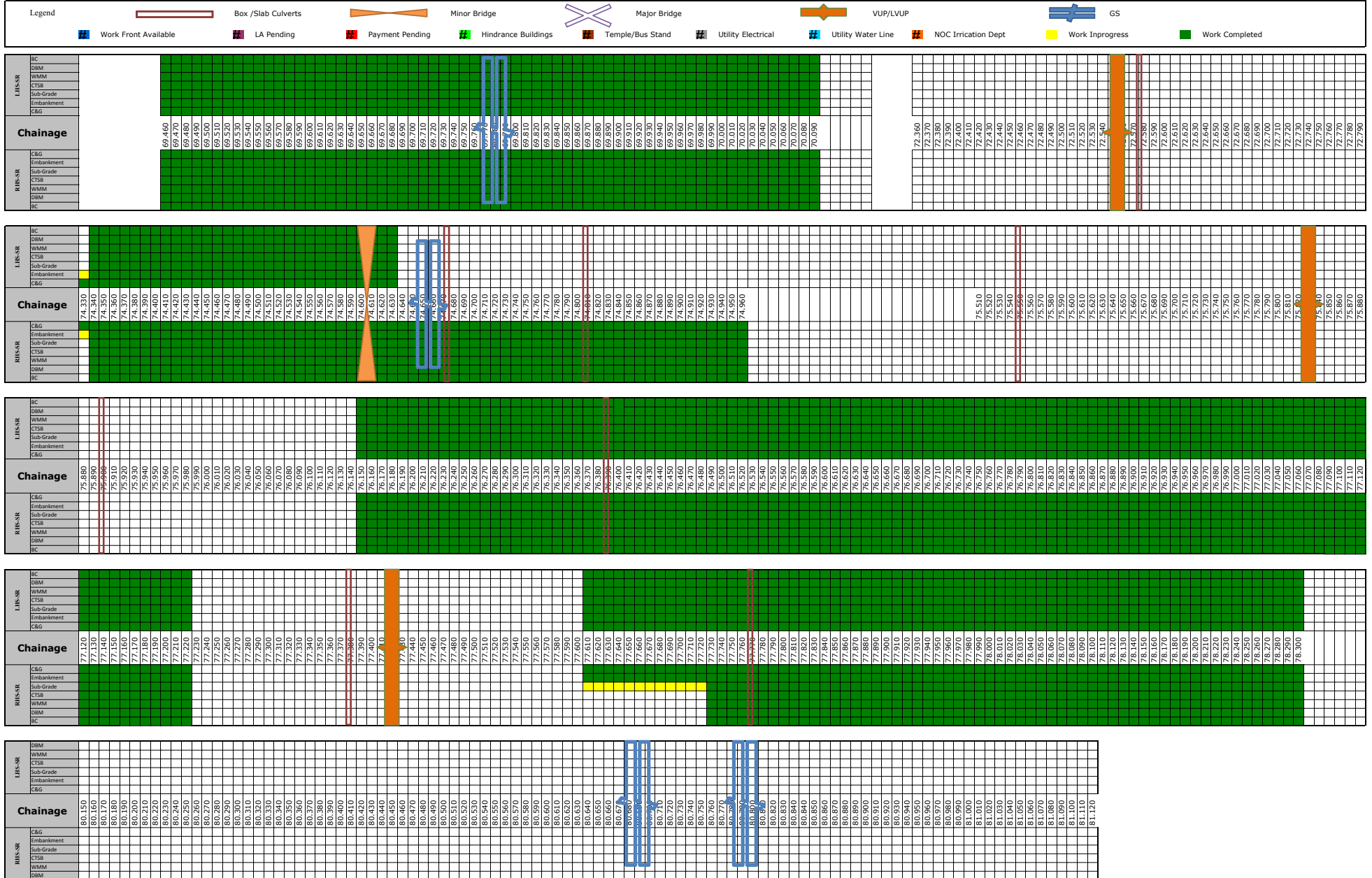
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Sethiyahopu - Cholopuram Road Projects

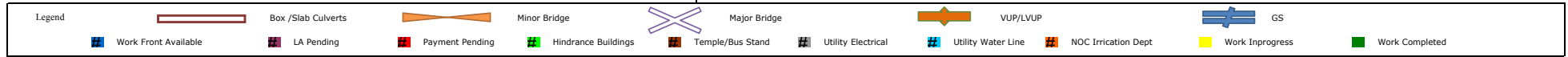
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Four Laning of Sethiyahopu - Cholopuram from Km. 65.960 to Km. 116.440 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode Sethiyahopu - Cholopuram Road Projects Strip Plan for SR as on 31.01.2023



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Sethiyahopu - Cholopuram Road Projects
Strip Plan for SR as on 31.01.2023



RISRSR	Chainage									
	81.320	81.330	81.340	81.350	81.360	81.370	81.380	81.390	81.400	81.410
LISRSR	IC	DBM	WMM	CTS	Sub-Grade	Embankment	CG			
RISRSR	CG	Embankment	Sub-Grade	CTS	WMM	DBM	IC			

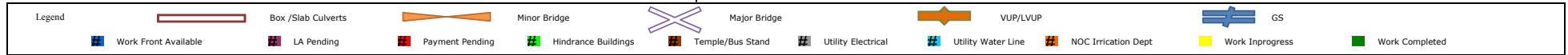
RISRSR	Chainage									
	81.420	81.430	81.440	81.450	81.460	81.470	81.480	81.490	81.500	81.510
LISRSR	IC	DBM	WMM	CTS	Sub-Grade	Embankment	CG			
RISRSR	CG	Embankment	Sub-Grade	CTS	WMM	DBM	IC			

RISRSR	Chainage									
	81.520	81.530	81.540	81.550	81.560	81.570	81.580	81.590	81.600	81.610
LISRSR	IC	DBM	WMM	CTS	Sub-Grade	Embankment	CG			
RISRSR	CG	Embankment	Sub-Grade	CTS	WMM	DBM	IC			

RISRSR	Chainage									
	81.620	81.630	81.640	81.650	81.660	81.670	81.680	81.690	81.700	81.710
LISRSR	IC	DBM	WMM	CTS	Sub-Grade	Embankment	CG			
RISRSR	CG	Embankment	Sub-Grade	CTS	WMM	DBM	IC			

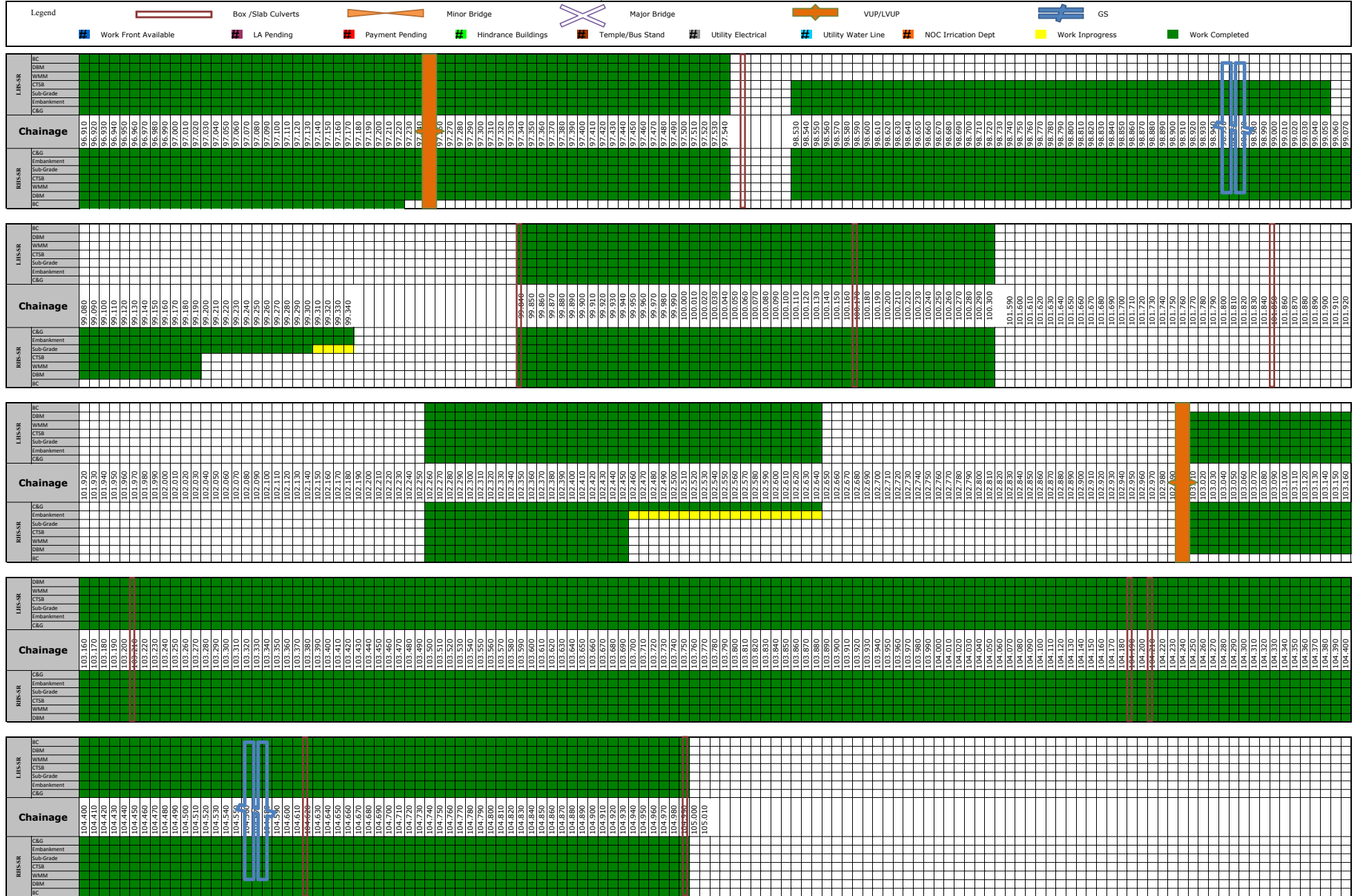
RISRSR	Chainage									
	81.720	81.730	81.740	81.750	81.760	81.770	81.780	81.790	81.800	81.810
LISRSR	IC	DBM	WMM	CTS	Sub-Grade	Embankment	CG			
RISRSR	CG	Embankment	Sub-Grade	CTS	WMM	DBM	IC			

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Sethiyahopu - Cholapuram Road Projects
Strip Plan for SR as on 31.01.2023



LINSR	Chainage	RINSR
IC	89.520	
DBM	89.530	
WMM	89.540	
CTSA	89.550	
Sub-Grade	89.560	
Embankment	89.570	
C&G	89.580	
C&G	89.590	
Embankment	89.600	
Sub-Grade	89.610	
CTSA	89.620	
WMM	89.630	
DBM	89.640	
IC	89.650	
IC	89.660	
DBM	89.670	
WMM	89.680	
CTSA	89.690	
Sub-Grade	89.700	
Embankment	89.710	
C&G	89.720	
C&G	89.730	
Embankment	89.740	
Sub-Grade	89.750	
CTSA	89.760	
WMM	89.770	
DBM	89.780	
IC	89.790	
IC	89.800	
DBM	89.810	
WMM	89.820	
CTSA	89.830	
Sub-Grade	89.840	
Embankment	89.850	
C&G	89.860	
C&G	89.870	
Embankment	89.880	
Sub-Grade	89.890	
CTSA	89.900	
WMM	89.910	
DBM	89.920	
IC	89.930	
IC	89.940	
DBM	89.950	
WMM	89.960	
CTSA	89.970	
Sub-Grade	89.980	
Embankment	89.990	
C&G	90.000	
C&G	90.010	
Embankment	90.020	
Sub-Grade	90.030	
CTSA	90.040	
WMM	90.050	
DBM	90.060	
IC	90.070	
IC	90.080	
DBM	90.090	
WMM	90.100	
CTSA	90.110	
Sub-Grade	90.120	
Embankment	90.130	
C&G	90.140	
C&G	90.150	
Embankment	90.160	
Sub-Grade	90.170	
CTSA	90.180	
WMM	90.190	
DBM	90.200	
IC	90.210	
IC	90.220	
DBM	90.230	
WMM	90.240	
CTSA	90.250	
Sub-Grade	90.260	
Embankment	90.270	
C&G	90.280	
C&G	90.290	
Embankment	90.300	
Sub-Grade	90.310	
CTSA	90.320	
WMM	90.330	
DBM	90.340	
IC	90.350	
IC	90.360	
DBM	90.370	
WMM	90.380	
CTSA	90.390	
Sub-Grade	90.400	
Embankment	90.410	
C&G	90.420	
C&G	90.430	
Embankment	90.440	
Sub-Grade	90.450	
CTSA	90.460	
WMM	90.470	
DBM	90.480	
IC	90.490	
IC	90.500	
DBM	90.510	
WMM	90.520	
CTSA	90.530	
Sub-Grade	90.540	
Embankment	90.550	
C&G	90.560	
C&G	90.570	
Embankment	90.580	
Sub-Grade	90.590	
CTSA	90.600	
WMM	90.610	
DBM	90.620	
IC	90.630	
IC	90.640	
DBM	90.650	
WMM	90.660	
CTSA	90.670	
Sub-Grade	90.680	
Embankment	90.690	
C&G	90.700	
C&G	90.710	
Embankment	90.720	
Sub-Grade	90.730	
CTSA	90.740	
WMM	90.750	
DBM	90.760	
IC	90.770	
IC	90.780	
DBM	90.790	
WMM	90.800	
CTSA	90.810	
Sub-Grade	90.820	
Embankment	90.830	
C&G	90.840	
C&G	90.850	
Embankment	90.860	
Sub-Grade	90.870	
CTSA	90.880	
WMM	90.890	
DBM	90.900	
IC	90.910	
IC	90.920	
DBM	90.930	
WMM	90.940	
CTSA	90.950	
Sub-Grade	90.960	
Embankment	90.970	
C&G	90.980	
C&G	90.990	
Embankment	91.000	
Sub-Grade	91.010	
CTSA	91.020	
WMM	91.030	
DBM	91.040	
IC	91.050	
IC	91.060	
DBM	91.070	
WMM	91.080	
CTSA	91.090	
Sub-Grade	91.100	
Embankment	91.110	
C&G	91.120	
C&G	91.130	
Embankment	91.140	
Sub-Grade	91.150	
CTSA	91.160	
WMM	91.170	
DBM	91.180	
IC	91.190	
IC	91.200	
DBM	91.210	
WMM	91.220	
CTSA	91.230	
Sub-Grade	91.240	
Embankment	91.250	
C&G	91.260	
C&G	91.270	
Embankment	91.280	
Sub-Grade	91.290	
CTSA	91.300	
WMM	91.310	
DBM	91.320	
IC	91.330	
IC	91.340	
DBM	91.350	
WMM	91.360	
CTSA	91.370	
Sub-Grade	91.380	
Embankment	91.390	
C&G	91.400	
C&G	91.410	
Embankment	91.420	
Sub-Grade	91.430	
CTSA	91.440	
WMM	91.450	
DBM	91.460	
IC	91.470	
IC	91.480	
DBM	91.490	
WMM	91.500	
CTSA	91.510	
Sub-Grade	91.520	
Embankment	91.530	
C&G	91.540	
C&G	91.550	
Embankment	91.560	
Sub-Grade	91.570	
CTSA	91.580	
WMM	91.590	
DBM	91.600	
IC	91.610	
IC	91.620	
DBM	91.630	
WMM	91.640	
CTSA	91.650	
Sub-Grade	91.660	
Embankment	91.670	
C&G	91.680	
C&G	91.690	
Embankment	91.700	
Sub-Grade	91.710	
CTSA	91.720	
WMM	91.730	
DBM	91.740	
IC	91.750	
IC	91.760	
DBM	91.770	
WMM	91.780	
CTSA	91.790	
Sub-Grade	91.800	
Embankment	91.810	
C&G	91.820	
C&G	91.830	
Embankment	91.840	
Sub-Grade	91.850	
CTSA	91.860	
WMM	91.870	
DBM	91.880	
IC	91.890	
IC	91.900	
DBM	91.910	
WMM	91.920	
CTSA	91.930	
Sub-Grade	91.940	
Embankment	91.950	
C&G	91.960	
C&G	91.970	
Embankment	91.980	
Sub-Grade	91.990	
CTSA	92.000	
WMM	92.010	
DBM	92.020	
IC	92.030	
IC	92.040	
DBM	92.050	
WMM	92.060	
CTSA	92.070	
Sub-Grade	92.080	
Embankment	92.090	
C&G	92.100	
C&G	92.110	
Embankment	92.120	
Sub-Grade	92.130	
CTSA	92.140	
WMM	92.150	
DBM	92.160	
IC	92.170	
IC	92.180	
DBM	92.190	
WMM	92.200	
CTSA	92.210	
Sub-Grade	92.220	
Embankment	92.230	
C&G	92.240	
C&G	92.250	
Embankment	92.260	
Sub-Grade	92.270	
CTSA	92.280	
WMM	92.290	
DBM	92.300	
IC	92.310	
IC	92.320	
DBM	92.330	
WMM	92.340	
CTSA	92.350	
Sub-Grade	92.360	
Embankment	92.370	
C&G	92.380	
C&G	92.390	
Embankment	92.400	
Sub-Grade	92.410	
CTSA	92.420	
WMM	92.430	
DBM	92.440	
IC	92.450	
IC	92.460	
DBM	92.470	
WMM	92.480	
CTSA	92.490	
Sub-Grade	92.500	
Embankment	92.510	
C&G	92.520	
C&G	92.530	
Embankment	92.540	
Sub-Grade	92.550	
CTSA	92.560	
WMM	92.570	
DBM	92.580	
IC	92.590	
IC	92.600	
DBM	92.610	
WMM	92.620	
CTSA	92.630	
Sub-Grade	92.640	
Embankment	92.650	
C&G	92.660	
C&G	92.670	
Embankment	92.680	
Sub-Grade	92.690	
CTSA	92.700	
WMM	92.710	
DBM	92.720	
IC	92.730	
IC	92.740	
DBM	92.750	
WMM	92.760	
CTSA	92.770	
Sub-Grade	92.780	
Embankment	92.790	
C&G	92.800	
C&G	92.810	
Embankment	92.820	
Sub-Grade	92.830	
CTSA	92.840	
WMM	92.850	
DBM	92.860	
IC	92.870	
IC	92.880	
DBM	92.890	
WMM	92.900	
CTSA	92.910	
Sub-Grade	92.920	
Embankment	92.930	
C&G	92.940	
C&G	92.950	
Embankment	92.960	
Sub-Grade	92.970	
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WMM	92.990	
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WMM	93.040	
CTSA	93.050	
Sub-Grade	93.060	
Embankment	93.070	
C&G	93.080	
C&G	93.090	
Embankment	93.100	
Sub-Grade	93.110	
CTSA	93.120	
WMM	93.130	
DBM	93.140	
IC	93.150	
IC	93.160	
DBM	93.170	
WMM	93.180	
CTSA	93.190	
Sub-Grade	93.200	
Embankment	93.210	
C&G	93.220	
C&G	93.230	
Embankment	93.240	
Sub-Grade	93.250	
CTSA	93.260	
WMM	93.270	
DBM	93.280	
IC	93.290	
IC	93.300	
DBM	93.310	
WMM	93.320	
CTSA	93.330	
Sub-Grade	93.340	
Embankment	93.350	
C&G	93.360	
C&G	93.370	
Embankment	93.380	
Sub-Grade	93.390	
CTSA	93.400	
WMM	93.410	
DBM	93.420	
IC	93.430	
IC	93.440	
DBM	93.450	
WMM	93.460	
CTSA	93.470	
Sub-Grade	93.480	
Embankment	93.490	
C&G	93.500	
C&G	93.510	
Embankment	93.520	
Sub-Grade	93.530	
CTSA	93.540	
WMM	93.550	
DBM	93.560	
IC	93.570	
IC	93.580	
DBM	93.590	
WMM	93.600	
CTSA	93.610	
Sub-Grade	93.620	
Embankment	93.630	
C&G	93.640	
C&G	93.650	
Embankment	93.660	
Sub-Grade	93.670	
CTSA	93.680	
WMM	93.690	
DBM	93.700	
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WMM	93.830	
DBM	93.840	
IC	93.850	
IC	93.860	
DBM	93.870	
WMM	93.880	
CTSA	93.890	
Sub-Grade	93.900	
Embankment	93.910	
C&G	93.920	
C&G	93.930	
Embankment	93.940	
Sub-Grade	93.950	
CTSA	93.960	
WMM	93.970	
DBM	93.980	
IC	93.990	
IC	94.000	
DBM	94.010	
WMM	94.020	
CTSA	94.030	
Sub-Grade	94.040	
Embankment	94.050	
C&G	94.060	
C&G		

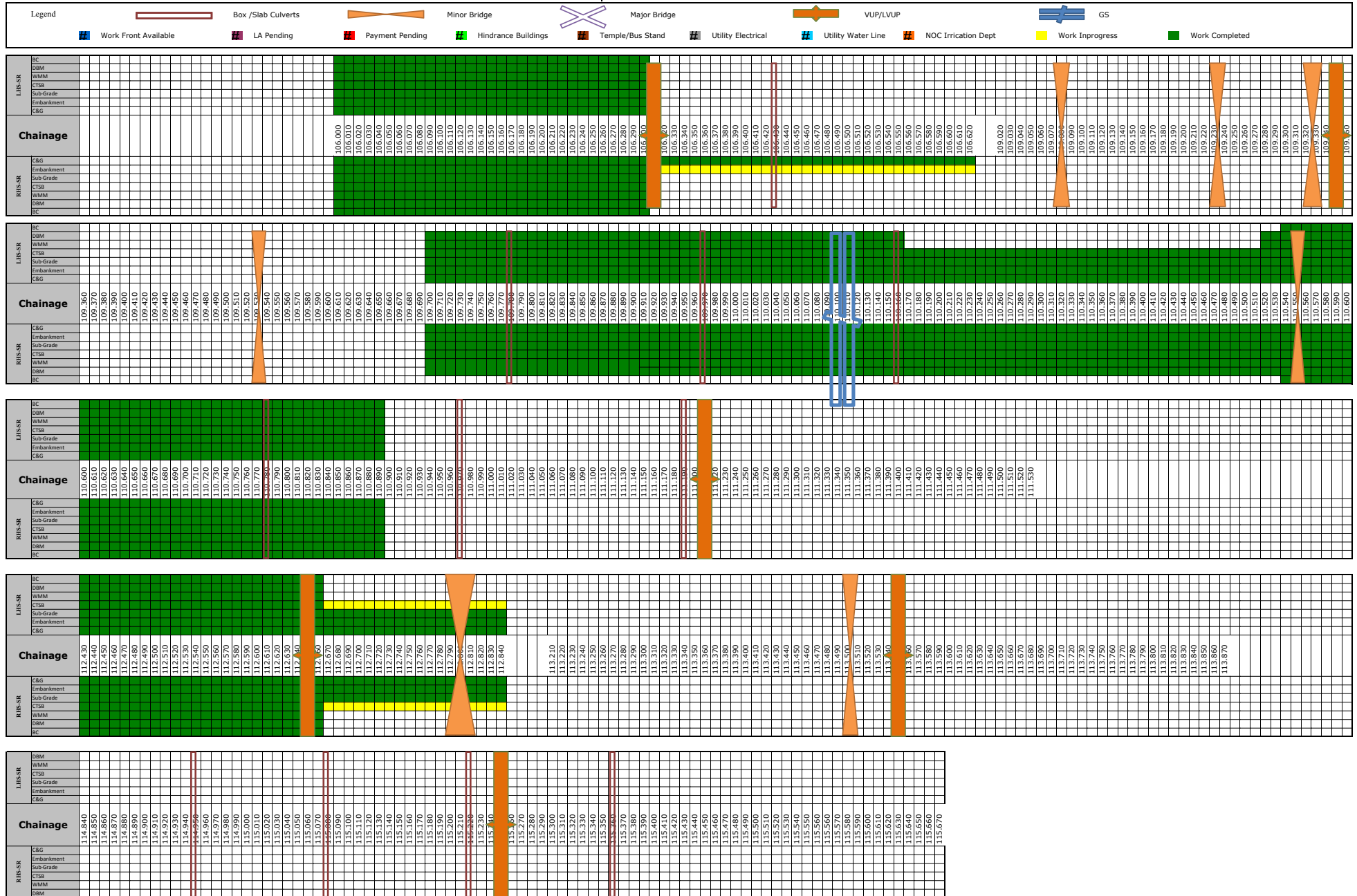
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Sethiyahopu - Cholopuram Road Projects

Strip Plan for SR as on 31.01.2023



SETHIAHOPU CHOLOPURAM PROJECT - STATUS OF BOX CULVERTS ON EXISTING ROAD - MCW							Completed								In Progress								
Status Upto	31.01.2023						LHS								RHS								
Sr. No.	As Approved by IE	Design Chainage As per CA		Number and Length of Spans (m)	Remarks	Type of Structure	Protection Work	Fly wing wall	Slab	Wall	Raft	PCC	Granular Filling	Excavation	Excavation	Granular Filling	PCC	Raft	Wall	Slab	Fly wing wall	Protection Work	
1	74+675	74.670	EXISTING	1 x 3.0m x 2.0m	New Construction	BOX CULVERT																	
2	74+800	74.808	EXISTING	1 x 1.20m	Reconstruction	BOX CULVERT																	
3	75+558	75.555	EXISTING	1x3.0m	Reconstruction	BOX CULVERT																	
4	75+902	75.897	EXISTING	1 x 2.0m x 2.0m	Reconstruction	BOX CULVERT																	
5	76+390	76.387	EXISTING	1 x 3.0m	Reconstruction	BOX CULVERT																	
6	77+382	77.379	EXISTING	1 x 4.0m	Reconstruction	BOX CULVERT																	
7	77+767	77.764	EXISTING	1 x 2.0m	Widening	BOX CULVERT																	
8	81+868	81.867	EXISTING	1 x 2.0m x 2.0m	Reconstruction	BOX CULVERT																	
9	81+913	81.910	EXISTING	1 x 1.95m x 1.0m	Widening	BOX CULVERT																	
10	83+012	83.007	EXISTING	2 x 2.0m x 2.0m	Reconstruction	BOX CULVERT																	
11	83+065	83.062	EXISTING	1 x 2.0m x 2.0m	Reconstruction	BOX CULVERT																	
12	89+973	89.969	EXISTING	4 x 0.75m	Widening	BOX CULVERT																	
13	90+640	90.637	EXISTING	1 x 1.20m	Reconstruction	BOX CULVERT																	
14	94+509	94.509	EXISTING	1 x 3.6m x 1.6m	Widening	BOX CULVERT																	
15	95+495	95.490	EXISTING	1 x 1.2m x 0.9m	Reconstruction	BOX CULVERT																	
16	95+794	95.787	EXISTING	1 x 1.20m	Reconstruction	BOX CULVERT																	
17	96+511	96.505	EXISTING	1 x 5.0m	Reconstruction	BOX CULVERT																	
18	97+530	97.534	EXISTING	1x2.0m	Reconstruction	BOX CULVERT																	
19	97+742	97.738	EXISTING	1 x 3.0m x 1.0m	Widening	BOX CULVERT																	
20	99+471	99.467	EXISTING	1 x 3.0m x 4.0m	Repair & Widening	BOX CULVERT																	
21	99+776	99.769	EXISTING	1 x 2.0m x 2.0m	Repair & Widening	BOX CULVERT																	
22	99+840	99.838	EXISTING	1 x 1.5m x 1.5m	Repair & Widening	BOX CULVERT																	
23	100+177	100.173	EXISTING	1 x 1m	Repair & Widening	BOX CULVERT																	
24	100+364	100.358	EXISTING	1 x 10m	Repair & Widening	BOX CULVERT																	
25	100+823	100.817	EXISTING	1 x 3.5m x 2.5m	Repair & Widening	BOX CULVERT																	
26	101+251		EXISTING	1 x 2.0m x 2.0m	New Construction	BOX CULVERT																	
27	101+851	101.851	EXISTING	1 x 1.5m x 1.5m	Repair & Reconstruction	BOX CULVERT																	
28	103+220	103.214	EXISTING	1 x 4.0m x 2.5m	Repair & Reconstruction	BOX CULVERT																	
29	104+197	104.190	EXISTING	1 x 1.0m	Repair & Reconstruction	BOX CULVERT																	
30	104+215	104.208	EXISTING	1 x 1.0m	Reconstruction	BOX CULVERT																	
31	109+786	109.779	EXISTING	1 x 1.0m	Repair & Reconstruction	BOX CULVERT																	
32	109+975	109.967	EXISTING	1 x 2.0m x 1.7m	Repair & Reconstruction	BOX CULVERT																	
33	110+167	110.160	EXISTING	2 x 1.0m	Repair & Reconstruction	BOX CULVERT																	
34	110+402		EXISTING	1 x 1.5m		BOX CULVERT																	
35	110+795	110.785	EXISTING	1 x 1.2m x 2.0m	Repair & Widening	BOX CULVERT																	
36	110+980	110.971	EXISTING	1 x 1.5m x 2.0m	Repair & Reconstruction	BOX CULVERT																	
37	113+897	113.885	EXISTING	1 x 1.0m	Repair & Widening	BOX CULVERT																	
38	114+313	114.300	EXISTING	1 x 1.0m	Repair & Widening	BOX CULVERT																	
39	114+703	114.703	EXISTING			BOX CULVERT																	
40	114+954	114.952	EXISTING	1 x 1.0m	Repair & Reconstruction	BOX CULVERT																	
41	115+097	115.087	EXISTING	2 x 1.0m	Repair & Reconstruction	BOX CULVERT																	
42	115+232	115.221	EXISTING	1 x 2.0m x 2.0m	Repair & Reconstruction	BOX CULVERT																	
43	115+381	115.368	EXISTING	1 x 2.0m	Repair & Reconstruction	BOX CULVERT																	
44	115+884	115.872	EXISTING	2 x 1.0m	Repair & Widening	BOX CULVERT																	
45	115+978	115.978	EXISTING	1 x 2.0m x 2.0m	Repair & Widening	BOX CULVERT																	

SETHIAHOPU CHOLOPURAM PROJECT - STATUS OF BOX CULVERTS ON EXISTING ROAD - SERVICE ROAD							Completed							In Progress									
Status Upto	31.01.2023						LHS							RHS									
Sr. No.	As Approved by IE	Design Chainage As per CA		Number and Length of Spans (m)	Remarks	Type of Structure	Protection Work	Fly wing wall	Slab	Wall	Raft	PCC	Granular Filling	Excavation	Excavation	Granular Filling	PCC	Raft	Wall	Slab	Fly wing wall	Protection Work	
1	74+675	74.670	EXISTING	1 x 3.0m x 2.0m	New Construction	BOX CULVERT																	
2	74+800	74.808	EXISTING	1 x 1.20m	Reconstruction	PIPE CULVERT																	
3	75+558	75.555	EXISTING	1x3.0m	Reconstruction	BOX CULVERT																	
4	75+902	75.897	EXISTING	1 x 2.0m x 2.0m	Reconstruction	BOX CULVERT																	
5	76+390	76.387	EXISTING	1 x 3.0m	Reconstruction	BOX CULVERT																	
6	77+382	77.379	EXISTING	1 x 4.0m	Reconstruction	BOX CULVERT																	
7	77+767	77.764	EXISTING	1 x 2.0m	Widening	BOX CULVERT																	
8	83+012	83.007	EXISTING	2 x 2.0m x 2.0m	Reconstruction	BOX CULVERT																	
9	83+065	83.062	EXISTING	1 x 2.0m x 2.0m	Reconstruction	BOX CULVERT																	
10	89+973	89.969	EXISTING	4 x 0.75m	Widening	PIPE CULVERT																	
11	90+640	90.637	EXISTING	1 x 1.20m	Reconstruction	PIPE CULVERT																	
12	94+509	94.509	EXISTING	1 x 3.6m x 1.6m	Widening	BOX CULVERT																	
13	95+495	95.490	EXISTING	1 x 1.2m x 0.9m	Reconstruction	BOX CULVERT																	
14	95+794	95.787	EXISTING	1 x 1.20m	Reconstruction	PIPE CULVERT																	
15	96+511	96.505	EXISTING	1 x 5.0m	Reconstruction	BOX CULVERT																	
16	97+530	97.534	EXISTING	1x2.0m	Reconstruction	BOX CULVERT																	
17	99+776	99.769	EXISTING	1 x 2.0m x 2.0m	Repair & Widening	BOX CULVERT																	
18	99+840	99.838	EXISTING	1 x 1.5m x 1.5m	Repair & Widening	BOX CULVERT																	
19	100+177	100.173	EXISTING	1 x 1m	Repair & Widening	PIPE CULVERT																	
20	100+364	100.358	EXISTING	1 x 10m	Repair & Widening	BOX CULVERT																	
21	101+851	101.851	EXISTING	1 x 1.5m x 1.5m	Repair & Reconstruction	BOX CULVERT																	
22	103+220	103.214	EXISTING	1 x 4.0m x 2.5m	Repair & Reconstruction	BOX CULVERT																	
23	104+197	104.190	EXISTING	1 x 1.0m	Repair & Reconstruction	PIPE CULVERT																	
24	104+215	104.208	EXISTING	1 x 1.0m	Reconstruction	PIPE CULVERT																	
25	109+786	109.779	EXISTING	1 x 1.0m	Repair & Reconstruction	PIPE CULVERT																	
26	109+975	109.967	EXISTING	1 x 2.0m x 1.7m	Repair & Reconstruction	BOX CULVERT																	
27	110+167	110.160	EXISTING	2 x 1.0m	Repair & Reconstruction	PIPE CULVERT																	
28	110+402		EXISTING	1 x 1.5m		BOX CULVERT																	
29	110+795	110.785	EXISTING	1 x 1.2m x 2.0m	Repair & Widening	BOX CULVERT																	
30	110+980	110.971	EXISTING	1 x 1.5m x 2.0m	Repair & Reconstruction	BOX CULVERT																	
31	113+897	113.885	EXISTING	1 x 1.0m	Repair & Widening	PIPE CULVERT																	
32	114+313	114.300	EXISTING	1 x 1.0m	Repair & Widening	PIPE CULVERT																	
33	114+954	114.952	EXISTING	1 x 1.0m	Repair & Reconstruction	PIPE CULVERT																	
34	115+097	115.087	EXISTING	2 x 1.0m	Repair & Reconstruction	PIPE CULVERT																	
35	115+232	115.221	EXISTING	1 x 2.0m x 2.0m	Repair & Reconstruction	BOX CULVERT																	
36	115+381	115.368	EXISTING	1 x 2.0m	Repair & Reconstruction	BOX CULVERT																	
37	115+884	115.872	EXISTING	2 x 1.0m	Repair & Widening	PIPE CULVERT																	
38	115+978	115.978	EXISTING	1 x 2.0m x 2.0m	Repair & Widening	BOX CULVERT																	

SETHIAHOPU CHOLOPURAM PROJECT - STATUS OF BOX CULVERTS ON BYPASS - MCW						Completed								In Progress								
Status Upto	31.01.2023					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	31.01.2023					LHS								RHS								
Sr. No.	As Approved by IE	Design Chainage As per CA		Number and Length of Spans (m)	Type of Structure	Protection Work	Fly wing wall	Slab	Wall	Raft	PCC	Granular Filling	Excavation	Excavation	Granular Filling	PCC	Raft	Wall	Slab	Fly wing wall	Protection Work	
1	72+570	72.578	BYPASS	1 x 3.0m x 2.0m	BOX CULVERT																	
2	104+622	104.618	BYPASS	1 x 2.0m x 2.0m	BOX CULVERT																	
3	104+998	104.992	BYPASS	1 x 4.0m x 2.0m	BOX CULVERT																	
4	106+442	106.432	BYPASS	1 x 2.0m x 2.0m	BOX CULVERT																	
5	111+205	111.196	BYPASS	1 x 1.0m	PIPE CULVERT																	
6	113+372	113.372	BYPASS		BOX CULVERT																	

SETHIAHOPU CHOLOPURAM PROJECT - STATUS OF MNB-BOX - MCW						Completed							In Progress									
Status Upto	31.01.2023					LHS							RHS									
Sr. No.	As Approved by IE	Design Chainage As per CA	Number and Length of Spans (m)	Type of Structure		Protection Work	Retaining wall	Slab	Wall	Raft	PCC	Granular Filling	Excavation	Excavation	Granular Filling	PCC	Raft	Wall	Slab	Retaining wall	Protection Work	
1	79+716	79.715	1 x 12.50m	MNBB	Widening																	
2	79+795	79.795	2 x 12.50m	MNBB	Re-Const.																	
3	82+007	82.006	2 x 12.50m	MNBB	Widening																	
4	85+144	85.144	2 x 12.50m	MNBB	Re-Const.																	
5	85+435	85.432	1 x 12.50m	MNBB	Widening																	
6	88+513	88.513	1 x 12.50m	MNBB	Widening																	
7	91+164	91.165	2 x 12.50m	MNBB	Re-Const.																	
8	92+343	92.342	1 x 12.50m	MNBB	Widening																	
9	101+101	101.100		MNBB	EXISTING									NA	NA	NA	NA	NA	NA	NA		
10	66+757	66.730	2 x 12.5m	MNBB	BYPASS																	
11	68+644	68.650	2 x 12.5m	MNBB	BYPASS																	
12	74+173	74.175	2 x 12.5m	MNBB	BYPASS																	
13	74+605	74.600	2 x 12.5m	MNBB	BYPASS																	
14	105+915	105.915	2 x 12.5m	MNBB	BYPASS																	
15	109+090	109.088	2 x 12.5m	MNBB	BYPASS																	
16	109+195	109.208	2 x 12.5m	MNBB	BYPASS																	
17	109+365	109.365	2 x 12.5m	MNBB	BYPASS																	
18	109+540	109.540	2 x 12.5m	MNBB	BYPASS																	
19	111+563	111.565	2 x 12.5m	MNBB	BYPASS																	
20	112+807	112.807	1 x 25m	MNBB	BYPASS																	
21	113+100	113.100	2 x 12.5m	MNBB	BYPASS																	
22	113+505	113.505	2 x 12.5m	MNBB	BYPASS																	

SETHIAHOPU CHOLOPURAM PROJECT - STATUS OF MNB-BOX - SERVICE ROAD						Completed							In Progress									
Status Upto	31.01.2023					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	31.01.2023				LHS						RHS					
Sr. No.	As Approved by IE	Number and Length of Spans (m)	Type of Structure		Protection Work	Slab	Wall	Raft	PCC	Excavation	Excavation	PCC	Raft	Wall	Slab	Protection Work
1	77+420	1X10.5	LVUP	EXISTING												
2	112+643	1X10.5	LVUP	BYPASS												

SETHIYAHOPU CHOLOPURAM PROJECT - STATUS OF MNB (>15m Span)					Completed									In Progress											
Status upto	31.01.2023				LHS									RHS											
Sr. No.	MNB at Chainage	Span			Crash Barrier	Slab	Girder Launching	Girder Casting	Piercap /Abtcap	Pier/Abt	Open Foundation	PCC	Excavation	Excavation	PCC	Open Foundation	Pier/Abt	Piercap /Abtcap	Girder Casting	Girder Launching	Slab	Crash Barrier			
1	70+185	2 x 20	BYPASS	A1																					
				P1																					
				A2																					
2	73+815	1 x 15	BYPASS	A1																					
				A2																					
3	84+725	1 x 15	EXISTING	A1																					
				A2																					
4	84+987	2 x 15	EXISTING	A1																					
				P1																					
				A2																					

SETHIYAHOPU CHOLOPURAM PROJECT - STATUS OF MJB										Completed								
MJB at Chainage 66+530 (8x30) - BYPASS										In Progress								
Status Upto 31.01.2023	LHS/LSR									RHS/RSR								
	Crash Barrier	Slab	Girder Launching	Girder Casting	Pier Cap/Abt	Can	Pier/Abt	Pile Cap	Pile	Pile	Pile Cap	Pier/Abt	Pier Cap/Abt	Can	Girder Casting	Girder Launching	Slab	Crash Barrier
A1																		
P1																		
P2																		
P3																		
P4																		
P5																		
P6																		
P7																		
A2																		
MJB at Chainage 73+340 (9x30) - BYPASS										Completed								
MJB at Chainage 73+340 (9x30) - BYPASS										In Progress								
Status Upto 31.01.2023	LHS/LSR									RHS/RSR								
	Crash Barrier	Slab	Girder Launching	Girder Casting	Pier Cap/Abt	Can	Pier/Abt	Pile Cap	Pile	Pile	Pile Cap	Pier/Abt	Pier Cap/Abt	Can	Girder Casting	Girder Launching	Slab	Crash Barrier
A1																		
P1																		
P2																		
P3																		
P4																		
P5																		
P6																		
P7																		
P8																		
A2																		

MJB at Chainage 99+583 (3x25) - EXISTING ROAD										Completed		In Progress							
Status Upto 31.01.2023	LHS/LSR									RHS/RSR									
	Crash Barrier	Slab	Girder Launching	Girder Casting	Pier Cap/Abt	Can	Pier/Abt	Pile Cap	Pile	Pile	Pile Cap	Pier/Abt	Pier Cap/Abt	Can	Girder Casting	Girder Launching	Slab	Crash Barrier	
A1																			
P1										Existing Major Bridge need to be retained.									
P2																			
A2																			
MJB at Chainage 107+400 - BYPASS										Completed		In Progress							
Status Upto 31.01.2023	LHS/LSR									RHS/RSR									
	Crash Barrier	Slab	Girder Launching	Girder Casting	Pier Cap/Abt	Can	Pier/Abt	Pile Cap	Pile	Pile	Pile Cap	Pier/Abt	Pier Cap/Abt	Can	Girder Casting	Girder Launching	Slab	Crash Barrier	
A1																			
P1																			
P2																			
P3																			
P4																			
P5																			
P6																			
P7																			
P8																			
P9																			
P10																			
P11																			
P12																			
P13																			
P14																			
P15																			
P16																			
P17																			
P18																			
P19																			
A2																			

SETHIYAHOPU CHOLOPURAM PROJECT - STATUS OF FLYOVER					Completed									In Progress										
Status upto	31.01.2023				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																				

SETHIAHOPU CHOLOPURAM PROJECT - STATUS OF VUP					Completed									In Progress									
Status upto	31.01.2023				LHS									RHS									
SR.NO.	VUP at Chainage	Span			Crash Barrier	Slab	Girder Launching	Girder Casting	Piercap /Abtcap	Abt Shaft	Pile Cap	PCC	Pile	Pile	PCC	Pile Cap	Abt Shaft	Piercap /Abtcap	Girder Casting	Girder Launching	Slab	Crash Barrier	
1	72+545	1x25	BYPASS	A1																			
				A2																			
2	75+830	1x25	EXISTING	A1																			
				A2																			
3	86+900	1x25	EXISTING	A1																			
				A2																			
4	87+670	1x25	EXISTING	A1																			
				A2																			
5	90+580	1x25	EXISTING	A1																			
				A2																			
6	97+225	1x25	EXISTING	A1																			
				A2																			
7	101+910	1x25	EXISTING	A1																			
				A2																			
8	102+975	1x25	EXISTING	A1																			
				A2																			
9	106+318	1x25	BYPASS	A1																			
				A2																			
10	109+350	1x25	BYPASS	A1																			
				A2																			
11	111+235	1x25	BYPASS+EXISTING	A1																			
				A2																			
12	113+550	1x25	BYPASS+EXISTING	A1																			
				A2																			
13	115+258	1x25	EXISTING	A1																			
				A2																			

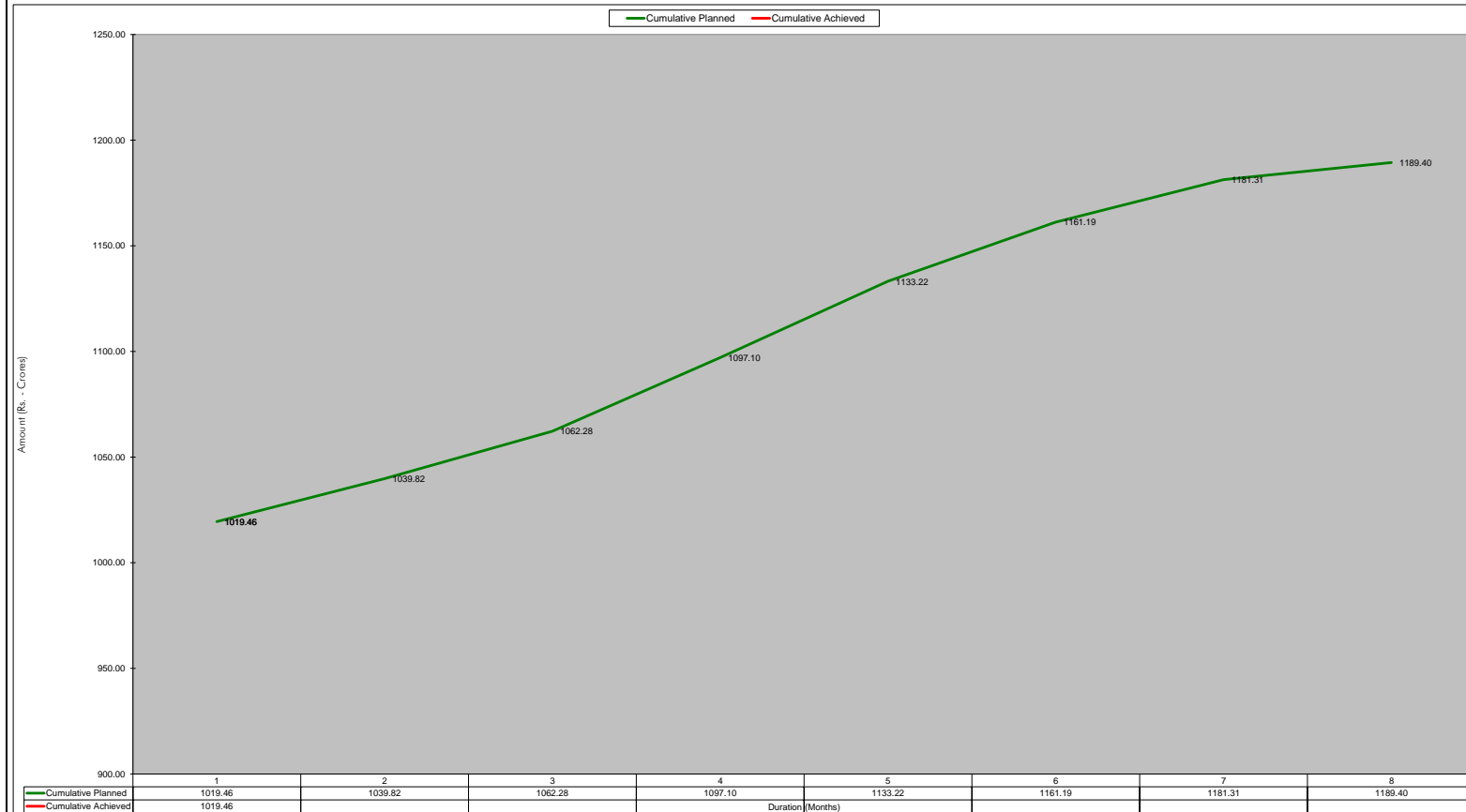
5. Financial & Physical Progress of Work

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

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

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

Fig. 03a- Financial Progress (Revised S-Curve) as per revised Target mentioned in the Settlement Agreement dated 04.03.2021 including EOT of 105 days, recommendation of additional EOT of 270 days and descoping of 9.64 Km length.

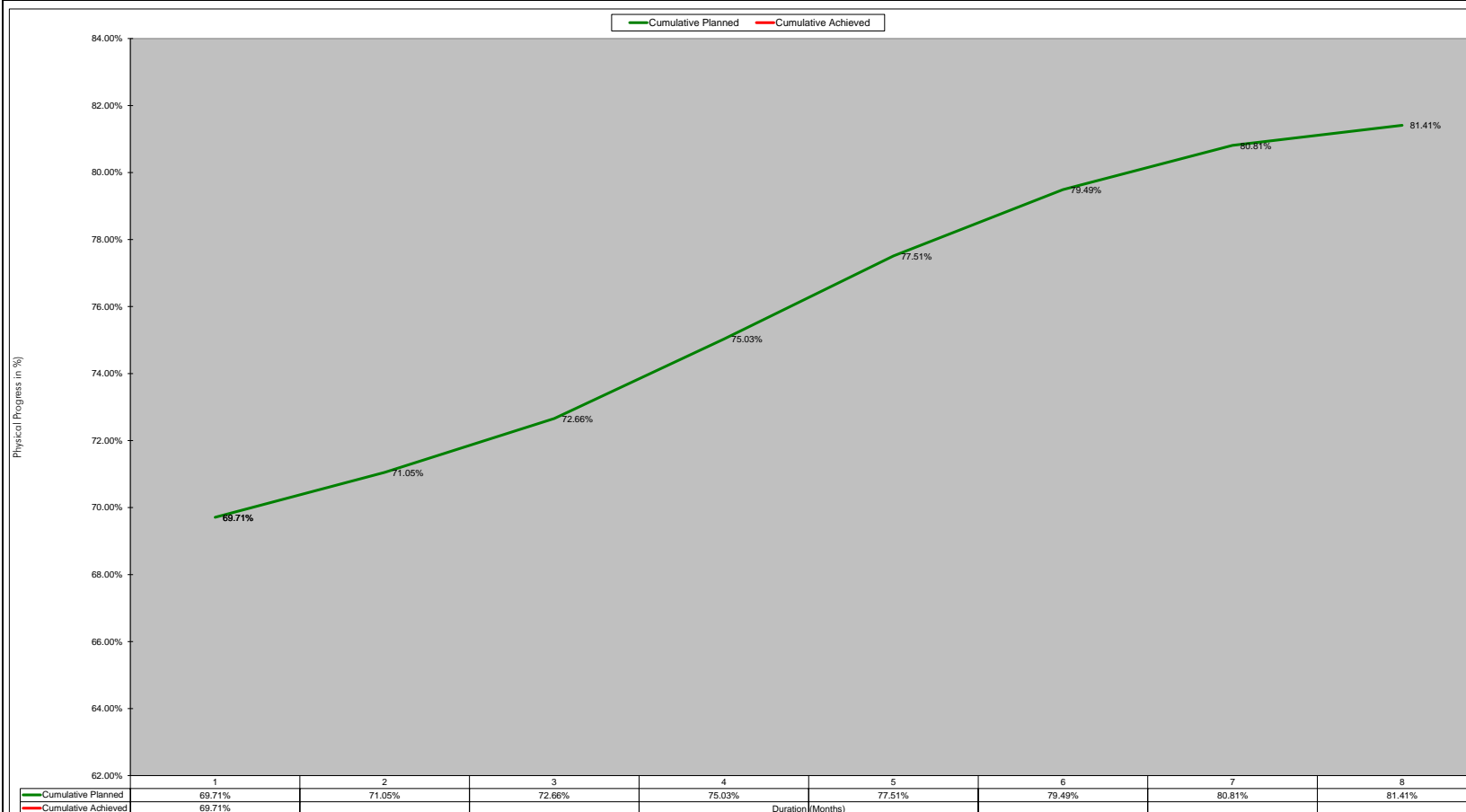


Schedule	2023								
	Up to Jan	Feb	Mar	April	May	June	July	August	
	1	2	3	4	5	6	7	8	
Monthly Planned	1019.46	20.35	22.46	34.82	36.12	27.97	20.12	8.08	
Monthly Achieved	1019.46								
Cumulative Planned	1019.46	1039.82	1062.28	1097.10	1133.22	1161.19	1181.31	1189.40	
Cumulative Achieved	1019.46								
Monthly Planned (%)	69.78%	1.4%	1.5%	2.4%	2.5%	1.9%	1.4%	0.6%	
Monthly Achieved (%)	69.78%								
Cumulative Planned (%)	69.78%	71.2%	72.7%	75.1%	77.6%	79.5%	80.9%	81.4%	
Cumulative Achieved (%)	69.78%								

Note:- Extension of Time for 105 days on account of 2nd wave of COVID-19 was already approved by the Competent Authority. PIU, NHAI has also given recommendation for additional Extension of Time for 270 days due to practical problems/constraints at site & descoping of 9.64 Km length having the descoped amount equal to 271.60 Cr. Hence, the revised bid project cost after the recommendation of descoping in 9.64 Km length will be 1189.40 Cr. Hence, the concessionaire need to complete 81.41% of the project work. The revised S-Curve for financial progress has been updated accordingly and may modify subject to the approval received from the competent authority.

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

Fig. 03b- Physical Progress (Revised S-Curve) as per revised Target mentioned in the Settlement Agreement dated 04.03.2021 including EOT of 105 days, recommendation of additional EOT of 270 days and descoping of 9.64 Km length.



Schedule	2023								
	Up to Jan	Feb	Mar	Apr	May	June	July	Aug	
	1	2	3	4	5	6	7	8	
Revised Target vs Achieved as per Revised Target	Monthly Planned	69.71%	1.34%	1.61%	2.37%	2.48%	1.98%	1.32%	0.60%
	Monthly Achieved	69.71%							
	Cumulative Planned	69.71%	71.05%	72.66%	75.03%	77.51%	79.49%	80.81%	81.41%
	Cumulative Achieved	69.71%							

Note:- Extension of Time for 105 days on account of 2nd wave of COVID-19 was already approved by the Competent Authority. PIU, NHAI has also given recommendation for additional Extension of Time for 270 days due to practical problems/constraints at site & descoping of 9.64 Km length having the descoped amount equal to 271.60 Cr. Hence, the revised bid project cost after the recommendation of descoping in 9.64 Km length will be 1189.40 Cr. Hence, the concessionaire need to complete 81.41% of the project work. The revised S-Curve for physical progress has been updated accordingly and may modify subject to the approval received from the competent authority.

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's 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 (200CM ²)	2
27	GI Tray (18 x24 x50)	5
28	Enamel Tray (medium)	4
29	Enamel Tray (small)	6
30	spectula 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's 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
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 form 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
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	Sand equivalent value test apparatus with accessories	1 Nos
45	field 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	standard penetrometer - automatic with digital timer	1 Nos
55	Beaking head assembly - 6'	1 Nos
56	Bulk density cylindrical metal measure - 15 LTR	1 Nos
57	Bulk density cylindrical metal measure - 5 LTR	1 Nos
58	Bulk density cylindrical metal measure - 30 LTR	1 Nos
59	Calcium carbide - 500 GM for rapid moisture meter	10 Nos
60	Liquid limits device - hand operated	1 Nos
61	CBR mould mild steel 150mm dia 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	chisel 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 water bath for marshal test with digital	2 Nos
71	Core drilling machine with diesel 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
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 pivot apparatus	1 Nos

95	Flexural strength testing machine curve	1 Nos
96	French curve	2 Nos
97	Slump test apparatus 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 apparatus	1 Nos
106	Needle Initial setting time for vicat needle apparatus	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 January - 2023 are tabulated below:-

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



Monthly Progress Report : Summary of Quality Control Report : Month of January - 2023

Sr. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month				Tests conducted during reporting month January 2023						Test conducted upto this month				
				No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos. of test witnessed by IE	Tested		Passed		Failed		No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos. of test witnessed by IE	
								Concessionaire	IE	Concessionaire	IE	Concessionaire	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	0	345	345	0	97
1.2	Atterberg Limits	IS:2720 (Part5)	1 test/250 meters	345	345	0	97	0	0	0	0	0	0	345	345	0	97	
1.3	Proctor	IS:2720 (Part8)	1 test/250 meters	345	345	0	97	0	0	0	0	0	0	345	345	0	97	
1.4	Free Swell index	IS:2720 (Part40)	1 test/250 meters	345	338	7	97	0	0	0	0	0	0	345	338	7	97	
1.5	California bearing ratio	IS:2720 (Part16)	As required	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2.0 Borrow Area for EMB/Subgrade (MoRT&H 305)																		
2.1	Grain size analysis	IS:2720 (Part4)	1 test /1500 m ³	1616	1616	0	875	20	10	20	10	0	0	1636	1636	0	885	
2.2	Atterberg Limits	IS:2720 (Part5)	1 test /1500 m ³	1616	1616	0	875	20	10	20	10	0	0	1636	1636	0	885	
2.3	Proctor	IS:2720 (Part8)	1 test /1500 m ³	1616	1616	0	875	20	10	20	10	0	0	1636	1636	0	885	
2.4	Free Swell index	IS:2720 (Part40)	1 test /1500 m ³	1616	1616	0	875	20	10	20	10	0	0	1636	1636	0	885	
2.5	California bearing ratio	IS:2720 (Part16)	1 test /3000 m ³	490	482	8	259	2	0	0	0	2	0	492	482	10	259	
2.6	Direct shear Test	IS:2720 (Part13)	1 test /3000 m ³	313	310	3	161	0	0	0	0	0	0	313	310	3	161	
3.0 Cutting & Existing Portion for EMB/SG site sampling (MoRT&H 305)																		
3.1	Grain size analysis	IS:2720 (Part4)	1 test /1500 m ³	89	87	2	47	0	0	0	0	0	0	89	87	2	47	
3.2	Atterberg Limits	IS:2720 (Part5)	1 test /1500 m ³	89	87	2	47	0	0	0	0	0	0	89	87	2	47	
3.3	Proctor	IS:2720 (Part8)	1 test /1500 m ³	89	87	2	47	0	0	0	0	0	0	89	87	2	47	
3.4	Free Swell index	IS:2720 (Part40)	1 test /1500 m ³	89	87	2	47	0	0	0	0	0	0	89	87	2	47	
3.5	California bearing ratio	IS:2720 (Part16)	1 test /3000 m ³	46	44	2	26	0	0	0	0	0	0	46	44	2	26	
3.6	Direct shear Test	IS:2720 (Part13)	1 test /3000 m ³	1	1	0	1	0	0	0	0	0	0	1	1	0	1	
4.0 Service Road																		
4.1	Grain size analysis	IS:2720 (Part4)	1 test /1500 m ³	27	27	0	20	0	0	0	0	0	0	27	27	0	20	
4.2	Atterberg Limits	IS:2720 (Part5)	1 test /1500 m ³	27	27	0	20	0	0	0	0	0	0	27	27	0	20	
4.3	Proctor	IS:2720 (Part8)	1 test /1500 m ³	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 m ³	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 m ³	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 m ³	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5.0 Fly Ash For Embankment																		
5.1	Liquid Limit & Plastic limit	TABLE-1	1 test /1500 m ³	447	447	0	256	20	10	20	10	0	0	467	467	0	266	
5.2	Maximum Dry Density	Clause 5.2	1 test /1500 m ³	447	447	0	268	20	10	20	10	0	0	467	467	0	278	
5.3	Grain size analysis	IS:2720 (Part4)	1 test /3000 m ³	307	307	0	180	20	10	20	10	0	0	327	327	0	190	
5.4	Direct shear Test	IS:2720 (Part13)	1 test /3000 m ³	202	202	0	113	10	5	10	5	0	0	212	212	0	118	

Sr. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month				Tests conducted during reporting month January 2023						Test conducted upto this month			
				No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos. of test witnessed by IE	Tested		Passed		Failed		No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos. of test witnessed by IE
								Concessionaire	IE	Concessionaire	IE	Concessionaire	IE				
6.0 Field Density Test (MoRT&H 305)																	
6.1	OGL Field density	IS:2720 (Part28)	1 test /3000 sqm	4069	3949	120	1008	0	0	0	0	0	0	4069	3949	120	1008
6.2	EMB field density	IS:2720 (Part28)	1 test /3000 sqm	91957	89053	2904	17112	888	115	870	112	18	3	92845	89923	2922	17227
6.3	SG field density	IS:2720 (Part28)	1 test /2000 sqm	18910	18445	465	6366	194	41	170	37	24	4	19104	18615	489	6407
6.4	Shoulder field density	IS:2720 (Part28)	1 test /2000 sqm	1143	1100	43	135	60	0	60	0	0	0	1203	1160	43	135
6.5	Ground improvement (Soil)	IS:2720 (Part28)	1 test /2000 sqm	5031	4948	83	611	60	0	60	0	0	0	5091	5008	83	611
6.6	Ground improvement & Median filling (Flyash)	IS:2720 (Part28)	1 test /2000 sqm	34528	33659	869	4654	3098	372	3020	360	78	12	37626	36679	947	5026
7.0 Filter Media & Back filling (MoRT&H 2500)																	
7.1	Gradation		As required	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.2	Backfilling field density		1 test /1000 m ³	993	990	3	58	0	0	0	0	0	0	993	990	3	58
7.3	RE Wall field density		As required	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0 Safe Bearing capacity of soil																	
8.1	Free Swell index	IS:2720 (Part40)	As required	113	100	13	97	0	0	0	0	0	0	113	100	13	97
8.2	Grain size analysis	IS:2720 (Part4)	As required	113	106	7	97	0	0	0	0	0	0	113	106	7	97
8.3	Proctor	IS:2720 (Part8)	As required	113	106	7	97	0	0	0	0	0	0	113	106	7	97
8.4	Direct shear Test	IS:2720 (Part13)	As required	113	94	19	97	0	0	0	0	0	0	113	94	19	97
8.5	Bearing Capacity / Plate Load Test	IS:6403 / IS:1888	As required	110	56	54	66	0	0	0	0	0	0	110	56	54	66
9.0 CTSB Mix Design/Site Frequency (MoRT&H 403)																	
9.1	Gradation	Table 400-4	1 test/400m ³	1152	1152	0	444	13	10	13	10	0	0	1165	1165	0	454
9.2	Atterberg Limits	IS:2720 (Part5)	1 test/400m ³	1031	1031	0	367	13	10	13	10	0	0	1044	1044	0	377
9.3	Proctor	IS:2720 (Part8)	As required	58	58	0	56	2	2	2	2	0	0	60	60	0	58
9.4	CBR Test or unconfined compressive strength test	IS:2720 (Part16)	As required	1	1	0	1	0	0	0	0	0	0	1	1	0	1
9.5	Quality of cement		Minimum 1 test/5 tons	2	2	0	2	0	0	0	0	0	0	2	2	0	2
9.6	Aggregate Impact value	IS:2386 (Part4)	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	6374	6374	0	3780	52	10	52	10	0	0	6426	6426	0	3790
9.8	Specific gravity & Water absorption	IS:2386 (Part2)	As required	2	2	0	2	0	0	0	0	0	0	2	2	0	2
9.9	Cubes	IRC:SP:89 (2010)	1 set 400MT	2170	2170	0	787	13	10	13	10	0	0	2183	2183	0	797
10.0 Granular Bedding Material (For Structures-Ground Improvement)- Mix Design																	
10.1	Gradation	Table 400-1	1 test/400m ³	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.2	Atterberg Limits	IS:2720 (Part5)	1 test/400m ³	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.3	Proctor	IS:2720 (Part8)	As required	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.4	CBR Test	IS:2720 (Part16)	As required	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.5	Aggregate Impact value	IS:2386 (Part4)	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

Sr. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month				Tests conducted during reporting month January 2023						Test conducted upto this month				
				No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos. of test witnessed by IE	Tested		Passed		Failed		No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos. of test witnessed by IE	
								Concessionaire	IE	Concessionaire	IE	Concessionaire	IE					
11.0 Granular Bedding Material (For Structures-Ground Improvement)- Site Frequency																		
11.1	Gradation	Table 400-1	1 test/400m ³	3	3	0	3	0	0	0	0	0	0	0	3	3	0	3
11.2	Atterberg Limits	IS:2720 (Part5)	1 test/400m ³	3	3	0	3	0	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	0
11.4	CBR Test	IS:2720 (Part16)	As required	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.5	Aggregate Impact value	IS:2386 (Part4)	As required	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.6	Field Density	IS:2720 (Part28)	1 Test per 1000 Sq.m	90	90	0	21	0	0	0	0	0	0	90	90	0	21	
12.0 WMM Mix Design (MoRT&H 406)																		
12.1	Gradation	Table 400-3	1 test/200m ³	61	61	0	61	0	0	0	0	0	0	61	61	0	61	
12.2	Aggregate Impact Value	IS:2386 (Part4)	1 test/1000m 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/500 m ³	12	12	0	12	0	0	0	0	0	0	12	12	0	12	
12.4	Atterberg Limits	IS:2720 (Part5)	1 test/200m ³	12	12	0	12	0	0	0	0	0	0	12	12	0	12	
12.5	Water absorption & Sp. Gravity	IS:2386 (Part2)	As required	8	8	0	8	0	0	0	0	0	0	8	8	0	8	
12.6	Proctor	IS:2720 (Part8)	As required	4	4	0	4	0	0	0	0	0	0	4	4	0	4	
12.7	CBR	IS:2720 (Part16)	As required	2	2	0	2	0	0	0	0	0	0	2	2	0	2	
13.0 WMM Site Frequency (MoRT&H 406)																		
13.1	Gradation	Table 400-3	1 test/200m ³	793	793	0	314	3	3	3	3	0	0	796	796	0	317	
13.2	Aggregate Impact Value	IS:2386 (Part4)	1 test/1000m ³	459	459	0	177	3	3	3	3	0	0	462	462	0	180	
13.3	Flakiness & Elongation index	IS:2386 (Part1)	1 test/500 m ³	475	475	0	163	3	3	3	3	0	0	478	478	0	166	
13.4	Atterberg Limits	IS:2720 (Part5)	1 test/200m ³	756	756	0	280	3	3	3	3	0	0	759	759	0	283	
13.5	Water absorption	IS:2386 (Part2)	As required	4	4	0	4	0	0	0	0	0	0	4	4	0	4	
13.6	Proctor	IS:2720 (Part8)	As required	27	27	0	25	1	1	1	1	0	0	28	28	0	26	
13.7	CBR	IS:2720 (Part16)	As required	1	1	0	1	0	0	0	0	0	0	1	1	0	1	
13.8	Field Density	IS:2720 (Part28)	1 set Test per 1000 Sq.m / 3 pits	1695	1695	0	998	7	3	7	3	0	0	1702	1702	0	1001	
14.0 Dense Bituminous Macadam (Grade - II)																		
14.1	Bitumen Extraction & Gradation		1 Test/400MT	479	479	0	218	4	2	4	2	0	0	483	483	0	220	
14.2	Combined Gradation	Table 500 - 18, Grad.II	1 Test/400MT	469	469	0	198	4	2	4	2	0	0	473	473	0	200	
14.3	Individual Gradation Sets	Table 500 - 18, Grad.II	1 Test/400MT	468	468	0	201	4	2	4	2	0	0	472	472	0	203	
14.4	Flakiness & Elongation index	MoRT&H Table 900 - 4	1 test/350m ³	304	304	0	134	2	1	2	1	0	0	306	306	0	135	
14.5	Aggregate Impact Value	MoRT&H Table 900 - 4	1 test/350m ³	351	351	0	154	2	1	2	1	0	0	353	353	0	155	
14.6	Marshall Density	ASTM D 2726	1 Set/400MT	503	503	0	224	4	2	4	2	0	0	507	507	0	226	
14.7	GMM	MoRT&H Table 900 - 4	1 Test/400MT	472	472	0	208	4	2	4	2	0	0	476	476	0	210	
14.8	DBM Core Cutting	MoRT&H Table 900 - 4	1 Test/700M ²	1398	1398	0	771	6	6	6	6	0	0	1404	1404	0	777	
Bitumen test (VG -40)																		
14.9	Softening Point	IS:1205 - 1978	1 Test/ 1 lot	238	238	0	105	2	1	2	1	0	0	240	240	0	106	
14.10	Penetration	IS:1205 - 1978	1 Test/ 1 lot	238	238	0	105	2	1	2	1	0	0	240	240	0	106	
14.11	Viscosity	IS:1205 - 1978	1 Test/ 1 lot	238	238	0	105	2	1	2	1	0	0	240	240	0	106	

Sr. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month				Tests conducted during reporting month January 2023						Test conducted upto this month			
				No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos. of test witnessed by IE	Tested		Passed		Failed		No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos. of test witnessed by IE
								Concessio naire	IE	Concessio naire	IE	Concessio naire	IE				
15.0 Bituminous Concrete (Grade - II) PMB MCW																	
15.1	Bitumen Extraction & Gradation	IRC:SP:11	1 Test/400MT	276	276	0	155	4	2	4	2	0	0	280	280	0	157
15.2	Combined Gradation	Table 500 - 17, Grad.II	1 Test/400MT	279	279	0	172	4	2	4	2	0	0	283	283	0	174
15.3	Individual Gradation Sets	Table 500 - 17, Grad.II	1 Test/400MT	279	279	0	172	4	2	4	2	0	0	283	283	0	174
15.4	Flakiness & Elongation index	MoRT&H Table 900 - 4	1 test/350m ³	139	139	0	78	2	1	2	1	0	0	141	141	0	79
15.5	Aggregate Impact Value	MoRT&H Table 900 - 4	1 test/350m ³	141	141	0	80	2	1	2	1	0	0	143	143	0	81
15.6	Marshall Density	ASTM D 2726	1 Set/400MT	275	275	0	147	4	2	4	2	0	0	279	279	0	149
15.7	GMM	MoRT&H Table 900 - 4	1 Test/400MT	275	275	0	147	4	2	4	2	0	0	279	279	0	149
15.8	BC Core Cutting	MoRT&H Table 900 - 4	1 Test/700M ²	1060	1060	0	525	12	12	12	12	0	0	1072	1072	0	537
16.0 Bituminous Concrete (Grade - II) VG-40 S/R																	
16.1	Bitumen Extraction & Gradation	IRC:SP:11	1 Test/400MT	66	66	0	29	2	2	2	2	0	0	68	68	0	31
16.2	Combined Gradation	Table 500 - 17, Grad.II	1 Test/400MT	63	63	0	28	2	2	2	2	0	0	65	65	0	30
16.3	Individual Gradation Sets	Table 500 - 17, Grad.II	1 Test/400MT	63	63	0	28	2	2	2	2	0	0	65	65	0	30
16.4	Flakiness & Elongation index	MoRT&H Table 900 - 4	1 test/350m ³	37	37	0	19	1	1	1	1	0	0	38	38	0	20
16.5	Aggregate Impact Value	MoRT&H Table 900 - 4	1 test/350m ³	37	37	0	19	1	1	1	1	0	0	38	38	0	20
16.6	Marshall Density	ASTM D 2726	1 Set/400MT	63	63	0	28	2	2	2	2	0	0	65	65	0	30
16.7	GMM	MoRT&H Table 900 - 4	1 Test/400MT	63	63	0	28	2	2	2	2	0	0	65	65	0	30
16.8	BC Core Cutting	MoRT&H Table 900 - 4	1 Test/700M ²	236	236	0	136	4	4	4	4	0	0	240	240	0	140
Bitumen test (PMB)																	
16.9	Softening Point	IS:1205 - 1978	1 Test/ 1 lot	164	164	0	69	1	1	1	1	0	0	165	165	0	70
16.10	Elastic recovery	IS:15462 - 2019	1 Test/ 1 lot	164	164	0	69	1	1	1	1	0	0	165	165	0	70
17.0 Prime Coat																	
17.0	Rate of Spread of Binder		Three tests per day	1024	1024	0	459	9	4	9	4	0	0	1033	1033	0	463
17.1 Emulsion Test (SS-1)																	
17.1	Say bolt Viscometer	IS:8887-2004	1 Test/ 1 lot	24	24	0	17	0	0	0	0	0	0	24	24	0	17
17.2 Tack Coat																	
17.2	Rate of Spread of Binder		Three tests per day	1364	1364	0	488	24	9	24	9	0	0	1388	1388	0	497
17.3 Emulsion Test (RS-1)																	
17.3	Say bolt Viscometer	IS:8887-2004	1 Test/ 1 lot	15	15	0	12	0	0	0	0	0	0	15	15	0	12
18.0 Fine Aggregate (MoRT&H 1008)																	
18.1	Gradation/ Sieve analysis	IS:2386 (Part1)	1 test per day	2272	2272	0	786	26	8	26	8	0	0	2298	2298	0	794
18.2	Specific gravity & Water absorption	IS:2386 (Part3)	As required	16	16	0	15	0	0	0	0	0	0	16	16	0	15
18.3	Fineness Modulus	MoRT&H Sec. 1008 & 383	1 test per day	2130	2130	0	714	26	8	26	8	0	0	2156	2156	0	722
18.4	Alkali aggregate reactivity test	IS:2386 (Part7), 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

Sr. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month				Tests conducted during reporting month January 2023						Test conducted upto this month			
				No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos. of test witnessed by IE	Tested		Passed		Failed		No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos. of test witnessed by IE
								Concessionaire	IE	Concessionaire	IE	Concessionaire	IE				
19.0 Coarse Aggregate (MoRT&H 1007)																	
19.1	Gradation	IS:2386 (Part1)	1 test per day	2186	2186	0	786	26	8	26	8	0	0	2212	2212	0	794
19.2	Specific gravity & Water absorption	IS:2386 (Part3)	As required	18	18	0	15	0	0	0	0	0	0	18	18	0	15
19.3	Aggregate Impact Value	IS:2386 (Part4)	1 test / each source & monthly	570	570	0	271	4	2	4	2	0	0	574	574	0	273
19.4	Flakiness index	IS:2386 (Part1)	1 test / each source & monthly	535	535	0	254	4	2	4	2	0	0	539	539	0	256
19.5	Soundness	IS:2386 (Part5)	As required	2	2	0	2	0	0	0	0	0	0	2	2	0	2
19.6	Alkali aggregate reactivity test	IS:2386 (Part7), IS:456	1 test per source	2	2	0	2	0	0	0	0	0	0	2	2	0	2
19.7	Deleterious constituents	IS:2386 (Part2)	1 test per source	2	2	0	2	0	0	0	0	0	0	2	2	0	2
19.8	Petrographic Examination	IS:2386 (Part8)	1 test per source	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0 Cement (MoRT&H 1006)																	
20.1	Chemical test / Physical test	IS:4031, 4032	1 test per source	14	14	0	9	0	0	0	0	0	0	14	14	0	9
20.2	Fineness	IS:4031 (Part1)	Every batch	611	611	0	282	4	4	4	4	0	0	615	615	0	286
20.3	Normal Consistency	IS:4031 (Part4)	Every batch	583	583	0	282	4	4	4	4	0	0	587	587	0	286
20.4	Initial & Final setting time	IS:4031 (Part5)	Every batch	583	583	0	282	4	4	4	4	0	0	587	587	0	286
20.5	Soundness of Cement	IS:4031 (Part3)	Every batch	527	527	0	248	4	4	4	4	0	0	531	531	0	252
20.6	Compressive Strength-set	IS:4031 (Part6)															
	3 days		1 test per Lot	543	543	0	236	4	2	4	2	0	0	547	547	0	238
	7 days		1 test per Lot	535	535	0	233	4	3	4	3	0	0	539	539	0	236
	28 days		1 test per Lot	533	533	0	223	3	1	3	1	0	0	536	536	0	224
21.0 Concrete Cube Strength																	
M15 PCC																	
	7Days Compressive Strength	MoRT&H Sec. 1700	MoRT&H Sec. 1700 No of sets	797	797	0	287	11	1	11	1	0	0	808	808	0	288
	28Days Compressive Strength			1352	1352	0	566	10	3	10	3	0	0	1362	1362	0	569
M20 KERB																	
	7Days Compressive Strength	MoRT&H Sec. 1700	MoRT&H Sec. 1700 No of sets	347	347	0	81	1	0	1	0	0	0	348	348	0	81
	28Days Compressive Strength			895	895	0	213	10	3	10	3	0	0	905	905	0	216
M20 RCC																	
	7Days Compressive Strength	MoRT&H Sec. 1700	MoRT&H Sec. 1700 No of sets	418	418	0	115	14	2	14	2	0	0	432	432	0	117
	28Days Compressive Strength			767	767	0	250	64	10	64	10	0	0	831	831	0	260
M20 PCC																	
	7Days Compressive Strength	MoRT&H Sec. 1700	MoRT&H Sec. 1700 No of sets	40	40	0	19	2	0	2	0	0	0	42	42	0	19
	28Days Compressive Strength			39	39	0	17	10	3	10	3	0	0	49	49	0	20
M25 RCC																	
	7Days Compressive Strength	MoRT&H Sec. 1700	MoRT&H Sec. 1700 No of sets	78	78	0	21	2	1	2	1	0	0	80	80	0	22
	28Days Compressive Strength			124	124	0	74	5	1	5	1	0	0	129	129	0	75
M30 RCC																	
	7Days Compressive Strength	MoRT&H Sec. 1700	MoRT&H Sec. 1700 No of sets	876	876	0	301	5	2	5	2	0	0	881	881	0	303
	28Days Compressive Strength			1445	1445	0	561	17	7	17	7	0	0	1462	1462	0	568

Sr. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month				Tests conducted during reporting month January 2023						Test conducted upto this month			
				No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos. of test witnessed by IE	Tested		Passed		Failed		No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos. of test witnessed by IE
								Concessio naire	IE	Concessio naire	IE	Concessio naire	IE				
M30 RCC PUMPABLE																	
	7Days Compressive Strength	MoRT&H Sec. 1700	MoRT&H Sec. 1700 No of sets	182	182	0	71	2	0	2	0	0	0	184	184	0	71
	28Days Compressive Strength			450	450	0	228	12	6	12	6	0	0	462	462	0	234
M35 RCC																	
	7Days Compressive Strength	MoRT&H Sec. 1700	MoRT&H Sec. 1700 No of sets	400	400	0	195	6	0	6	0	0	0	406	406	0	195
	28Days Compressive Strength			821	821	0	420	10	6	10	6	0	0	831	831	0	426
M35 PILING																	
	7Days Compressive Strength	MoRT&H Sec. 1700	MoRT&H Sec. 1700 No of sets	987	987	0	518	0	0	0	0	0	0	987	987	0	518
	28Days Compressive Strength			2924	2924	0	1565	0	0	0	0	0	0	2924	2924	0	1565
M35 RCC PUMPABLE																	
	7Days Compressive Strength	MoRT&H Sec. 1700	MoRT&H Sec. 1700 No of sets	1358	1358	0	559	5	1	5	1	0	0	1363	1363	0	560
	28Days Compressive Strength			4114	4114	0	2001	21	8	21	8	0	0	4135	4135	0	2009
M35 RE BLOCK																	
	7Days Compressive Strength	MoRT&H Sec. 1700	MoRT&H Sec. 1700 No of sets	792	792	0	228	0	0	0	0	0	0	792	792	0	228
	28Days Compressive Strength			2270	2270	0	728	0	0	0	0	0	0	2270	2270	0	728
M40 PUMP & M40 RCC																	
	7Days Compressive Strength	MoRT&H Sec. 1700	MoRT&H Sec. 1700 No of sets	1003	1003	0	378	10	3	10	3	0	0	1013	1013	0	381
	28Days Compressive Strength			2212	2212	0	898	5	3	5	3	0	0	2217	2217	0	901
M40 PQC																	
	7 Days Flexural Strength	As Per IS:516	As Per IS:516	12	12	0	12	0	0	0	0	0	0	12	12	0	12
	28 Days Flexural Strength			30	30	0	30	0	0	0	0	0	0	30	30	0	30
	7Days Compressive Strength	As Per IS:516	As Per IS:516	12	12	0	12	0	0	0	0	0	0	12	12	0	12
	28Days Compressive Strength			30	30	0	30	0	0	0	0	0	0	30	30	0	30
M40 PILING																	
	7Days Compressive Strength	MoRT&H Sec. 1700	MoRT&H Sec. 1700 No of sets	306	306	0	92	0	0	0	0	0	0	306	306	0	92
	28Days Compressive Strength			997	997	0	271	0	0	0	0	0	0	997	997	0	271
M45 PUMP																	
	7Days Compressive Strength	MoRT&H Sec. 1700	MoRT&H Sec. 1700 No of sets	435	435	0	188	0	0	0	0	0	0	435	435	0	188
	28Days Compressive Strength			1114	1114	0	442	0	0	0	0	0	0	1114	1114	0	442
M50 RCC PUMP																	
	7Days Compressive Strength	MoRT&H Sec. 1700	MoRT&H Sec. 1700 No of sets	19	19	0	12	0	0	0	0	0	0	19	19	0	12
	28Days Compressive Strength			29	29	0	23	0	0	0	0	0	0	29	29	0	23
M60 PUMP																	
	7Days Compressive Strength	MoRT&H Sec. 1700	MoRT&H Sec. 1700 No of sets	659	659	0	218	0	0	0	0	0	0	659	659	0	218
	28Days Compressive Strength			2266	2266	0	743	0	0	0	0	0	0	2266	2266	0	743

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

SI 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 culvert 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.786_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.531_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
15	NCR - 15	20.09.2022	Km 70+160 to 70+200		Mismatching of FRL with approved Plan & Profile	Lr.No.788_20.09.2022	Lr.No.1323_07.01.2023	Lr.No.829_10.01.2023	Closed

Four Laning of Sethiyahopu - Cholopuram From km 65.960 to km 116.440 Section of NH-45C in the State of TamilNadu Under NHDP Phase-IV on Hybrid Annuity Mode

SOURCE APPROVAL SUMMARY

S.No	Item	Source	Submission Letter No	Approved Letter No	Remarks
1	Quality Assurance Plan (QAP)	M/s Patel Infrastructure Ltd	PSCHPL/SCP/IE/2018/019	TES/IE/SC/PIL/2018/034	Approved
2	Cement	M/s Ramco Cements Limited, Chennai.	PSCHPL/SCP/IE/2018/012	TES/IE/SC/PIL/2018/005	Approved
		M/s Dalmia Bharat Cement, Ariyalur	PSCHPL/SCP/IE/2018/009	TES/IE/SC/PIL/2018/006	Approved
		M/s Ultratech	PSCHPL/SCP/IE/2018/090	TES/IE/SC/PIL/2018/060	Approved
		M/s India Cement (Coremendal)	PSCHPL/SCP/IE/2018/063	TES/IE/SC/PIL/2018/040	Approved
		M/s Chettinad Cement, Chennai.	PSCHPL/SCP/IE/2018/009	TES/IE/SC/PIL/2018/052	Approved
		M/s Barathi Cement,	PSCHPL/SCP/IE/2018/154	TES/IE/SC/PIL/2018/128	Approved
		M/s JSW Cement,	PSCHPL/SCP/IE/2018/294	TES/IE/SC/PIL/2018/257	Approved
3	Steel	M/s Jindal Steel & Power Limited, New Delhi.	PSCHPL/SCP/IE/2018/202	TES/IE/SC/PIL/2018/010	Approved
		M/s shyam Steel	PSCHPL/SCP/IE/2018/202	TES/IE/SC/PIL/2018/016	Approved
		M/s Kamachi Industries limited, Chennai.	PSCHPL/SCP/IE/2018/301	TES/IE/SC/PIL/2018/056	Approved
		M/s SAIL	PSCHPL/SCP/IE/2018/202	TES/IE/SC/PIL/2018/173	Approved
		M/s VIZAG STEEL	PSCHPL/SCP/IE/2018/202	TES/IE/SC/PIL/2018/173	Approved
		M/s Tata Steel Limited,	PSCHPL/SCP/IE/2018/202	TES/IE/SC/PIL/2018/173	Approved
		M/s Essar Steel Ltd,	PSCHPL/SCP/IE/2018/202	TES/IE/SC/PIL/2018/173	Approved
		M/s Electrosteel Steels Limited,	PSCHPL/SCP/IE/2018/202	TES/IE/SC/PIL/2018/173	Approved
M/s Agarwal Foundries pvt Limited,	PSCHPL/SCP/IE/2019/516	TES/IE/SC/PIL/2019/402	Approved		
4	HT strands	M/s Usha Martin Limited	PSCHPL/SCP/IE/2018/286	Factory visit Required	
		M/s D.P.Wires Limited	PSCHPL/SCP/IE/2018/045	PSCHPL/SCP/IE/2018/028	Approved
		M/s Kataria industries Pvt Ltd,	PSCHPL/SCP/IE/2018/253	TES/IE/SC/PIL/2018/213	Approved
5	Prestressing Agency	M/s Dynamic Prestressing India Pvt. Ltd	PSCHPL/SCP/IE/2018/059	TES/IE/SC/PIL/2018/037	Approved
6	Mechanical couplers	M/s Unitech couplers India (P) Ltd., Coimbatore.	PSCHPL/SCP/IE/2018/018	TES/IE/SC/PIL/2018/009	Approved
		M/s Spplcetek India Pvt Ltd., Mumbai.	PSCHPL/SCP/IE/2018/018	Factory visit Required	
7	Chemical Admixture	M/s Fosroc, Bangalore	PSCHPL/SCP/IE/2018/008	TES/IE/SC/PIL/2018/003	Approved
		M/s Kunal Conchem Pvt.Ltd, Faridabad	PSCHPL/SCP/IE/2018/008	TES/IE/SC/PIL/2018/067	Approved
		M/s Rheoplast Technology Pvt. Ltd, Mumbai	PSCHPL/SCP/IE/2018/008	TES/IE/SC/PIL/2018/066	Approved
		M/s BASF India Limited	PSCHPL/SCP/IE/2018/072	TES/IE/SC/PIL/2018/042	Approved
		M/s Sika India Pvt Ltd,	PSCHPL/SCP/IE/2018/272	TES/IE/SC/PIL/2018/234	Approved
		M/s B&B Specialities India Pvt ltd,	PSCHPL/SCP/IE/2018/233	TES/IE/SC/PIL/2018/179	Approved
		M/S CAC Pvt Ltd,	PSCHPL/SCP/IE/2018/219	TES/IE/SC/PIL/2018/180	Approved
M/s CBS Chemicals,	PSCHPL/SCP/IE/2018/293	TES/IE/SC/PIL/2018/256	Approved		
8	Curing Compound	M/s Kunal Conchem Pvt.Ltd, Faridabad	PSCHPL/SCP/IE/2018/094	TES/IE/SC/PIL/2018/067	Approved
		M/s CBS Chemicals Pvt.Ltd, Faridabad	PSCHPL/SCP/IE/2019/464	TES/IE/SC/PIL/2019/369	Approved
9	Emulsion	M/s Indian Oil Corporation	PSCHPL/SCP/IE/2018/061	TES/IE/SC/PIL/2018/039	Approved
		M/s IWL India Limited	PSCHPL/SCP/IE/2018/073	TES/IE/SC/PIL/2018/054	Approved
		M/s Hindustan Colas Private Limited	PSCHPL/SCP/IE/2018/062	TES/IE/SC/PIL/2018/035	Approved
		M/s Ooms Polymer Modified Bitumen Pvt Ltd,	PSCHPL/SCP/IE/2018/314	TES/IE/SC/PIL/2018/254	Approved
		M/s Tiki Tar and shell india pvt ltd	PSCHPL/SCP/IE/2020/674	TES/IE/SC/PIL/2020/485	Approved
		M/s Indian Oil Corporation	PSCHPL/SCP/IE/2018/061	TES/IE/SC/PIL/2018/039	Approved
		M/s Hindustan Colas Private Limited	PSCHPL/SCP/IE/2018/282	TES/IE/SC/PIL/2018/0238	Approved

10	Bitumen	M/s IWL India Limited	PSCHPL/SCP/IE/2018/073	TES/IE/SC/PIL/2018/054	Approved
		M/s Tiki Tar industries,	PSCHPL/SCP/IE/2018/250	TES/IE/SC/PIL/2018/0215	Approved
		M/s Ooms Polymer Modified Bitumen Pvt Ltd, (PMB)	PSCHPL/SCP/IE/2021/806	Factory visit Required	
		M/s BITCOL Corporation india Pvt.Ltd	PSCHPL/SCP/IE/2021/920	TES/IE/SC/PIL/2021/611	Approved
		M/s Hincol (HCPL) PMB 70 H10	PSCHPL/SCP/IE/2021/810	TES/IE/SC/PIL/2021/557	Approved
11	Mastic Ashophalt	M/s IWL India Limited	PSCHPL/SCP/IE/2018/073	TES/IE/SC/PIL/2018/053	Approved
12	Micro Silica	M/s Elkem South Asia pvt Ltd,	PSCHPL/SCP/IE/2018/201	TES/IE/SC/PIL/2018/170	Approved
13	Anti Stripping	M/s HCPL & Tiki Tar Pvt Ltd,	PSCHPL/SCP/IE/2019/495	TES/IE/SC/PIL/2019/384	Approved
14	Micro Fine	M/s Suyag Elements India Pvt Ltd	PSCHPL/SCP/IE/2020/614	TES/IE/SC/PIL/2020/449	Approved
15	Expansion Joint	M/s Kantaflex India Pvt Ltd	PSCHPL/SCP/IE/2020/784	TES/IE/SC/PIL/2021/544	Approved
		M/s Sanfield India Ltd	PSCHPL/SCP/IE/2020/781	TES/IE/SC/PIL/2021/543	Approved
		M/s Hercules Structural Systems Pvt Ltd	PSCHPL/SCP/IE/2020/782	TES/IE/SC/PIL/2021/545	Approved
16	Road Marking	M/s Solucio iffrasolutions Pvt	PSCHPL/SCP/IE/2021/894	TES/IE/SC/PIL/2021/607	Approved
17	Metal Beam CrashBarrier	M/s Roadshield Pvt	PSCHPL/SCP/IE/2021/893	TES/IE/SC/PIL/2021/608	Approved
18	TRAFFIC SIGN BOARDS	M/s S.N.I Infratech Pvt Ltd	PSCHPL/SCP/IE/2020/744	TES/IE/SC/PIL/2020/744	Approved
19	Elastomeric Bearings	M/s Polymer Products Pvt Ltd	PSCHPL/SCP/IE/2020/595	TES/IE/SC/PIL/2020/451	Approved
		M/s Sanfield India Ltd	PSCHPL/SCP/IE/2018/228.168	TES/IE/SC/PIL/2019/205	Approved
		M/s Ammenji Rubber pvt Ltd	PSCHPL/SCP/IE/2018/144	TES/IE/SC/PIL/2018/127	Approved
20	Highway Lighting	M/s PCP Powers pvt Ltd	PSCHPL/SCP/IE/2020/788	TES/IE/SC/PIL/2021/542	Approved
21	Road Studs	M/s 3M Indian Limited	PSCHPL/SCP/IE/2021/987	TES/IE/SC/PIL/2021/642	Approved

CONSUMPTION OF BORROW AREA (UPTO 31/01/2023)

S.NO	B/A NO.	Chainage	Lead Form NH-45C	Side	Suitable For	Approved Qty In M ³	USED Qty In M ³	BALANCE Qty In M ³	Submission Letter No	Approved Letter No	Status	Remark
1	1	Maruvay 61+090	1.5 km	LHS	EMB	18000	17964	36	PSC/PL/SC/IE/2018/093	TES/IE/SC/PIL/2018/059	Close	Approved
2	1	61+090 LHS (Maruvai) EX - 01	1.5km	LHS	EMB	30000	29946	54	PSC/PL/SC/IE/2020/656	TES/IE/SC/PIL/2020/470	Close	Approved
3	1	61+090 LHS (Maruvai) EX - 02	1.5 Km	LHS	EMB&SUBGRADE	30000	30000	0	PSC/PL/SC/IE/2020/656	TES/IE/SC/PIL/2020/470	Close	Approved
4	1	61+090 LHS (Maruvai) EX - 03	1.5km	LHS	EMB	30000	29970	30	PSC/PL/SC/IE/2020/670	TES/IE/SC/PIL/2020/477	Close	Approved
5	1	61+090 LHS (Maruvai) EX - 04	1.5km	LHS	EMB&SUBGRADE	30000	28596	1404	PSC/PL/SC/IE/2020/679	TES/IE/SC/PIL/2020/486	Close	Approved
6	1	61+090 LHS (Maruvai) EX - 05	1.5km	LHS	EMB	30000	29890	110	PSC/PL/SC/IE/2020/679	TES/IE/SC/PIL/2020/486	Close	Approved
7	1	61+090 LHS (Maruvai) EX - 06	1.5km	LHS	EMB	45000	45000	0	PSC/PL/SC/IE/2020/683	TES/IE/SC/PIL/2020/500	Close	Approved
8	2	106+350 RHS Kodali	4.0 km	RHS	EMB	18000	15000	3000	PSC/PL/SC/IE/2018/084	TES/IE/SC/PIL/2018/061	Close	Approved
9	2	106+350 RHS (Kodali) EX - 01	4.0 km	RHS	EMB	30000	12041	17959	PSC/PL/SC/IE/2020/670	TES/IE/SC/PIL/2020/477		Approved
10	2	106+350 RHS (Kodali) EX - 02	4.0 km	RHS	EMB	30000	10561.4	19438.6	PSC/PL/SC/IE/2020/689	TES/IE/SC/PIL/2020/490		Approved
11	3	113+250 LHS Paalur	2.0 km	LHS	EMB	15000	0	15000	PSC/PL/SC/IE/2018/101	TES/IE/SC/PIL/2018/098		Approved
12	4	113+250 LHS Kattanakaram	4.0 km	LHS	EMB	15000	0	15000	PSC/PL/SC/IE/2018/147	TES/IE/SC/PIL/2018/122		Approved
13	5	113+250 LHS Manikudi	5.0 km	LHS	EMB	15000	0	15000	PSC/PL/SC/IE/2018/116	TES/IE/SC/PIL/2018/099		Approved
14	6	112+250 RHS Ammiyapan	8.0 km	RHS	EMB	15000	0	15000	PSC/PL/SC/IE/2018/160	TES/IE/SC/PIL/2018/131		Approved
15	7	80+500 RHS Palayan kottai	6.0 km	RHS	EMB	30000			PSC/PL/SC/IE/2018/160	TES/IE/SC/PIL/2018/129		Approved
16	7	80+500 RHS Palayan kottai EX-01	6.0 km	RHS	EMB	60000	147100	2900	PSC/PL/SC/IE/2019/374	TES/IE/SC/PIL/2019/300		Approved
17	7	80+500 RHS Palayan kottai EX-02	6.0 km	RHS	EMB	60000			PSC/PL/SC/IE/2019/396	TES/IE/SC/PIL/2019/315		Approved
18	7	80+500 RHS Palayan kottai EX-03	6.0 km	RHS	EMB&SUBGRADE	60000	56527.5	3472.5	PSC/PL/SC/IE/2019/435	TES/IE/SC/PIL/2019/343		Approved
19	7	80+500 RHS Palayan kottai EX-04	6.0 km	RHS	EMB&SUBGRADE	30000	29994	6	PSC/PL/SC/IE/2021/1005	TES/IE/SC/PIL/2021/645		Approved
20	7	80+500 RHS Palayan kottai EX-05	6.0 km	RHS	EMB&SUBGRADE	30000	26850	3150	PSC/PL/SC/IE/2022/1083	TES/IE/SC/PIL/2022/682		Approved
21	7	80+500 RHS Palayan kottai EX-06	6.0 km	RHS	EMB&SUBGRADE	30000	20557	9443	PSC/PL/SC/IE/2022/1101	TES/IE/SC/PIL/2022/736		Approved
22	7	80+500 RHS Palayan kottai EX-07	6.0 km	RHS	EMB&SUBGRADE	30000	23491	6509	PSC/PL/SC/IE/2022/1107	TES/IE/SC/PIL/2022/724		Approved
23	8	98+950 RHS Ponnery	5.0 km	RHS	EMB	30000	29679	321	PSC/PL/SC/IE/2019/302	TES/IE/SC/PIL/2019/247		Approved
24	8	98+950 RHS Ponnery EX-01	5.0 km	RHS	EMB&SUBGRADE	30000	5714	24286	PSC/PL/SC/IE/2019/488	TES/IE/SC/PIL/2019/386		Approved
25	9	106+320 RHS (Uthayanatham)	3.0 km	RHS	EMB	25500	39544	956	PSC/PL/SC/IE/2019/302	TES/IE/SC/PIL/2019/247		Approved
26	9	106+320 RHS (Uthayanatham EX-01)	3.0 km	RHS		15000			PSC/PL/SC/IE/2019/472	TES/IE/SC/PIL/2019/365		Approved
27	10	96+600 LHS (Pandianeery)	3.0 km	LHS	EMB	34500	63874	626	PSC/PL/SC/IE/2019/302	TES/IE/SC/PIL/2019/247		Approved
28	10	96+600 LHS (Pandianeery) EX-01	3.0 km	LHS		30000			PSC/PL/SC/IE/2019/345	TES/IE/SC/PIL/2018/268		Approved
29	10	96+600 LHS (Pandianeery) EX-02	3.0 km	LHS	EMB & RE WALL	18000		18000	PSC/PL/SC/IE/2021/950	TES/IE/SC/PIL/2021/630		Approved
30	11	88+550 (Kaduvetti)	1.0 Km	LHS	EMB	25500	25816	-316	PSC/PL/SC/IE/2019/335			Approved
31	11	88+550 (Kaduvetti) EX - 01	1.0 Km	LHS	EMB&SUBGRADE	30000	28498	1502	PSC/PL/SC/IE/2019/352	TES/IE/SC/PIL/2019/280		Approved
32	12	90+500 Puthueary	7.0 Km	RHS	EMB&SUBGRADE	30000	23157.4	6842.6	PSC/PL/SC/IE/2019/390	TES/IE/SC/PIL/2019/307		Approved
33	12	90+500 Puthueary EX-01	7.0 Km	RHS	RE WALL	30000	17933	12067	PSC/PL/SC/IE/2019/510			
34	12	90+500 Puthueary EX-02	7.0 Km	RHS	EMB&SUBGRADE	30000	29782	218	PSC/PL/SC/IE/2020/750			
35	13	87+900 Andi Madam	12.0 Km	RHS	Using For Filter Media							
36	14	87+900 Vilanthai	8.0 km	RHS								
37	15	87+600 Velaneary	4.0 km	RHS	EMB	18000	18193	-193	PSC/PL/SC/IE/2019/387	TES/IE/SC/PIL/2019/302		Approved
38	16	82+900 Aandi Palayam	2.0 Km	RHS	EMB	18000	4576	13424	PSC/PL/SC/IE/2019/381	TES/IE/SC/PIL/2019/299		Approved
39	16	82+900 Aandi Palayam EX-01	2.0 Km	RHS	RE WALL	36000	35953	47	PSC/PL/SC/IE/2019/501	TES/IE/SC/PIL/2019/390		Approved
40	16	82+900 Aandi Palayam EX-02	2.0 Km	RHS	SUBGRADE & RE WALL	30000	30000	0	PSC/PL/SC/IE/2020/758	TES/IE/SC/PIL/2020/528		Approved
41	16	82+900 Aandi Palayam EX-03	2.0 Km	RHS	SUBGRADE & RE WALL	30000	30000	0	PSC/PL/SC/IE/2021/937	TES/IE/SC/PIL/2021/626		Approved
42	16	82+900 Aandi Palayam EX-04	2.0 Km	RHS	SUBGRADE & RE WALL	45000	44999.2	0.8	PSC/PL/SC/IE/2021/977	TES/IE/SC/PIL/2021/637		Approved
43	16	82+900 Aandi Palayam EX-05	2.0 Km	RHS	SUBGRADE & RE WALL	30000	29923.2	76.8	PSC/PL/SC/IE/2022/1126	TES/IE/SC/PIL/2022/740		Approved
44	16	82+900 Aandi Palayam EX-06	2.0 Km	RHS	SUBGRADE & RE WALL	30000	19211.8	10788.2	PSC/PL/SC/IE/2022/1139	TES/IE/SC/PIL/2022/749		Approved

45	16	82+900 Aandi Palayam EX-07	2.0 Km	RHS	SUBGRADE& RE WALL	30000		30000	PSCHPL/SCP/IE/2022/1217			
46	17	94+400 kundaveli East	1.0 Km	LHS	EMB	30000	7428	22572	PSCHPL/SCP/IE/2019/408	TES/IE/SC/PIL/2019/320		Approved
47	18	83+000 Vanamadevi	1.0 Km	LHS	EMB	15000	5338	9662	PSCHPL/SCP/IE/2019/397	TES/IE/SC/PIL/2019/314		Approved
48	19	101+900 Thaluthalai Medu	1.0 Km	RHS	EMB	30000	22129	7871	PSCHPL/SCP/IE/2019/422	TES/IE/SC/PIL/2019/355		Approved
49	20	110+100 Athipakkam	6.0 km	RHS	EMB	15000	2580	12420	PSCHPL/SCP/IE/2019/452	TES/IE/SC/PIL/2019/354		Approved
50	21	103+200 Vembankudi	0.5 Km	LHS	SUBGRADE& RE WALL	30000	30000	0	PSCHPL/SCP/IE/2019/463	TES/IE/SC/PIL/2019/362		Approved
51	21	103+200 Vembankudi EX-01	0.5 Km	LHS	SUBGRADE& RE WALL	22500	20087	2413	PSCHPL/SCP/IE/2020/717	TES/IE/SC/PIL/2020/504		Approved
52	21	103+200 Vembankudi EX-02	0.5 Km	LHS	SUBGRADE& RE WALL	30000	27416	2584	PSCHPL/SCP/IE/2020/775	TES/IE/SC/PIL/2020/538		Approved
53	22	97+300 Muthuservamadam	2.0 Km	RHS	EMB	30000	20786	9214	PSCHPL/SCP/IE/2019/447	TES/IE/SC/PIL/2019/349		Approved
54	23	80+500 Kandiyankuppam	15.00	RHS	EMB&SUBGRADE	30000			PSCHPL/SCP/IE/2019/561	TES/IE/SC/PIL/2019/418		Approved
55	23	80+500 Kandiyankuppam EX - 01	15.00	RHS	EMB&SUBGRADE	30000	59699	301	PSCHPL/SCP/IE/2020/626	TES/IE/SC/PIL/2020/452		Approved
56	23	80+500 Kandiyankuppam EX - 02	15.00	RHS	EMB&SUBGRADE	30000	29538	462	PSCHPL/SCP/IE/2021/812	TES/IE/SC/PIL/2021/555		Approved
57	23	80+500 Kandiyankuppam EX - 03	15.00	RHS	EMB&SUBGRADE	30000	28380	1620	PSCHPL/SCP/IE/2021/845	TES/IE/SC/PIL/2021/576		Approved
58	24	106+900 Karaikuruchi	20.00	RHS	EMB	15000	15000	0	PSCHPL/SCP/IE/2020/636	TES/IE/SC/PIL/2020/453		Approved
59	24	106+900 Karaikuruchi EX - 01	20.00	RHS	SUBGRADE	30000	29711.5	288.5	PSCHPL/SCP/IE/2020/691	TES/IE/SC/PIL/2020/491		Approved
60	24	106+900 Karaikuruchi EX - 02	20.00	RHS	SUBGRADE	30000	29981.6	18.4	PSCHPL/SCP/IE/2021/961	TES/IE/SC/PIL/2021/632		Approved
61	24	106+900 Karaikuruchi EX - 03	20.00	RHS	SUBGRADE	30000	8856.4	21143.6	PSCHPL/SCP/IE/2021/1018	TES/IE/SC/PIL/2021/654		Approved
62	25	90+500 RHS (IDAIPALLAM)	6.00	LHS	EMB	15000	8255	6745	PSCHPL/SCP/IE/2020/637	TES/IE/SC/PIL/2020/454		Approved
63	25	90+500 RHS (IDAIPALLAM) EX-01	6.00	RHS	EMB&SUBGRADE	30000	20228	9772	PSCHPL/SCP/IE/2020/640	TES/IE/SC/PIL/2020/469		Approved
64	26	98+900 LHS (kommedu)	19.00	RHS	EMB&SUBGRADE	30000	28212	1788	PSCHPL/SCP/IE/2020/661	TES/IE/SC/PIL/2020/472		Approved
65	27	91+400RHS (pappakudi)	0.80	RHS	EMB	15000	14957	43	PSCHPL/SCP/IE/2020/657	TES/IE/SC/PIL/2020/471		Approved
66	28	92+600 RHS Chokalingapuram	0.70	RHS	EMB&SUBGRADE	30000	29982	18	PSCHPL/SCP/IE/2020/676	TES/IE/SC/PIL/2020/471		Approved
67	28	92+600 RHS Chokalingapuram EX-01	0.70	RHS	SUBGRADE	30000	26657	3343	PSCHPL/SCP/IE/2020/838	TES/IE/SC/PIL/2020/568		Approved
68	28	92+600 RHS Chokalingapuram EX-02	0.70	RHS	SUBGRADE	30000		30000	PSCHPL/SCP/IE/2022/1165	TES/IE/SC/PIL/2022/779		
69	29	90+580 RHS Irudhayapuram	10.00	RHS	EMB	15000	13500	1500	PSCHPL/SCP/IE/2020/711	TES/IE/SC/PIL/2020/501		Approved
70	30	80+500 RHS Keelpathi	6.00	RHS	EMB & SUBGRADE	15000	14949	51	PSCHPL/SCP/IE/2020/711	TES/IE/SC/PIL/2020/501		Approved
71	30	80+500 RHS Keelpathi EX - 1	6.00	RHS	EMB & SUBGRADE	30000	29936	64	PSCHPL/SCP/IE/2021/926	TES/IE/SC/PIL/2021/618		Approved
72	30	80+500 RHS Keelpathi EX - 2	6.00	RHS	EMB & SUBGRADE	30000	27834	2166	PSCHPL/SCP/IE/2021/927	TES/IE/SC/PIL/2021/619		Approved
73	31	87+600 RHS Thirukalappur	10.00	RHS	SUBGRADE	30000	26955	3045	PSCHPL/SCP/IE/2020/717	TES/IE/SC/PIL/2020/504		Approved
74	32	106+300 RHS Keelnatham	35.00	RHS	SUBGRADE& RE WALL	30000	2947	27053	PSCHPL/SCP/IE/2020/725	TES/IE/SC/PIL/2020/505		Approved
75	33	87+600 RHS Thathur	10.00	RHS	EMB& RE WALL	30000	21273	8727	PSCHPL/SCP/IE/2020/736	TES/IE/SC/PIL/2020/511		Approved
76	35	115+250 RHS KADAMPANKUDI	6.00	RHS	EMB& RE WALL	30000	8811.2	21188.8	PSCHPL/SCP/IE/2020/812			
77	36	Thirukalapur kuppam	7.00	RHS	SUB & RE WALL	30000	29989	11	PSCHPL/SCP/IE/2020/838	TES/IE/SC/PIL/2020/569		Approved
78	36	Thirukalapur kuppam Ex - 1	7.00	RHS	SUB & RE WALL	30000	27334	2666	PSCHPL/SCP/IE/2021/887	TES/IE/SC/PIL/2021/588		Approved
79	36	Thirukalapur kuppam Ex - 2	7.00	RHS	SUB & RE WALL	30000	27563	2437	PSCHPL/SCP/IE/2021/936	TES/IE/SC/PIL/2021/625		Approved
80	37	Manalmedu(109+350)	10.00	RHS	EMB	18000	2249.5	15750.5	PSCHPL/SCP/IE/2021/844	TES/IE/SC/PIL/2021/574		Approved
81	38	Melur (98+900)	18.00	RHS	SUB & RE WALL	30000	23993.6	6006.4	PSCHPL/SCP/IE/2021/847	TES/IE/SC/PIL/2021/578		Approved
82	38	Melur (98+900) EX - 1	18.00	RHS	SUB & RE WALL	30000	5685	24315	PSCHPL/SCP/IE/2021/886	TES/IE/SC/PIL/2021/589		Approved
83	39	Thirukalapur South (87+600)	10.00	RHS	EMB	18000	2415	15585	PSCHPL/SCP/IE/2021/853	TES/IE/SC/PIL/2021/584		Approved
84	40	Kaduvetti (88+750)	0.5KM	RHS	EMB & RE Wall Median filling	30000	29715	285	PSCHPL/SCP/IE/2021/954	TES/IE/SC/PIL/2021/631		Approved
85	41	Simustnam	17KM	RHS	SUB GRADE & RE WALL	30000	29959	41	PSCHPL/SCP/IE/2022/1062	TES/IE/SC/PIL/2022/669		Approved
86	41	Simustnam (ex-01)	17KM	RHS	SUB GRADE & RE WALL	30000	29294	706	PSCHPL/SCP/IE/2022/1086	TES/IE/SC/PIL/2022/686		Approved
87	41	Simustnam (ex-02)	17KM	RHS	SUB GRADE & RE WALL	30000	29739	261	PSCHPL/SCP/IE/2022/1102	TES/IE/SC/PIL/2022/717		Approved
88	41	Simustnam (ex-03)	17KM	RHS	SUB GRADE & RE WALL	30000	14007	15993	PSCHPL/SCP/IE/2022/1118	TES/IE/SC/PIL/2022/784		Approved

89	41	Simustnam (ex-04)	17KM	RHS	SUB GRADE & RE WALL	30000		30000	PSCHPL/SCP/IE/2022/1201	TES/IE/SC/PIL/2022/803		Approved			
90	42	Silal	12KM	RHS	EMB	18000	12617	5383	PSCHPL/SCP/IE/2022/1139	TES/IE/SC/PIL/2022/746		Approved			
91	43	Kodangudi	44KM	RHS	EMB,SUB	30000		30000	PSCHPL/SCP/IE/2022/1170	TES/IE/SC/PIL/2022/783		Approved			
92	44	Stahampadi	41KM	RHS	RE WALL	30000		30000	PSCHPL/SCP/IE/2022/1300	TES/IE/SC/PIL/2023/828		Approved			
TOTAL QTY EMB M ³						883500									
TOTAL QTY SUBGRADE M ³						60000									
TOTAL QTY EMB&SUBGRADE M ³						435000									
TOTAL QTY RE WALL M ²						66000									
TOTAL QTY SUBGARDE&RE WALL M ²						262500									
TOTAL EMB & RE WALL M ³						60000									
TOTAL QTY M ³						1767000									
FLYASH CONSUMPTION (UPTO 31/01/2023)															
1	1	FLYASH EX-01	30 Km	LHS	RE WALL	25500	653250	12750	PSCHPL/SCP/IE/2018/122	TES/IE/SC/PIL/2018/101		Approved			
2	2	FLYASH EX-02	30 Km	LHS		25500			PSCHPL/SCP/IE/2019/303	TES/IE/SC/PIL/2019/255		Approved			
3	3	FLYASH EX-03	30 Km	LHS		30000								Approved	
4	4	FLYASH EX-04	30 Km	LHS		30000					PSCHPL/SCP/IE/2019/448	TES/IE/SC/PIL/2019/350		Approved	
5	5	FLYASH EX-05	30 Km	LHS		45000					PSCHPL/SCP/IE/2019/489	TES/IE/SC/PIL/2019/385		Approved	
6	6	FLYASH EX-06	30 Km	LHS		30000					PSCHPL/SCP/IE/2019/518	TES/IE/SC/PIL/2019/400		Approved	
7	7	FLYASH EX-07	30 Km	LHS		30000					PSCHPL/SCP/IE/2019/570	TES/IE/SC/PIL/2019/430		Approved	
8	8	FLYASH EX-08	30 Km	LHS		30000					PSCHPL/SCP/IE/2019/571	TES/IE/SC/PIL/2019/431		Approved	
9	9	FLYASH EX-09	30 Km	LHS		30000					PSCHPL/SCP/IE/2020/728	TES/IE/SC/PIL/2020/512		Approved	
10	10	FLYASH EX-10	30 Km	LHS		30000					PSCHPL/SCP/IE/2020/761	TES/IE/SC/PIL/2020/527		Approved	
11	11	FLYASH EX-11	30 Km	LHS		30000					PSCHPL/SCP/IE/2021/814	TES/IE/SC/PIL/2021/554		Approved	
12	12	FLYASH EX-12	31 Km	LHS		30000					PSCHPL/SCP/IE/2021/828	TES/IE/SC/PIL/2021/558		Approved	
13	13	FLYASH EX-13	30 Km	LHS		30000					PSCHPL/SCP/IE/2021/846	TES/IE/SC/PIL/2021/577		Approved	
14	14	FLYASH EX-14	31 Km	LHS		30000									
15	15	FLYASH EX-15	31 Km	LHS		30000					PSCHPL/SCP/IE/2021/919	TES/IE/SC/PIL/2021/613		Approved	
16	16	FLYASH EX-16	32 Km	LHS		30000					PSCHPL/SCP/IE/2021/917	TES/IE/SC/PIL/2021/612		Approved	
17	17	FLYASH EX-17	32 Km	LHS		30000					PSCHPL/SCP/IE/2021/949	TES/IE/SC/PIL/2021/629		Approved	
18	18	FLYASH EX-18	32 Km	LHS		45000					PSCHPL/SCP/IE/2021/960	TES/IE/SC/PIL/2021/633		Approved	
19	19	FLYASH EX-19	32 Km	LHS		60000					PSCHPL/SCP/IE/2021/964	TES/IE/SC/PIL/2021/634		Approved	
20	20	FLYASH EX-20	32 Km	LHS		45000					PSCHPL/SCP/IE/2022/1092	TES/IE/SC/PIL/2022/690		Approved	

7. Weather Report -Meensurutti

DATE	Temperature (°C)		Rainfall in mm	Humidity in %		Remarks
	Max	Min		Max	Min	
1-Jan-2023	33.7	24.1	0.00	87	50	Sunny
2-Jan-2023	33.7	25.2	0.00	85	53	Sunny
3-Jan-2023	33.9	24.0	0.00	84	50	Sunny
4-Jan-2023	32.6	24.3	0.00	83	52	Sunny
5-Jan-2023	32.7	23.9	0.00	85	50	Sunny
6-Jan-2023	33.4	24.1	0.00	84	49	Sunny
7-Jan-2023	33.9	24.2	4.00	83	52	Rainy
8-Jan-2023	32.4	25.2	0.00	80	50	Sunny
9-Jan-2023	33.2	23.2	0.00	79	52	Sunny
10-Jan-2023	33.5	22.7	0.00	76	51	Sunny
11-Jan-2023	32.9	21.9	0.00	86	50	Sunny
12-Jan-2023	33.4	22.7	0.00	84	52	Sunny
13-Jan-2023	33.1	21.2	0.00	86	50	Sunny
14-Jan-2023	34.4	21.1	0.00	85	48	Sunny
15-Jan-2023	33.9	22.7	0.00	82	51	Sunny
16-Jan-2023	32.6	22.9	0.00	79	52	Sunny
17-Jan-2023	33.7	22.8	0.00	84	52	Sunny
18-Jan-2023	32.9	23.7	0.00	82	48	Sunny
19-Jan-2023	33.5	22.9	0.00	78	51	Sunny
20-Jan-2023	33.4	22.8	0.00	78	49	Sunny
21-Jan-2023	32.9	23.1	0.00	80	50	Sunny
22-Jan-2023	33.4	24.5	0.00	82	52	Sunny
23-Jan-2023	33.1	24.0	0.00	81	56	Sunny
24-Jan-2023	32.8	24.7	0.00	85	53	Sunny
25-Jan-2023	33.1	22.4	0.00	86	49	Sunny
26-Jan-2023	33.8	24.9	0.00	87	50	Sunny
27-Jan-2023	33.9	23.8	0.00	86	52	Sunny
28-Jan-2023	32.8	22.6	0.00	83	50	Sunny
29-Jan-2023	33.7	23.3	0.00	82	56	Sunny
30-Jan-2023	28.3	24.2	6.00	86	54	Rainy
31-Jan-2023	28.4	24.1	0.00	90	53	Sunny

Weather Report Annakarai

Date	Temperature (°C)		Rainfall in mm	Humidity in %		Remarks
	Max	Min		Max	Min	
1-Jan-2023	30.8	23.6	0.00	82	59	Sunny
2-Jan-2023	30.6	23.2	0.00	79	56	Sunny
3-Jan-2023	30.0	24.1	0.00	84	57	Sunny
4-Jan-2023	31.1	23.7	0.00	78	60	Sunny
5-Jan-2023	31.3	24.4	0.00	79	58	Sunny
6-Jan-2023	30.7	23.9	0.00	81	62	Sunny
7-Jan-2023	31.1	23.2	7.00	84	58	Rainy
8-Jan-2023	31.6	23.7	0.00	80	61	Sunny
9-Jan-2023	30.7	24.1	0.00	78	57	Sunny
10-Jan-2023	30.4	23.5	0.00	81	59	Sunny
11-Jan-2023	31.5	24.2	0.00	77	62	Sunny
12-Jan-2023	32.1	23.4	0.00	83	57	Sunny
13-Jan-2023	32.7	22.7	0.00	80	59	Sunny
14-Jan-2023	31.9	22.9	0.00	78	61	Sunny
15-Jan-2023	30.8	21.7	0.00	82	56	Sunny
16-Jan-2023	31.8	22.4	0.00	79	58	Sunny
17-Jan-2023	31.4	23.3	0.00	81	62	Sunny
18-Jan-2023	30.7	24.1	0.00	77	59	Sunny
19-Jan-2023	32.1	23.4	0.00	78	61	Sunny
20-Jan-2023	33.5	24.1	0.00	81	55	Sunny
21-Jan-2023	32.4	23.3	0.00	77	54	Sunny
22-Jan-2023	33.2	24.3	0.00	80	52	Sunny
23-Jan-2023	32.9	23.8	0.00	82	55	Sunny
24-Jan-2023	34.1	24.2	0.00	84	50	Sunny
25-Jan-2023	34.6	23.7	0.00	80	47	Sunny
26-Jan-2023	33.7	24.0	0.00	78	49	Sunny
27-Jan-2023	34.2	23.5	0.00	81	46	Sunny
28-Jan-2023	33.8	24.2	0.00	79	44	Sunny
29-Jan-2023	32.9	24.6	0.00	86	47	Sunny
30-Jan-2023	33.1	23.2	8.00	78	49	Rainy
31-Jan-2023	32.7	23.4	0.00	80	51	Sunny

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

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



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 bus bays, turning radius of major junctions along the project highways.
3. NOC from PWD/WRO, Govt of Tamil Nadu for construction of Minor Bridge and Major Bridge 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	

4. Insufficient 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.
5. NOC from PWD/WRO, Govt. of Tamil Nadu for construction of project highways in the existing pond locations as mentioned below in the tabular form:-

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	80+396	80+415	19.00	LHS	27.00	7.00
4	80+400	80+423	23.00	RHS	24.00	6.50
5	97+376	97+535	159.00	RHS	32.67	11.00
6	100+350	100+389	39.00	LHS	22.70	4.00
7	103+039	103+056	17.60	LHS	23.00	6.60
8	103+125	103+360	235.00	LHS	23.00	6.00
9	104+091	104+262	171.00	RHS	23.00	16.80
10	103+992	104+264	271.50	LHS	23.00	10.90
TOTAL			1079.85			

6. 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	
2	81+870	1.8m	To be shifted to edge of PROW	

3	81+910	1.8m	To be shifted to edge of PROW	Deposit Amount remitted to PWD/WRO. Work yet to be commenced.
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

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

8. 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 & letter no. 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 mobilized 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 hometown. Based on prevailing situation and circumstances thereto & on human ground we could not restrict them from going to their hometown and many migrant labours / staffs have registered their name for the movement to their hometown.

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 Tamilnadu, 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.

9. 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.

10. 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 migrant's labours who were gone their home at Holi Festival are not returning due to fear and precarious situation of the spike of COVID-19 pandemic. Due to this condition, we are facing acute shortage of labour/operator/driver for the construction activities in Project Highway and work is being affected because of the impediments beyond the control of the Concessionaire. It is also pertaining to mention that despite taking all necessary precaution and follow the safety guidelines of COVID-19, unfortunately, our many manpower including senior-level deployed at in Project i.e. Sethiyahopu- Cholapuram Section have been infected by COVID-19 and our both base camp (i.e. Meensuruti Base Camp & Anakarai Base Camp) have been sealed by the Block Medical officer, Govt. Community Health Center, Ariyalur despite that incident was beyond our control.

11. 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 (16th January'2022) in view of the rising COVID-19 cases. The state government has been re imposing a Sunday lockdown in the state since 9th January'2022. 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.

12. Unprecedented heavy rain affected the construction activities in the project highway due to the occurrence & effect of severe cyclonic storm MANDOUS on dated 09.12.2022.

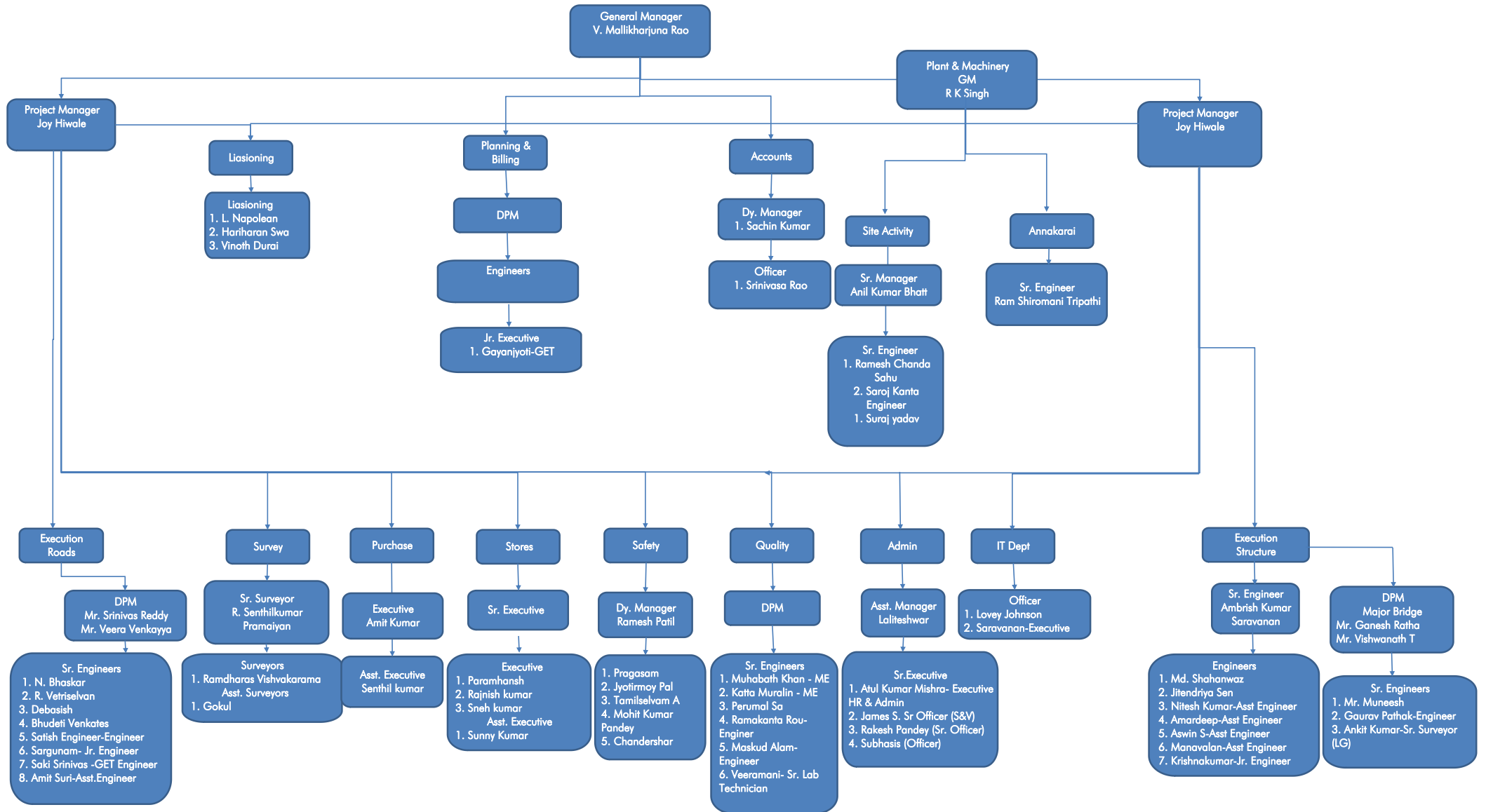
Table 10.1. Details of Important Events

Sl. No	Date of Events	Description of Events	Remarks
1	03.01.2023	Review meeting held at New Delhi	
2	17.01.2023	Review meeting held at New Delhi	

The following figures represents the organization chart 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

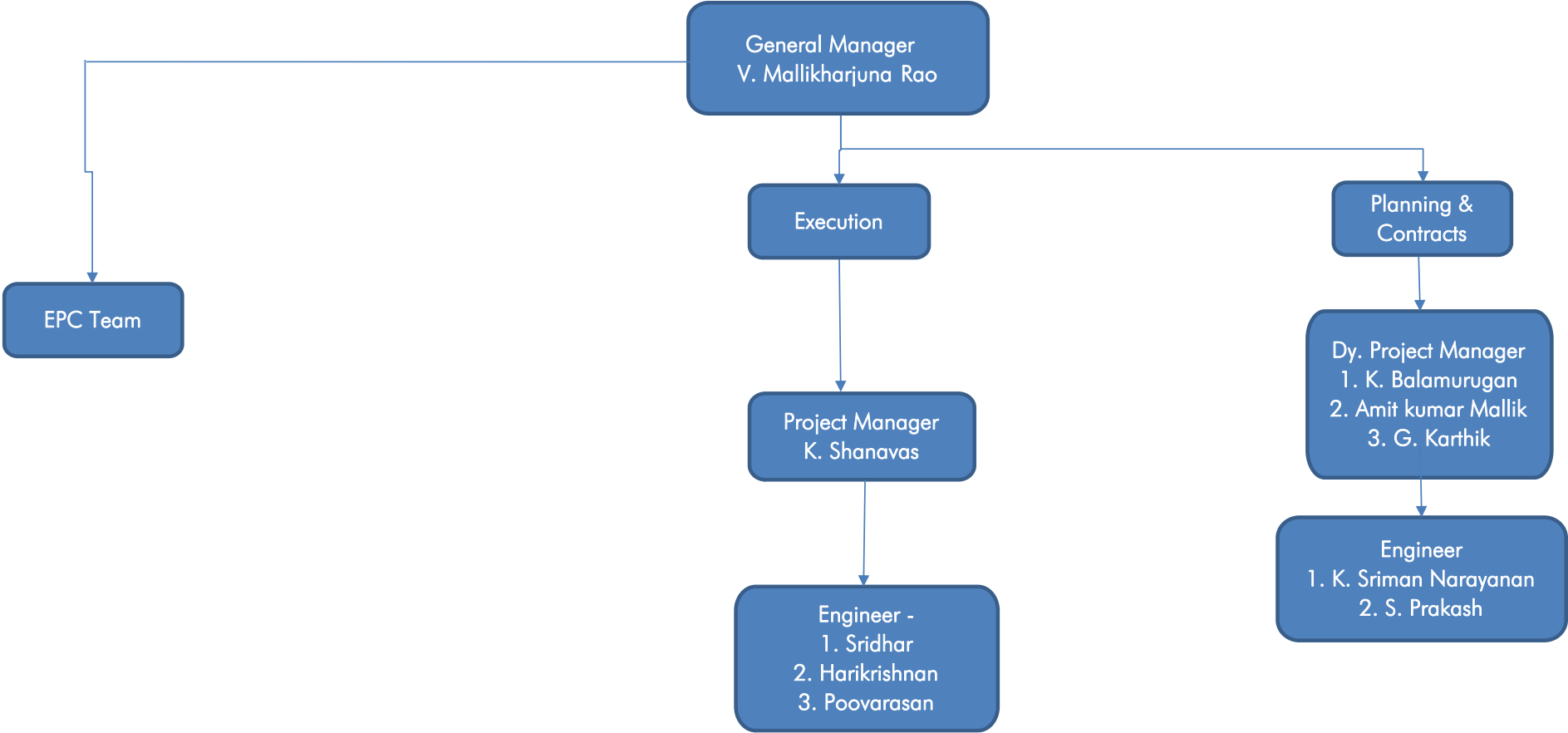


Table 12.1 Mobilization of Manpower

Sr. No.	Department	Manager	Engineer / Executive	Supervisor / Technician / Helper	Total	Remarks
A1	GENERAL MANAGER	2			2	
A2	SR/ PROJECT MANAGER	2			2	
B	Project Management					
B.1	Planning & Billing	4	5		9	
B.2	HR & Administration	1	1		2	
B.3	Accounts	1			1	
B.4	Safety	1	1	3	5	
B.5	QA / QC	1	5	1	7	
B.6	Legal & Liasioning	1	2		3	
B.7	Purchase	1	1		2	
B.8	Store		13	4	17	
B.9	Plant & Equipment	4	9	243	256	
B.10	Facility & House Keeping			10	10	
C	Project Execution					
C.1	Road	1	13	6	20	
C.2	Structures	2	7	7	16	
C.3	Survey	1	2	2	5	
D	Labours			171	171	
	Grand Total	22	59	447	528	

13. List of Plants, Machinery and Equipment's

Table 13.1 - List of Plants, Machinery and Equipment's

Sr. No.	Name of the Machinery	Capacity / Model	Mobilized in Nos.	Remarks
1	Grader	120K2	5	
2	Excavator	JCB-220	8	
3	Dozer		4	
4	Soil Compactor	HAMM 311	7	
5	Backhoe Loader	JCB 3DX	8	
6	Tipper	Bharat Benz- 3128C	310	
7	Transit Mixture	2523C	9	
8	Loader	455 ZX	7	
9	Trailer		2	
10	Diesel Tanker		2	
11	Kerb Laying machine		1	
12	Light Moving Vehicles/Car/Jeep/Vans		30	
13	Milling Machine		1	
14	PT Roller		1	
15	Tandem Roller		3	
16	Water Tanker		9	
17	Boom Placer	S-36	1	
18	Baby Roller	VMT-330	2	
19	Bitumen Sprayer	Eicher	2	
20	Paver		3	
21	Tractor	5036 D V-2	6	
22	Mobile Service Van		1	
23	Tower Light	AJASKY	9	
24	Hydra Crane		3	
25	Asphalt Batch Mix Plant		1	
26	Wet Mix Plant	250 TPH	1	
27	Concrete Batch Mix Plant	45 cum	1	
28	Crusher Plant (3 Stage)	250 TPH	2	
29	Weigh Bridge for Camp 100MT	100MT	2	
30	Weigh Bridge for Crusher 100MT	100MT	2	
31	Genset Base Camp	25KV	2	
32	Genset 63KVA Boiler	63KVA Boiler	1	

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33	Genset (H.M & B/P)	82.50KV	3	
34	Genset (B/P-CP-45)	125KV	4	
35	Genset Concrete Plant-180 KVA	180 KVA	3	
36	Genset (Crusher)	1010KVA	1	
37	Genset 63KVA	62.5 KVA	2	
38	Genset 650KV	650KV	1	
39	Genset 15KV	15KV	2	
40	Genset 80KV	80KV	2	
41	Genset 40KV	40KV	4	
42	Genset 82.5KV	82.50KV	3	
43	Gantry at Box Segment Casting Yard	100 MT	2	
44	Launching Girder		2	

14. Change of Scope Proposals

Table 14.1 - 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 the Strengthening/upgrade the incident Management Service.	NA	NA
3	Comprehensive –COS 02	20.08.2018	Approved	(-) 4.69 Cr	23.06.2021

The following tables list out the correspondences between the parties:-

Table 15.1. - Concessionaire to NHAI

Table 15.2. - NHAI to Concessionaire

Table 15.3. - Concessionaire to Independent Engineer

Table 15.4. - 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

Sr. No.	Date	Letter No	Subject	Remarks
1	04.01.2023	PSCHPL/HO/SCP/PIU/001/2023	Reimbursement of 50% Cost & Expenditure of Independent Engineer's Payment for the month of November 2022-reg	
2	06.01.2023	PSCHPL/SCP/NHAI/2023/1322	Local public obstruction to carry out the PGR works at 76+400 RHS-Reg	
3	07.01.2023	PSCHPL/SCP/NHAI/2023/1324	Furnishing details documents for submission to the commissioner GST & central excise-trichy-reg	
4	07.01.2023	PSCHPL/SCP/NHAI/2023/1325	Undertaking of Concessionaire regarding cumulative claim of 1st and 2nd biannual O&M payments	
5	10.01.2023	PSCHPL/SCP/NHAI/2023/1328	Insufficient width of ROW in handed over land for construction of service road, minor & major intersections, bus bay & shelters- Work hindered-reg	
6	12.01.2023	PSCHPL/SCP/NHAI/2023/1332	Recording of Drone video for the Month of December 2022-reg	
7	18.01.2023	PSCHPL/SCP/NHAI/2023/1334	Release of first year Biannual O&M payment as per Cl.23.7 of CA and provisions of SA-reg	
8	20.10.2023	PSCHPL/SCP/NHAI/2023/1337	Submission of GST payment Auditor certificate return and request to release the withheld GST amount (RA Bill-01)	
9	23.01.2023	PSCHPL/SCP/NHAI/2023/1340	Shifting of electrical transformer at Km. 74+700 (RHS-Maravarayanallur) -reg	
10	24.01.2023	PSCHPL/SCP/NHAI/2023/1342	Compliance report for Review and comments of IE on Concessionaire's Monthly Progress Report for the month of Dec'2022-reg	
11	24.01.2023	PSCHPL/SCP/NHAI/2023/1343	Compliance report for-Review and comments of IE on Concessioanire's Monthly Status & Management (O&M) report for the month of Dec 2022-reg	
12	24.01.2023	PSCHPL/SCP/NHAI/2023/1344	Stealing of street lights in Project Highway	
13	25.01.2023	PSCHPL/HO/SCP/PIU/003/2023	Submission of Extension Guarantee Bond to 1st & 2nd Mobilization Advanced Bank Guarantee.	
14	28.01.2023	PSCHPL/SCP/NHAI/2023/1346	Concessionaire request to withdraw the consideration of freezing of indices in Annuity payments-Reg	
15	30.01.2023	PSCHPL/SCP/NHAI/2023/1349	Request for release of withheld amounts in the IPC's against damages-reg	

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

Sr. No.	Date	Letter No	Subject	Remarks
1	02.01.2023	NHAI/PIU/Thanjavur/11025/09/2018/020	Shifting of water supply pipeline in Nadeeswaramangalam village panchayat-Estimate received from BDO, srimushnam panchayat of cuddalore district-Approval of competent authority-communicated-reg	
2	03.01.2022	NHAI/PIU/Thanj/11025/03/2018/029	Manmalai Villagers-Request to provide service road-reg	
3	06.01.2023	NHAI/19011/04(NRSW)/2018/RO Madurai/025	Observance of National Road safety week during 11th to 17th January 2023 under Swachhata Pakhwada-reg	
4	06.01.2023	NHAI/PIU/Thanj/11021/31/2009/079	Request for permission to lay underground OFC on Vikravandi-Thanjavur section NH 45C along the road -Remarks called for-reg	
5	07.01.2023	NHAI/PIU/Thanj/11099/05/2009/082	Application under RTI by Smt.Elen P.Kurian-Report called for-reg	
6	09.01.2023	NHAI/PIU/Thanjavur/11025/09/2018/094	Shifting of construction of weir at Km 103+990 near kuzhavadaian periya eri in vembukudi panchayat-JE Panchayat union, T.Palur, Approval requested-reg	
7	09.01.2023	NHAI/PIU/Thanj/11015/51/2011/095	Activities to be carried out before and during Road safety week-reg	
8	10.01.2023	NHAI/PIU/Thanj/11025/11/2018/113	Extension of Bank guarantee submitted for mobilisation advance 1st and 2nd installment-reg	
9	10.01.2023	NHAI/PIU/Thanj/11025/03/2018/118	Kumarakudi village- Construction of service road at ground level-report called for-reg	
10	12.01.2023	NHAI/11015/139/2017/RO Chennai/90	Grievance registered on CPGRAMS Portal No. MORTH E 2022 17559 dated 18.11.2022 & MORTH E 2022 17699 dated 21.11.2022 forwarded-reg	
11	12.01.2023	NHAI/11015/139/2017/RO Chennai/94	Grievance registered on CPGRAMS Portal No. MORTH E 2022 17634 dated 20.11.2022 & MORTH E 2022 19145 dated 24.12.2022-forwarded-reg	
12	12.01.2023	NHAI/11015/139/2017/RO Chennai/96	Grievance registered on CPGRAMS Portal no. MORTH E 2022 18429 dated 04.12.2022-forwarded-reg	
13	18.01.2023	NHAI/19011/05/05/2018/RO Madurai/84	Expedite the process of rectification of pending black spots/Accident spots-reg	
14	19.01.2023	NHAI/PIU/Thanj/11025/33/2020/182	Request of local villagers to provide an elevated section by using pillars instead standard highway construction in veeramudiyatham-Req for resolution	
15	19.01.2023	NHAI/PIU/Thanj/11099/05/2009/187	Information sought for under Right to Information Act 2005 by Sh.Sanjay Pal-reply sent-reg	
16	21.01.2023	NHAI/PIU/Thanj/11025/11/2018/200	IPC 03 of PMS 04 works executed upto 28.10.2022- Payment Intimation-reg	

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

Sr. No.	Date	Letter No	Subject	Remarks
1	02.01.2023	PSCHPL/SCP/IE/2023/1315	Submission of IPC 04 of 4th PMS against monthly executed work as per NHAI policy guidelines dated 22.06.2020-New	
2	05.01.2023	PSCHPL/SCP/IE/2023/1318	Design & Drawing for Bridge Load test of VUP at Km 97+225-Reply -reg	
3	06.01.2023	PSCHPL/SCP/IE/2023/1320	Submission of monthly progress report for the month of December-2022-reg	
4	06.01.2023	PSCHPL/SCP/IE/2023/1321	Submission of Monthly Status & Management (O&M) report for the month of December 2022-reg	
5	07.01.2023	PSCHPL/SCP/IE/2023/1323	Closure of NCR 15-reg	
6	10.01.2023	PSCHPL/SCP/IE/2023/1329	Authorization for test check and signing RFI's & Test reports-Reg	
7	12.01.2023	PSCHPL/SCP/IE/2023/1331	Comprehensive PCOD-2 proposal-Conducting of necessary tests as per clause 14.1 and as per Schedule I of concession Agreement-reg	
8	20.01.2023	PSCHPL/SCP/IE/2023/1336	Submission of Design & drawing for bridge load test for superstructure at VUP located at Ch. 106+320-reg	
9	30.01.2023	PSCHPL/SCP/IE/2023/1350	Design & Drawing for Bridge load test of VUP at Km. 106+320-Reply-reg	

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

Sr. No.	Date	Letter No	Subject	Remarks
1	02.01.2023	TES/IE/SCP/NHAI/2022/507	Request for planting of Nerium and thetevia species in median plantation-reg	
2	04.01.2023	TES/IE/SC/PIL/2023/827	Design & Drawing for Bridge Load test of VUP at Km 97+225-reg	
3	05.01.2023	TES/IE/SC/PIL/2023/828	Proposal of Borrow area no-44-reg	
4	05.01.2023	TES/IE/SCP/NHAI/2023/510	Public representation for service road to Manmalai village on NH45C-reg	
5	05.01.2023	TES/IE/SCP/NHAI/2023/508	Construction of weir at Kuzhavadaian Periya Eri in Vembukudi Panchayat- IE Remarks-reg	
6	05.01.2023	TES/IE/SCP/NHAI/2023/509	Construction of Bus shelter at Muthuservamadam panchayat on NH45C-IE remarks-reg	
7	07.01.2023	TES/IE/SCP/NHAI/2023/512	IE Monthly progress report (MPR) for the month of December 2022-reg	
8	09.01.2023	TES/IE/SCP/NHAI/2023/514	Review and comments of IE on concessioanaire monthly status & Management (O&M) report for the month of Dec 2022-reg	
9	09.01.2023	TES/IE/SCP/NHAI/2023/513	Review and comments of IE on concessioanaire monthly progress report for the month of Dec 2022-reg	
10	10.01.2023	TES/IE/SC/PIL/2023/829	NCR No.15 mismatching of FRL with approved plan and profile-closed-reg	
11	11.01.2023	TES/IE/SC/PIL/2023/831	Site review meeting-reg	
12	11.01.2023	TES/IE/SC/PIL/2023/830	Monthly site inspection-reg	
13	11.01.2023	TES/IE/SCP/NHAI/2023/516	Submission of IPC 04 of Payment milestone IV-Recommendation for payment-reg	
14	13.01.2023	TES/IE/SCP/NHAI/2023/517	Public representation on the service road level in Nangudi village of NH 45C-reg	
15	14.01.2023	TES/IE/SCP/NHAI/2023/518	PCOD-2 Intimation on tests as per cl 14.1 and schedule I of concession agreement-reg	
16	14.01.2023	TES/IE/SC/PIL/2023/833	Submission of Revised design & drawings of 5 nos of Box culverts-reg	
17	16.01.2023	TES/IE/SCP/NHAI/2023/519	IE O&M monthly status report for the month of December 2022-reg	
18	20.01.2023	TES/IE/SCP/NHAI/2023/521	IE Inspection report for the month of December 2022-reg	
19	20.01.2023	TES/IE/SCP/NHAI/2023/522	Request for permission to lay underground water supply pipeline under combined water supply scheme-Report after site inspection-reg	
20	23.01.2023	TES/IE/SC/PIL/2023/835	Site inspection report-reg	
21	24.01.2023	TES/IE/SCP/NHAI/2023/524	Drainage system adequacy of drain work in the ongoing project and finalization of drainage plan for balance length-Justification-reg	
22	25.01.2023	TES/IE/SC/PIL/2023/836	Design & Drawing for bridge load test of VUP at Km. 106+320-reg	

16. Progress Photographs

Sl. No	Description	Location	Side	Remarks
1.	Embankment layer rolling work in progress	106+350	BHS	Bypass - RE Wall
2.	Embankment layer rolling work in progress	110+250	BHS	Existing Road - RE Wall



Sl. No	Description	Location	Side	Remarks
3.	CTSB Laying Work in progress	77+800	RSR	Existing Road



Sl. No	Description	Location	Side	Remarks
4.	WMM Laying Work in progress	77+800	RSR	Existing Road
5.	WMM Laying Work in progress	86+150	LSR	Existing Road



Sl. No	Description	Location	Side	Remarks
6.	DBM Laying Work in progress	86+150	LSR	Existing road
7.	BC Laying work in progress	104+004	LHS	Existing Road



Sl. No	Description	Location	Side	Remarks
8.	R.C.C. Girder Launching Work in progress	111+235	LHS	VUP
9.	Foundation Work in progress	109+365	LHS	Minor Bridge



Sl. No	Description	Location	Side	Remarks
10.	Box Segment launching Work in Progress between Span P13 - P14	107+400	LHS	Major Bridge

