

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**  
**JUNE 2023**

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## Executive Summary

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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

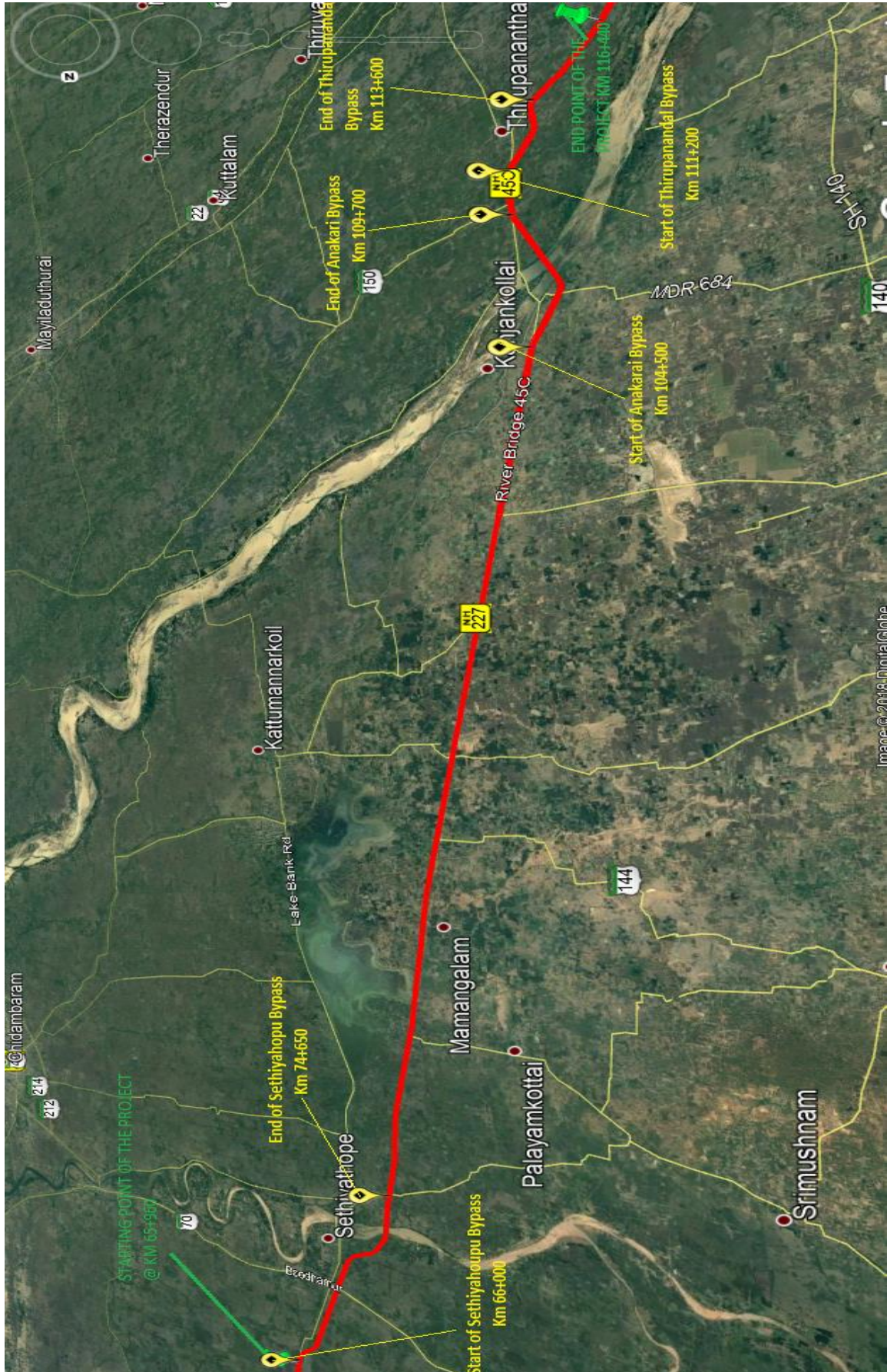
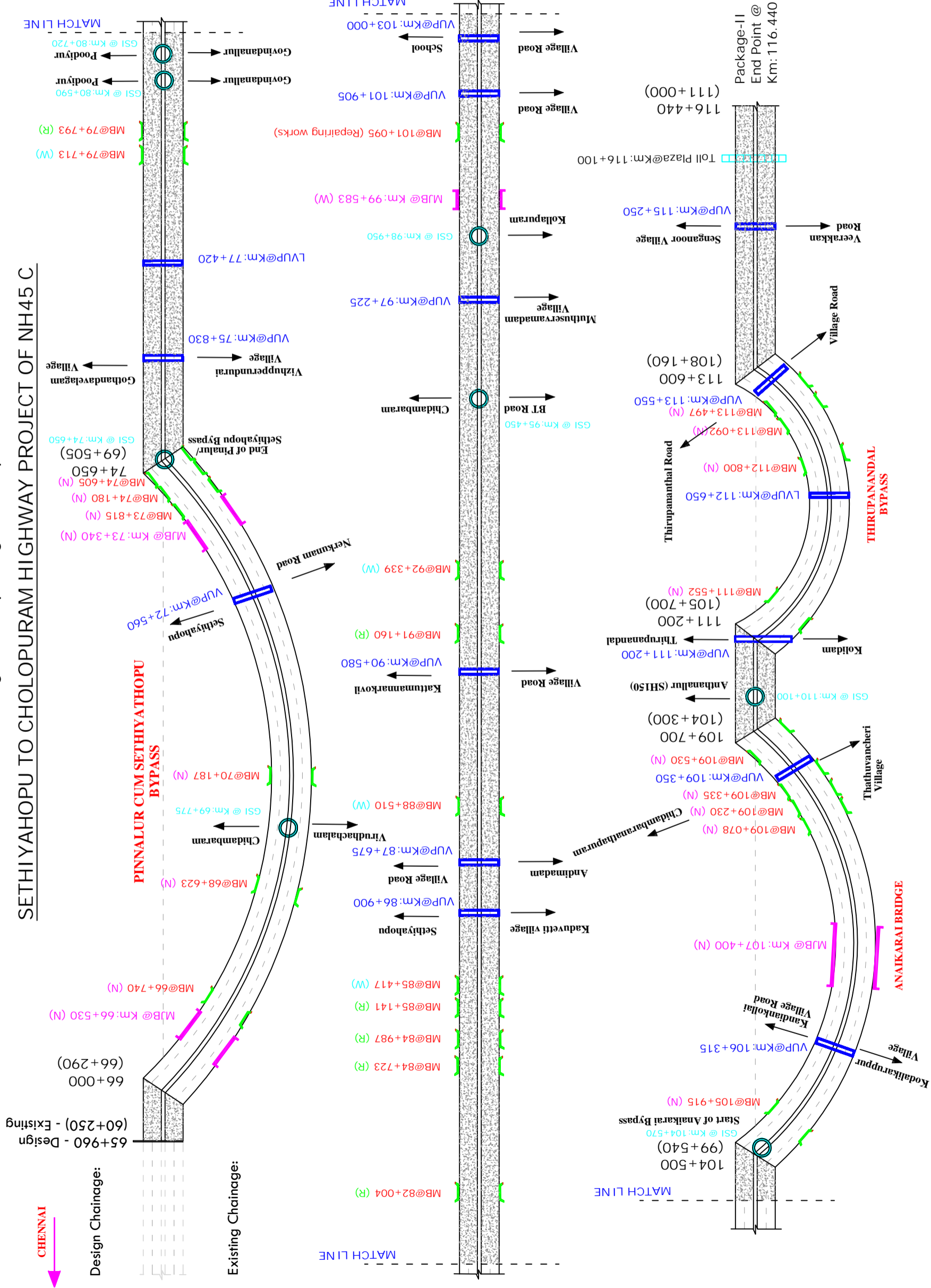




Figure 2: Project Alignment Map  
 SETHIYAHOPU TO CHOLOPURAM HIGHWAY PROJECT OF NH45 C



THANJAVUR

CHENNAI

MATCH LINE

MATCH LINE

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

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

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

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

Anaiakarai Bypass  
 Km: 104+500 to 109+700

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

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

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

Thirupananthal Bypass  
 Km: 111+200 to 113+600

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

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

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

LEGEND:

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

Salient Features of Project:

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

Drawing Title

Strip Plan - Sethiyahopu to Cholapuram Highway Project

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

**Table - 1.1: Details of Project Alignments**

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

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

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

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



## 1. Background and Project Details

### 1.1. Project Overview

<b>Name of Work</b>	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.
<b>Name of Employer</b>	National Highways Authority of India (NHAI) G-5 & 6, Sector-10, Dwarka, New Delhi -110075
<b>Name of Concessionaire</b>	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
<b>Independent Engineer</b>	M/s. Theme Engineering Services Pvt. Ltd, Plot No. 2, Annai Anjugam Nagar, Ullur, Chettimandapam, Kumbakonam – 612001.
<b>EPC Contractor</b>	M/s. Patel Infrastructure Limited, Patel House, Beside Prakruti Resort, Channi Road, Vadodara Gujarat– 391740, Tel: +91-265 277 6678 Fax: +91-265 277 7878
<b>Design Consultant</b>	CTL Global Services Pvt. Ltd. 101, 1st Floor, Krishna Chambers, HAL, Airport Road, Bangalore-560017
<b>Senior Lender</b>	Punjab National Bank, Large Corporate Branch, Neelkamal Building, Opp. Sales India, Ashram Road, Ahmedabad - 380009
<b>Lenders Independent Engineers</b>	Sharul Techno-Financial Consultancy Services Pvt. Ltd., 403, Aspire Tower 5, Amanora Park Town, Hadapsar, Pune - 411028.
<b>Length of Road (Design Length)</b>	50.480 Kms
<b>Total Bid Project Cost</b>	Rs. 1461.00 Crores (as per concession agreement)
<b>Date of Concession Agreement</b>	November 9, 2017
<b>Concession Period</b>	17 Years (Construction Period 2 Years from Appointed date, Operation period 15 years from COD)
<b>Appointed Date</b>	16.08.2018
<b>Construction Period</b>	2 years from Appointed date
<b>Completion Date</b>	15.08.2020
<b>Date of Settlement Agreement No. 01</b>	04.03.2021
<b>Date of Settlement Agreement No. 02</b>	20.03.2023
<b>Maintenance Period</b>	15 years from COD

## 1.2. Salient Project Features

Besides the construction of new carriageways and widening & 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	Dates as per Settlement Agreement signed on dated 04.03.2021	Revised target dates as per Settlement Agreement signed on dated 20.03.2023
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 <sup>th</sup> day from the Appointed Date.	18 <sup>th</sup> March 2019	<ul style="list-style-type: none"> <li>➤ 31<sup>st</sup> May'2021- Total 28.345 Km. four lane to be completed for PCOD-I.</li> <li>➤ 30<sup>th</sup> Nov'2021- Total 35.940 Km. four lane to be completed for PCOD-II.</li> <li>➤ 31<sup>st</sup> July'2022- Total 50.480 Km. four lane to be completed for final completion.</li> </ul>	<ul style="list-style-type: none"> <li>➤ 10<sup>th</sup> December'2021- Total 28.345 Km. four lane to be completed for PCC-I .</li> <li>➤ 28<sup>th</sup> February'2023- Total 35.240 Km. four lane to be completed for PCC-II .</li> <li>➤ 10<sup>th</sup> August'2023- Total 40.140 Km. four lane to be completed for PCC-III.</li> <li>➤ 30<sup>th</sup> June'2024- Total 50.480 Km four lane to be completed for final completion.</li> </ul>
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 <sup>th</sup> day from the Appointed Date.	16 <sup>th</sup> July 2019		
Mile Stone -III	Concessionaire shall expended not less than 75 % of the Total capital cost and shall have commenced construction of the project and achieved 75% of physical progress on 584 <sup>th</sup> day from the Appointed Date.	22 <sup>nd</sup> March 2020		
Sched uled Comp letion	Concessionaire shall have completed Project on 730 <sup>th</sup> day from the Appointed Date.	15 <sup>th</sup> August 2020		

Note: The Settlement Agreement was signed between Concessionaire and Authority on dated 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 1<sup>st</sup> 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 2<sup>nd</sup> 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.

In line of the recommendation given by PIU, NHAI regarding total comprehensive descope proposal in 9.640 Km length & additional EOT for 270 days, Settlement Agreement has been signed between NHAI (Authority) & PSCHPL (Concessionaire) on dated 20.03.2023 and the following has been finalized between NHAI (Authority) & PSCHPL (Concessionaire):-

1. The cumulative length for the completion of PCC-2 has been revised from 35.940 Km to 35.240 Km due to local public not allowing the concessionaire to execute the construction activities & demanding for the construction of additional scope of work and hence the same need to be considered under the proposal of change of scope.
2. The cumulative length for the completion of PCC-3 has been revised from 40.840 Km (duly considering the descope proposal of 9.640 Km length) to 40.140 Km due to local public not allowing the concessionaire to execute the construction activities & demanding for the construction of additional scope of work and hence the same need to be considered under the proposal of change of scope.
3. It was acknowledged by both the parties i.e. NHAI (Authority) & PSCHPL (Concessionaire) that 100% encumbrance free land is now available for the completion of entire project. Hence, from the project completion point of view, the descope length (i.e. 9.64 Km) & the length affected due to additional change of scope (i.e. 0.70 Km) has been considered for PCC-4 and the target date finalized for the completion of PCC-4 (i.e. 9.64 Km + 0.70 Km = 10.34 Km) is 30.06.2024.

Status of Progress of Work as per Settlement Agreement signed on Dated 20.03.2023:-

Sr. No.	Description	Target length & Date	Tentative BPC	Achieved as on date	Remarks
1	PCC-01	Completion of 28.345 Kms by 10.12.2021	803.60 Cr.	74.99%	Presently, Work is in Progress in the PCC-03 Stretches by concessionaire.
2	PCC-02	Completion of 35.240 Kms by 28.02.2023	1045.91 Cr.		
3	PCC-03	Completion of 40.140 Kms by 10.08.2023	1189.40 Cr.*		
4	PCC-04	Completion of 50.480 Kms by 30.06.2024	1461.00 Cr.*		
*NOTE:- Approximate amount mentioned for PCC-03 & PCC-04. The revised BPC would be derived for PCC-03 & PCC-04 and accordingly the subsequent payment would be paid to the concessionaire.					

1. IE vide letter no. 1144 dated 02.06.2022 has issued the Provisional Completion Certificate-1 (PCC-01) after the completion of 28.345 Kms w.e.f. 10.12.2021.

2. IE vide letter no. 1434 dated 16.06.2023 has issued the Provisional Completion Certificate-2 (PCC-02) after the completion of 35.240 Kms w.e.f. 18.02.2023.

#### 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 NHAH 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 NHAH 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 NHAH 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 NHAH 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 NHAH 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 NHAH 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 NHAH 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 NHAH 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 NHAH 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 NHAH 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 NHAH 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 NHAH 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.	02.03.2023
IPC No. 05 of Mile Stone-IV (as per NHAI Policy Guidelines/Atmnirbhar Bharat)	On Achievement of 70.071% of physical progress	2.56 Crs.	2.43 Crs.	29.03.2023
IPC No. 06 of Mile Stone-IV (as per NHAI Policy Guidelines/Atmnirbhar Bharat)	On Achievement of 71.347% of physical progress	7.46 Crs.	7.08 Crs.	28.04.2023
Payment Mile Stone-IV & IPC No. 01 of Mile Stone-V (as per NHAI Policy Guidelines/Atmnirbhar Bharat)	On Achievement of 73.410% of physical progress	12.06 Crs.	11.44 Crs.	Under review with Authority.

### 1.5. Permits & Approvals

Sr. No.	Details	Authority	Current Status	Remarks
1	Extraction of Boulders from Quarries	Dist. Mining Officer	Obtained	
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	
8	Electric Poles Shifting	Tamil Nadu Electricity Board	Obtained	Work is in Progress
9	Water Pipes Shifting	Tamilnadu Water Supply and Drainage Board	Obtained	Work is 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
<b>Full Right of Way (full width)</b>				
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	Work Status
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	Work Completed
6	92.250	Both Hand Side	Work Completed
7	93.150	Both Hand Side	
8	94.250	Both Hand Side	
9	97.850	Both Hand Side	Work Completed

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The status of compensation disbursed for land and structures are given below in the tabular form:-

Table 2.1-2: Compensation disbursement for land					
SL. No.	Name of the District	Total No. of Land cases	Amount paid (in Nos.)	Balance to be Paid (in Nos.)	Remarks
1	Cuddalore	710	710	0	
2	Ariyalur	355	355	0	
3	Thanjavur	102	102	0	
	<b>Total in Nos.</b>	<b>1167</b>	<b>1167</b>	<b>0</b>	
	<b>Total in %</b>		<b>100%</b>	<b>0%</b>	

Table 2.1-3 - Compensation disbursement for Structures					
Sl. No.	Name of the District	Total No. of structures	Amount paid (in Nos.)	Balance to be Paid (in Nos.)	Remarks
1	Cuddalore	383	383	0	
2	Ariyalur	461	461	0	
3	Thanjavur	148	148	0	
	<b>Total in Nos.</b>	<b>992</b>	<b>992</b>	<b>0</b>	
	<b>Total in %</b>		<b>100%</b>	<b>0%</b>	

## 2.2. Removal of Religious Structures

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

Table 2.2-1: Status of Removal of Religious structures				
Sl No.	Name of the District	Total No. of structures	Removed as on Date (in Nos.)	Balance (in Nos.)
1	Cuddalore	10	10	0
2	Ariyalur	10	10	0
3	Thanjavur	2	2	0
	<b>Total in Nos.</b>	<b>22</b>	<b>22</b>	<b>0</b>

## 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 includes water supply pipe line, hand pumps, overhead water tanks, 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 is 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 is 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

Sl. No.	Authority	Description	Unit	Total Length/ Nos.	Work done	Balance work to be done	Remarks
1	BDO & EE, TWAD	Water Supply Pipe Line	Kms.	72.695	32.635	40.060	Work is 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	6.13	0.70	
5	TNEB	Erection of HT Tower at Ch. 73+470	Nos.	2	2	0	
6	CMWSSB	Veeranam Pipeline	Nos.	1	0	1	Work is in progress
7	PWD	Weir located at Ch. 103+990	Nos.	1	1	0	

## 2.4. Tree felling

Table 2.4-1: Status of Tree felling

Sl. No.	Name of the District	Chainages			Effectuated Length in Kms.	Completed as on Date	Balance as on Date	Balance no. of Trees	Remarks
		From	To	Length in Km					
1	Cuddalore	65+960	86+440	20.48	6.535	6.535	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	
<b>Total</b>				<b>50.480</b>	<b>17.435</b>	<b>17.435</b>	<b>0</b>	<b>0</b>	

## 3. Progress Briefing – Contractor Activities

## 3.1. Pre-construction Activities

## Detailed Design &amp; Drawings

The Plan and Profile, as well as the Pavement Design for the entire 50.480 km project length has been completed, reviewed and accepted 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 Highway Design and Drawings as per Concession Agreement

Sr. No.	Description	Unit	Total Scope as per Sch. B	Design & Drawing Submitted	Design & 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	-	-
7	Slip/Service Roads	Km	26.595	26.595	26.595

Table 3.1-2 : Status of Structure Design and Drawings as per Concession Agreement

Sr. No.	Description	Unit	Total Scope As per Sch. B	Design & Drawing Submitted	Design & 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

Table 3.1-3 : Status of Structure Design and Drawings additionally included under Positive Change of Scope due to demand of local public

Sr. No.	Structure Location	Type of Structure	Unit	Design & Drawing Submitted	Design & Drawing Approved
1	66+185	LVUP	Nos.	-	-
2	71+900	Box Culvert	Nos.	-	-
3	72+250	Minor Bridge	Nos.	-	-
4	72+780	Minor Bridge	Nos.	01	01
5	72+820	Minor Bridge	Nos.	01	01
6	72+860	Minor Bridge	Nos.	01	01
7	73+040	Minor Bridge	Nos.	01	01
8	80+300	PUP	Nos.	-	-
9	81+900	Box Culvert	Nos.	-	-
10	95+200	PUP	Nos.	01	01
11	95+700	PUP	Nos.	01	01
12	105+220	PUP	Nos.	01	01
13	106+900	PUP	Nos.	-	-
14	106+915	Box Culvert	Nos.	-	-

## 4. Physical Progress of Work

### 4.1. Physical Progress of Work:

The Progress of the Major works carried out at the Site till the month of June 2023 is as follows:-

#### CUMMULATIVE STATEMENT

##### For Main Carriageway

Sr. No.	Description	Total Length of Project (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	<b>Clearing and Grubbing</b>							
	LHS	50.480	45.550	2.685	48.235	0.000	2.245	95.55%
	RHS	50.480	45.040	2.685	47.725	0.000	2.755	94.54%
2	<b>Embankment Top</b>							
	LHS	50.480	38.545	1.160	39.705	4.265	10.775	78.65%
	RHS	50.480	38.310	1.305	39.615	4.055	10.865	78.48%
3	<b>Subgrade Top</b>							
	LHS	50.480	38.170	1.430	39.600	0.105	10.880	78.45%
	RHS	50.480	38.180	1.435	39.615	0.000	10.865	78.48%
4	<b>GSB/ Cement Treated Sub Base</b>							
	LHS	50.480	38.140	1.000	39.140	0.000	11.340	77.54%
	RHS	50.480	38.140	1.020	39.160	0.000	11.320	77.58%
5	<b>Wet Mix Macadam</b>							
	LHS	50.480	38.140	1.000	39.140	0.000	11.340	77.54%
	RHS	50.480	38.140	1.000	39.140	0.000	11.340	77.54%
6	<b>Dense Bituminous Macadam</b>							
	LHS	50.480	38.140	1.000	39.140	0.000	11.340	77.54%
	RHS	50.480	38.140	1.000	39.140	0.000	11.340	77.54%
7	<b>Bituminous Concrete</b>							
	LHS	50.480	36.655	2.455	39.110	0.000	11.370	77.48%
	RHS	50.480	36.655	2.435	39.090	0.000	11.390	77.44%

**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	39.970	2.030	42.000	0.000	11.190	78.96%
2	Sub grade	53.190	39.970	1.600	41.570	0.430	11.620	78.15%
3	GSB/ Cement Treated Base	53.190	39.290	1.850	41.140	0.000	12.050	77.35%
4	Wet Mix Macadam	53.190	38.390	2.250	40.640	0.000	12.550	76.41%
5	Dense Bituminous Macadam	53.190	36.610	2.920	39.530	0.000	13.660	74.32%
6	Bituminous Concrete	53.190	29.105	0.000	29.105	0.000	24.085	54.72%

**Structure Work**

Sr. No.	Type of Structure	Total No. of Structures	Nos. of Structures			Remarks
			Completed	Work in Progress	Balance to be taken up	
1	Culvert	60	52.25	0.75	7.00	
2	Light Vehicular Underpass	2	1	1	0	
3	Vehicular Underpass	13	11.50	1.00	0.50	Balance 0.5 No. has been included under Negative Change of Scope.
4	Minor Bridges	25	25.00	0	0	
5	Major Bridge	4	2.00	2.00	0	
6	Flyover	8	6.00	1.00	1.00	Balance 1.00 No. has been included under Negative Change of Scope.

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

Item	Stage for Payment	Unit	Qty.	Weightage in percentage to Contract Price	Completed up to June'2023	Physical Progress (%)	Remarks
Road works including culverts, minor bridges, underpasses, overpasses, approaches to ROB/RUB/ Major Bridges/ Structures (but excluding service roads)	<b>A- Widening and strengthening of existing road</b>						
	(1) Earthwork up to top of the sub-grade	Km	66.96	9.517%	52.250	7.426%	
	(2) Granular work (sub-base, base, shoulders)						
	(a) GSB/ Cement Treated Base	Km	65.52	3.373%	51.590	2.656%	
	(b) WMM/ Cement Treated Base	Km	65.52	4.046%	51.570	3.184%	
	(3) Shoulders	Km	17.65	0.112%	17.190	0.109%	
	(4) Bituminous work	Km					
	(a) DBM	Km	65.52	3.344%	51.570	2.632%	
	(b) BC	Km	65.52	3.023%	51.490	2.376%	
	(5) Rigid Pavement						
	(6) Widening and repair of culverts	Nos	16	0.440%	15.150	0.417%	
	(7) Widening and repair of minor bridges	Nos	4	0.959%	4.000	0.959%	
	<b>B- New realignment/bypass</b>						
	(1) Earthwork up to top of the sub-grade	Km	28.68	6.437%	20.909	4.693%	
	(2) Granular work (sub-base, base, shoulders)						
	(a) GSB/ Cement Treated Base	Km	28.68	1.615%	20.024	1.128%	
	(b) WMM/ Cement Treated Base	Km	28.68	1.436%	20.024	1.003%	
	(3) Shoulders	Km	24.63	0.112%	15.470	0.071%	
	(4) Bituminous work						
	(a) DBM	Km	28.68	1.279%	20.024	0.893%	
	(b) BC	Km	28.68	1.158%	20.024	0.809%	
	(5) Rigid Pavement						
	<b>C- New culverts, minor bridges, underpasses, overpasses on existing road, realignments, bypasses:</b>						
	(1) Culverts	Nos	44	2.070%	37.10	1.745%	
	(2) Minor bridges						
	(a) Foundation	Nos	58	3.953%	58.00	3.953%	



Major Bridge works and ROB/RUB	(b) Substructure	Nos	134	2.623%	134.00	2.623%	
	(c) Superstructure (including crash barrier etc. complete)	Nos	50	1.559%	47.60	1.485%	
	<b>(5) Grade separated structures</b>						
	<b>(a) Underpass (13 VUP, 2 LVUP)</b>						
	(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%	25.00	1.074%	
	<b>(c) Flyover</b>						
	(i) Foundation	Nos	36	2.426%	30.00	2.021%	
	(ii) Substructure	Nos	36	0.470%	29.50	0.385%	
	(iii) Superstructure (including crash barrier etc. complete)	Nos	20	1.244%	16.00	0.996%	
	<b>(d) Foot over Bridge</b>						
	<b>C- New Major Bridges</b>						
	(1) Foundation				0.000%		
	(a) Open Foundation				0.000%		
	(b) Pile Foundation/ Well Foundation						
	(i) Pile Foundation	Nos	84	9.699%	84.00	9.699%	
	(2) Sub-structure	Nos	84	4.576%	84.00	4.576%	
	(3) Super-structure (including crash barriers etc. complete)						
	<b>(i) For MJB at Km. 107+400</b>						
	(a) Casting of Superstructure (Box Segment)	Nos	666	1.450%	666.00	1.450%	
	(b) Erection of Superstructure (Box Segment)	Nos	666	1.050%	384.00	0.605%	
	<b>(i) For other Major Bridges</b>						
	(a) Super-structure (including crash barriers etc. complete)	Nos	37	2.500%	32.875	2.221%	
	<b>D- New rail-road bridges</b>						
	<b>(a) ROB</b>						
	(1) Foundation	Nos			0.000%		
	(2) Sub-structure	Nos			0.000%		
	(3) Super-structure (including crash barriers etc. complete)	Nos			0.000%		
	<b>(b) RUB</b>						
	(1) Foundation	Nos			0.000%		
	(2) Sub-structure	Nos			0.000%		
	(3) Super-structure (including crash barriers etc. complete)	Nos			0.000%		

MPR JUNE 2023

Structures (elevated sections, reinforced earth)	A- Elevated Structures						
	(1) Foundation	Nos	.	0.000%			
	(2) Sub-structure	Nos	.	0.000%			
	(3) Super-structure (including crash barriers etc. complete)	Nos	.	0.000%			
	B- Reinforced earth Wall (includes Approaches of ROB, Underpasses, Overpasses, Flyover etc)		Sqm	196027	7.604%	78850.00	3.059%
Other Works	(i) Service roads/ Slip Roads		Km	53.19	4.690%	29.105	2.566%
	(ii) Toll Plaza		Nos	1	1.821%		
	(iii) Road side drains		Km	28.85	5.429%	12.735	2.397%
	(iv) Road signs, markings, km stones, safety devices, ....						
	(a) Road signs, markings, km stones, ...		Km	100.96	2.558%	71.880	1.821%
	(b) Concrete Crash Barrier/ W-Beam Crash Barrier in Road work						
	(i) Concrete Crash Barrier		Km	26.5	1.179%	9.130	0.406%
	(ii) W-Beam Crash Barrier		Km	10.03	0.788%	4.182	0.329%
	(v) Project facilities						
	(a) Bus Bays		No.	18	0.009%	6.000	0.003%
	(b) Truck Lay-byes		No.		0.000%		
	(c) Rest areas		No.		0.000%		
	(vi) Repairs to bridges/structures		Nos	.			
	(vii) Road side plantation		Km	23.66	0.451%	1.607	0.031%
	(viii) Protection works						
	(a) Boulder pitching on slopes		Km	10.03	0.218%	4.182	0.091%
	(b) Toe/Retaining wall		Km	10.03	0.000%		
	(x) Miscellaneous		Ls.	100%	0.164%	70%	0.115%
	Total				100.000%		74.99%



Four Laning of Sethiyahopu - Cholapuram 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 - Cholapuram Road Projects

Strip Plan for MCW as on 30.06.2023

Legend



Box/Slab Culverts



Minor Bridge



Major Bridge



VUP/LVUP



GS



All other Hindrances towards LA, Payment pending etc.,



Utility Electrical



Utility Water Line



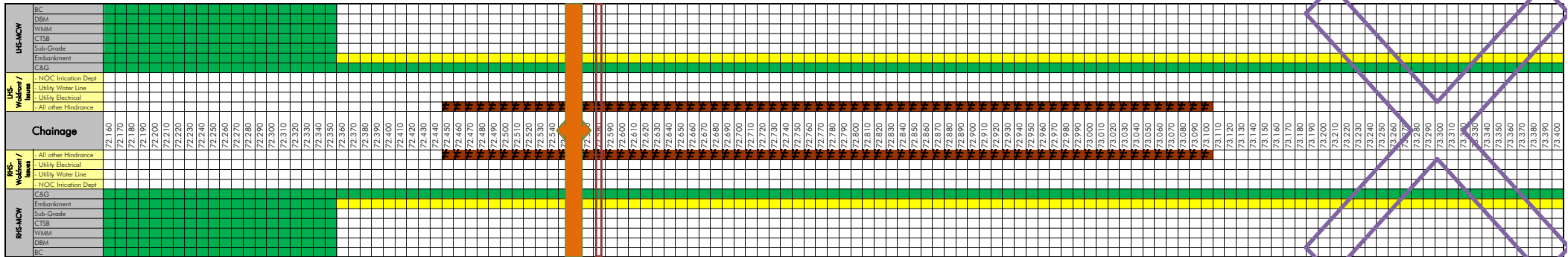
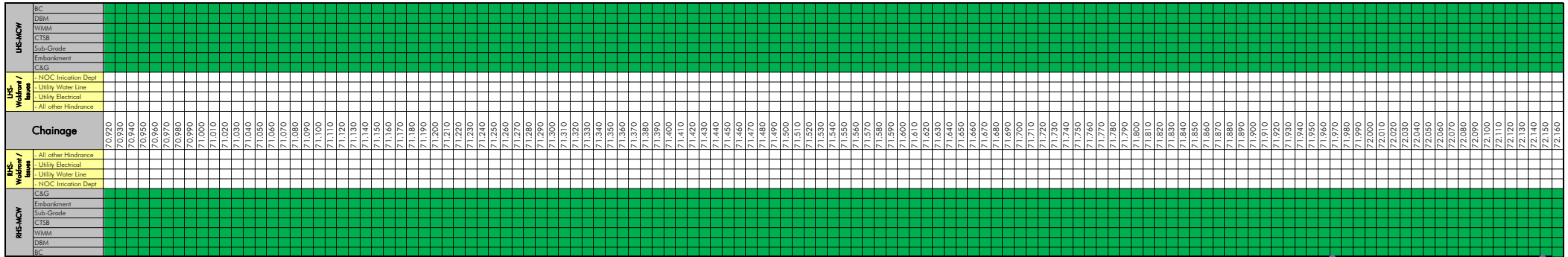
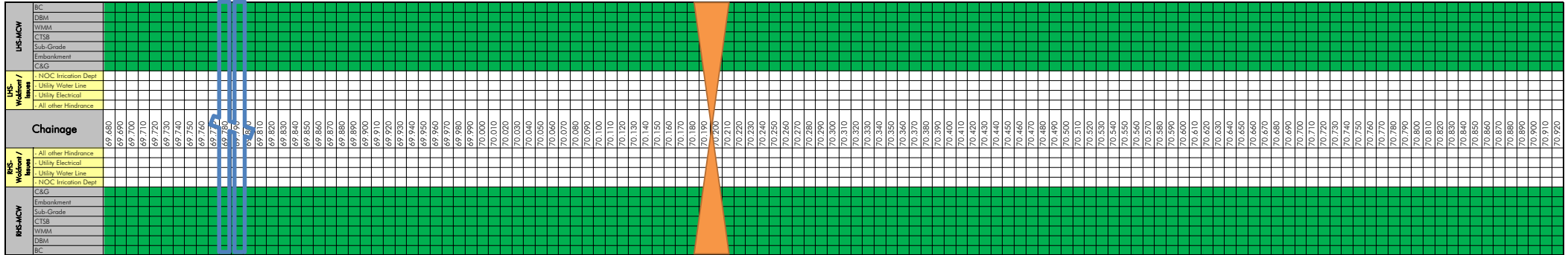
NOC Irrigation Dept



Work Inprogress



Work Completed



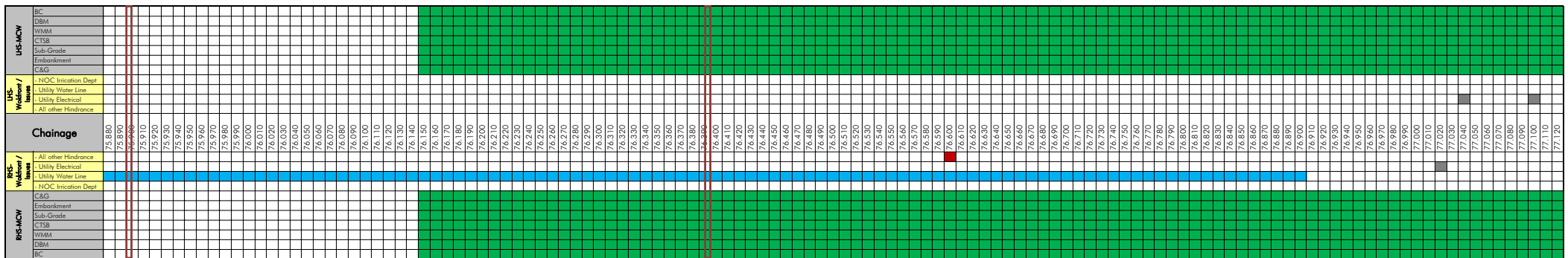
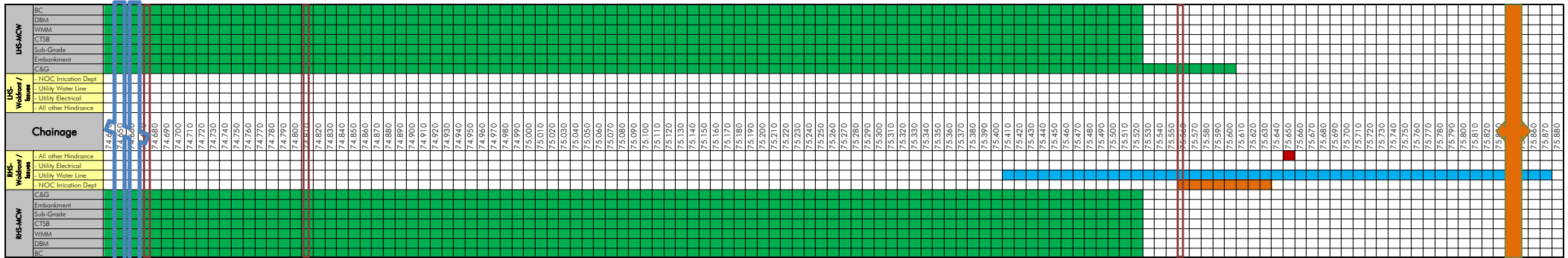
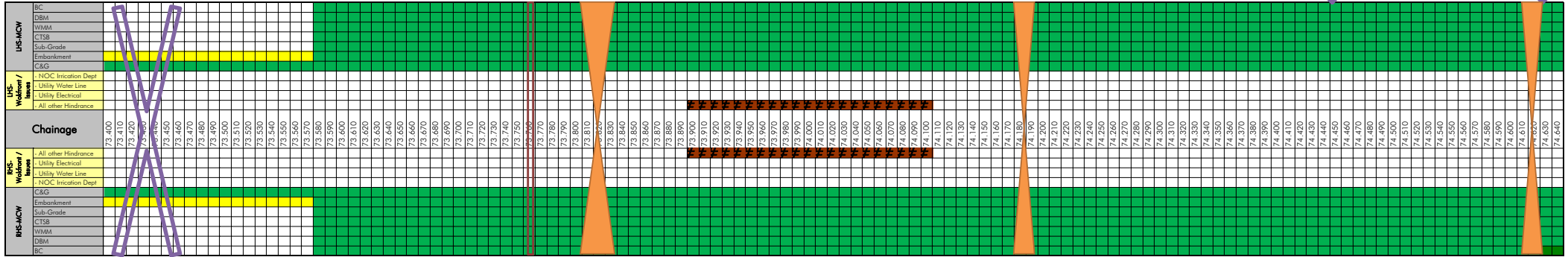
Four Laning of Sethiyahopu - Cholapuram from Km. 65.960 to Km. 116.440 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode.

Sethiyahopu - Cholapuram Road Projects

Strip Plan for MCW as on 30.06.2023

**Legend**

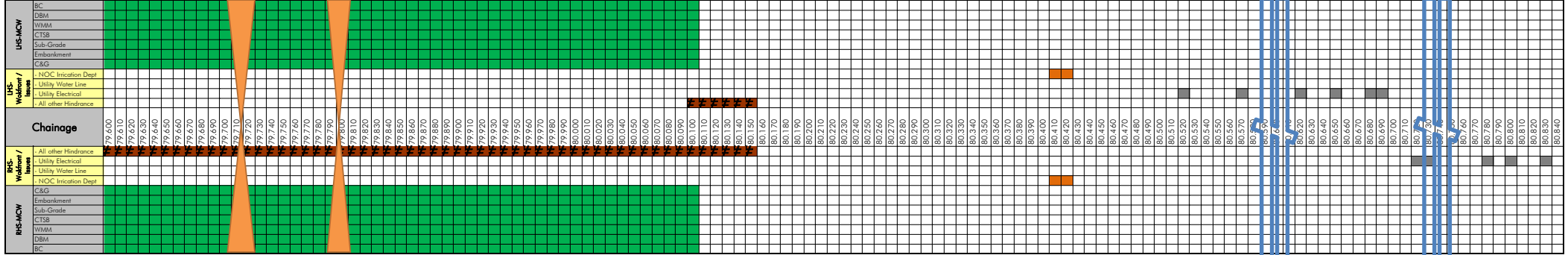
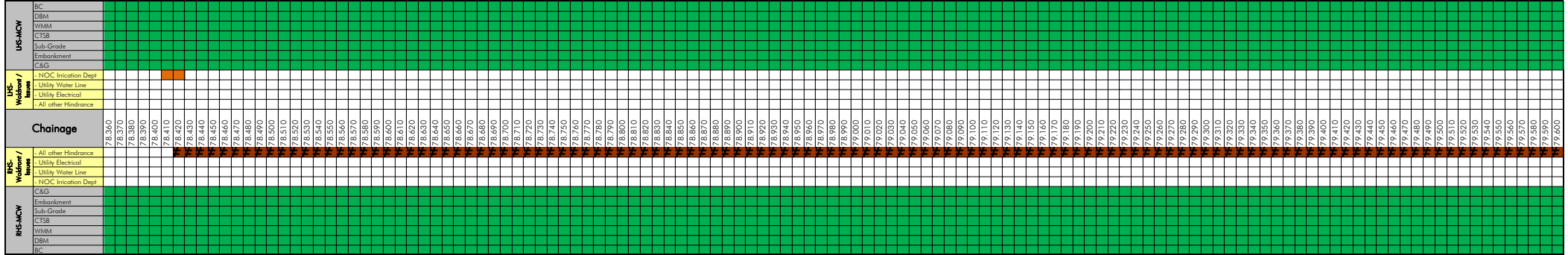
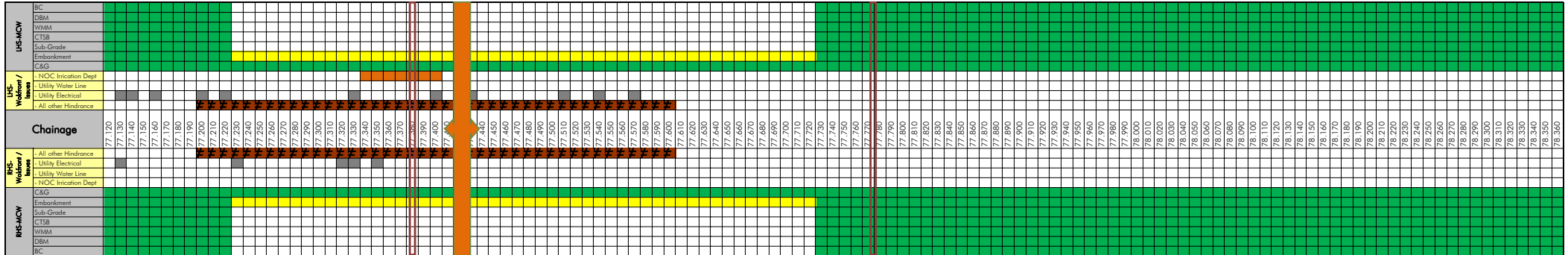
- Box /Slab Culverts
- Minor Bridge
- Major Bridge
- VUP/LVUP
- GS
- All other Hindrances towards LA, Payment pending etc.,
- Utility Electrical
- Utility Water Line
- NOC Irrigation Dept
- Work Inprogress
- Work Completed



Four Laning of Sethiyahupu - Cholapuram 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.

Sethiyahupu - Cholapuram Road Projects

Strip Plan for MCW as on 30.06.2023



Four Laning of Sethiyahopu - Cholapuram 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 - Cholapuram Road Projects

Strip Plan for MCW as on 30.06.2023

Legend



Box/Slab Culverts



Minor Bridge



Major Bridge



VUP/LVUP



GS



All other Hindrances towards LA, Payment pending etc.,



Utility Electrical



Utility Water Line



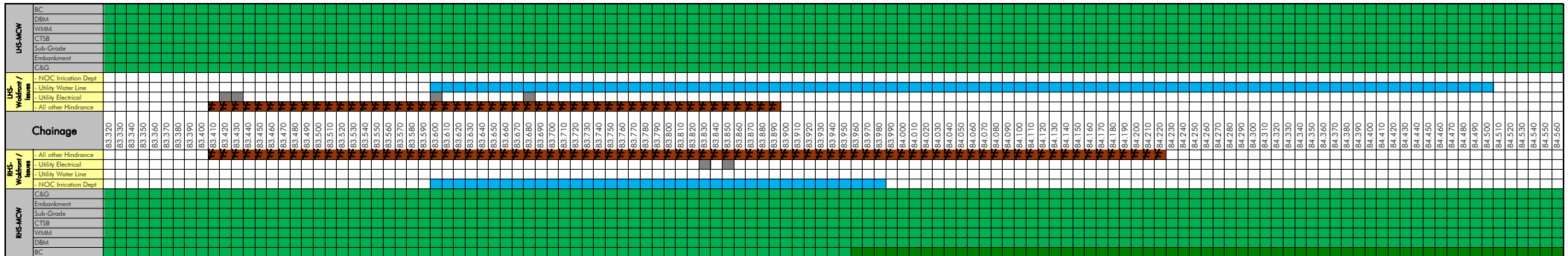
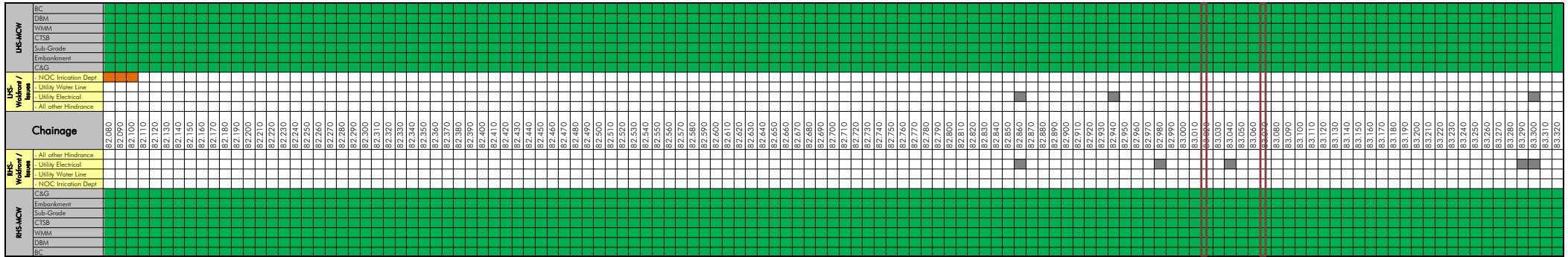
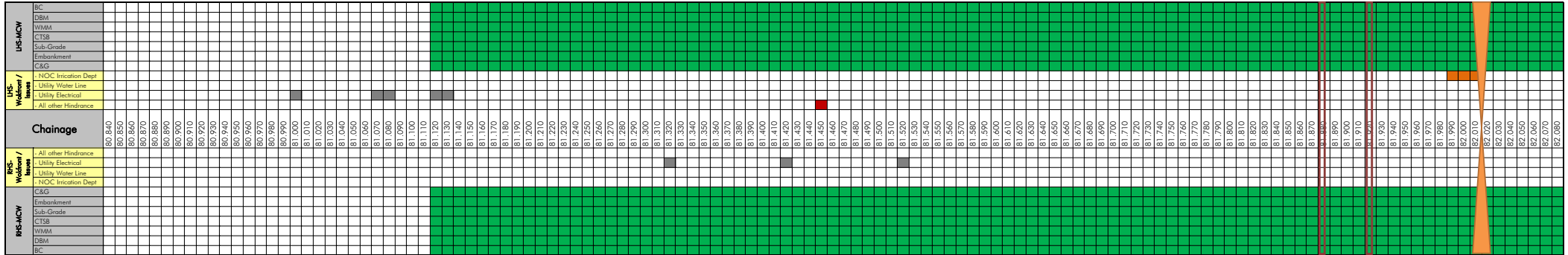
NOC Irrigation Dept



Work Inprogress



Work Completed





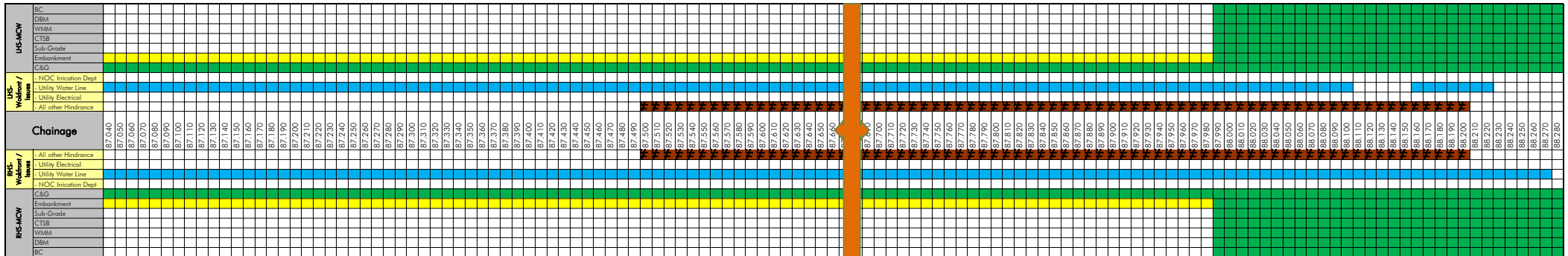
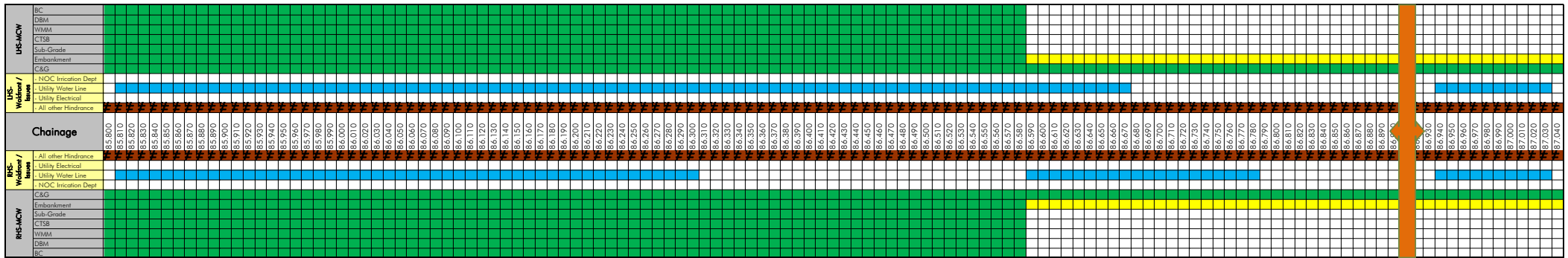
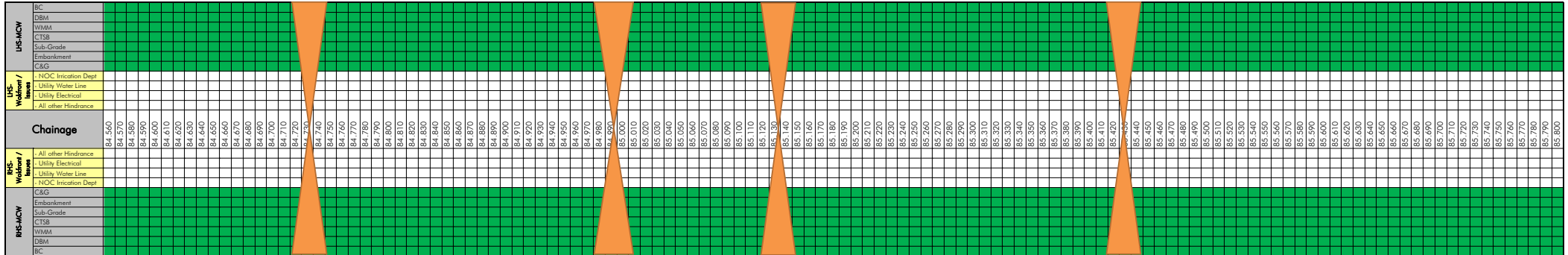
Four Laning of Sethiyahopu - Cholapuram from Km. 65.960 to Km. 116.440 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode.

Sethiyahopu - Cholapuram Road Projects

Strip Plan for MCW as on 30.06.2023

**Legend**

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



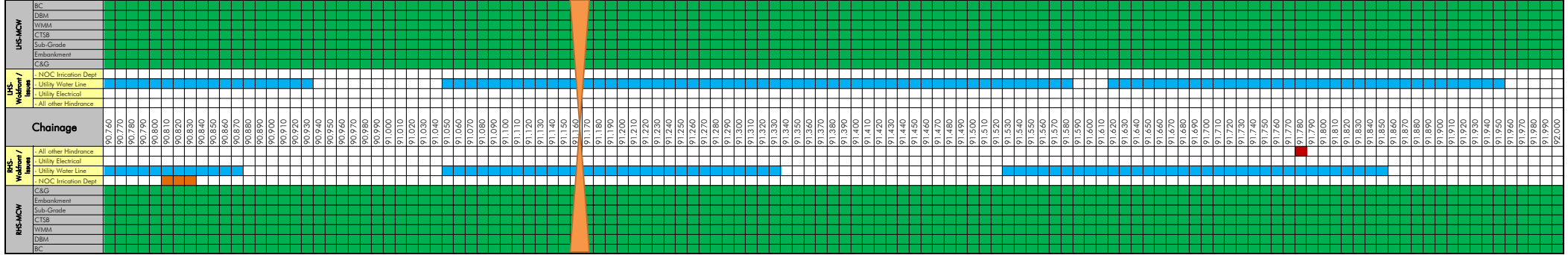
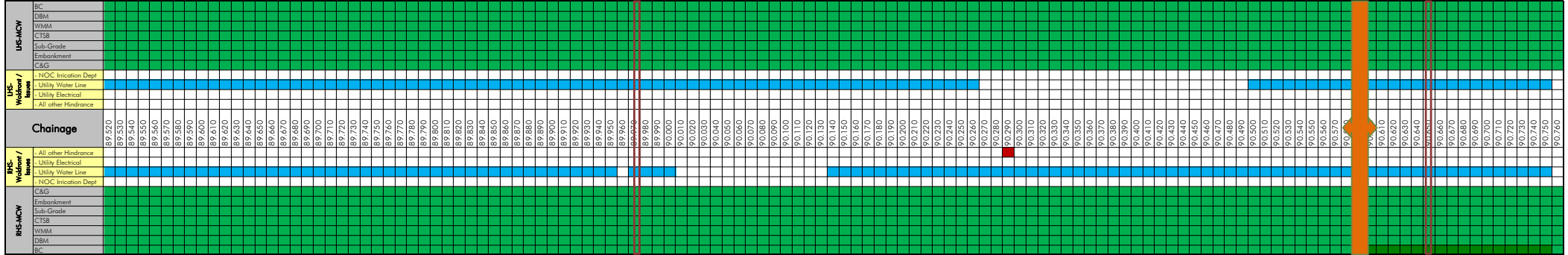
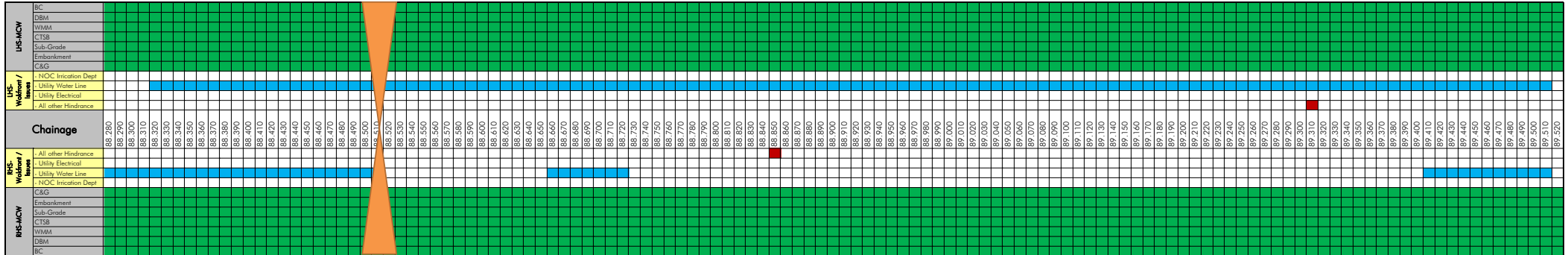
Four Laning of Sethiyahopu - Cholapuram from Km. 65.960 to Km. 116.440 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode.

Sethiyahopu - Cholapuram Road Projects

Strip Plan for MCW as on 30.06.2023

**Legend**

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



Four Laning of Sethiyahupu - Cholapuram 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.

Sethiyahupu - Cholapuram Road Projects

Strip Plan for MCW as on 30.06.2023

Legend



Box/Slab Culverts



Minor Bridge



Major Bridge



VUP/VLVUP



GS

All other Hindrances towards LA, Payment pending etc.,

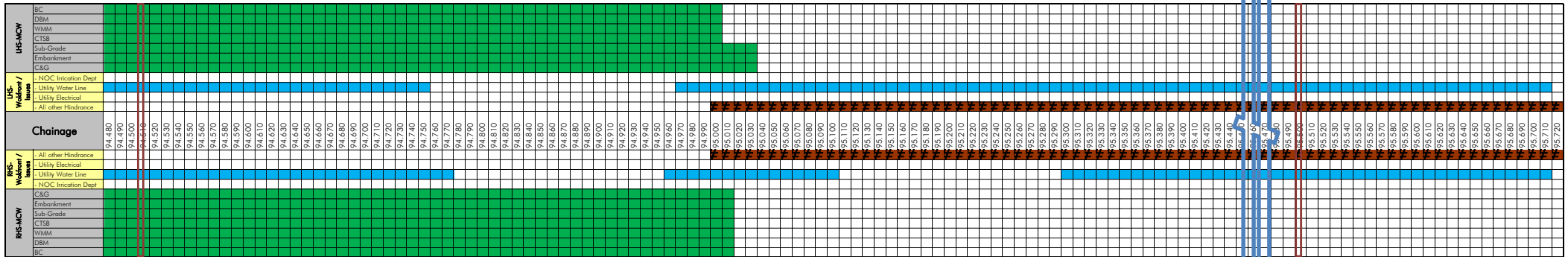
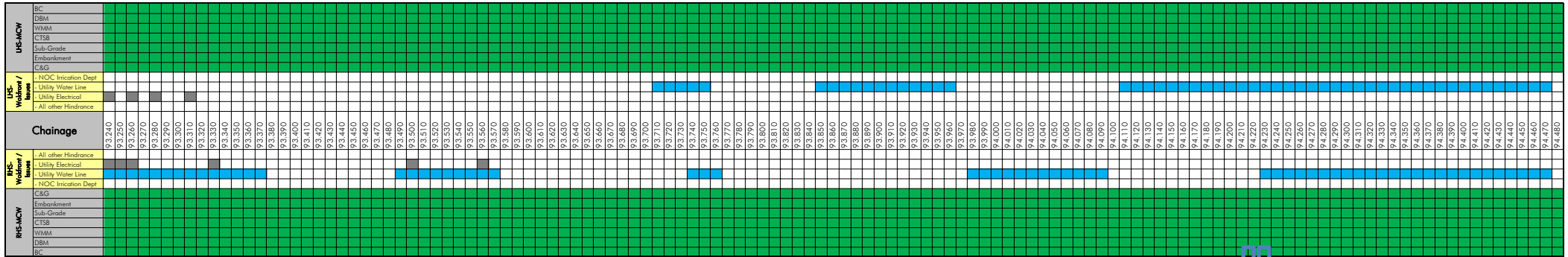
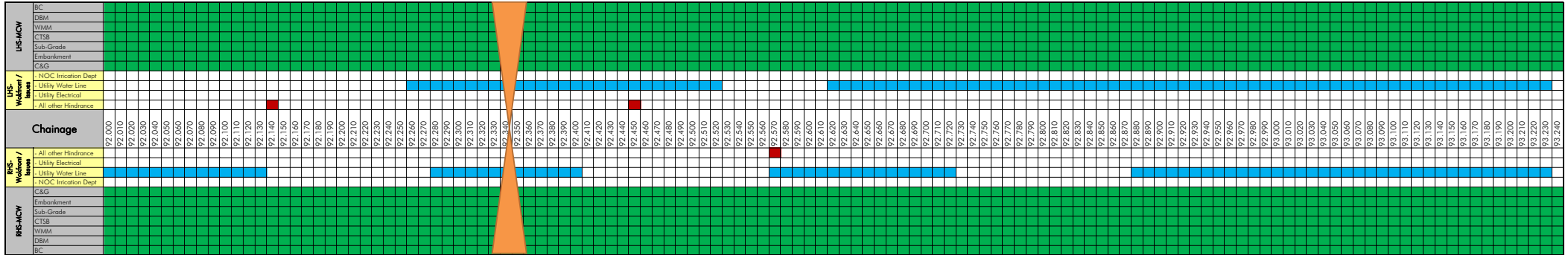
Utility Electrical

Utility Water Line

NOC Irrigation Dept

Work Inprogress

Work Completed



Four Laning of Sethiyahupu - Cholapuram 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.

Sethiyahupu - Cholapuram Road Projects

Strip Plan for MCW as on 30.06.2023

Legend



Box/Slab Culverts



Minor Bridge



Major Bridge



VUP/LVUP



GS

All other Hindrances towards LA, Payment pending etc.,

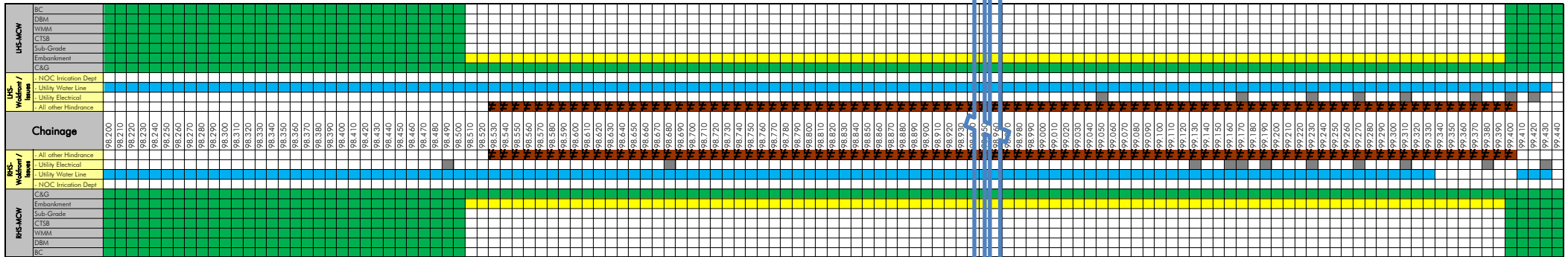
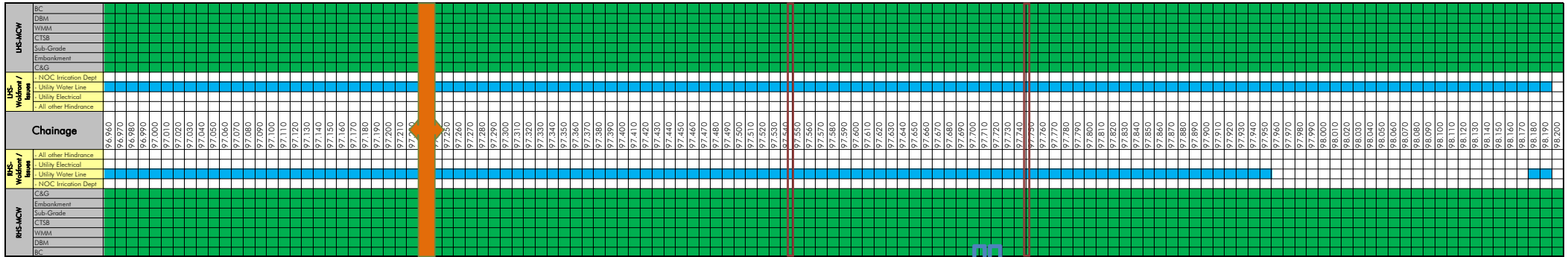
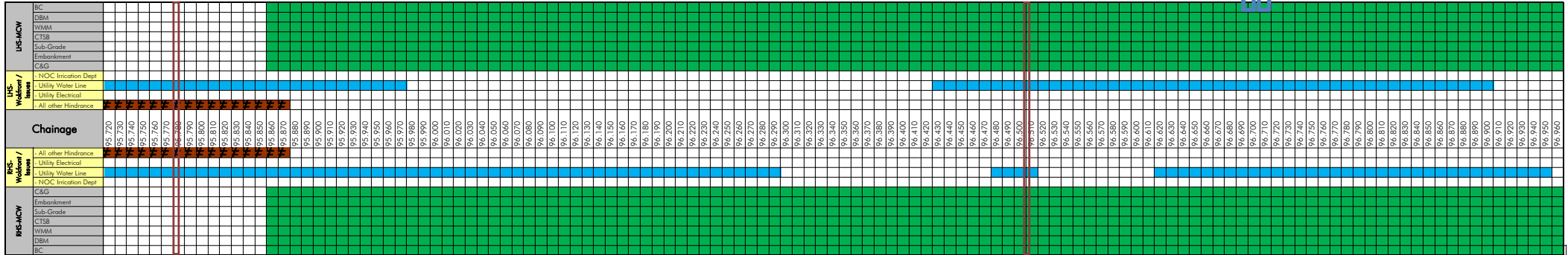
Utility Electrical

Utility Water Line

NOC Irrigation Dept

Work Inprogress

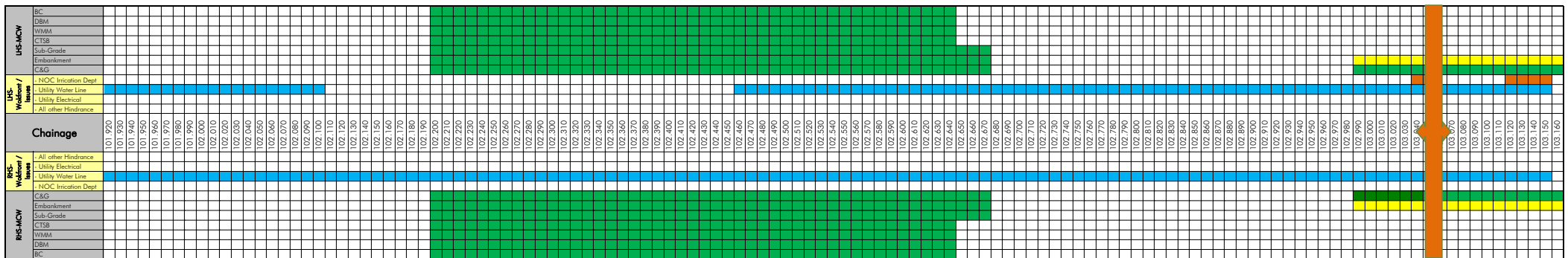
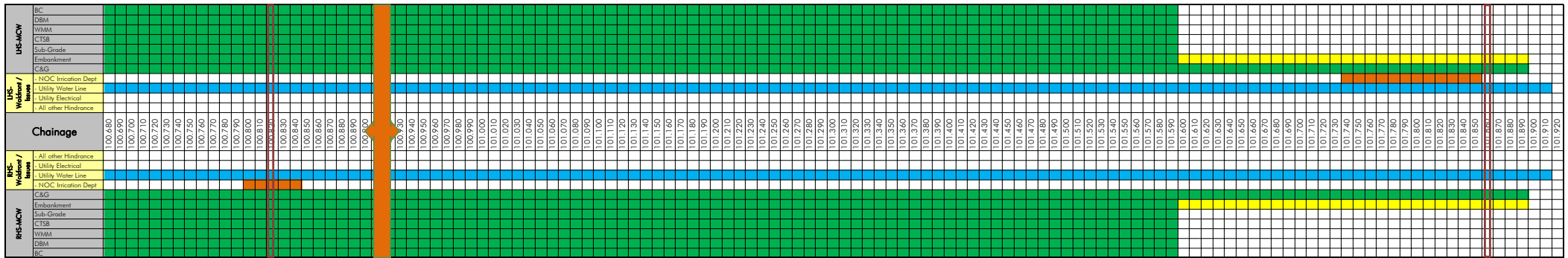
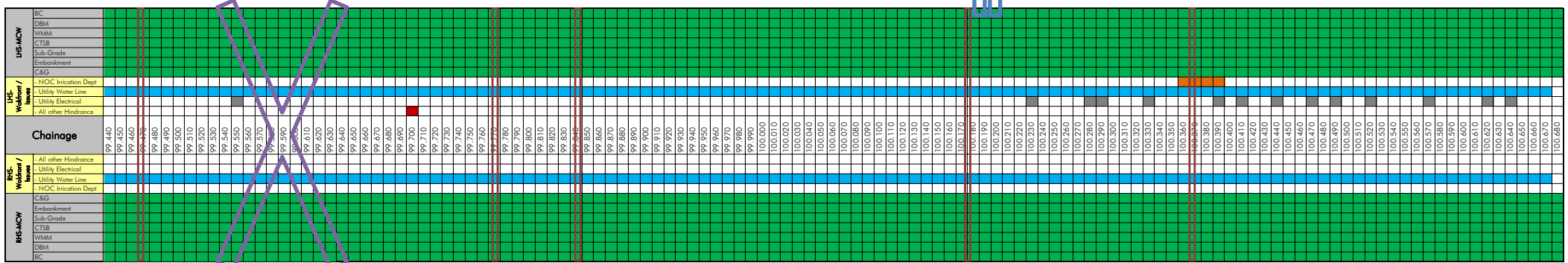
Work Completed



Four Laning of Sethiyahupu - Cholapuram 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.

Sethiyahupu - Cholapuram Road Projects

Strip Plan for MCW as on 30.06.2023



Four Laning of Sethiyahopu - Cholapuram 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 - Cholapuram Road Projects

Strip Plan for MCW as on 30.06.2023

Legend



Box/Slab Culverts



Minor Bridge



Major Bridge



VLP/VLUP



GS



All other Hindrances towards LA, Payment pending etc.,



Utility Electrical



Utility Water Line



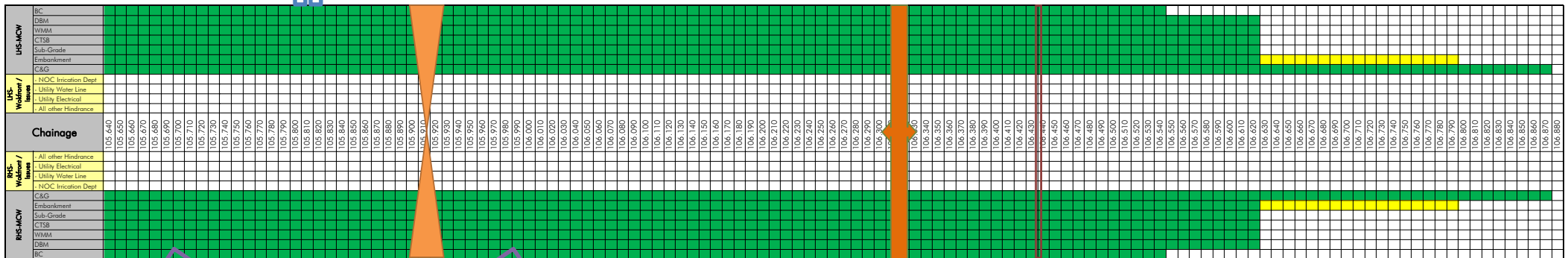
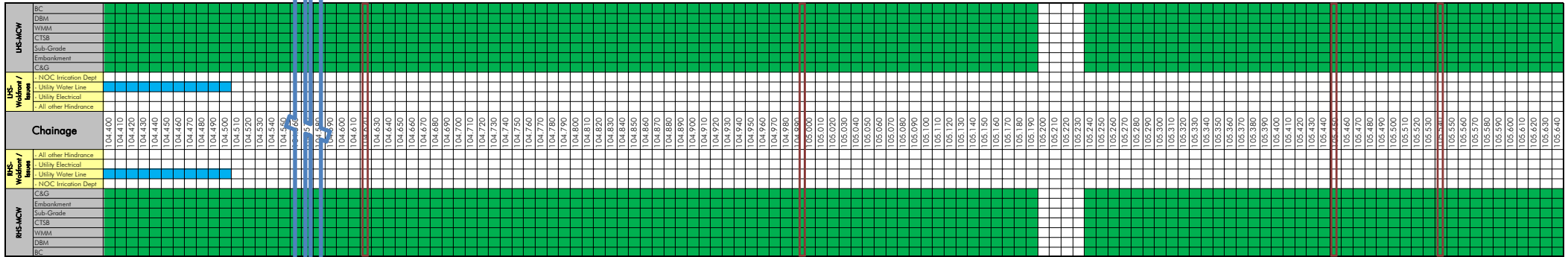
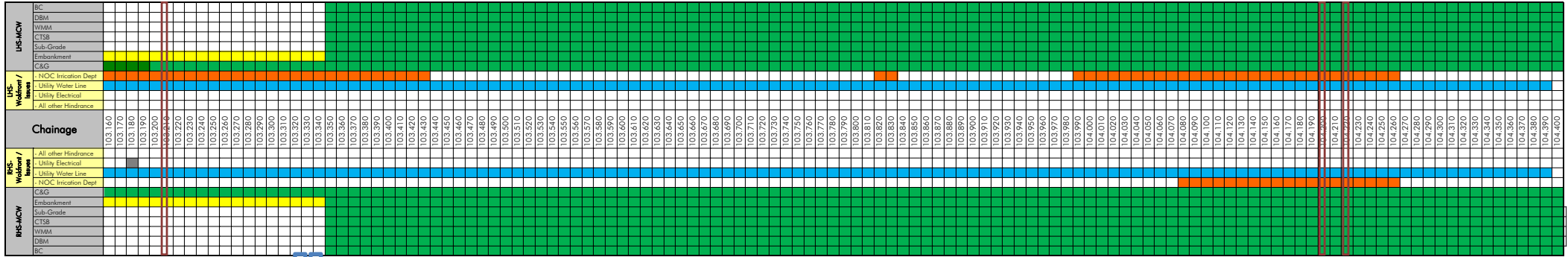
NOC Irrigation Dept



Work Inprogress



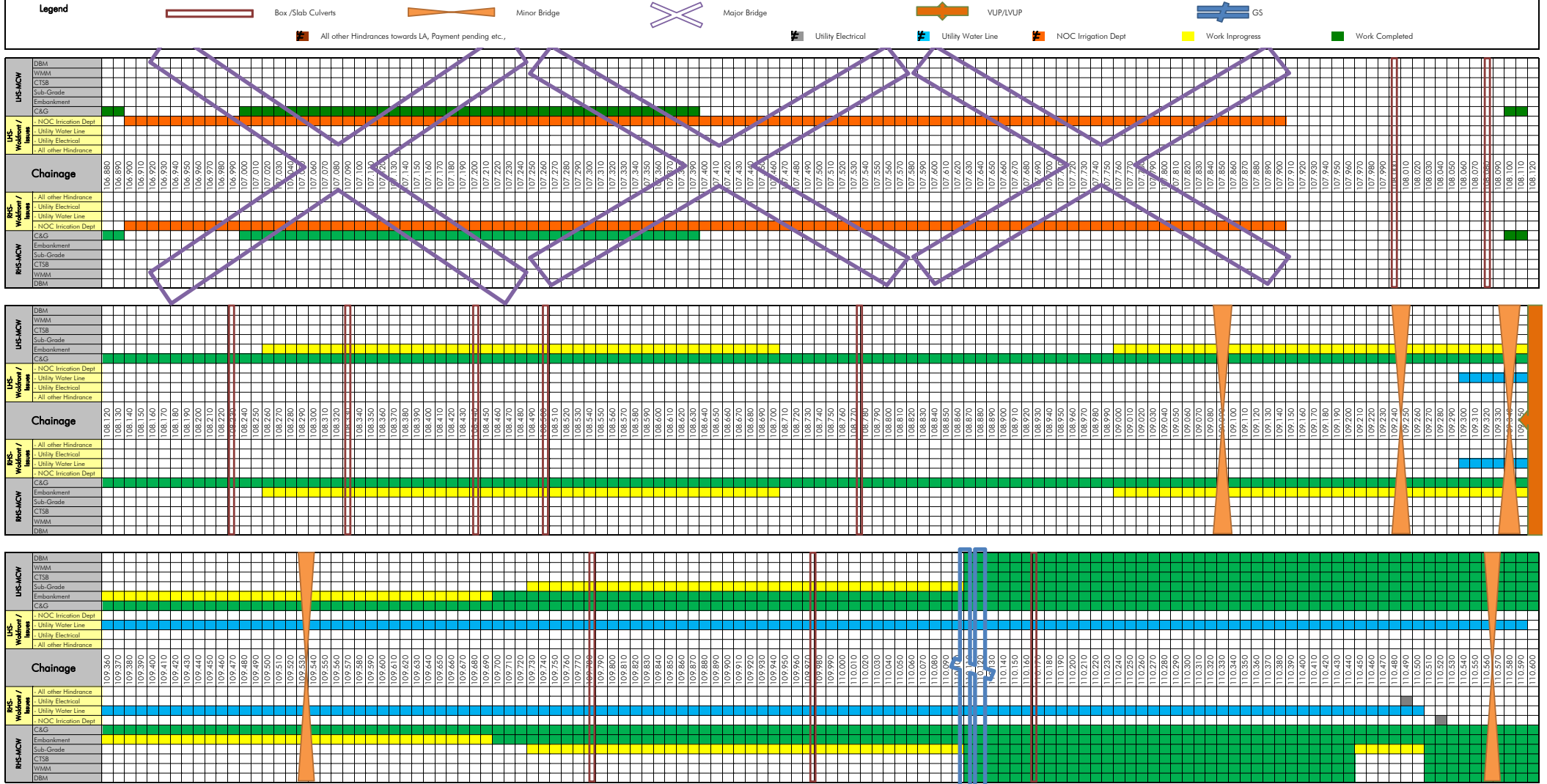
Work Completed



Four Laning of Sethiyahopu - Cholapuram 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 - Cholapuram Road Projects

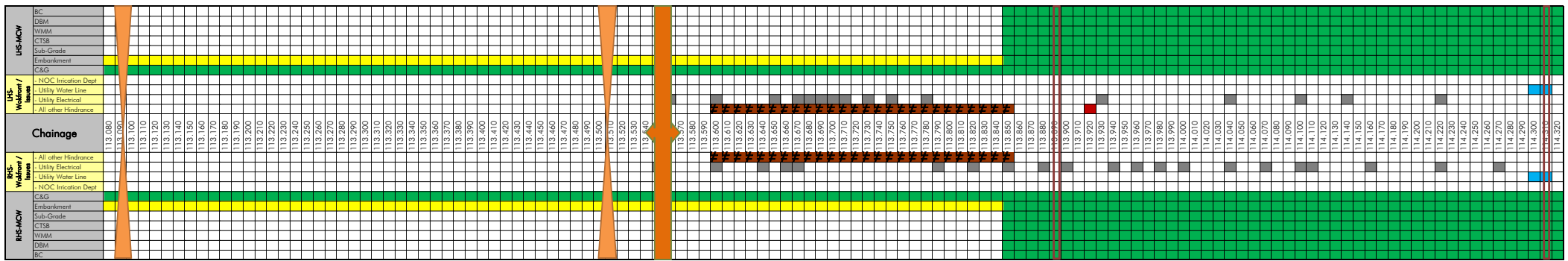
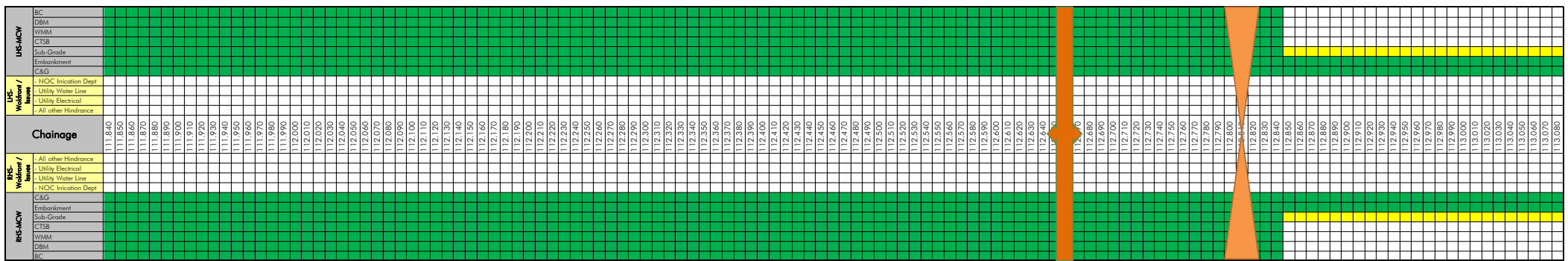
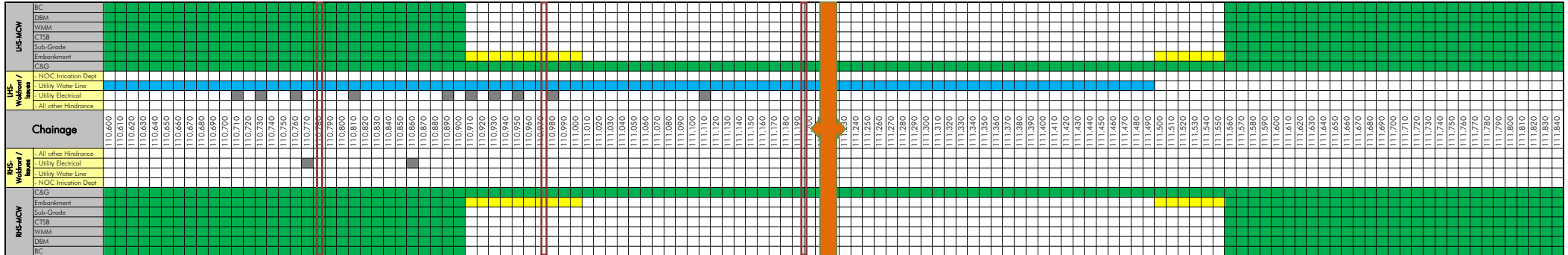
Strip Plan for MCW as on 30.06.2023



Four Laning of Sethiyahopu - Cholapuram 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 - Cholapuram Road Projects

Strip Plan for MCW as on 30.06.2023

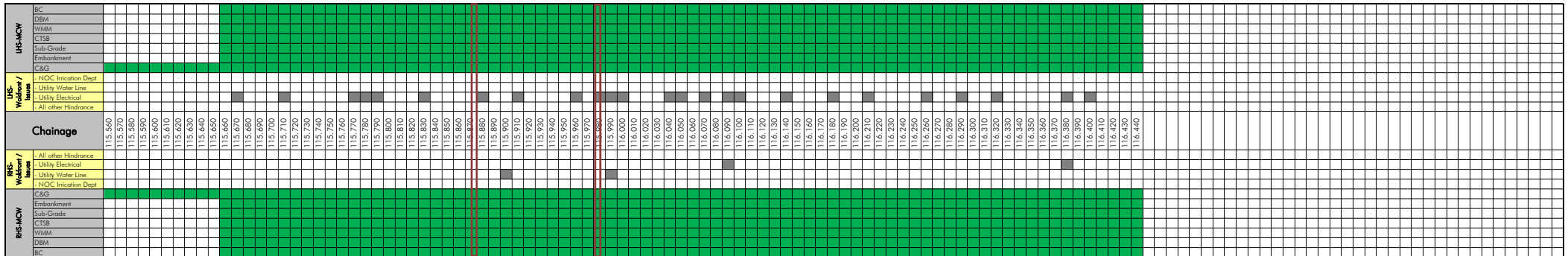
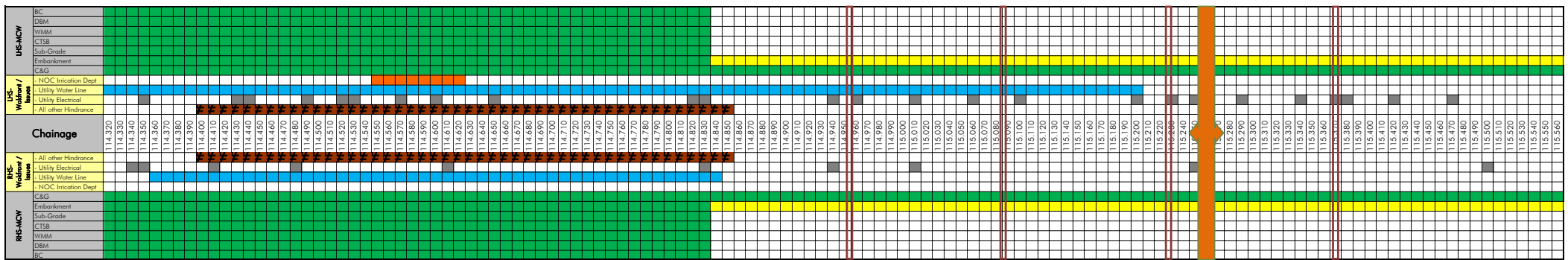




Four Laning of Sethiyahopu - Cholapuram from Km. 65.960 to Km. 116.440 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode.

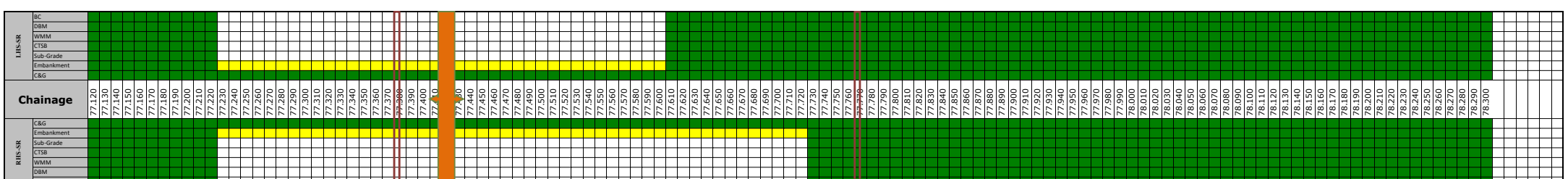
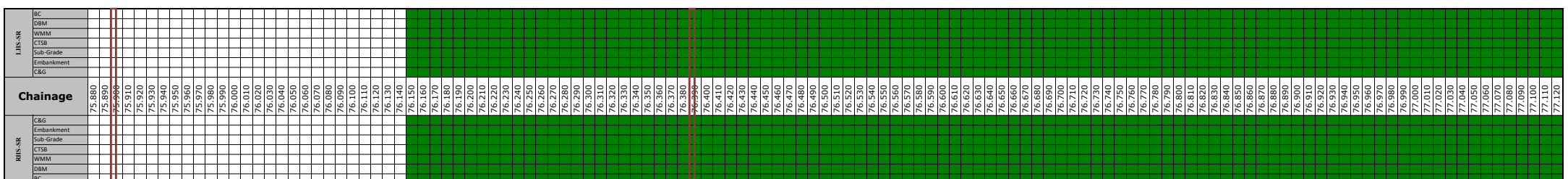
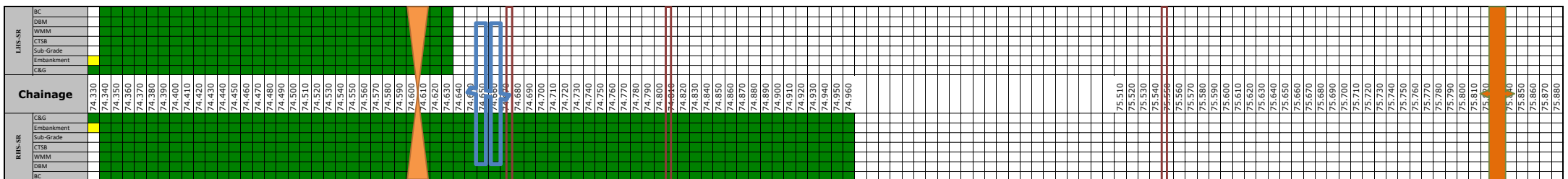
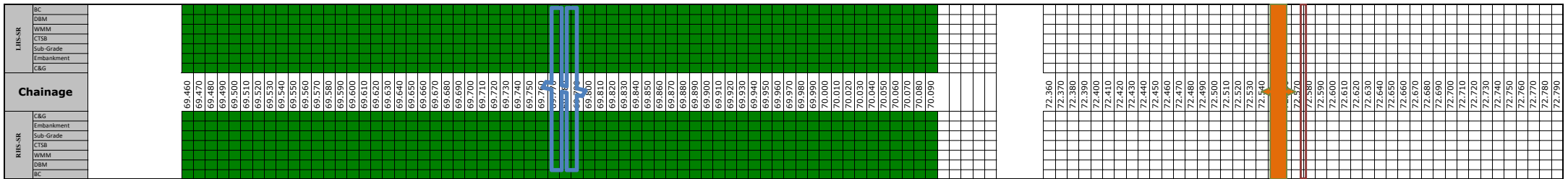
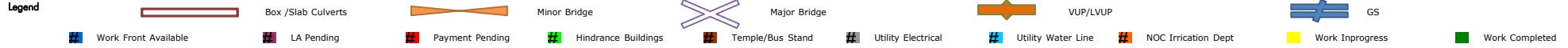
Sethiyahopu - Cholapuram Road Projects

Strip Plan for MCW as on 30.06.2023



**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 30.06.2023**





**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 30.06.2023**

**Legend**

	Work Front Available		LA Pending		Payment Pending		Hindrance Buildings		Temple/Bus Stand		Utility Electrical		Utility Water Line		NOC Irrigation Dept		GS
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LHS-SR	RHS-SR	Chaignage	
		Sub-Grade	Embankment
DBM			
WMM			
CTSB			
Sub-Grade			
Embankment			
C&G			
87.000			
87.010			
87.020			
87.030			
87.040			
87.050			
87.060			
87.070			
87.080			
87.090			
87.100			
87.110			
87.120			
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87.140			
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89.500			
89.510			
89.520			
89.530			
89.540			
89.550			
89.560			
89.570			
89.580			
89.590			
89.600			

LHS-SR	RHS-SR	Chaignage	
		Sub-Grade	Embankment
BC			
DBM			
WMM			
CTSB			
Sub-Grade			
Embankment			
C&G			
88.130			
88.140			
88.150			
88.160			
88.170			
88.180			
88.190			
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LHS-SR	RHS-SR	Chaignage	
		Sub-Grade	Embankment
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DBM			
WMM			
CTSB			
Sub-Grade			
Embankment			
C&G			
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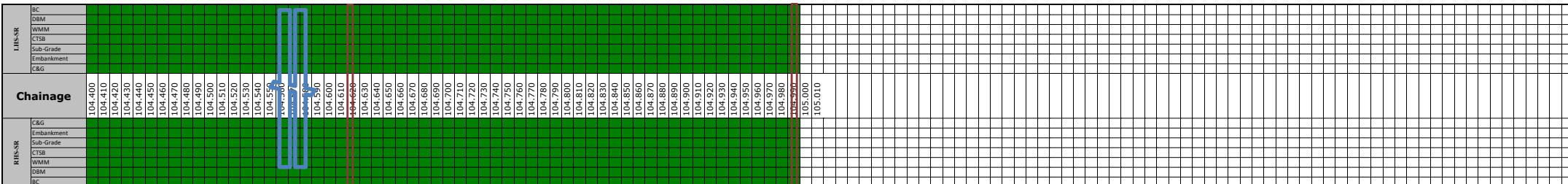
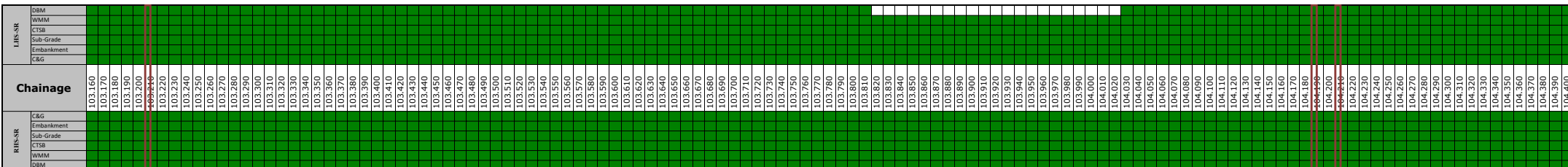
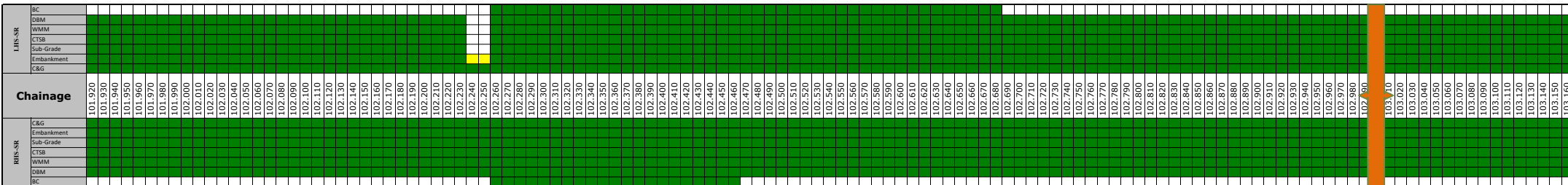
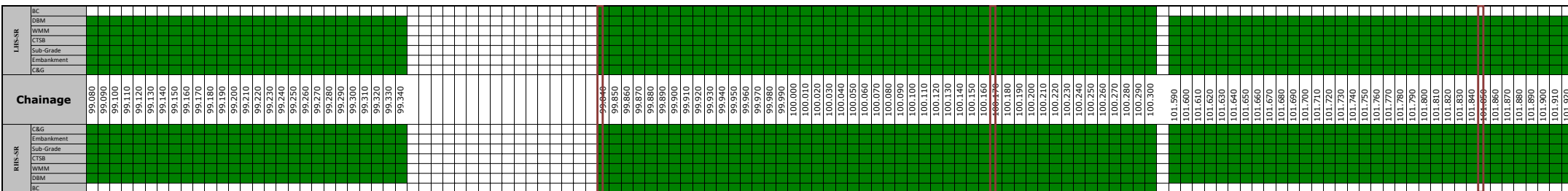
Four Laning of Sethiyahopu - Cholopuram from Km. 65.960 to Km. 116.440 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode.

Sethiyahopu - Cholopuram Road Projects

Strip Plan for SR as on 30.06.2023

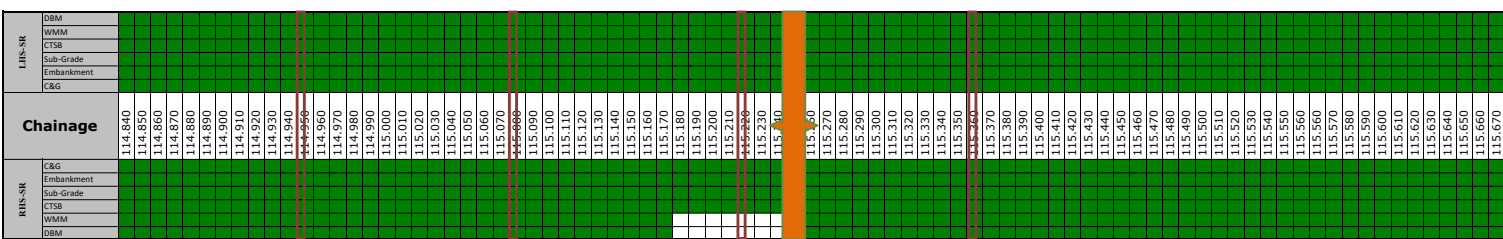
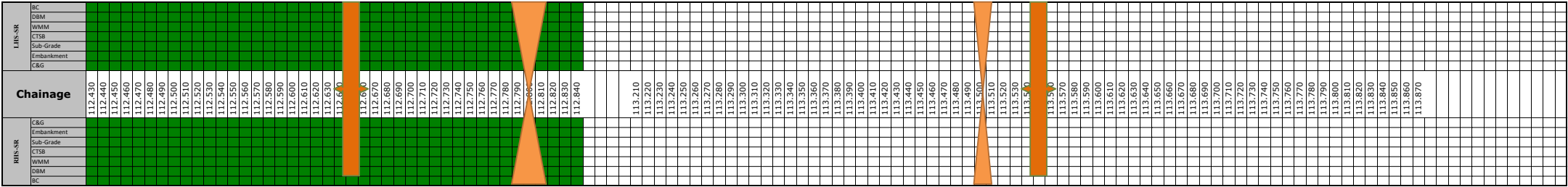
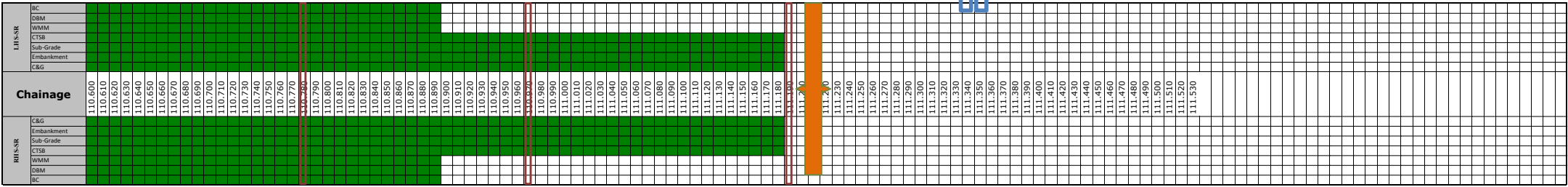
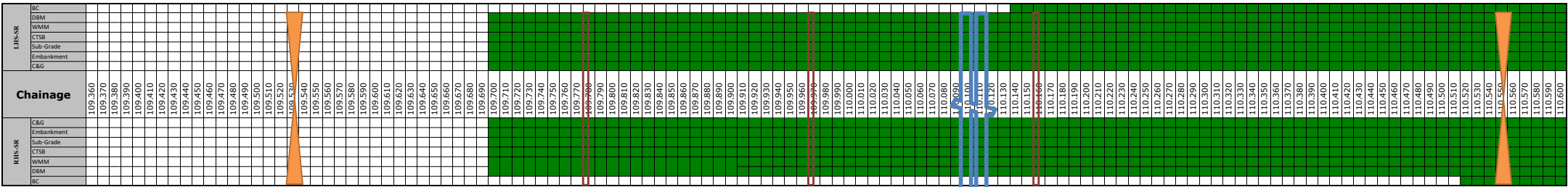
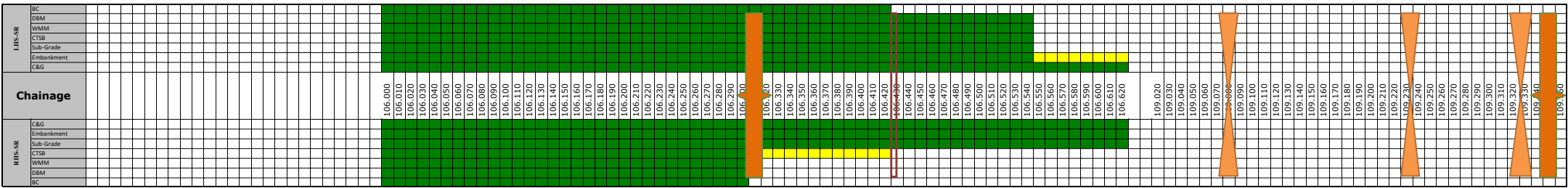
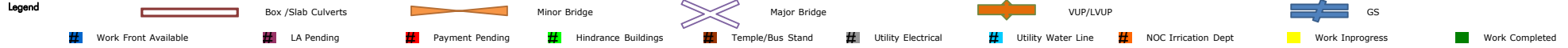
Legend

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



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 30.06.2023



SETHIAHOPU CHOLOPURAM PROJECT - STATUS OF BOX CULVERTS ON EXISTING ROAD - MCW							Completed								In Progress								
Status Upto	30.06.2023						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	COS	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	COS	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	30.06.2023						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	COS	EXISTING	1 x 1.5m		BOX CULVERT																	
29	110+795	110.785	EXISTING	1 x 1.2m x 2.0m	Repair & Widening	BOX CULVERT																	
30	110+980	110.971	EXISTING	1 x 1.5m x 2.0m	Repair & Reconstruction	BOX CULVERT																	
31	113+897	113.885	EXISTING	1 x 1.0m	Repair & Widening	PIPE CULVERT																	
32	114+313	114.300	EXISTING	1 x 1.0m	Repair & Widening	PIPE CULVERT																	
33	114+954	114.952	EXISTING	1 x 1.0m	Repair & Reconstruction	PIPE CULVERT																	
34	115+097	115.087	EXISTING	2 x 1.0m	Repair & Reconstruction	PIPE CULVERT																	
35	115+232	115.221	EXISTING	1 x 2.0m x 2.0m	Repair & Reconstruction	BOX CULVERT																	
36	115+381	115.368	EXISTING	1 x 2.0m	Repair & Reconstruction	BOX CULVERT																	
37	115+884	115.872	EXISTING	2 x 1.0m	Repair & Widening	PIPE CULVERT																	
38	115+978	115.978	EXISTING	1 x 2.0m x 2.0m	Repair & Widening	BOX CULVERT																	

SETHIAHOPU CHOLOPURAM PROJECT - STATUS OF BOX CULVERTS ON BYPASS - MCW						Completed								In Progress								
Status Upto	30.06.2023					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	30.06.2023					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																	

SETHIYAHOPU CHOLOPURAM PROJECT - STATUS OF MNB-BOX TYPE - MCW						Completed							In Progress									
Status Upto	30.06.2023					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	72+250	COS	1 x 10.00m	MNBB	BYPASS																	
13	72+820	COS	1 x 10.00m	MNBB	BYPASS																	
14	74+173	74.175	2 x 12.5m	MNBB	BYPASS																	
15	74+605	74.600	2 x 12.5m	MNBB	BYPASS																	
16	105+915	105.915	2 x 12.5m	MNBB	BYPASS																	
17	109+090	109.088	2 x 12.5m	MNBB	BYPASS																	
18	109+195	109.208	2 x 12.5m	MNBB	BYPASS																	
19	109+365	109.365	2 x 12.5m	MNBB	BYPASS																	
20	109+540	109.540	2 x 12.5m	MNBB	BYPASS																	
21	111+563	111.565	2 x 12.5m	MNBB	BYPASS																	
22	112+807	112.807	1 x 25m	MNBB	BYPASS																	
23	113+100	113.100	2 x 12.5m	MNBB	BYPASS																	
24	113+505	113.505	2 x 12.5m	MNBB	BYPASS																	

SETHIAHOPU CHOLOPURAM PROJECT - STATUS OF MNB-BOX TYPE - SERVICE ROAD						Completed							In Progress									
Status Upto	30.06.2023					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 & PUP					Completed						In Progress					
Status Upto	30.06.2023				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	1 X 10.5	LVUP	EXISTING												
2	95+200	1 X 3	PUP	EXISTING												
3	95+700	1 X 3	PUP	EXISTING												
4	112+643	1 X 10.5	LVUP	BYPASS												

SETHIYAHOPU CHOLOPURAM PROJECT - STATUS OF MNB - GIRDER TYPE					Completed									In Progress											
Status upto	30.06.2023				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																					

SETHIAHOPU CHOLOPURAM PROJECT - STATUS OF MJB									Completed							
MJB at Chainage 66+530 (8x30) - BYPASS									In Progress							
Status Upto 30.06.2023	LHS/LSR								RHS/RSR							
	Crash Barrier	Slab	Girder Launching	Girder Casting	Pier Cap/Abt Cap	Pier/Abt	Pile Cap	Pile	Pile	Pile Cap	Pier/Abt	Pier Cap/Abt Cap	Girder Casting	Girder Launching	Slab	Crash Barrier
A1																
P1																
P2																
P3																
P4																
P5																
P6																
P7																
A2																
MJB at Chainage 73+340 (9x30) - BYPASS									Completed							
MJB at Chainage 73+340 (9x30) - BYPASS									In Progress							
Status Upto 30.06.2023	LHS/LSR								RHS/RSR							
	Crash Barrier	Slab	Girder Launching	Girder Casting	Pier Cap/Abt Cap	Pier/Abt	Pile Cap	Pile	Pile	Pile Cap	Pier/Abt	Pier Cap/Abt Cap	Girder Casting	Girder Launching	Slab	Crash Barrier
A1																
P1																
P2																
P3																
P4																
P5																
P6																
P7																
P8																
A2																



MJB at Chainage 99+583 (3x25) - EXISTING ROAD									<div style="display: flex; justify-content: space-between;"> <span style="width: 15px; height: 15px; background-color: green; border: 1px solid black;"></span> Completed           <span style="width: 15px; height: 15px; background-color: yellow; border: 1px solid black;"></span> In Progress         </div>							
Status Upto 30.06.2023	LHS/LSR								RHS/RSR							
	Crash Barrier	Slab	Girder Launching	Girder Casting	Pier Cap/Abt Cap	Pier/Abt	Pile Cap	Pile	Pile	Pile Cap	Pier/Abt	Pier Cap/Abt Cap	Girder Casting	Girder Launching	Slab	Crash Barrier
A1									Existing Major Bridge need to be retained.							
P1																
P2																
A2																
MJB at Chainage 107+400 - BYPASS									<div style="display: flex; justify-content: space-between;"> <span style="width: 15px; height: 15px; background-color: green; border: 1px solid black;"></span> Completed           <span style="width: 15px; height: 15px; background-color: yellow; border: 1px solid black;"></span> In Progress         </div>							
Status Upto 30.06.2023	LHS/LSR								RHS/RSR							
	Crash Barrier	Slab	Girder Launching	Girder Casting	Pier Cap/Abt Cap	Pier/Abt	Pile Cap	Pile	Pile	Pile Cap	Pier/Abt	Pier Cap/Abt Cap	Girder Casting	Girder Launching	Slab	Crash Barrier
A1																
P1																
P2																
P3																
P4																
P5																
P6																
P7																
P8																
P9																
P10																
P11																
P12																
P13																
P14																
P15																
P16																
P17																
P18																
P19																
A2																

SETHIAHOPI CHOLOPURAM PROJECT - STATUS OF FLYOVER					Completed									In Progress									
Status upto	30.06.2023				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	Negative Change of Scope									Negative Change of Scope									
				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	30.06.2023				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										Negative Change of Scope									
				A2																			
13	115+258	1x25	EXISTING	A1																			
				A2																			

5. Financial & Physical Progress of Work

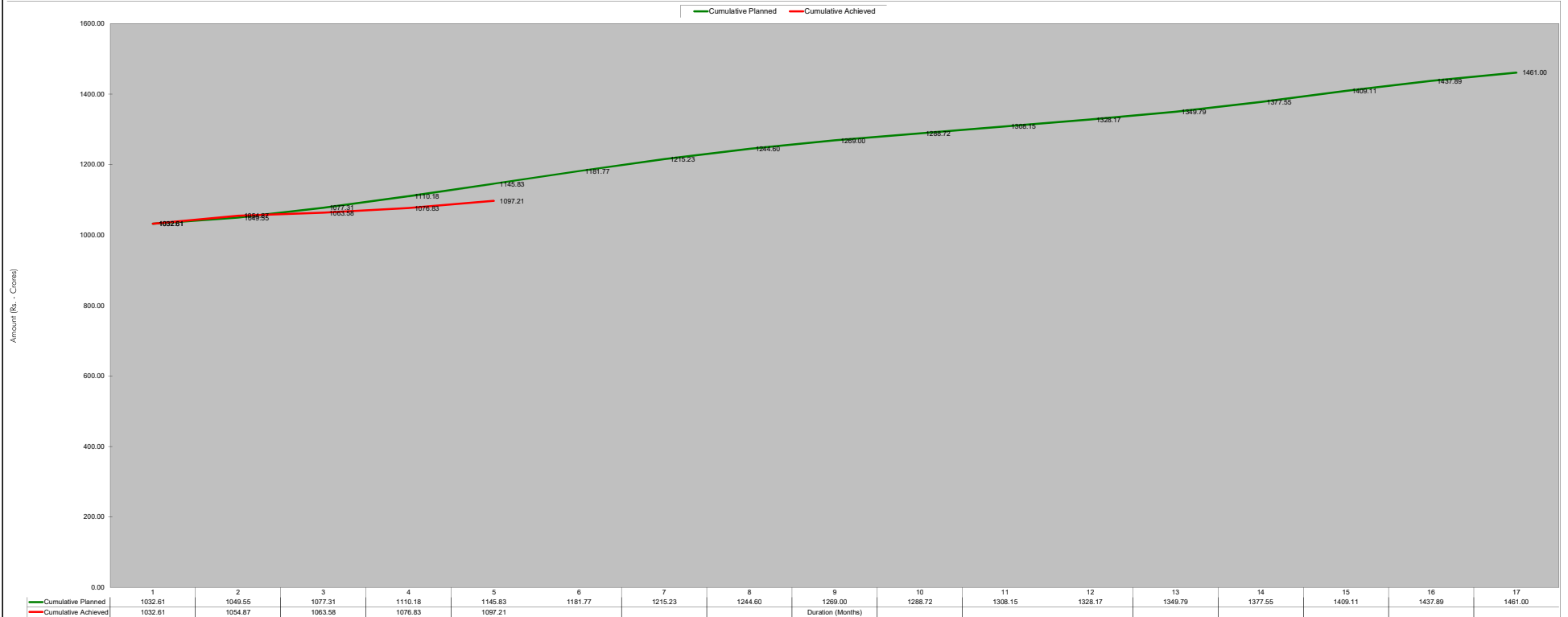
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Figure 3a: Financial Progress - Planned vs Achieved - S Curve

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.**

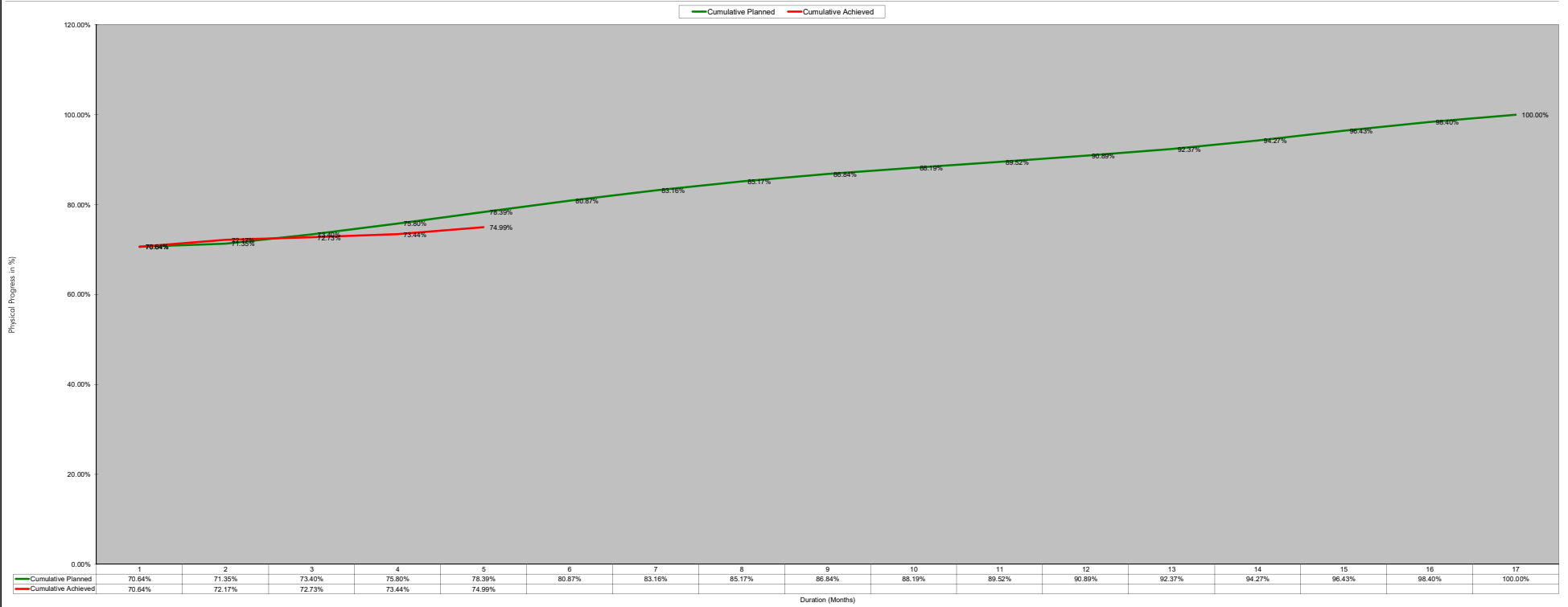
**Fig. 03a- Financial Progress (Revised S-Curve) as per Settlement Agreement signed on dated 20.03.2023.**



Schedule	2023												2024						
	Up to February	March	April	May	June	July	August	September	October	November	December	January	February	March	April	May	June		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17		
Revised Target vs Achieved as per Revised Target set forth in the Settlement Agreement signed on dated 20.03.2023	Monthly Planned	1032.61	16.95	27.76	32.87	35.65	35.94	33.46	29.37	24.40	19.72	19.43	20.02	21.62	27.76	31.56	28.78	23.11	
	Monthly Achieved	1032.61	22.26	8.71	13.25	20.37													
	Cumulative Planned	1032.61	1049.55	1077.31	1110.18	1145.83	1181.77	1215.23	1244.60	1269.00	1288.72	1308.15	1328.17	1349.79	1377.55	1409.11	1437.89	1461.00	
	Cumulative Achieved	1032.61	1054.87	1063.58	1076.83	1097.21													
	Monthly Planned (%)	70.68%	1.2%	1.9%	2.3%	2.4%	2.5%	2.3%	2.0%	1.7%	1.4%	1.3%	1.4%	1.5%	1.9%	2.2%	2.0%	1.6%	
	Monthly Achieved (%)	70.68%	1.5%	0.6%	0.9%	1.4%													
	Cumulative Planned (%)	70.68%	71.8%	73.7%	76.0%	78.4%	80.9%	83.2%	85.2%	86.9%	88.2%	89.5%	90.9%	92.4%	94.3%	96.4%	98.4%	100.0%	
	Cumulative Achieved (%)	70.68%	72.20%	72.80%	73.71%	75.10%													

**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 Settlement Agreement signed on dated 20.03.2023.**



Schedule	2023												2024					
	Up to February	March	April	May	June	July	August	September	October	November	December	January	February	March	April	May	June	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
Revised Target vs Achieved as per Revised Target set forth in the Settlement Agreement signed on dated 20.03.2023	Monthly Planned	70.64%	0.71%	2.05%	2.40%	2.59%	2.48%	2.29%	2.01%	1.67%	1.35%	1.33%	1.37%	1.48%	1.90%	2.16%	1.97%	1.60%
	Monthly Achieved	70.64%	1.53%	0.56%	0.71%	1.55%												
	Cumulative Planned	70.64%	71.35%	73.40%	75.80%	78.39%	80.87%	83.16%	85.17%	86.84%	88.19%	89.52%	90.89%	92.37%	94.27%	96.43%	98.40%	100.00%
	Cumulative Achieved	70.64%	72.17%	72.73%	73.44%	74.99%												

## 6. Quality Control and Quality Assurance

### 6.1. List of Lab Equipment's

A site laboratory has been set up with all equipments 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 <sup>2</sup> )	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 from cap 600ML	4 Nos
12	Compaction pedestal - 4"	4 Nos
13	Extractor plate - 6" dia for marshal test	1 No
14	Rammer marshal - 4"	4 Nos
15	Thermometer Infra red - MTX - 2	2 Nos
16	LE - Chatlier mould one set of six	2 Nos
17	Cone penetrometer	1 No
18	Los angeles abrasion testing machine	1 No
19	Marshal Mould - 4" dia	51 nos
20	G.I Tray - 1500*1500*100MM	4 Nos
21	Compaction pedestal - 6"	1 No
22	Marshal stability apparatus	1 No
23	Measuring cylinder- Plastic - 50ML	4 Nos
24	Measuring cylinder- Plastic - 250ML	2 Nos
25	Measuring cylinder- Plastic - 500ML	2 Nos
26	Measuring cylinder- Plastic - 1000ML	2 Nos
27	Vibrating machine with digital timer	1 No
28	Hot Air Oven - Thermostatic - NoN Digital - 45*45*45 CM	1 No
29	Hot Air Oven - Thermostatic - NoN Digital - 90*60*60 CM	1 No
30	Penetration cup - 55*70 MM	2 Nos
31	Penetration cup - 55*35MM	6 Nos

32	Standard Penetrometer - Automatic with digital timer	1 No
33	proctor compaction mould 100mm dia with 2.69kg Rammer mid steel	4 Nos
34	proctor compaction mould 150mm dia with 4.89kg Rammer mid steel	6 Nos
35	proving ring compression type 10kn	1 Nos
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 June - 2023 are tabulated below:-

Four Laning of Sethiyahopu - Cholapuram 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 June-2023

Sr. No.	Description	IS Specification Clause	Frequency of Tests	Tests conducted upto Previous month				Tests conducted during reporting month June 2023						Tests conducted upto this month				
				Nos. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos. of test witnessed by IE	Tested		Passed		Failed		Nos. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos. of test witnessed by IE	
								Concessi onaire	IE	Concessi onaire	IE	Concessi onaire	IE					
<b>1.0 Tests on OGL</b>																		
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	
<b>2.0 Borrow Area for EMB/Subgrade (MoRT&amp;H 305)</b>																		
2.1	Grain size analysis	IS:2720 (Part4)	1 test /1500 m <sup>3</sup>	1740	1740	0	942	40	20	40	20	0	0	1780	1780	0	962	
2.2	Atterberg Limits	IS:2720 (Part5)	1 test /1500 m <sup>3</sup>	1740	1740	0	942	40	20	40	20	0	0	1780	1780	0	962	
2.3	Proctor	IS:2720 (Part8)	1 test /1500 m <sup>3</sup>	1740	1740	0	942	40	20	40	20	0	0	1780	1780	0	962	
2.4	Free Swell index	IS:2720 (Part40)	1 test /1500 m <sup>3</sup>	1740	1740	0	942	40	20	40	20	0	0	1780	1780	0	962	
2.5	California bearing ratio	IS:2720 (Part16)	1 test /3000 m <sup>3</sup>	508	494	14	268	20	10	20	10	0	0	528	514	14	278	
2.6	Direct shear Test	IS:2720 (Part13)	1 test /3000 m <sup>3</sup>	343	340	3	176	20	10	20	10	0	0	363	360	3	186	
<b>3.0 Cutting &amp; Existing portion for EMB/Subgrade site sampling (MoRT&amp;H 305)</b>																		
3.1	Grain size analysis	IS:2720 (Part4)	1 test /1500 m <sup>3</sup>	89	87	2	47	24	10	24	10	0	0	113	111	2	57	
3.2	Atterberg Limits	IS:2720 (Part5)	1 test /1500 m <sup>3</sup>	89	87	2	47	24	10	24	10	0	0	113	111	2	57	
3.3	Proctor	IS:2720 (Part8)	1 test /1500 m <sup>3</sup>	89	87	2	47	24	10	24	10	0	0	113	111	2	57	
3.4	Free Swell index	IS:2720 (Part40)	1 test /1500 m <sup>3</sup>	89	87	2	47	24	10	24	10	0	0	113	111	2	57	
3.5	California bearing ratio	IS:2720 (Part16)	1 test /3000 m <sup>3</sup>	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 <sup>3</sup>	1	1	0	1	24	10	24	10	0	0	25	25	0	11	
<b>4.0 Service Road</b>																		
4.1	Grain size analysis	IS:2720 (Part4)	1 test /1500 m <sup>3</sup>	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 <sup>3</sup>	27	27	0	20	0	0	0	0	0	0	27	27	0	20	
4.3	Proctor	IS:2720 (Part8)	1 test /1500 m <sup>3</sup>	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 <sup>3</sup>	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 <sup>3</sup>	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 <sup>3</sup>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>5.0 Flyash for Embankment</b>																		
5.1	Liquid Limit & Plastic limit	TABLE-1	1 test /1500 m <sup>3</sup>	467	467	0	266	30	16	30	16	0	0	497	497	0	282	
5.2	Maximum Dry Density	Clause 5.2	1 test /1500 m <sup>3</sup>	467	467	0	278	30	16	30	16	0	0	497	497	0	294	
5.3	Grain size analysis	IS:2720 (Part4)	1 test /3000 m <sup>3</sup>	327	327	0	190	30	16	30	16	0	0	357	357	0	206	
5.4	Direct shear Test	IS:2720 (Part13)	1 test /3000 m <sup>3</sup>	212	212	0	118	15	8	15	8	0	0	227	227	0	126	

Sr. No.	Description	IS Specification Clause	Frequency of Tests	Tests conducted upto Previous month				Tests conducted during reporting month June 2023						Tests conducted upto this month			
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								Concessi onaire	IE	Concessi onaire	IE	Concessi onaire	IE				
<b>6.0 Field Density Test (MoRT&amp;H 305)</b>																	
6.1	Field density (OGL)	IS:2720 (Part28)	1 test /3000 sqm	4452	4329	123	1078	40	20	40	20	0	0	4492	4369	123	1098
6.2	EMB field density	IS:2720 (Part28)	1 test /3000 sqm	100279	97102	3177	18099	3114	255	3000	240	114	15	103393	100102	3291	18354
6.3	SG field density	IS:2720 (Part28)	1 test /2000 sqm	21176	20633	543	6677	482	49	440	40	42	9	21658	21073	585	6726
6.4	Shoulder field density	IS:2720 (Part28)	1 test /2000 sqm	1213	1170	43	135	0	0	0	0	0	0	1213	1170	43	135
6.5	Ground improvement (Soil)	IS:2720 (Part28)	1 test /2000 sqm	6244	6158	86	664	100	10	100	10	0	0	6344	6258	86	674
6.6	Ground improvement & Median filling (Flyash)	IS:2720 (Part28)	1 test /2000 sqm	39763	38669	1094	5240	1508	102	1310	90	198	12	41271	39979	1292	5342
<b>7.0 Filter Media &amp; Back filling (MoRT&amp;H 2500)</b>																	
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 <sup>3</sup>	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
<b>8.0 Safe Bearing capacity of soil</b>																	
8.1	Free Swell index	IS:2720 (Part40)	As required	115	102	13	99	0	0	0	0	0	0	115	102	13	99
8.2	Grain size analysis	IS:2720 (Part4)	As required	115	108	7	99	0	0	0	0	0	0	115	108	7	99
8.3	Proctor	IS:2720 (Part8)	As required	115	108	7	99	0	0	0	0	0	0	115	108	7	99
8.4	Direct shear Test	IS:2720 (Part13)	As required	115	96	19	99	0	0	0	0	0	0	115	96	19	99
8.5	Bearing Capacity / Plate Load Test	IS:6403 / IS:1888	As required	112	58	54	68	0	0	0	0	0	0	112	58	54	68
<b>9.0 CTSB Mix Design/Site Frequency (MoRT&amp;H 403)</b>																	
9.1	Gradation	Table 400-4	1 test/400m <sup>3</sup>	1299	1299	0	539	45	25	45	25	0	0	1344	1344	0	564
9.2	Atterberg Limits	IS:2720 (Part5)	1 test/400m <sup>3</sup>	1178	1178	0	462	45	25	45	25	0	0	1223	1223	0	487
9.3	Proctor	IS:2720 (Part8)	As required	68	68	0	66	2	2	2	2	0	0	70	70	0	68
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	6868	6868	0	3853	164	25	164	25	0	0	7032	7032	0	3878
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	2306	2306	0	875	44	24	44	24	0	0	2350	2350	0	899
<b>10.0 Granular Bedding Material (For Structures-Ground Improvement)-Mix Design</b>																	
10.1	Gradation	Table 400-1	1 test/400m <sup>3</sup>	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.2	Atterberg Limits	IS:2720 (Part5)	1 test/400m <sup>3</sup>	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 Sqm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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								Concessi onaire	IE	Concessi onaire	IE	Concessi onaire	IE				
<b>11.0 Granular Bedding Material (For Structures-Ground Improvement)-Site Frequency</b>																	
11.1	Gradation	Table 400-1	1 test/400m <sup>3</sup>	3	3	0	3	0	0	0	0	0	0	3	3	0	3
11.2	Atterberg Limits	IS:2720 (Part5)	1 test/400m <sup>3</sup>	3	3	0	3	0	0	0	0	0	0	3	3	0	3
11.3	Proctor	IS:2720 (Part8)	As required	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.4	CBR Test	IS:2720 (Part16)	As required	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.5	Aggregate Impact value	IS:2386 (Part4)	As required	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.6	Field Density	IS:2720 (Part28)	1 Test per 1000 Sqm	90	90	0	21	0	0	0	0	0	0	90	90	0	21
<b>12.0 WMM Mix Design (MoRT&amp;H 406)</b>																	
12.1	Gradation	Table 400-3	1 test/200m <sup>3</sup>	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 <sup>3</sup>	13	13	0	13	0	0	0	0	0	0	13	13	0	13
12.3	Flakiness & Elongation index	IS:2386 (Part1)	1 test/500m <sup>3</sup>	12	12	0	12	0	0	0	0	0	0	12	12	0	12
12.4	Atterberg Limits	IS:2720 (Part5)	1 test/200m <sup>3</sup>	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
<b>13.0 WMM Site Frequency (MoRT&amp;H 406)</b>																	
13.1	Gradation	Table 400-3	1 test/200m <sup>3</sup>	850	850	0	345	25	15	25	15	0	0	875	875	0	360
13.2	Aggregate Impact Value	IS:2386 (Part4)	1 test/1000m <sup>3</sup>	509	509	0	204	18	10	18	10	0	0	527	527	0	214
13.3	Flakiness & Elongation index	IS:2386 (Part1)	1 test/500m <sup>3</sup>	523	523	0	190	18	10	18	10	0	0	541	541	0	200
13.4	Atterberg Limits	IS:2720 (Part5)	1 test/200m <sup>3</sup>	813	813	0	311	25	15	25	15	0	0	838	838	0	326
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	32	32	0	30	1	1	1	1	0	0	33	33	0	31
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 Sqm/3 pits	1870	1870	0	1029	66	13	66	13	0	0	1936	1936	0	1042
<b>14.0 Dense Bituminous Macadam (Grade - II)</b>																	
14.1	Bitumen Extraction & Gradation		1 Test/400MT	516	516	0	241	9	7	9	7	0	0	525	525	0	248
14.2	Combined Gradation	Table 500 - 18, Grad.II	1 Test/400MT	503	503	0	218	9	7	9	7	0	0	512	512	0	225
14.3	Individual Gradation Sets	Table 500 - 18, Grad.II	1 Test/400MT	502	502	0	221	9	7	9	7	0	0	511	511	0	228
14.4	Flakiness & Elongation index	MoRT&H Table 900 - 4	1 test/350m <sup>3</sup>	322	322	0	145	5	4	5	4	0	0	327	327	0	149
14.5	Aggregate Impact Value	MoRT&H Table 900 - 4	1 test/350m <sup>3</sup>	369	369	0	165	5	4	5	4	0	0	374	374	0	169
14.6	Marshall Density	ASTM D 2726	1 Set/400MT	537	537	0	244	9	7	9	7	0	0	546	546	0	251
14.7	GMM	MoRT&H Table 900 - 4	1 Test/400MT	508	508	0	230	9	7	9	7	0	0	517	517	0	237
14.8	DBM Core Cutting	MoRT&H Table 900 - 4	1 Test/700M <sup>2</sup>	1495	1495	0	868	31	31	31	31	0	0	1526	1526	0	899
<b>Bitumen test (VG-40)</b>																	
14.9	Softening Point	IS:1205 - 1978	1 Test/ 1 lot	253	253	0	116	4	2	4	2	0	0	257	257	0	118
14.10	Penetration	IS:1205 - 1978	1 Test/ 1 lot	253	253	0	116	4	2	4	2	0	0	257	257	0	118
14.11	Viscosity	IS:1205 - 1978	1 Test/ 1 lot	253	253	0	116	4	2	4	2	0	0	257	257	0	118



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								Concessi onaire	IE	Concessi onaire	IE	Concessi onaire	IE				
<b>15.0 Bituminous Concrete (Grade - II) PMB MCW</b>																	
15.1	Bitumen Extraction & Gradation	IRC SP 11	1 Test/400MT	295	295	0	169	2	2	2	2	0	0	297	297	0	171
15.2	Combined Gradation	Table 500 - 17, Grad.II	1 Test/400MT	295	295	0	183	2	2	2	2	0	0	297	297	0	185
15.3	Individual Gradation Sets	Table 500 - 17, Grad.II	1 Test/400MT	295	295	0	183	2	2	2	2	0	0	297	297	0	185
15.4	Flakiness & Elongation index	MoRT&H Table 900 - 4	1 test/350m <sup>3</sup>	147	147	0	84	1	1	1	1	0	0	148	148	0	85
15.5	Aggregate Impact Value	MoRT&H Table 900 - 4	1 test/350m <sup>3</sup>	149	149	0	86	1	1	1	1	0	0	150	150	0	87
15.6	Marshall Density	ASTM D 2726	1 Set/400MT	291	291	0	158	2	2	2	2	0	0	293	293	0	160
15.7	GMM	MoRT&H Table 900 - 4	1 Test/400MT	294	294	0	161	2	2	2	2	0	0	296	296	0	163
15.8	BC Core Cutting	MoRT&H Table 900 - 4	1 Test/700M <sup>2</sup>	1104	1104	0	569	8	8	8	8	0	0	1112	1112	0	577
<b>16.0 Bituminous Concrete (Grade - II) VG-40 S/R</b>																	
16.1	Bitumen Extraction & Gradation	IRC SP 11	1 Test/400MT	76	76	0	37	0	0	0	0	0	0	76	76	0	37
16.2	Combined Gradation	Table 500 - 17, Grad.II	1 Test/400MT	73	73	0	36	0	0	0	0	0	0	73	73	0	36
16.3	Individual Gradation Sets	Table 500 - 17, Grad.II	1 Test/400MT	73	73	0	36	0	0	0	0	0	0	73	73	0	36
16.4	Flakiness & Elongation index	MoRT&H Table 900 - 4	1 test/350m <sup>3</sup>	42	42	0	23	0	0	0	0	0	0	42	42	0	23
16.5	Aggregate Impact Value	MoRT&H Table 900 - 4	1 test/350m <sup>3</sup>	42	42	0	23	0	0	0	0	0	0	42	42	0	23
16.6	Marshall Density	ASTM D 2726	1 Set/400MT	73	73	0	36	0	0	0	0	0	0	73	73	0	36
16.7	GMM	MoRT&H Table 900 - 4	1 Test/400MT	73	73	0	36	0	0	0	0	0	0	73	73	0	36
16.8	BC Core Cutting	MoRT&H Table 900 - 4	1 Test/700M <sup>2</sup>	258	258	0	158	0	0	0	0	0	0	258	258	0	158
<b>Bitumen test (PMB)</b>																	
16.9	Softening Point	IS:1205 - 1978	1 Test/ 1 lot	172	172	0	73	1	1	1	1	0	0	173	173	0	74
16.10	Elastic recovery	IS:15462 - 2019	1 Test/ 1 lot	172	172	0	73	1	1	1	1	0	0	173	173	0	74
<b>17.0 Prime Coat</b>																	
17.0	Rate of Spread of Binder		Three tests per day	1117	1117	0	482	27	15	27	15	0	0	1144	1144	0	497
<b>17.1 Emulsion Test (SS-1)</b>																	
17.1	Say bolt Viscometer	IS:8887-2004	1 Test/ 1 lot	26	26	0	19	0	0	0	0	0	0	26	26	0	19
<b>17.2 Tack Coat</b>																	
17.2	Rate of Spread of Binder		Three tests per day	1553	1553	0	558	21	15	21	15	0	0	1574	1574	0	573
<b>17.3 Emulsion Test (RS-1)</b>																	
17.3	Say bolt Viscometer	IS:8887-2004	1 Test/ 1 lot	16	16	0	13	0	0	0	0	0	0	16	16	0	13
<b>18.0 Fine Aggregate (MoRT&amp;H 1008)</b>																	
18.1	Gradation/ Sieve analysis	IS:2386 (Part1)	1 test per day	2418	2418	0	852	30	15	30	15	0	0	2448	2448	0	867
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	2276	2276	0	780	30	15	30	15	0	0	2306	2306	0	795
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

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								Concessi onaire	IE	Concessi onaire	IE	Concessi onaire	IE				
<b>19.0 Coarse Aggregate (MoRT&amp;H 1007)</b>																	
19.1	Gradation	IS:2386 (Part1)	1 test per day	2332	2332	0	852	30	15	30	15	0	0	2362	2362	0	867
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	591	591	0	284	6	4	6	4	0	0	597	597	0	288
19.4	Flakiness index	IS:2386 (Part1)	1 test / each source & monthly	556	556	0	267	6	4	6	4	0	0	562	562	0	271
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
<b>20.0 Cement (MoRT&amp;H 1006)</b>																	
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	632	632	0	299	6	4	6	4	0	0	638	638	0	303
20.3	Normal Consistency	IS:4031 (Part4)	Every batch	604	604	0	299	6	4	6	4	0	0	610	610	0	303
20.4	Initial & Final setting time	IS:4031 (Part5)	Every batch	604	604	0	299	6	4	6	4	0	0	610	610	0	303
20.5	Soundness of Cement	IS:4031 (Part3)	Every batch	548	548	0	265	6	4	6	4	0	0	554	554	0	269
20.6	Compressive Strength-set	IS:4031 (Part6)															
	3 days		1 test per Lot	564	564	0	249	6	3	6	3	0	0	570	570	0	252
	7 days		1 test per Lot	557	557	0	249	5	1	5	1	0	0	562	562	0	250
	28 days		1 test per Lot	554	554	0	235	4	3	4	3	0	0	558	558	0	238
<b>21.0 Concrete Cube Strength</b>																	
<b>M15 PCC</b>																	
	7Days Compressive Strength	MoRT&H Sec. 1700	MoRT&H Sec. 1700 No of sets	884	884	0	301	13	1	13	1	0	0	897	897	0	302
	28Days Compressive Strength			1447	1447	0	634	14	8	14	8	0	0	1461	1461	0	642
<b>M20 KERB</b>																	
	7Days Compressive Strength	MoRT&H Sec. 1700	MoRT&H Sec. 1700 No of sets	356	356	0	83	6	2	6	2	0	0	362	362	0	85
	28Days Compressive Strength			918	918	0	218	0	0	0	0	0	0	918	918	0	218
<b>M20 RCC</b>																	
	7Days Compressive Strength	MoRT&H Sec. 1700	MoRT&H Sec. 1700 No of sets	493	493	0	136	19	14	19	14	0	0	512	512	0	150
	28Days Compressive Strength			927	927	0	276	30	12	30	12	0	0	957	957	0	288
<b>M20 PCC</b>																	
	7Days Compressive Strength	MoRT&H Sec. 1700	MoRT&H Sec. 1700 No of sets	44	44	0	19	0	0	0	0	0	0	44	44	0	19
	28Days Compressive Strength			57	57	0	23	0	0	0	0	0	0	57	57	0	23
<b>M25 RCC</b>																	
	7Days Compressive Strength	MoRT&H Sec. 1700	MoRT&H Sec. 1700 No of sets	82	82	0	22	0	0	0	0	0	0	82	82	0	22
	28Days Compressive Strength			142	142	0	83	4	1	4	1	0	0	146	146	0	84
<b>M30 RCC</b>																	
	7Days Compressive Strength	MoRT&H Sec. 1700	MoRT&H Sec. 1700 No of sets	922	922	0	324	7	1	7	1	0	0	929	929	0	325
	28Days Compressive Strength			1530	1530	0	610	12	9	12	9	0	0	1542	1542	0	619

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								Concessi onaire	IE	Concessi onaire	IE	Concessi onaire	IE				
<b>M30 RCC PUMPABLE</b>																	
	7Days Compressive Strength	MoRT&H Sec. 1700	MoRT&H Sec. 1700 No of sets	209	209	0	86	8	2	8	2	0	0	217	217	0	88
	28Days Compressive Strength			498	498	0	256	26	12	26	12	0	0	524	524	0	268
<b>M35 RCC</b>																	
	7Days Compressive Strength	MoRT&H Sec. 1700	MoRT&H Sec. 1700 No of sets	417	417	0	195	1	1	1	1	0	0	418	418	0	196
	28Days Compressive Strength			860	860	0	442	0	0	0	0	0	0	860	860	0	442
<b>M35 PILING</b>																	
	7Days Compressive Strength	MoRT&H Sec. 1700	MoRT&H Sec. 1700 No of sets	1019	1019	0	537	0	0	0	0	0	0	1019	1019	0	537
	28Days Compressive Strength			3004	3004	0	1638	0	0	0	0	0	0	3004	3004	0	1638
<b>M35 RCC PUMPABLE</b>																	
	7Days Compressive Strength	MoRT&H Sec. 1700	MoRT&H Sec. 1700 No of sets	1421	1421	0	591	4	3	4	3	0	0	1425	1425	0	594
	28Days Compressive Strength			4263	4263	0	2109	50	42	50	42	0	0	4313	4313	0	2151
<b>M35 RE BLOCK</b>																	
	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
<b>M40 PUMP &amp; M40 RCC</b>																	
	7Days Compressive Strength	MoRT&H Sec. 1700	MoRT&H Sec. 1700 No of sets	1039	1039	0	394	18	4	18	4	0	0	1057	1057	0	398
	28Days Compressive Strength			2273	2273	0	946	32	18	32	18	0	0	2305	2305	0	964
<b>M40 PQC</b>																	
	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
<b>M40 PILING</b>																	
	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
<b>M45 PUMP</b>																	
	7Days Compressive Strength	MoRT&H Sec. 1700	MoRT&H Sec. 1700 No of sets	442	442	0	189	5	1	5	1	0	0	447	447	0	190
	28Days Compressive Strength			1130	1130	0	447	2	1	2	1	0	0	1132	1132	0	448
<b>M50 RCC PUMP</b>																	
	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
<b>M60 PUMP</b>																	
	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

**CONSUMPTION OF BORROW AREA (UPTO 30/06/2023)**

S.NO	B/A NO.	Chainage	Lead Form NH-45C	Side	Suitable For	Approved Qty In M <sup>3</sup>	Submission Letter No	Approved Letter No	Remark
1	1	Maruvay 61+090	1.5 km	LHS	EMB	18000	<a href="#">PSCHPL/SCP/IE/2018/093</a>	<a href="#">TES/IE/SCP/PIL/2018/059</a>	Approved
2	1	61+090 LHS ( Maruvai ) EX - 01	1.5km	LHS	EMB	30000	<a href="#">PSCHPL/SCP/IE/2020/656</a>	<a href="#">TES/IE/SC/PIL/2020/470</a>	Approved
3	1	61+090 LHS ( Maruvai ) EX - 02	1.5 KM	LHS	EMB&SUBGRADE	30000	<a href="#">PSCHPL/SCP/IE/2020/656</a>	<a href="#">TES/IE/SC/PIL/2020/470</a>	Approved
4	1	61+090 LHS ( Maruvai ) EX - 03	1.5km	LHS	EMB	30000	<a href="#">PSCHPL/SCP/IE/2020/670</a>	<a href="#">TES/IE/SC/PIL/2020/477</a>	Approved
5	1	61+090 LHS ( Maruvai ) EX - 04	1.5km	LHS	EMB&SUBGRADE	30000	<a href="#">PSCHPL/SCP/IE/2020/679</a>	<a href="#">TES/IE/SC/PIL/2020/486</a>	Approved
6	1	61+090 LHS ( Maruvai ) EX - 05	1.5km	LHS	EMB	30000	<a href="#">PSCHPL/SCP/IE/2020/679</a>	<a href="#">TES/IE/SC/PIL/2020/486</a>	Approved
7	1	61+090 LHS ( Maruvai ) EX - 06	1.5km	LHS	EMB	45000	<a href="#">PSCHPL/SCP/IE/2020/683</a>	<a href="#">TES/IE/SC/PIL/2020/500</a>	Approved
8	2	106+350 RHS Kodali	4.0 km	RHS	EMB	18000	<a href="#">PSCHPL/SCP/IE/2018/084</a>	<a href="#">TES/IE/SCP/PIL/2018/061</a>	Approved
9	2	106+350 RHS ( Kodali ) EX - 01	4.0 km	RHS	EMB	30000	<a href="#">PSCHPL/SCP/IE/2020/670</a>	<a href="#">TES/IE/SC/PIL/2020/477</a>	Approved
10	2	106+350 RHS ( Kodali ) EX - 02	4.0 km	RHS	EMB	30000	<a href="#">PSCHPL/SCP/IE/2020/689</a>	<a href="#">TES/IE/SC/PIL/2020/490</a>	Approved
11	3	113+250 LHS Paalur	2.0 km	LHS	EMB	15000	<a href="#">PSCHPL/SCP/IE/2018/101</a>	<a href="#">TES/IE/SCP/PIL/2018/098</a>	Approved
12	4	113+250 LHS Kattanakaram	4.0 km	LHS	EMB	15000	<a href="#">PSCHPL/SCP/IE/2018/147</a>	<a href="#">TES/IE/SCP/PIL/2018/122</a>	Approved
13	5	113+250 LHS Manikudi	5.0 km	LHS	EMB	15000	<a href="#">PSCHPL/SCP/IE/2018/116</a>	<a href="#">TES/IE/SCP/PIL/2018/099</a>	Approved
14	6	112+250 RHS Ammiyapan	8.0 km	RHS	EMB	15000	<a href="#">PSCHPL/SCP/IE/2018/160</a>	<a href="#">TES/IE/SCP/PIL/2018/131</a>	Approved
15	7	80+500 RHS Palayan kottai	6.0 km	RHS	EMB	30000	<a href="#">PSCHPL/SCP/IE/2018/160</a>	<a href="#">TES/IE/SCP/PIL/2018/129</a>	Approved
16	7	80+500 RHS Palayan kottai EX-01	6.0 km	RHS	EMB	60000	<a href="#">PSCHPL/SCP/IE/2019/374</a>	<a href="#">TES/IE/SCP/PIL/2019/300</a>	Approved
17	7	80+500 RHS Palayan kottai EX-02	6.0 km	RHS	EMB	60000	<a href="#">PSCHPL/SCP/IE/2019/396</a>	<a href="#">TES/IE/SCP/PIL/2019/315</a>	Approved
18	7	80+500 RHS Palayan kottai EX-03	6.0 km	RHS	EMB&SUBGRADE	60000	<a href="#">PSCHPL/SCP/IE/2019/435</a>	<a href="#">TES/IE/SCP/PIL/2019/343</a>	Approved
19	7	80+500 RHS Palayan kottai EX-04	6.0 km	RHS	EMB&SUBGRADE	30000	<a href="#">PSCHPL/SCP/IE/2021/1005</a>	<a href="#">TES/IE/SC/PIL/2021/645</a>	Approved
20	7	80+500 RHS Palayan kottai EX-05	6.0 km	RHS	EMB&SUBGRADE	30000	<a href="#">PSCHPL/SCP/IE/2022/1083</a>	<a href="#">TES/IE/SC/PIL/2022/682</a>	Approved
21	7	80+500 RHS Palayan kottai EX-06	6.0 km	RHS	EMB&SUBGRADE	30000	<a href="#">PSCHPL/SCP/IE/2022/1101</a>	<a href="#">TES/IE/SC/PIL/2022/736</a>	Approved
22	7	80+500 RHS Palayan kottai EX-07	6.0 km	RHS	EMB&SUBGRADE	30000	<a href="#">PSCHPL/SCP/IE/2022/1107</a>	<a href="#">TES/IE/SC/PIL/2022/724</a>	Approved

23	7	80+500 RHS Palayan kottai EX-08	6.0 km	RHS	EMB	30000	<a href="#">PSCHPL/SCP/IE/2023/1449</a>	<a href="#">TES/IE/SC/PIL/2023/877</a>	
24	8	98+950 RHS Ponnery	5.0 km	RHS	EMB	30000	<a href="#">PSCHPL/SCP/IE/2019/302</a>	<a href="#">TES/IE/SCP/PIL/2019/247</a>	Approved
25	8	98+950 RHS Ponnery EX-01	5.0 km	RHS	EMB&SUBGRADE	30000	<a href="#">PSCHPL/SCP/IE/2019/488</a>	<a href="#">TES/IE/SCP/PIL/2019/386</a>	Approved
26	9	106+320 RHS (Uthayanatham)	3.0 km	RHS	EMB	25500	<a href="#">PSCHPL/SCP/IE/2019/302</a>	<a href="#">TES/IE/SCP/PIL/2019/247</a>	Approved
27	9	106+320 RHS (Uthayanatham EX-01)	3.0 km	RHS		15000	<a href="#">PSCHPL/SCP/IE/2019/472</a>	<a href="#">TES/IE/SCP/PIL/2019/365</a>	Approved
28	10	96+600 LHS (Pandianeery)	3.0 km	LHS	EMB	34500	<a href="#">PSCHPL/SCP/IE/2019/302</a>	<a href="#">TES/IE/SCP/PIL/2019/247</a>	Approved
29	10	96+600 LHS (Pandianeery) EX-01	3.0 km	LHS		30000	<a href="#">PSCHPL/SCP/IE/2019/345</a>	<a href="#">TES/IE/SCP/PIL/2018/268</a>	Approved
30	10	96+600 LHS (Pandianeery) EX-02	3.0 km	LHS	EMB& RE WALL	18000	<a href="#">PSCHPL/SCP/IE/2021/950</a>	<a href="#">TES/IE/SC/PIL/2021/630</a>	Approved
31	11	88+550 (Kaduvetti)	1.0 Km	LHS	EMB	25500	<a href="#">PSCHPL/SCP/IE/2019/335</a>		Approved
32	11	88+550 (Kaduvetti) EX - 01	1.0 Km	LHS	EMB&SUBGRADE	30000	<a href="#">PSCHPL/SCP/IE/2019/352</a>	<a href="#">TES/IE/SCP/PIL/2019/280</a>	Approved
33	12	90+500 Puthueary	7.0 Km	RHS	EMB&SUBGRADE	30000	<a href="#">PSCHPL/SCP/IE/2019/390</a>	<a href="#">TES/IE/SCP/PIL/2019/307</a>	Approved
34	12	90+500 Puthueary EX-01	7.0 Km	RHS	RE WALL	30000	<a href="#">PSCHPL/SCP/IE/2019/510</a>		
35	12	90+500 Puthueary EX-02	7.0 Km	RHS	EMB&SUBGRADE	30000	<a href="#">PSCHPL/SCP/IE/2020/750</a>		
36	13	87+900 Andi Madam	12.0 Km	RHS	Using For Filter Media				
37	14	87+900 Vilanthai	8.0 km	RHS					
38	15	87+600 Velaneary	4.0 km	RHS	EMB	18000	<a href="#">PSCHPL/SCP/IE/2019/387</a>	<a href="#">TES/IE/SCP/PIL/2019/302</a>	Approved
39	16	82+900 Aandi Palayam	2.0 Km	RHS	EMB	18000	<a href="#">PSCHPL/SCP/IE/2019/381</a>	<a href="#">TES/IE/SCP/PIL/2019/299</a>	Approved
40	16	82+900 Aandi Palayam EX-01	2.0 Km	RHS	RE WALL	36000	<a href="#">PSCHPL/SCP/IE/2019/501</a>	<a href="#">TES/IE/SC/PIL/2019/390</a>	Approved
41	16	82+900 Aandi Palayam EX-02	2.0 Km	RHS	SUBGRADE& RE WALL	30000	<a href="#">PSCHPL/SCP/IE/2020/758</a>	<a href="#">TES/IE/SC/PIL/2020/528</a>	Approved
42	16	82+900 Aandi Palayam EX-03	2.0 Km	RHS	SUBGRADE& RE WALL	30000	<a href="#">PSCHPL/SCP/IE/2021/937</a>	<a href="#">TES/IE/SC/PIL/2021/626</a>	Approved
43	16	82+900 Aandi Palayam EX-04	2.0 Km	RHS	SUBGRADE& RE WALL	45000	<a href="#">PSCHPL/SCP/IE/2021/977</a>	<a href="#">TES/IE/SC/PIL/2021/637</a>	Approved
44	16	82+900 Aandi Palayam EX-05	2.0 Km	RHS	SUBGRADE& RE WALL	30000	<a href="#">PSCHPL/SCP/IE/2022/1126</a>	<a href="#">TES/IE/SC/PIL/2022/740</a>	Approved
45	16	82+900 Aandi Palayam EX-06	2.0 Km	RHS	SUBGRADE& RE WALL	30000	<a href="#">PSCHPL/SCP/IE/2022/1139</a>	<a href="#">TES/IE/SC/PIL/2022/749</a>	Approved
46	16	82+900 Aandi Palayam EX-07	2.0 Km	RHS	SUBGRADE& RE WALL	30000	<a href="#">PSCHPL/SCP/IE/2022/1217</a>	<a href="#">TES/IE/SC/PIL/2022/797</a>	Approved
47	16	82+900 Aandi Palayam EX-08	2.0 Km	RHS	SUBGRADE& RE WALL	30000	<a href="#">PSCHPL/SCP/IE/2023/1418</a>	<a href="#">TES/IE/SC/PIL/2023/866</a>	Approved

48	17	94+400 kundaveli East	1.0 Km	LHS	EMB	30000	<a href="#">PSCHPL/SCP/IE/2019/408</a>	<a href="#">TES/IE/SC/PIL/2019/320</a>	Approved
49	18	83+000 Vanamadevi	1.0 Km	LHS	EMB	15000	<a href="#">PSCHPL/SCP/IE/2019/397</a>	<a href="#">TES/IE/SC/PIL/2019/314</a>	Approved
50	19	101+900 Thaluthalai Medu	1.0 Km	RHS	EMB	30000	<a href="#">PSCHPL/SCP/IE/2019/422</a>	<a href="#">TES/IE/SC/PIL/2019/355</a>	Approved
51	20	110+100 Athipakkam	6.0 km	RHS	EMB	15000	<a href="#">PSCHPL/SCP/IE/2019/452</a>	<a href="#">TES/IE/SC/PIL/2019/354</a>	Approved
52	21	103+200 Vembankudi	0.5 Km	LHS	SUBGRADE& RE WALL	30000	<a href="#">PSCHPL/SCP/IE/2019/463</a>	<a href="#">TES/IE/SC/PIL/2019/362</a>	Approved
53	21	103+200 Vembankudi EX-01	0.5 Km	LHS	SUBGRADE& RE WALL	22500	<a href="#">PSCHPL/SCP/IE/2020/717</a>	<a href="#">TES/IE/SC/PIL/2020/504</a>	Approved
54	21	103+200 Vembankudi EX-02	0.5 Km	LHS	SUBGRADE& RE WALL	30000	<a href="#">PSCHPL/SCP/IE/2020/775</a>	<a href="#">TES/IE/SC/PIL/2020/538</a>	Approved
55	22	97+300 Muthuservamadam	2.0 Km	RHS	EMB	30000	<a href="#">PSCHPL/SCP/IE/2019/447</a>	<a href="#">TES/IE/SC/PIL/2019/349</a>	Approved
56	23	80+500 Kandiyankuppam	15.00	RHS	EMB&SUBGRA DE	30000	<a href="#">PSCHPL/SCP/IE/2019/561</a>	<a href="#">TES/IE/SC/PIL/2019/418</a>	Approved
57	23	80+500 Kandiyankuppam EX - 01	15.00	RHS	EMB&SUBGRA DE	30000	<a href="#">PSCHPL/SCP/IE/2020/626</a>	<a href="#">TES/IE/SC/PIL/2020/452</a>	Approved
58	23	80+500 Kandiyankuppam EX - 02	15.00	RHS	EMB&SUBGRA DE	30000	<a href="#">PSCHPL/SCP/IE/2021/812</a>	<a href="#">TES/IE/SC/PIL/2021/555</a>	Approved
59	23	80+500 Kandiyankuppam EX - 03	15.00	RHS	EMB&SUBGRA DE	30000	<a href="#">PSCHPL/SCP/IE/2021/845</a>	<a href="#">TES/IE/SC/PIL/2021/576</a>	Approved
60	24	106+900 Karaikuruchi	20.00	RHS	EMB	15000	<a href="#">PSCHPL/SCP/IE/2020/636</a>	<a href="#">TES/IE/SC/PIL/2020/453</a>	Approved
61	24	106+900 Karaikuruchi EX - 01	20.00	RHS	SUBGRADE	30000	<a href="#">PSCHPL/SCP/IE/2020/691</a>	<a href="#">TES/IE/SC/PIL/2020/491</a>	Approved
62	24	106+900 Karaikuruchi EX - 02	20.00	RHS	SUBGRADE	30000	<a href="#">PSCHPL/SCP/IE/2021/961</a>	<a href="#">TES/IE/SC/PIL/2021/632</a>	Approved
63	24	106+900 Karaikuruchi EX - 03	20.00	RHS	SUBGRADE	30000	<a href="#">PSCHPL/SCP/IE/2021/1018</a>	<a href="#">TES/IE/SC/PIL/2021/654</a>	Approved
64	25	90+500 RHS (IDAIPALLAM)	6.00	LHS	EMB	15000	<a href="#">PSCHPL/SCP/IE/2020/637</a>	<a href="#">TES/IE/SC/PIL/2020/454</a>	Approved
65	25	90+500 RHS (IDAIPALLAM) EX-01	6.00	RHS	EMB&SUBGRA DE	30000	<a href="#">PSCHPL/SCP/IE/2020/640</a>	<a href="#">TES/IE/SC/PIL/2020/469</a>	Approved
66	26	98+900 LHS ( kommedu )	19.00	RHS	RE WALL	30000	<a href="#">PSCHPL/SCP/IE/2020/661</a>	<a href="#">TES/IE/SC/PIL/2020/472</a>	Approved
67	27	91+400RHS ( pappakudi )	0.80	RHS	EMB	15000	<a href="#">PSCHPL/SCP/IE/2020/657</a>	<a href="#">TES/IE/SC/PIL/2020/471</a>	Approved
68	28	92+600 RHS Chokalingapuram	0.70	RHS	EMB&SUBGRA DE	30000	<a href="#">PSCHPL/SCP/IE/2020/676</a>	<a href="#">TES/IE/SC/PIL/2020/471</a>	Approved
69	28	92+600 RHS Chokalingapuram EX-01	0.70	RHS	SUBGRADE	30000	<a href="#">PSCHPL/SCP/IE/2020/838</a>	<a href="#">TES/IE/SC/PIL/2020/568</a>	Approved
70	28	92+600 RHS Chokalingapuram EX-02	0.70	RHS	SUBGRADE	30000	<a href="#">PSCHPL/SCP/IE/2022/1165</a>	<a href="#">TES/IE/SC/PIL/2022/779</a>	Approved
71	29	90+580 RHS Irudhayapuram	10.00	RHS	EMB	15000	<a href="#">PSCHPL/SCP/IE/2020/711</a>	<a href="#">TES/IE/SC/PIL/2020/501</a>	Approved
72	30	80+500 RHS Keelpathi	6.00	RHS	EMB & SUBGRADE	15000	<a href="#">PSCHPL/SCP/IE/2020/711</a>	<a href="#">TES/IE/SC/PIL/2020/501</a>	Approved

73	30	80+500 RHS Keelpathi EX - 1	6.00	RHS	EMB & SUBGRADE	30000	<a href="#">PSCHPL/SCP/IE/2021/926</a>	<a href="#">TES/IE/SC/PIL/2021/618</a>	Approved
74	30	80+500 RHS Keelpathi EX - 2	6.00	RHS	EMB & SUBGRADE	30000	<a href="#">PSCHPL/SCP/IE/2021/927</a>	<a href="#">TES/IE/SC/PIL/2021/619</a>	Approved
75	31	87+600 RHS Thirukalappur	10.00	RHS	SUBGRADE	30000	<a href="#">PSCHPL/SCP/IE/2020/717</a>	<a href="#">TES/IE/SC/PIL/2020/504</a>	Approved
76	32	106+300 RHS Keelnatham	35.00	RHS	SUBGRADE& RE WALL	30000	<a href="#">PSCHPL/SCP/IE/2020/725</a>	<a href="#">TES/IE/SC/PIL/2020/505</a>	Approved
77	33	87+600 RHS Thathur	10.00	RHS	EMB& RE WALL	30000	<a href="#">PSCHPL/SCP/IE/2020/736</a>	<a href="#">TES/IE/SC/PIL/2020/511</a>	Approved
78	35	115+250 RHS KADAMPANKUDI	6.00	RHS	EMB& RE WALL	30000	<a href="#">PSCHPL/SCP/IE/2020/812</a>		
79	36	Thirukalapur kuppam	7.00	RHS	SUB & RE WALL	30000	<a href="#">PSCHPL/SCP/IE/2020/838</a>	<a href="#">TES/IE/SC/PIL/2020/569</a>	Approved
80	36	Thirukalapur kuppam Ex - 1	7.00	RHS	SUB & RE WALL	30000	<a href="#">PSCHPL/SCP/IE/2021/887</a>	<a href="#">TES/IE/SC/PIL/2021/598</a>	Approved
81	36	Thirukalapur kuppam Ex - 2	7.00	RHS	SUB & RE WALL	30000	<a href="#">PSCHPL/SCP/IE/2021/936</a>	<a href="#">TES/IE/SC/PIL/2021/625</a>	Approved
82	37	Manalmedu(109+350)	10.00	RHS	EMB	18000	<a href="#">PSCHPL/SCP/IE/2021/844</a>	<a href="#">TES/IE/SC/PIL/2021/574</a>	Approved
83	38	Melur ( 98+900 )	18.00	RHS	SUB & RE WALL	30000	<a href="#">PSCHPL/SCP/IE/2021/847</a>	<a href="#">TES/IE/SC/PIL/2021/578</a>	Approved
84	38	Melur ( 98+900 ) EX - 1	18.00	RHS	SUB & RE WALL	30000	<a href="#">PSCHPL/SCP/IE/2021/886</a>	<a href="#">TES/IE/SC/PIL/2021/599</a>	Approved
85	39	Thirukalapur South (87+600 )	10.00	RHS	EMB	18000	<a href="#">PSCHPL/SCP/IE/2021/853</a>	<a href="#">TES/IE/SC/PIL/2021/584</a>	Approved
86	40	Kaduvetti (88+750)	0.5KM	RHS	EMB & RE Wall Median filling	30000	<a href="#">PSCHPL/SCP/IE/2021/954</a>	<a href="#">TES/IE/SC/PIL/2021/631</a>	Approved
87	41	Simustnam	17KM	RHS	SUB GRADE & RE WALL	30000	<a href="#">PSCHPL/SCP/IE/2022/1062</a>	<a href="#">TES/IE/SC/PIL/2022/669</a>	Approved
88	41	Simustnam (ex-01)	17KM	RHS	SUB GRADE & RE WALL	30000	<a href="#">PSCHPL/SCP/IE/2022/1086</a>	<a href="#">TES/IE/SC/PIL/2022/686</a>	Approved
89	41	Simustnam (ex-02)	17KM	RHS	SUB GRADE & RE WALL	30000	<a href="#">PSCHPL/SCP/IE/2022/1102</a>	<a href="#">TES/IE/SC/PIL/2022/717</a>	Approved
90	41	Simustnam (ex-03)	17KM	RHS	SUB GRADE & RE WALL	30000	<a href="#">PSCHPL/SCP/IE/2022/1118</a>	<a href="#">TES/IE/SC/PIL/2022/784</a>	Approved
91	41	Simustnam (ex-04)	17KM	RHS	SUB GRADE & RE WALL	30000	<a href="#">PSCHPL/SCP/IE/2022/1201</a>	<a href="#">TES/IE/SC/PIL/2022/803</a>	Approved
92	42	Silal	12KM	RHS	EMB	18000	<a href="#">PSCHPL/SCP/IE/2022/1139</a>	<a href="#">TES/IE/SC/PIL/2022/746</a>	Approved
93	43	Kodangudi	44KM	RHS	EMB,SUB	30000	<a href="#">PSCHPL/SCP/IE/2022/1170</a>	<a href="#">TES/IE/SC/PIL/2022/783</a>	Approved
94	44	Stahampadi	41KM	RHS	RE WALL	30000	<a href="#">PSCHPL/SCP/IE/2023/1300</a>	<a href="#">TES/IE/SC/PIL/2023/828</a>	Approved
1571	44	Stahampadi EX-01	41KM	RHS	RE WALL	30000	<a href="#">PSCHPL/SCP/IE/2023/1571</a>		



96	45	Suthamalli	43KM	RHS	EMB	30000	<a href="#">PSCHPL/SCP/IE/2023/1376</a>	<a href="#">TES/IE/SC/PIL/2023/850</a>	Approved
97	45	Suthamalli EX-01	43KM	RHS	EMB	30000	<a href="#">PSCHPL/SCP/IE/2023/1473</a>	<a href="#">TES/IE/SC/PIL/2023/888</a>	Approved
98	46	Kulathoor	24KM	RHS	RE WALL	30000	<a href="#">PSCHPL/SCP/IE/2023/1498</a>	<a href="#">TES/IE/SC/PIL/2023/889</a>	Approved
99	47	Paravathipuram	3KM	RHS	RE WALL	30000	<a href="#">PSCHPL/SCP/IE/2023/1506</a>	<a href="#">TES/IE/SC/PIL/2023/891</a>	Approved
<b>FLYASH CONSUMPTION (UPTO 30/06/2023)</b>									
1	1	FLYASH Ex-01	30 Km	LHS	RE WALL	25500	<a href="#">PSCHPL/SCP/IE/2018/122</a>	<a href="#">TES/IE/SC/PIL/2018/101</a>	Approved
2	2	FLYASH EX-02	30 Km	LHS		25500	<a href="#">PSCHPL/SCP/IE/2019/303</a>	<a href="#">TES/IE/SC/PIL/2019/255</a>	Approved
3	3	FLYASH EX-03	30 Km	LHS		30000			
4	4	FLYASH EX-04	30 Km	LHS		30000	<a href="#">PSCHPL/SCP/IE/2019/448</a>	<a href="#">TES/IE/SC/PIL/2019/350</a>	Approved
5	5	FLYASH EX-05	30 Km	LHS		45000	<a href="#">PSCHPL/SCP/IE/2019/489</a>	<a href="#">TES/IE/SC/PIL/2019/385</a>	Approved
6	6	FLYASH EX-06	30 Km	LHS		30000	<a href="#">PSCHPL/SCP/IE/2019/518</a>	<a href="#">TES/IE/SC/PIL/2019/400</a>	Approved
7	7	FLYASH EX-07	30 Km	LHS		30000	<a href="#">PSCHPL/SCP/IE/2019/570</a>	<a href="#">TES/IE/SC/PIL/2019/430</a>	Approved
8	8	FLYASH EX-08	30 Km	LHS		30000	<a href="#">PSCHPL/SCP/IE/2019/571</a>	<a href="#">TES/IE/SC/PIL/2019/431</a>	Approved
9	9	FLYASH EX-09	30 Km	LHS		30000	<a href="#">PSCHPL/SCP/IE/2020/728</a>	<a href="#">TES/IE/SC/PIL/2020/512</a>	Approved
10	10	FLYASH EX-10	30 Km	LHS		30000	<a href="#">PSCHPL/SCP/IE/2020/761</a>	<a href="#">TES/IE/SC/PIL/2020/527</a>	Approved
11	11	FLYASH EX-11	30 Km	LHS		30000	<a href="#">PSCHPL/SCP/IE/2021/814</a>	<a href="#">TES/IE/SC/PIL/2021/554</a>	Approved
12	12	FLYASH EX-12	31 Km	LHS		30000	<a href="#">PSCHPL/SCP/IE/2021/828</a>	<a href="#">TES/IE/SC/PIL/2021/558</a>	Approved
13	13	FLYASH EX-13	30 Km	LHS		30000	<a href="#">PSCHPL/SCP/IE/2021/846</a>	<a href="#">TES/IE/SC/PIL/2021/577</a>	Approved
14	14	FLYASH EX-14	31 Km	LHS		30000			
15	15	FLYASH EX-15	31 Km	LHS		30000	<a href="#">PSCHPL/SCP/IE/2021/919</a>	<a href="#">TES/IE/SC/PIL/2021/613</a>	Approved
16	16	FLYASH EX-16	32 Km	LHS		30000	<a href="#">PSCHPL/SCP/IE/2021/917</a>	<a href="#">TES/IE/SC/PIL/2021/612</a>	Approved
17	17	FLYASH EX-17	32 Km	LHS		30000	<a href="#">PSCHPL/SCP/IE/2021/949</a>	<a href="#">TES/IE/SC/PIL/2021/629</a>	Approved
18	18	FLYASH EX-18	32 Km	LHS		45000	<a href="#">PSCHPL/SCP/IE/2021/960</a>	<a href="#">TES/IE/SC/PIL/2021/633</a>	Approved
19	19	FLYASH EX-19	32 Km	LHS		60000	<a href="#">PSCHPL/SCP/IE/2021/964</a>	<a href="#">TES/IE/SC/PIL/2021/634</a>	Approved
20	20	FLYASH EX-20	32 Km	LHS		45000	<a href="#">PSCHPL/SCP/IE/2022/1092</a>	<a href="#">TES/IE/SC/PIL/2022/690</a>	Approved
21	21	FLYASH EX-21	32 Km	LHS		30000	<a href="#">PSCHPL/SCP/IE/2023/1371</a>	<a href="#">TES/IE/SC/PIL/2023/846</a>	Approved

Four Lining of Sethiyahopu - Cholapuram 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	<a href="#">PSCCHPL/SCP/IE/2018/019</a>	<a href="#">TES/IE/SC/PIL/2018/034</a>	Approved
2	Cement	M/s Ramco Cements Limited, Chennai.	<a href="#">PSCCHPL/SCP/IE/2018/012</a>	<a href="#">TES/IE/SC/PIL/2018/005</a>	Approved
		M/s Dalmia Bharat Cement, Ariyalur	<a href="#">PSCCHPL/SCP/IE/2018/009</a>	<a href="#">TES/IE/SC/PIL/2018/006</a>	Approved
		M/s Ultratech	<a href="#">PSCCHPL/SCP/IE/2018/090</a>	<a href="#">TES/IE/SC/PIL/2018/060</a>	Approved
		M/s India Cement (Coremendal)	<a href="#">PSCCHPL/SCP/IE/2018/063</a>	<a href="#">TES/IE/SC/PIL/2018/040</a>	Approved
		M/s Chettinad Cement, Chennai.	<a href="#">PSCCHPL/SCP/IE/2018/009</a>	<a href="#">TES/IE/SC/PIL/2018/052</a>	Approved
		M/s Barathi Cement,	<a href="#">PSCCHPL/SCP/IE/2018/154</a>	<a href="#">TES/IE/SC/PIL/2018/128</a>	Approved
		M/s JSW Cement,	<a href="#">PSCCHPL/SCP/IE/2018/294</a>	<a href="#">TES/IE/SC/PIL/2018/257</a>	Approved
3	Steel	M/s Jindal Steel & Power Limited, New Delhi.	<a href="#">PSCCHPL/SCP/IE/2018/202</a>	<a href="#">TES/IE/SC/PIL/2018/010</a>	Approved
		M/s shyam Steel	<a href="#">PSCCHPL/SCP/IE/2018/202</a>	<a href="#">TES/IE/SC/PIL/2018/016</a>	Approved
		M/s Kamachi Industries limited, Chennai.	<a href="#">PSCCHPL/SCP/IE/2018/301</a>	<a href="#">TES/IE/SC/PIL/2018/056</a>	Approved
		M/s SAIL	<a href="#">PSCCHPL/SCP/IE/2018/202</a>	<a href="#">TES/IE/SC/PIL/2018/173</a>	Approved
		M/s VIZAG STEEL	<a href="#">PSCCHPL/SCP/IE/2018/202</a>	<a href="#">TES/IE/SC/PIL/2018/173</a>	Approved
		M/s Tata Steel Limited,	<a href="#">PSCCHPL/SCP/IE/2018/202</a>	<a href="#">TES/IE/SC/PIL/2018/173</a>	Approved
		M/s Essar Steel Ltd,	<a href="#">PSCCHPL/SCP/IE/2018/202</a>	<a href="#">TES/IE/SC/PIL/2018/173</a>	Approved
		M/s Electrosteel Steels Limited,	<a href="#">PSCCHPL/SCP/IE/2018/202</a>	<a href="#">TES/IE/SC/PIL/2018/173</a>	Approved
		M/s Agarwal Foundries pvt Limited,	<a href="#">PSCCHPL/SCP/IE/2019/516</a>	<a href="#">TES/IE/SC/PIL/2019/402</a>	Approved
4	HT strands	M/s Usha Martin Limited	<a href="#">PSCCHPL/SCP/IE/2018/286</a>	Factory visit Required	
		M/s D.P.Wires Limited	<a href="#">PSCCHPL/SCP/IE/2018/045</a>	<a href="#">PSCCHPL/SCP/IE/2018/028</a>	Approved
		M/s Kataria industries Pvt Ltd,	<a href="#">PSCCHPL/SCP/IE/2018/253</a>	<a href="#">TES/IE/SC/PIL/2018/213</a>	Approved
5	Prestressing Agency	M/s Dynamic Prestressing India Pvt. Ltd	<a href="#">PSCCHPL/SCP/IE/2018/059</a>	<a href="#">TES/IE/SC/PIL/2018/037</a>	Approved
6	Mechanical couplers	M/s Unitech couplers India (P) Ltd., Coimbatore.	<a href="#">PSCCHPL/SCP/IE/2018/018</a>	<a href="#">TES/IE/SC/PIL/2018/009</a>	Approved
		M/s Spplcetek India Pvt Ltd., Mumbai.	<a href="#">PSCCHPL/SCP/IE/2018/018</a>	Factory visit Required	
7	Chemical Admixture	M/s Fosroc, Bangalore	<a href="#">PSCCHPL/SCP/IE/2018/008</a>	<a href="#">TES/IE/SC/PIL/2018/003</a>	Approved
		M/s Kunal Conchem Pvt.Ltd, Faridabad	<a href="#">PSCCHPL/SCP/IE/2018/008</a>	<a href="#">TES/IE/SC/PIL/2018/067</a>	Approved
		M/s Rheoplast Technology Pvt. Ltd, Mumbai	<a href="#">PSCCHPL/SCP/IE/2018/008</a>	<a href="#">TES/IE/SC/PIL/2018/066</a>	Approved
		M/s BASF India Limited	<a href="#">PSCCHPL/SCP/IE/2018/072</a>	<a href="#">TES/IE/SC/PIL/2018/042</a>	Approved
		M/s Sika India Pvt Ltd,	<a href="#">PSCCHPL/SCP/IE/2018/272</a>	<a href="#">TES/IE/SC/PIL/2018/234</a>	Approved
		M/s B&B Specialities India Pvt Ltd,	<a href="#">PSCCHPL/SCP/IE/2018/233</a>	<a href="#">TES/IE/SC/PIL/2018/179</a>	Approved
		M/S CAC Pvt Ltd,	<a href="#">PSCCHPL/SCP/IE/2018/219</a>	<a href="#">TES/IE/SC/PIL/2018/180</a>	Approved
		M/s CBS Chemicals,	<a href="#">PSCCHPL/SCP/IE/2018/293</a>	<a href="#">TES/IE/SC/PIL/2018/256</a>	Approved
8	Curing Compound	M/s Kunal Conchem Pvt.Ltd, Faridabad	<a href="#">PSCCHPL/SCP/IE/2018/094</a>	<a href="#">TES/IE/SC/PIL/2018/067</a>	Approved
		M/s CBS Chemicals Pvt.Ltd, Faridabad	<a href="#">PSCCHPL/SCP/IE/2019/464</a>	<a href="#">TES/IE/SC/PIL/2019/369</a>	Approved
		M/s Indian Oil Corporation	<a href="#">PSCCHPL/SCP/IE/2018/061</a>	<a href="#">TES/IE/SC/PIL/2018/039</a>	Approved
		M/s IWL India Limited	<a href="#">PSCCHPL/SCP/IE/2018/073</a>	<a href="#">TES/IE/SC/PIL/2018/054</a>	Approved

9	Emulsion	M/s Hindustan Colas Private Limited	<a href="#">PSCHPL/SCP/IE/2018/062</a>	<a href="#">TES/IE/SC/PIL/2018/035</a>	Approved
		M/s Ooms Polymer Modified Bitumen Pvt Ltd,	<a href="#">PSCHPL/SCP/IE/2018/314</a>	<a href="#">TES/IE/SC/PIL/2018/254</a>	Approved
		M/s Tiki Tar and shell india pvt ltd	<a href="#">PSCHPL/SCP/IE/2020/674</a>	<a href="#">TES/IE/SC/PIL/2020/485</a>	Approved
10	Bitumen	M/s Indian Oil Corporation	<a href="#">PSCHPL/SCP/IE/2018/061</a>	<a href="#">TES/IE/SC/PIL/2018/039</a>	Approved
		M/s Hindustan Colas Private Limited	<a href="#">PSCHPL/SCP/IE/2018/282</a>	<a href="#">TES/IE/SC/PIL/2018/0238</a>	Approved
		M/s IWL India Limited	<a href="#">PSCHPL/SCP/IE/2018/073</a>	<a href="#">TES/IE/SC/PIL/2018/054</a>	Approved
		M/s Tiki Tar industries,	<a href="#">PSCHPL/SCP/IE/2018/250</a>	<a href="#">TES/IE/SC/PIL/2018/0215</a>	Approved
		M/s Ooms Polymer Modified Bitumen Pvt Ltd, (PMB )	<a href="#">PSCHPL/SCP/IE/2021/806</a>	Factory visit Required	
		M/s BITCOL Corporation india Pvt.Ltd	<a href="#">PSCHPL/SCP/IE/2021/920</a>	<a href="#">TES/IE/SC/PIL/2021/611</a>	Approved
		M/s Hincol (HCPL ) PMB 70 H10	<a href="#">PSCHPL/SCP/IE/2021/810</a>	<a href="#">TES/IE/SC/PIL/2021/557</a>	Approved
11	Mastic Ashphalt	M/s IWL India Limited	<a href="#">PSCHPL/SCP/IE/2018/073</a>	<a href="#">TES/IE/SC/PIL/2018/053</a>	Approved
12	Micro Silica	M/s Elkem South Asia pvt Ltd,	<a href="#">PSCHPL/SCP/IE/2018/201</a>	<a href="#">TES/IE/SC/PIL/2018/170</a>	Approved
13	Anti Stripping	M/s HCPL & Tiki Tar Pvt Ltd,	<a href="#">PSCHPL/SCP/IE/2019/495</a>	<a href="#">TES/IE/SC/PIL/2019/384</a>	Approved
14	Micro Fine	M/s Suyag Elements India Pvt Ltd	<a href="#">PSCHPL/SCP/IE/2020/614</a>	<a href="#">TES/IE/SC/PIL/2020/449</a>	Approved
15	Expansion Joint	M/s Kantaflex India Pvt Ltd	<a href="#">PSCHPL/SCP/IE/2020/784</a>	<a href="#">TES/IE/SC/PIL/2021/544</a>	Approved
		M/s Sanfield India Ltd	<a href="#">PSCHPL/SCP/IE/2020/781</a>	<a href="#">TES/IE/SC/PIL/2021/543</a>	Approved
		M/s Hercules Structural Systems Pvt Ltd	<a href="#">PSCHPL/SCP/IE/2020/782</a>	<a href="#">TES/IE/SC/PIL/2021/545</a>	Approved
16	Road Marking	M/s Solucio iffrasolutions Pvt	<a href="#">PSCHPL/SCP/IE/2021/894</a>	<a href="#">TES/IE/SC/PIL/2021/607</a>	Approved
17	Metal Beam CrashBarrier	M/s Roadshield Pvt	<a href="#">PSCHPL/SCP/IE/2021/893</a>	<a href="#">TES/IE/SC/PIL/2021/608</a>	Approved
18	TRAFFIC SIGN BOARDS	M/s S.N.I Infratech Pvt Ltd	<a href="#">PSCHPL/SCP/IE/2020/744</a>	<a href="#">TES/IE/SC/PIL/2020/744</a>	Approved
19	Elastomeric Bearings	M/s Polymer Products Pvt Ltd	<a href="#">PSCHPL/SCP/IE/2020/595</a>	<a href="#">TES/IE/SC/PIL/2020/451</a>	Approved
		M/s Sanfield India Ltd	<a href="#">PSCHPL/SCP/IE/2018/228,168</a>	<a href="#">TES/IE/SC/PIL/2019/205</a>	Approved
		M/s Ammenji Rubber pvt Ltd	<a href="#">PSCHPL/SCP/IE/2018/144</a>	<a href="#">TES/IE/SC/PIL/2018/127</a>	Approved
20	Highway Lighting	M/s PCP Powers pvt Ltd	<a href="#">PSCHPL/SCP/IE/2020/788</a>	<a href="#">TES/IE/SC/PIL/2021/542</a>	Approved
21	Road Studs	M/s 3M Indian Limited	<a href="#">PSCHPL/SCP/IE/2021/987</a>		

## 7. Weather Report - Meensurutti

Date	Temperature (°C)		Rainfall in mm	Humidity in %		Remarks
	Max	Min		Max	Min	
1-Jun-2023	40.2	32.7	0.00	70	40	Sunny
2-Jun-2023	39.9	31.8	0.00	72	41	Sunny
3-Jun-2023	40.6	32.5	0.00	64	42	Sunny
4-Jun-2023	41.2	31.9	0.00	67	40	Sunny
5-Jun-2023	40.9	32.0	0.00	64	42	Sunny
6-Jun-2023	41.2	30.1	0.00	75	40	Sunny
7-Jun-2023	40.9	31.5	0.00	70	41	Sunny
8-Jun-2023	41.8	31.6	0.00	72	43	Sunny
9-Jun-2023	40.7	31.5	0.00	68	44	Sunny
10-Jun-2023	41.2	32.6	0.00	55	43	Sunny
11-Jun-2023	40.8	31.9	0.00	57	40	Sunny
12-Jun-2023	41.3	32.1	22.00	58	42	Rainy
13-Jun-2023	40.9	29.9	0.00	72	41	Sunny
14-Jun-2023	41.0	31.0	0.00	68	42	Sunny
15-Jun-2023	41.8	30.9	0.00	64	41	Sunny
16-Jun-2023	42.0	32.5	0.00	62	40	Sunny
17-Jun-2023	37.2	31.8	0.00	62	46	Cloudy
18-Jun-2023	31.9	29.8	10.00	69	52	Rainy
19-Jun-2023	30.8	28.2	0.00	89	60	Cloudy
20-Jun-2023	31.2	28.4	0.00	95	62	Cloudy
21-Jun-2023	31.3	28.7	0.00	86	58	Sunny
22-Jun-2023	31.2	29.5	0.00	77	66	Sunny
23-Jun-2023	31.8	29.6	0.00	75	64	Sunny
24-Jun-2023	39.6	28.7	0.00	80	62	Sunny
25-Jun-2023	33.1	30.4	0.00	78	60	Sunny
26-Jun-2023	37.2	30.2	0.00	64	54	Sunny
27-Jun-2023	38.4	31.2	0.00	60	52	Sunny
28-Jun-2023	38.2	30.6	3.00	58	52	Rainy
29-Jun-2023	39.1	28.2	0.00	60	50	Sunny
30-Jun-2023	38.7	30.5	0.00	66	48	Sunny

Weather Report - Annakarai

Date	Temperature (°C)		Rainfall in mm	Humidity in %		Remarks
	Max	Min		Max	Min	
1-Jun-2023	40.4	32.9	0.00	72	41	Sunny
2-Jun-2023	39.7	32.2	0.00	71	40	Sunny
3-Jun-2023	40.2	32.7	0.00	68	43	Sunny
4-Jun-2023	41.7	32.1	0.00	69	40	Sunny
5-Jun-2023	41.5	32.3	4.00	68	42	Rainy
6-Jun-2023	41.1	31.1	0.00	71	44	Sunny
7-Jun-2023	40.7	30.9	0.00	70	40	Sunny
8-Jun-2023	39.9	31.2	0.00	72	42	Sunny
9-Jun-2023	40.2	30.6	0.00	69	44	Sunny
10-Jun-2023	41.1	32.4	0.00	66	45	Sunny
11-Jun-2023	40.7	31.8	0.00	67	41	Sunny
12-Jun-2023	41.6	32.4	21.00	64	44	Rainy
13-Jun-2023	40.9	29.9	0.00	69	41	Sunny
14-Jun-2023	41.2	31.6	0.00	68	43	Sunny
15-Jun-2023	41.6	30.7	0.00	65	40	Sunny
16-Jun-2023	42.2	32.6	0.00	66	43	Sunny
17-Jun-2023	39.9	31.6	0.00	62	46	Cloudy
18-Jun-2023	40.9	29.7	11.00	67	49	Rainy
19-Jun-2023	39.8	29.3	0.00	69	50	Cloudy
20-Jun-2023	38.6	28.4	0.00	66	47	Cloudy
21-Jun-2023	37.3	29.9	0.00	70	51	Sunny
22-Jun-2023	36.2	29.6	0.00	72	52	Sunny
23-Jun-2023	36.6	29.6	0.00	74	50	Sunny
24-Jun-2023	35.9	28.7	0.00	77	54	Sunny
25-Jun-2023	35.1	30.5	0.00	74	51	Sunny
26-Jun-2023	37.7	30.3	0.00	69	54	Sunny
27-Jun-2023	38.9	31.3	0.00	66	50	Sunny
28-Jun-2023	38.3	30.7	2.00	68	51	Rainy
29-Jun-2023	39.0	28.9	0.00	60	49	Sunny
30-Jun-2023	38.6	30.7	0.00	67	50	Sunny

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

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



Safety instructions given to labours at Ch. 107+400 (Major bridge)

## 9. Support required from NHAI

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

1. Additional land acquisition for the construction of bus bays/bus shelter, turning radius of major junctions along the project highways.
2. 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.
3. NOC from PWD/WRO, Govt. of Tamil Nadu for the 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
<b>TOTAL</b>			<b>1079.85</b>			

4. Removal/relocation of existing irrigation sluice and regulator at the following locations:-

Sl. No.	Chainage	Distance from PCL	Remarks/Action to be taken	Present Status
1	81+850	9.3m	To be shifted to edge of PROW	Deposit Amount remitted to PWD/WRO. Work in progress
2	81+870	1.8m	To be shifted to edge of PROW	
3	81+910	1.8m	To be shifted to edge of PROW	
4	82+010	1.8m	To be shifted to edge of PROW	
5	82+100	7.4m	To be shifted to edge of PROW	

5. Estimate for shifting of water supply utilities in Missing locations-Request Authority for earlier Approval.
6. Unprecedented/Unseasonal heavy rainfall within the project alignment affecting the construction activities and progress of work at site.

10. Important Events

Table 10.1. Details of Important Events

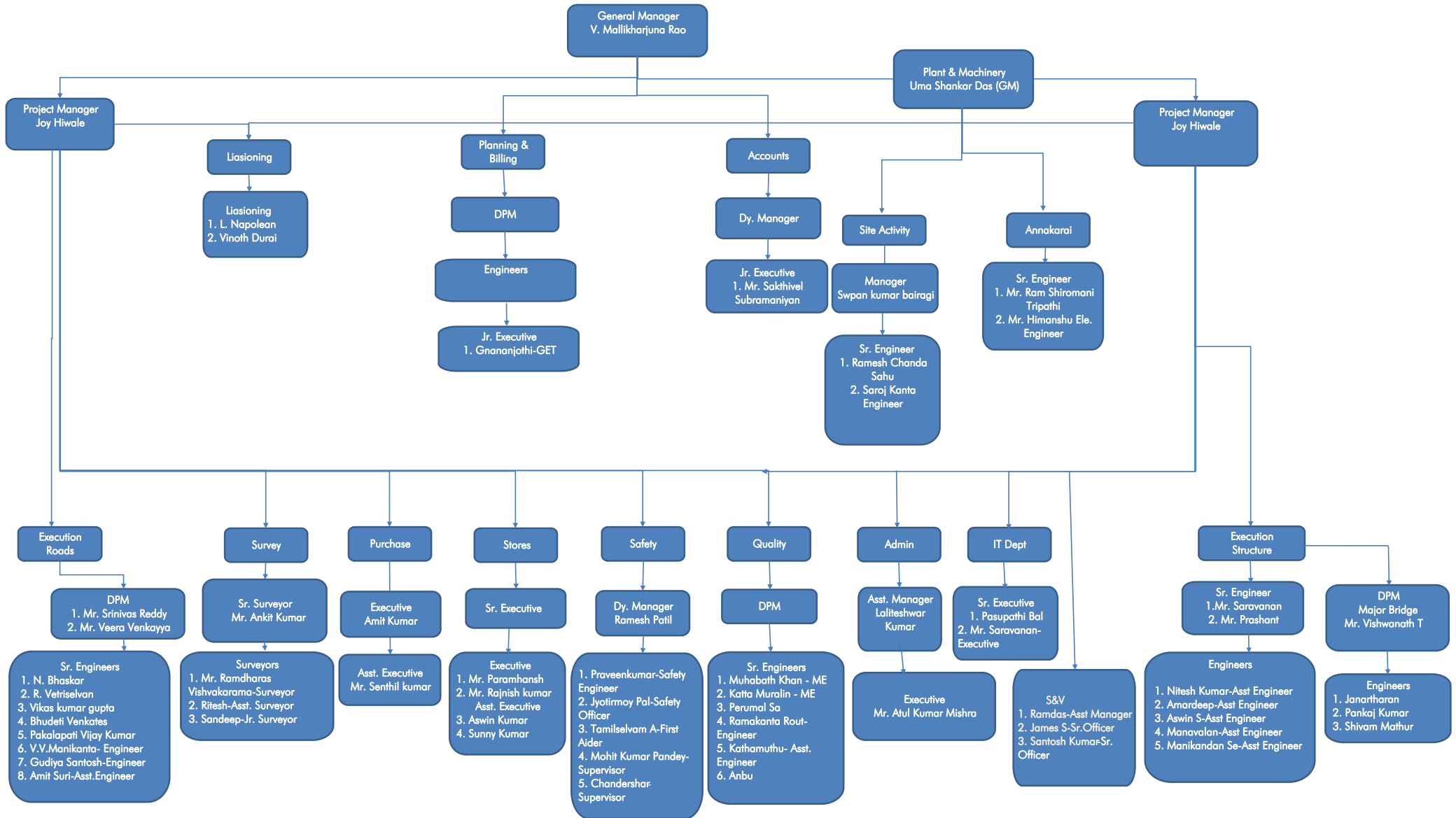
Sl. No	Date of Events	Description of Events	Remarks
1	05.06.2023 & 06.06.2023	Site visit by PD, NHAI, Thanjavur	



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

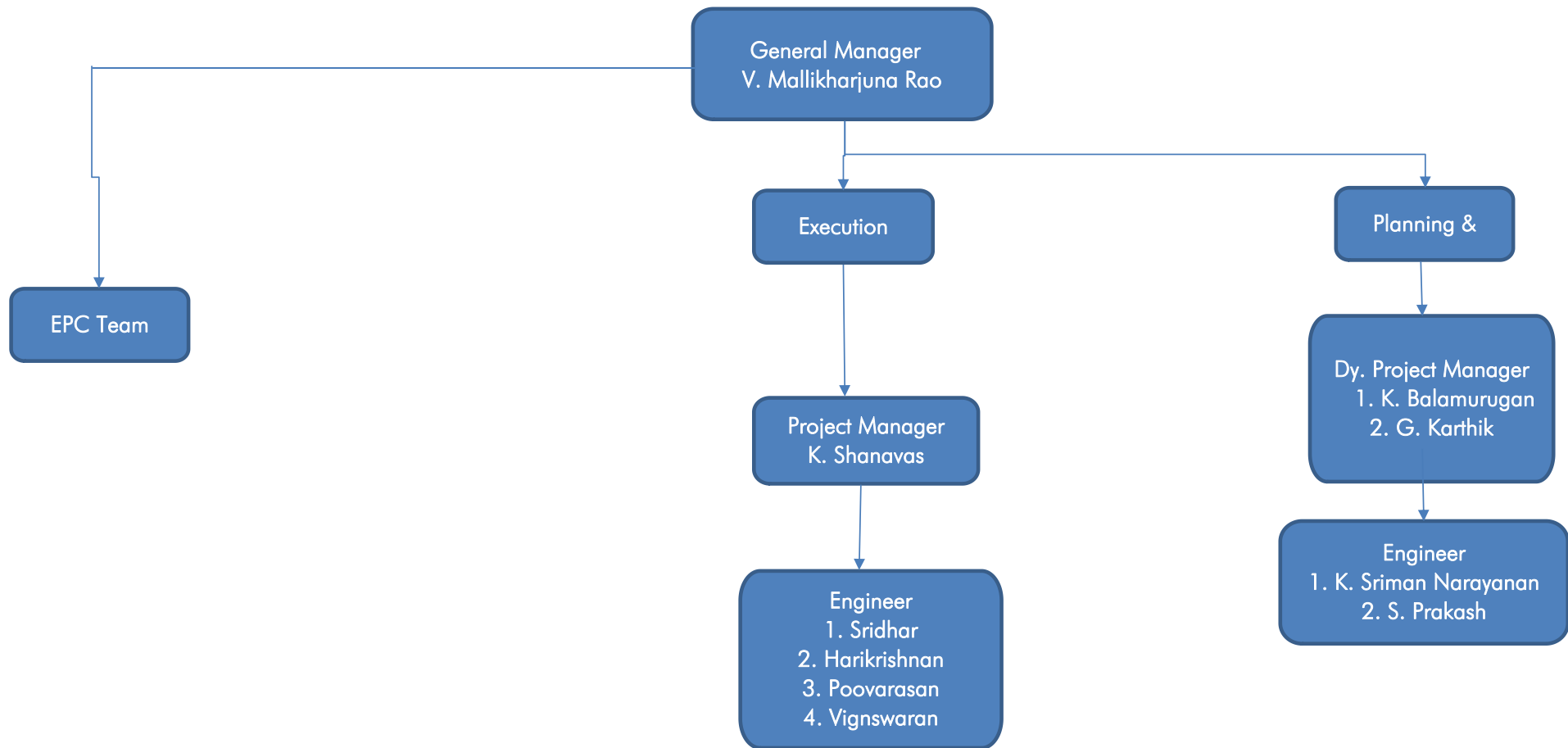


Table 12.1 Mobilization of Manpower

Sr. No.	Department	Manager	Engineer / Executive	Supervisor / Technician / Helper	Total	Remarks
A1	GENERAL MANAGER	2			2	
A2	SR/ PROJECT MANAGER	2			2	
B	<b>Project Management</b>					
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	<b>Project Execution</b>					
C.1	Road	1	13	6	20	
C.2	Structures	2	7	7	16	
C.3	Survey	1	2	2	5	
D	<b>Labours</b>			171	171	
	<b>Grand Total</b>	<b>22</b>	<b>59</b>	<b>447</b>	<b>528</b>	

### 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	

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 Strengthening/upgrade the incident Management Service.	NA	NA
3	Comprehensive –COS 02	20.08.2018	Approved	(-) 4.69 Cr.	23.06.2021
4	Additional work required to be done as per demand of local public	17.03.2023	Tentative cost estimate recommended by IE for obtaining the receipt of Change of Scope notice from the competent authority.	18.43 Cr. (Tentative cost as recommended by IE)	

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	07.06.2023	PSCHPL-HO-SCP-PIU-023-2023	Reimbursement of 50% Cost & Expenditure of IEs payment for the month of April 2023	
2	09.06.2023	PSCHPL/SCP/NHAI/2023/1551	Recording of drone video for May 2023	
3	09.06.2023	PSCHPL/SCP/NHAI/2023/1552	Submission of RA Bill-05 for recording of drone video-reg	
4	10.06.2023	PSCHPL/SCP/NHAI/2023/1555	Request to release interim payment of 3rd annuity on completion of PCC-2 (Completed length 35.240 Km out of 50.480 km)	
5	10.06.2023	PSCHPL/SCP/NHAI/2023/1556	Submission of RA Bill 14 for water pipeline shifting	
6	17.06.2023	PSCHPL/SCP/NHAI/2023/1565	Request to release balance payment of 3rd annuity on completion of PCC-02	
7	19.06.2023	PSCHPL/SCP/NHAI/2023/1568	Compliance for Internal Audit Observation for FY 2022-23 (HY-2) 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 14.2 - CORRESPONDANCE - NHAI TO CONCESSIONAIRE**

Sr. No.	Date	Letter No	Subject	Remarks
1	08.06.2023	NH-15017/16/2022 -PGM	Instructions in respect of preparatory arrangements ensuring monsoon 2023-24	
2	09.06.2023	NHAI/PIU/Thanj/11025/09/2018/1643	TWAD Weir RA Bill no.1 - Payment intimation	
3	09.06.2023	NHAI/PIU/Thanjavur/11025/11/2018/1642	Submission of compliance report for inspection notes of RO	
4	10.06.2023	NHAI/19011/01/2023/RO Madurai/917	MOM review meeting dated 04.05.2023-Action taken report sought-reg	
5	12.06.2023	NHAI/PIU/Thanjavur/11025/11/2018/1655	Extension of BG for mobilisation advance 1st installment	
6	14.06.2023	NHAI/14013/27/2022/RO Madurai/961	Celebration of Azadi ka Amrit Mahotsav-Road safety activities	
7	15.06.2023	NHAI/PIU/Thanj/11013/01/2021/1693	Internal audit observation for FY 2022-23-Reply	
8	16.06.2023	NHAI/PIU/Thanj/11025/09/2018/1715	Shifting of water supply utilities	
9	16.06.2023	NHAI/PIU/Thanj/11025/28/2019/1717	Drainage system adequacy-consent requested	
10	23.06.2023	NHAI/PIU/Thanj/11025/17/2018/1774	Mamangalam police checkpost with restroom to be reconstructed	

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	01.06.2023	PSCHPL/SCP/IE/2023/1529	Request to release 3rd annuity payment	
2	06.06.2023	PSCHPL/SCP/IE/2023/1544	Submission of Monthly Status & Management Report (O&M) report for May 2023	
3	06.06.2023	PSCHPL/SCP/IE/2023/1545	Submission of Monthly Progress Report for the month of May 2023	
4	08.06.2023	PSCHPL/SCP/IE/2023/1548	Submission of compliance report for the inspection notes of Sh. Ahay Bishnoi CGM (T), RO Madurai during site visit on PCC-2 stretches	
5	12.06.2023	PSCHPL/SCP/IE/2023/1559	Request to release interim payment of 3rd annuity on completion of PCC-2 stretches	
6	16.06.2023	PSCHPL/SCP/IE/2023/1564	Submission of PMS-04 and IPC-01 of PMS 05	
7	22.06.2023	PSCHPL/SCP/IE/2023/1571	Soil test report for the proposed BA - (BA No-44 Ex-01) Reg	
8	29.06.2023	PSCHPL/SCP/IE/2023/1579	Request to release 2nd biannual O&M payment	

**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	06.06.2023	TES/IE/SCP/NHAI/2023/600	IE monthly progress report for the month of May 2023-reg	
2	07.06.2023	TES/IE/SCP/NHAI/2023/601	Information sought under RTI-Report called for	
3	07.06.2023	TES/IE/SCP/NHAI/2023/602	3rd Biannual annuity-Recommendation of IE	
4	08.06.2023	TES/IE/SCP/NHAI/2023/603	Submission of compliance report for RO inspection notes	
5	09.06.2023	TES/IE/SCP/PIL/2023/905	Construction of Toll Plaza at Ch-116+100-reg	
6	12.06.2023	TES/IE/SCP/NHAI/2023/605	Recommendation of IE for 3rd Annuity payment	
7	16.06.2023	TES/IE/SCP/PIL/2023/906	Monthly Site Inspection	
8	16.06.2023	TES/IE/SCP/PIL/2023/907	Site Review Meeting-reg	
9	16.06.2023	TES/IE/SCP/NHAI/2023/1434	Proposal for issuance of Provisional certificate (PCC-02) -Reg	
10	17.06.2023	TES/IE/SCP/PIL/2023/908	IE Review and Comments on concessionaire MPR for the month of May 2023 – Reg.	
11	22.06.2023	TES/IE/SCP/NHAI/2023/607	Concessionaire's submission for release of 3rd Biannual Annuity as per Clause 23.6.3 & 23.7 of CA-Recommendation of Independent Engineer (IE) for Annuity Payment (100%) for the PCC-2 as per stipulations of SA	
12	22.06.2023	TES/IE/SCP/NHAI/2023/608	Submission of PMS 04 and IPC-01 of PMS-05- Recommendation for payment	
13	23.06.2023	TES/IE/SCP/PIL/2023/911	Submission of Revised D & D of RE wall of 2 nos of VUP located at CH 86+885 and CH 87+674	
14	23.06.2023	TES/IE/SCP/PIL/2023/912	Site Inspection Report-reg.	
15	24.06.2023	TES/IE/SCP/NHAI/2023/609	Internal Audit observation for the FY 2022 – 23 (HY – 2) – Reply – reg.	
16	24.06.2023	TES/IE/SCP/NHAI/2023/610	IE O&M Monthly Status Report for the month of May 2023-Reg.	
17	27.06.2023	TES/SCP/NHAI/2023/612	IE Inspection Report for the month of May 2023 – Reg	

## 16. Progress Photographs

Sl. No	Description	Location	Side	Remarks
1.	Slip road Embankment layer work in progress	111+130	LSR	Existing Road
2.	Slip road Subgrade layer work in progress	114+540	LSR	Existing Road



Sl. No	Description	Location	Side	Remarks
3.	CTSB Layer work in progress	115+160	LSR	Existing Road





Sl. No	Description	Location	Side	Remarks
4.	WMM Layer work in progress	87+300	RSR	Existing Road
5.	WMM Layer work in progress	86+990	LSR	Existing Road



Sl. No	Description	Location	Side	Remarks
6.	DBM Layer work in progress	115+160	LSR	Existing Road
7.	DBM Layer work in progress	86+740	RSR	Existing Road





Sl. No	Description	Location	Side	Remarks
8.	P.S.C. Girder launching work in progress	73+317	LHS	Major Bridge
9.	Foundation work in progress	95+200	LHS	PUP



Sl. No	Description	Location	Side	Remarks
10.	Box Segment launching work in progress between Span P19 – A2	107+400	LHS	Major Bridge



Sl. No	Description	Location	Side	Remarks
11.	Superstructure work in progress	73+317	RHS	Major Bridge

