

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  
FEBRUARY 2023

## Table of Content

Table of Content .....	02
List of Tables .....	03
List of Figures .....	04
Executive Summary .....	05
Project Synopsis .....	05
1. Background and Project Details .....	12
1.1. Project Overview.....	12
1.2. Salient Project Features .....	13
1.3. Contractual Project Milestones .....	14
1.4. Payment Milestones During Construction Period.....	15
1.5. Permits & Approvals.....	17
2. Right of Way Status .....	18
2.1. Land Acquisition .....	18
2.2. Removal of Religious Structures.....	21
2.3. Shifting of Utilities and Electrical HT/LT Lines .....	21
2.4. Tree felling.....	22
3. Progress Briefing – Contractor Activities .....	23
3.1. Pre-Construction Activities .....	23
4. Physical Progress of Work .....	24
4.1 Physical Progress of Work .....	24
5. Financial & Physical Progress of Work .....	60
6. Quality Control and Quality Assurance .....	63
6.1 List of Lab Equipment’s .....	63
6.2 Quality Control Test Summary .....	69
7. Weather Report.....	85
8. Safety.....	87
9. Support required from NHAI.....	88
10. Important Events.....	92
11. Organization Chart.....	93
12. Manpower details .....	96
13. List of Plants, Machinery and Equipments.....	97
14. Change of Scope Proposals .....	99
15. Details of Correspondences .....	100

16	Progress Photographs.....	105
<b>List of Tables</b>		
<hr/>		
Table 1.1:	Details of Project Alignment	08
Table 2.1-1:	Details of proposed ROW as per Schedule-A	18
Table 2.1-2:	Status of Land Acquisition	19
Table 2.1-3:	Compensation disbursement for land	19
Table 2.1-4:	Compensation disbursement for Structures	19
Table 2.1-5:	Details of Stretches proposed under descope	20
Table 2.2-1:	Status of Removal of Religious structures	21
Table 2.2-1:	Status of sanction of Estimates-Relocation of RWS Pipe Line	21
Table 2.3-1:	Status of sanction of Estimates- Electrical Lines Relocation	21
Table 2.3-2:	Status of Utility Relocation	21
Table 2.3-3:	Status of Tree Cutting	22
Table 3.1-1:	Status of Design and Drawings - Highway	23
Table 3.1-2:	Status of Design and Drawings - Structures	23
Table 4.1 :	Strip Chart for Highway Works	29
Table 4.2 - 1 :	Strip Chart for status of Box Culverts on Existing Road	48
Table 4.2 - 2 :	Strip Chart for status of Box Culverts on Bypass	50
Table 4.2 - 3 :	Strip Chart for status of MNB - Box	52
Table 4.2 - 4 :	Strip Chart for status of LVUP	54
Table 4.2 - 5 :	Strip Chart for status of MNB (> 15m Span)	55
Table 4.2 - 6 :	Strip Chart for status of MJB	56
Table 4.2 - 7 :	Strip Chart for status of FLYOVER	58
Table 4.2 - 8 :	Strip Chart for status of VUP	59
Table 6.1 - 1	QA/QC Lab Equipment at Annaikarai Lab	63
Table 6.1 - 2	QA/QC Lab Equipment at Meensurthy Lab	64
Table 6.2-1:	Summary of Quality Control Tests	70
Table 10.1 :	Details of Important Events	92
Table 12.1 –	Manpower Details	96
Table 13.1 -	List of Plants, Machinery and Equipment's	97
Table 14.1 -	Status of Change of Scope Proposals	99
Table 15.1. -	Concessionaire to NHAI	101
Table 15.2. -	NHAI to Concessionaire	102
Table 15.3. -	Concessionaire to Independent Engineer	103

Table 15.4. - Independent Engineer to Concessionaire	104
--	-----

## List of Figures

---

Figure 1 : Project Location Map	06
Figure 2 : Project Alignment Map	07
Figure 3a : Financial Progress - Planned vs Achieved	61
Figure 3b : Physical Progress - Planned vs Achieved	62
Figure 4 : Organization Chart - EPC Team	94
Figure 5 : Organization Chart - SPV Team	95

## Executive Summary

---

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

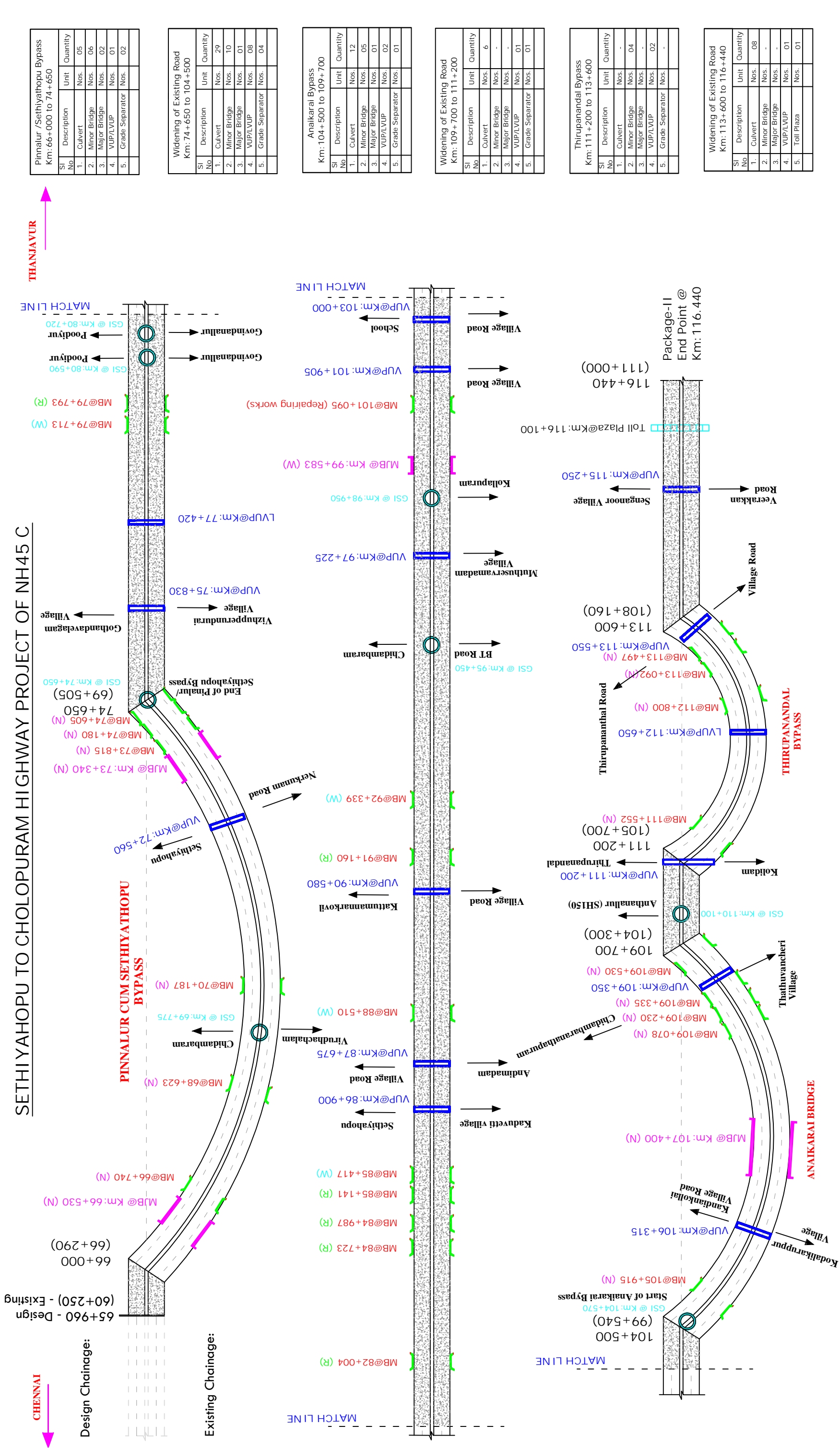
The Sethiyahopu to Cholopuram section of NH-45C is an important link to connect Metropolitan city of Chennai to religious and tourist places of Cholopuram, Thanjavur, kumbakonam, Puducherry. The project is also expected to provide improved connectivity to other religious places & other major cities like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

### Project Synopsis

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

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

Figure 2: Project Alignment Map



**LEGEND:**

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

**Salient Features of Project:**

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

**Drawing Title**

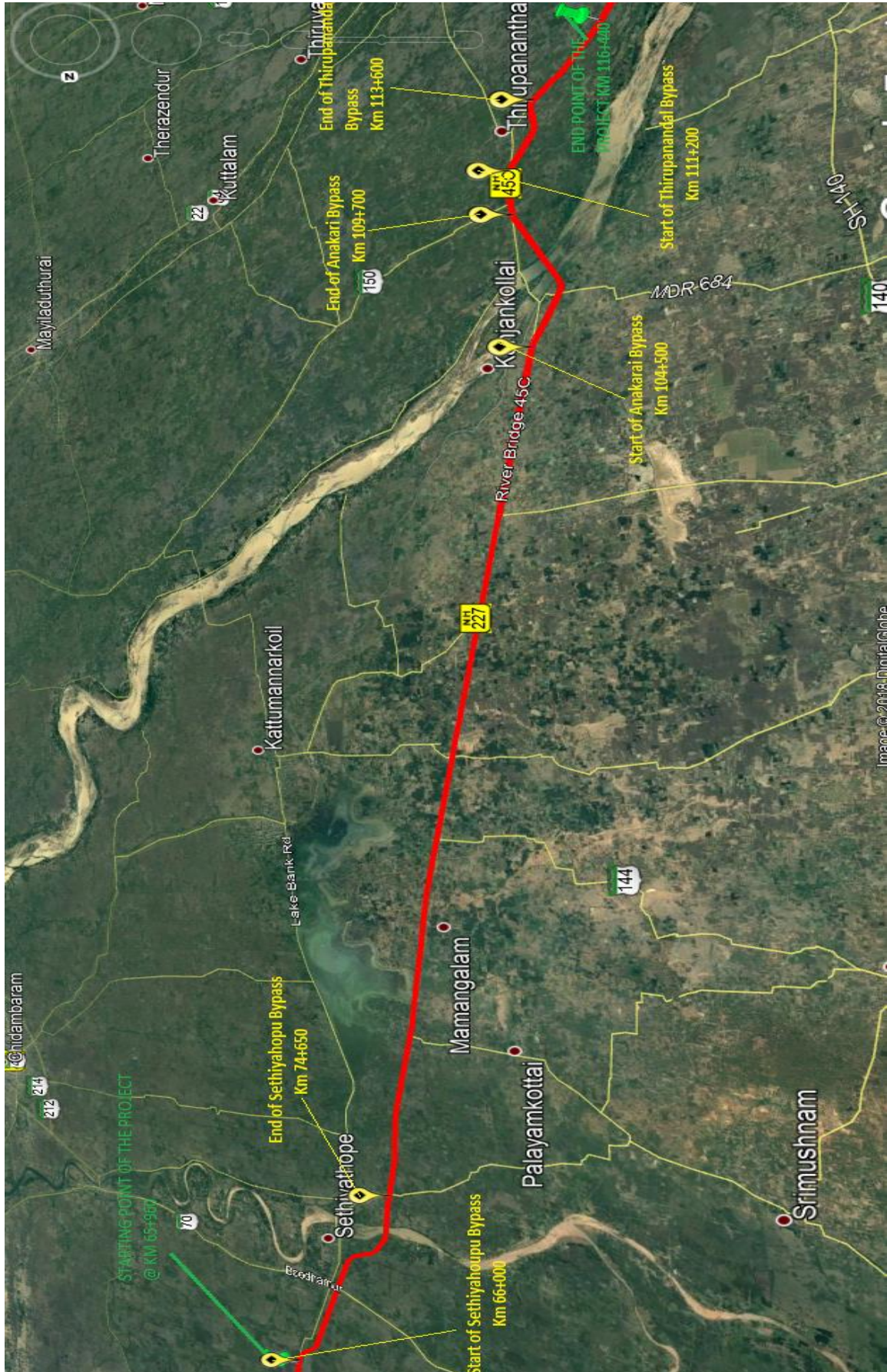
Strip Plan - Sethiyahopu to Cholapuram Highway Project

Date: 31-08-2018

Project No. PSCHP/NHA/TN/001



Figure 1: Project Location Map



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

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



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

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

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

## 1. Background and Project Details

### 1.1. Project Overview

<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 Resorts, 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>Maintenance Period</b>	15 years from COD



## 1.2. Salient Project Features

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

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

### 1.3. Contractual Project Milestones

Following is a listing of the Key Project Milestones:-

Mile Stone	Description	Target Dates as per CA	Revised Target Dates as per Settlement Agreement	Revised Target Dates recommended by PIU, NHAI considering EOT of 105 + 270 Days
Mile Stone -I	Concessionaire shall expended not less than 20 % of the Total capital cost and shall have commenced construction of the project and achieved 20% of physical progress on 214 <sup>th</sup> day from the Appointed Date.	18 <sup>th</sup> March 2019	➤ 31 <sup>st</sup> May'2021- Total 28.345 Km. four lane to be completed for PCOD-I.	➤ 13 <sup>th</sup> Sep'2021- Total 28.345 Km. four lane to be completed for PCOD-I (EOT of 105 days considered).
Mile Stone -II	Concessionaire shall expended not less than 35% of the Total capital cost and shall have commenced construction of the project and achieved 35% of physical progress on 334 <sup>th</sup> day from the Appointed Date.	16 <sup>th</sup> July 2019	➤ 30 <sup>th</sup> Nov'2021- Total 35.940 Km. four lane to be completed for PCOD-II.	➤ 28 <sup>th</sup> Feb'2023- Total 35.940 Km. four lane to be completed for PCOD-II (EOT of 105 + 270 days considered).
Mile Stone -III	Concessionaire shall expended not less than 75 % of the Total capital cost and shall have commenced construction of the project and achieved 75% of physical progress on 584 <sup>th</sup> day from the Appointed Date.	22 <sup>nd</sup> March 2020	➤ Balance 14.540 Km. four lane shall be handed over to the Concessionaire by 31 <sup>st</sup> May'2021 and shall be completed by 31 <sup>st</sup> July'2022.	➤ 10 <sup>th</sup> Aug'2023- Total 40.840 Km. four lane to be completed for PCOD-III (EOT of 105 + 270 days along with descope proposal in 9.640 Km length considered).
Sched uled Comp letion	Concessionaire shall have completed Project on 730 <sup>th</sup> day from the Appointed Date.	15 <sup>th</sup> August 2020		

Note: The Settlement Agreement has been signed between Concessionaire and Authority on 04.03.2021 with the target of completion of 28.345 Kms length by 31.05.2021, and further completion of additional 7.595 Kms length by 30.11.2021 i.e. up to Payment Date of 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.

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

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

Sr. No.	Description	Target	Achieved as on date	Remarks
1	Completion of 28.345 Kms by 31.05.2021	55.00% (803.60 Cr.)	70.64%	IE vide letter no. 1144 dated 02.06.2022 has issued the Provisional Completion Certificate-1 (PCC-1) for the completion of 28.345 Kms w.e.f. 10.12.2021.
2	Completion of 35.940 Kms (i.e. 28.345 Kms + 7.595 Kms) by 30.11.2021	72.25% (1055.57 Crore)		
3	Completion of balance 14.540 Kms by 31.07.2022	27.75% (405.43 crore)		

**1.4. Payment milestone during Construction Period**

Payment Mile Stone	Eligibility Criteria	Payment Amount (Rs.)	Claimed Amount (Rs.)	Date of release of payment
Mile Stone-I	On Achievement of 10% of Physical Progress	116.88 Crs.	110.94 Crs.	04.10.2019
Mile Stone-II	On Achievement of 30% of Physical Progress	116.88 Crs.	110.94 Crs.	25.09.2020
IPC No. 01 of Mile Stone-III (as per NHAI Policy Guidelines/Atmnirbhar Bharat)	On Achievement of 31.856% of Physical Progress	10.85 Crs.	10.29 Crs.	29.09.2020
IPC No. 02 of Mile Stone-III (as per NHAI Policy Guidelines/Atmnirbhar Bharat)	On Achievement of 32.758% of Physical Progress	5.27 Crs.	5.00 Crs.	10.11.2020
IPC No. 03 of Mile Stone-III (as per NHAI Policy Guidelines/Atmnirbhar Bharat)	On Achievement of 34.484% of Physical Progress	10.09 Crs.	9.57 Crs.	10.11.2020
IPC No. 04 of Mile Stone-III (as per NHAI Policy Guidelines/Atmnirbhar Bharat)	On Achievement of 35.144% of Physical Progress	3.86 Crs.	3.66 Crs.	10.12.2020

IPC No. 05 of Mile Stone-III (as per NHAI Policy Guidelines/Atmnirbhar Bharat)	On Achievement of 36.052% of Physical Progress	5.31 Crs.	5.04 Crs.	12.02.2021
IPC No. 06 of Mile Stone-III (as per NHAI Policy Guidelines/Atmnirbhar Bharat)	On Achievement of 37.886% of Physical Progress	10.72 Crs.	10.17 Crs.	18.03.2021
IPC No. 07 of Mile Stone-III (as per NHAI Policy Guidelines/Atmnirbhar Bharat)	On Achievement of 39.452% of Physical Progress	9.15 Crs.	8.69 Crs.	31.03.2021
IPC No. 08 of Mile Stone-III (as per NHAI Policy Guidelines/Atmnirbhar Bharat)	On Achievement of 40.979% of Physical Progress	8.92 Crs.	8.47 Crs.	10.05.2021
IPC No. 09 of Mile Stone-III (as per NHAI Policy Guidelines/Atmnirbhar Bharat)	On Achievement of 41.432% of Physical Progress	2.65 Crs.	2.51 Crs.	09.06.2021
IPC No. 10 of Mile Stone-III (as per NHAI Policy Guidelines/Atmnirbhar Bharat)	On Achievement of 43.429% of Physical Progress	11.67 Crs.	11.08 Crs.	16.07.2021
IPC No. 11 of Mile Stone-III (as per NHAI Policy Guidelines/Atmnirbhar Bharat)	On Achievement of 46.976% of Physical Progress	20.73 Crs.	19.67 Crs.	27.08.2021
IPC No. 12 of Mile Stone-III (as per NHAI Policy Guidelines/Atmnirbhar Bharat)	On Achievement of 49.966% of Physical Progress	17.47 Crs.	16.59 Crs.	20.09.2021
Payment Mile Stone-III & IPC No. 01 of Mile Stone-IV (as per NHAI Policy Guidelines/Atmnirbhar Bharat)	On achievement of 63.787% of physical progress	22.32 Crs.	21.20 Crs.	30.06.2022
IPC No. 02 of Mile Stone-IV (as per NHAI Policy Guidelines/Atmnirbhar Bharat)	On Achievement of 66.181% of physical progress	13.99 Crs.	13.28 Crs.	22.08.2022
IPC No. 03 of Mile Stone-IV (as per NHAI Policy Guidelines/Atmnirbhar Bharat)	On Achievement of 67.868% of physical progress	9.86 Crs.	9.36 Crs.	29.12.2022
IPC No. 04 of Mile Stone-IV (as per NHAI Policy Guidelines/Atmnirbhar Bharat)	On Achievement of 69.633% of physical progress	10.31 Crs.	9.79 Crs.	Correspondence related to payment intimation not received from the Authority.
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.	



### 1.5. Permits & Approvals

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

## 2. Right of Way Status

### 2.1. Land Acquisition

As per the Schedule – A of Concession Agreement, the Proposed Right of Way (ROW) is of 45, 52.50 & 60 meters as mentioned in the table below:-

Table 2.1-1: Details of proposed ROW as per Schedule-A				
	Design Chainage (Km)	Design Length (Km)	Width (m)	Remarks
<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	
<b>Total Length</b>		<b>50.480</b>		

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

Besides this, the Authority has to acquire additional land at Bus bays/Bus Shelter locations, turning radius at Minor & Major junctions. The location of Bus bays/Bus Shelter as per Schedule C of Concession Agreement is given below in the tabular form:-

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

Sl. No.	Description	Unit	Present Status	Remarks
A)	<b>Total Length of the Project Highway</b>	Km	<b>50.48</b>	
1	Use of Existing Road Portion	Km	34.23	
2	Proposed Bypass / Realignment portion	Km	16.25	
B)	<b>Hindered Length</b>			
1.	Hindrance towards existing building, payment pending, NOC from PWD/WRO, teak trees etc.,	Km	9.640	
2.	Hindrance due to Electrical Lines	Km		
3.	Hindrance due to Rural Water Supply lines	Km		
4.	Net Hindered Length (both Side)	Km	9.640	
C)	Total Project Length (both Side)	Km	50.480	
D)	<b>% Hindered Length</b>	<b>%</b>	<b>19.10%</b>	

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

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

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

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

Sl. No.	Name of the District	Total No. of structures	Amount paid (in Nos.)	Balance to be Paid (in Nos.)	Remarks
1	Cuddalore	383	333	50	
2	Ariyalur	461	433	28	
3	Thanjavur	148	96	52	
	<b>Total in Nos.</b>	<b>992</b>	<b>862</b>	<b>130</b>	
	<b>Total in %</b>		<b>86.89%</b>	<b>13.11%</b>	

The details of Stretches proposed under descope are mentioned below in the tabular form:-

Sr. No	Chainage		Length (km)	Length proposed under descope (km)	Side	Reason	Remarks
	From	To					
1	72.350	73.180	0.830	0.830	BHS	Local Villager's Problem	
2	75.520	76.150	0.630	0.630	BHS	Local Villager's Problem	
3	77.220	77.800	0.580	0.580	BHS	Local Villager's Problem	
4	80.100	81.150	1.050	1.050	BHS	Local Villager's Problem	
5	86.580	87.360	0.780	0.780	BHS	Local Villager's Problem	
6	87.360	87.990	0.630	0.630	BHS	Local Villager's Problem	
7	95.035	95.865	0.830	0.830	BHS	Local Villager's Problem	
8	98.500	99.400	0.900	0.900	BHS	Local Villager's Problem	
9	101.590	102.225	0.635	0.635	BHS	Local Villager's Problem	
10	109.035	109.700	0.665	0.665	BHS	Pond Ash Issue	
11	110.900	111.560	0.660	0.660	BHS	Pond Ash Issue	
12	113.225	113.850	0.625	0.625	BHS	Local Villager's Problem	
13	114.835	115.660	0.825	0.825	BHS	Pond Ash Issue	
<b>Total Length in Kms</b>				<b>9.640 Km</b>			



## 2.2. Removal of Religious Structures

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

Sl No.	Name of the District	Total No. of structures	Removed as on Date (in Nos.)	Balance (in Nos.)
1	Cuddalore	10	10	0
2	Ariyalur	10	10	0
3	Thanjavur	2	2	0
	<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 include a water supply line, hand pumps, overhead water tanks, besides Electrical lines, as shown in the table below.

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

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

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

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

**Table 2.3-3: Status of Utility Relocation**

Sl. No.	Authority	Description	Unit	Total Length/ Nos.	Work done	Balance	Remarks
1	BDO & EE,TWAD	Water Supply Pipe Line	Kms.	72.695	25.679	47.016	Work in progress
2	BDO of Concern Union	Hand Pump/Pump Room with Bore well	Nos.	24	16	8	
3	BDO of Concern Union	Over Head Tank	Nos.	15	13 Nos Completed	2	
4	TNEB	Electrical Lines	Kms.	6.83	5.78	1.05	
5	TNEB	Erection of HT Tower at Ch. 73+470	Nos.	2	2	0	

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

**2.4. Tree felling**

**Table 2.4-1: Status of Tree felling**

Sl. No.	Name of the District	Chainages			Effected Length in Kms.	Completed as on Date	Balance as on Date	Balance no. of Trees	Remarks
		From	To	Length in Km					
1	Cuddalore	65+960	86+440	20.48	6.535	6.535	0	0	
2	Ariyalur	86+440	106+860	20.42	8.385	8.385	0	0	
3	Thanjavur	106+860	116+440	9.58	2.515	2.515	0	0	
<b>Total</b>				<b>50.48</b>	<b>17.435</b>	<b>17.435</b>	<b>0</b>	<b>0</b>	

## 3.1. Pre-construction Activities

## Detailed Design &amp; Drawings

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

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

Sr No.	Description	Unit	Total Scope As per Sch. B	Design Submitted	Drawing Approved
1	Pavement Design	Km	50.48	50.48	50.48
2	Plan & Profile	Km	50.48	50.48	50.48
3	Typical Cross Sections	Type	7	7	7
4	Major Intersections	No	07	02	-
5	Minor Intersections	No	100	65	-
6	Toll Plaza (Typical Details)	No	01	01	-
7	Service Roads	Km	26.595	26.595	26.595

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

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

## 4.1. Physical Progress of Work:

The Progress of the Major works carried out at the site in the Month of February 2023 is as follows:-

CUMMULATIVE STATEMENTFor Main Carriageway

Sr. No.	Item 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	40.620	0.000	40.620	0.000	9.860	80.47%
	RHS	50.480	39.530	0.000	39.530	0.000	10.950	78.31%
2	<b>Embankment</b>							
	LHS	50.480	35.810	0.935	36.745	1.050	13.735	72.79%
	RHS	50.480	35.445	0.935	36.380	1.050	14.100	72.07%
3	<b>Subgrade</b>							
	LHS	50.480	34.842	1.768	36.610	0.135	13.870	72.52%
	RHS	50.480	34.892	1.488	36.380	0.000	14.100	72.07%
4	<b>GSB/ Cement Treated Sub Base</b>							
	LHS	50.480	34.560	1.565	36.125	0.000	14.355	71.56%
	RHS	50.480	34.474	1.741	36.215	0.000	14.265	71.74%
5	<b>Wet Mix Macadam</b>							
	LHS	50.480	34.510	1.605	36.115	0.000	14.365	71.54%
	RHS	50.480	34.384	1.811	36.195	0.000	14.285	71.70%
6	<b>Dense Bituminous Macadam</b>							
	LHS	50.480	34.510	1.605	36.115	0.000	14.365	71.54%
	RHS	50.480	34.384	1.811	36.195	0.000	14.285	71.70%
7	<b>Bituminous Concrete</b>							
	LHS	50.480	33.827	2.113	35.940	0.000	14.540	71.20%
	RHS	50.480	34.287	1.653	35.940	0.000	14.540	71.20%



**For Service Road**

Sr. No.	Item 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	32.045	0.42	32.465	0.000	20.725	61.04%
2	Sub grade	53.190	32.045	0.42	32.465	0.000	20.725	61.04%
3	GSB/ Cement Treated Base	53.190	31.985	0.42	32.405	0.000	20.785	60.92%
4	Wet Mix Macadam	53.190	31.530	0.705	32.235	0.000	20.955	60.60%
5	Dense Bitumen Macadam	53.190	31.060	0.955	32.015	0.000	21.175	60.19%
6	Bituminous Concrete	53.190	27.255	1.650	28.905	0.000	24.285	54.34%

**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	48.25	4.75	7.00	
2	Light Vehicular Underpass	2	1	1	0	
3	Vehicular Underpass	13	11.00	1.50	0.50	Balance 0.5 No. has been included under Negative Change of Scope.
4	Minor Bridges	25	24.50	0.50	0	
5	Major Bridge	4	2.00	2.00	0	
6	Flyover	8	5.50	1.50	1.00	Balance 1.00 No. has been included under Negative Change of Scope.

The Physical Progress of the Project up to February 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 February '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%	50.550	7.185%	
	(2) Granular work (sub-base, base, shoulders)						
	(a) GSB/ Cement Treated Base	Km	65.52	3.373%	50.520	2.601%	
	(b) WMM/ Cement Treated Base	Km	65.52	4.046%	50.490	3.118%	
	(3) Shoulders	Km	17.65	0.112%	17.150	0.109%	
	(4) Bituminous work	Km					
	(a) DBM	Km	65.52	3.344%	50.490	2.577%	
	(b) BC	Km	65.52	3.023%	50.080	2.311%	
	(5) Rigid Pavement						
	(6) Widening and repair of culverts	Nos.	16	0.440%	14.000	0.385%	
	(7) Widening and repair of minor bridges	Nos.	4	0.959%	4.000	0.959%	
	<b>B- New realignment/bypass</b>						
	(1) Earthwork up to top of the sub-grade	Km	28.68	6.437%	20.024	4.495%	
	(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%	14.660	0.067%	
	(4) Bituminous work						
	(a) DBM	Km	28.68	1.279%	20.024	0.893%	
	(b) BC	Km	28.68	1.158%	20.004	0.808%	
	(5) Rigid Pavement						
	<b>C- New culverts, minor bridges, underpasses, overpasses on existing road, realignments, bypasses:</b>						
	<b>(1) Culverts</b>	Nos.	44	2.070%	34.25	1.611%	
	<b>(2) Minor bridges</b>						
	(a) Foundation	Nos.	58	3.953%	57.50	3.919%	
	(b) Substructure	Nos.	134	2.623%	131.00	2.564%	
(c) Superstructure (including crash barrier etc. complete)	Nos.	50	1.559%	46.45	1.449%		
<b>(5) Grade separated structures</b>							

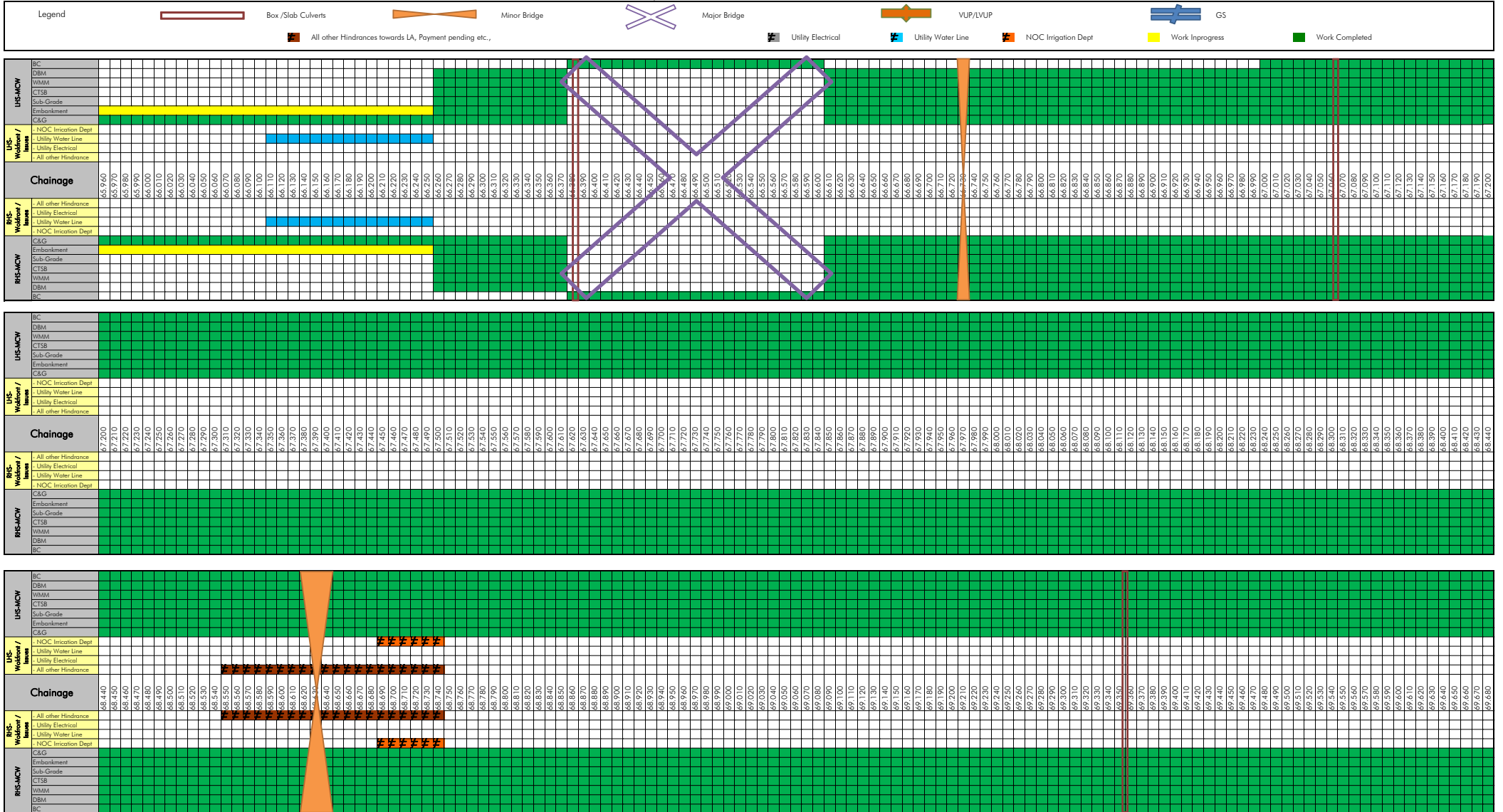
MPR FEBRUARY 2023

Major Bridge works and ROB/RU 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%	22.80	0.979%
	<b>(c) Flyover</b>					
	(i) Foundation	Nos.	36	2.426%	30.00	2.021%
	(ii) Substructure	Nos.	36	0.470%	29.00	0.379%
	(iii) Superstructure (including crash barrier etc. complete)	Nos.	20	1.244%	14.00	0.871%
	(d) Foot over Bridge					
	<b>C- New Major Bridges</b>					
	(1) Foundation					
	(a) Open Foundation					
	(b) Pile Foundation/ Well Foundation					
	(i) Pile Foundation	Nos.	84	9.699%	82.00	9.468%
	(2) Sub-structure	Nos.	84	4.576%	82.00	4.467%
	(3) Super-structure (including crash barriers etc. complete)					
	<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%	299.00	0.471%
	<b>(i) For other Major Bridges</b>					
	(a) Super-structure (including crash barriers etc. complete)	Nos.	37	2.500%	25.80	1.743%
	<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%			
Structure s (elevated sections, reinforce d earth)	<b>A- Elevated Structures</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- Reinforced earth Wall (includes Approaches of ROB, Underpasses, Overpasses, Flyover etc)</b>	Sqm	196027	7.604%	55,320	2.146%
Other Works	(i) Service roads/ Slip Roads	Km	53.19	4.690%	28.905	2.548%
	(ii) Toll Plaza	Nos.	1	1.821%		
	(iii) Road side drains	Km	28.85	5.429%	9.420	1.773%
	(iv) Road signs, markings, km stones, safety devices, ....					
	(a) Road signs, markings, km stones, ...	Km	100.96	2.558%	57.940	1.468%

(b) Concrete Crash Barrier/ W-Beam Crash Barrier in Road work						
(i) Concrete Crash Barrier	Km	26.5	1.179%	8.460	0.376%	
(ii) W-Beam Crash Barrier	Km	10.03	0.788%	2.856	0.224%	
<b>(v) Project facilities</b>						
(a) Bus Bays	No.	18	0.009%	4.000	0.002%	
(b) Truck Lay-byes	No.		0.000%			
(c) Rest areas	No.		0.000%			
<b>(vi) Repairs to bridges/structures</b>	Nos.					
<b>(vii) Road side plantation</b>	Km	23.66	0.451%	1.607	0.031%	
<b>(viii) Protection works</b>						
(a) Boulder pitching on slopes	Km	10.03	0.218%	2.856	0.062%	
(b) Toe/Retaining wall	Km	10.03	0.000%			
<b>(x) Miscellaneous</b>	Ls.	100%	0.164%			
<b>Total Progress</b>			<b>100.000%</b>		<b>70.64%</b>	

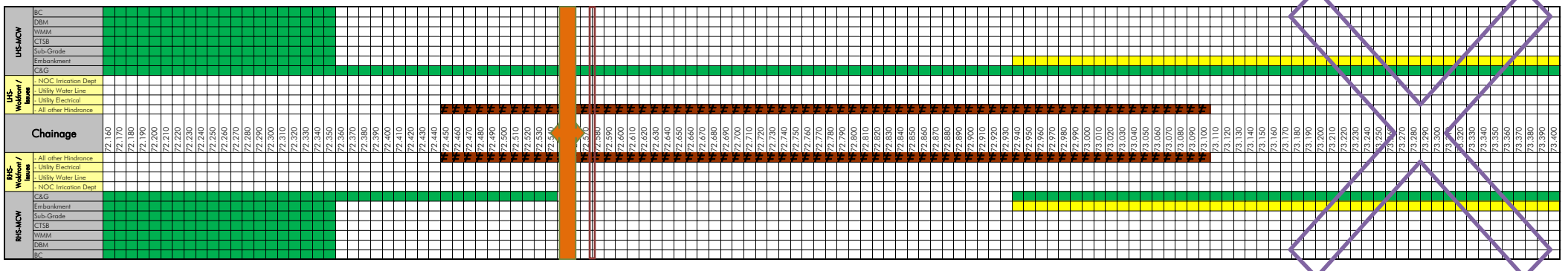
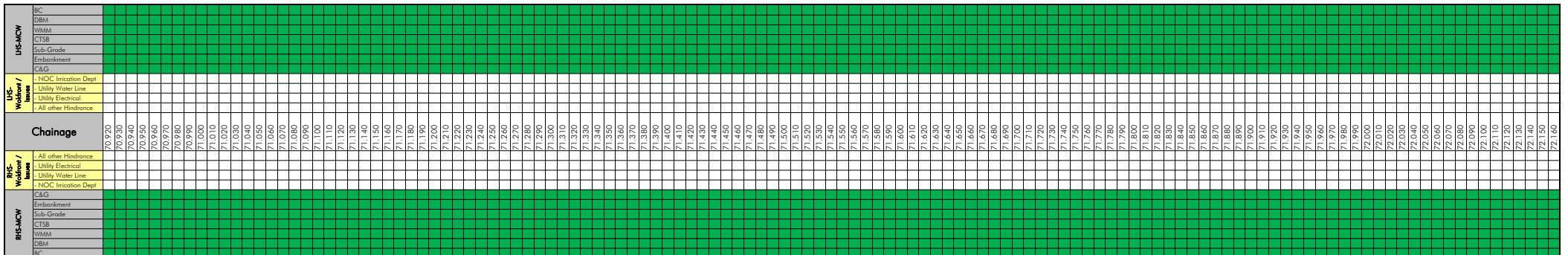
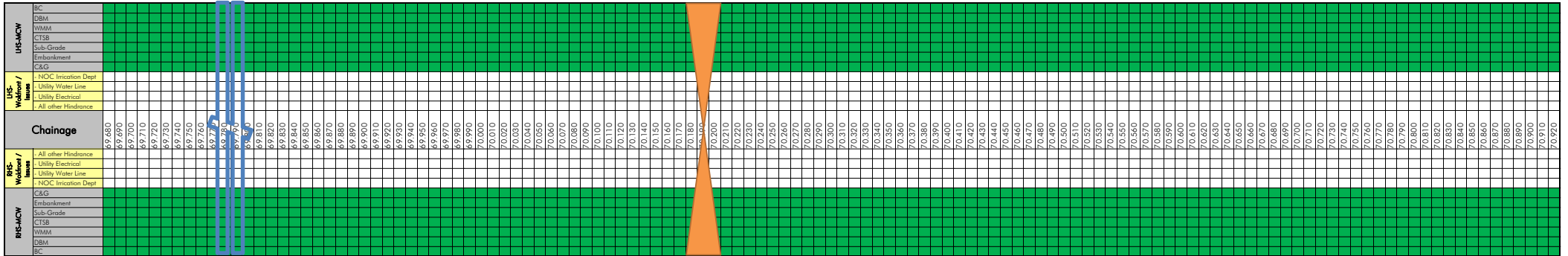
Four Laning of Sethiyahopu - Cholopuram from Km. 65.960 to Km. 116.440 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode.  
Sethiyahopu - Cholopuram Road Projects

Strip Plan for MCW as on 28.02.2023



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

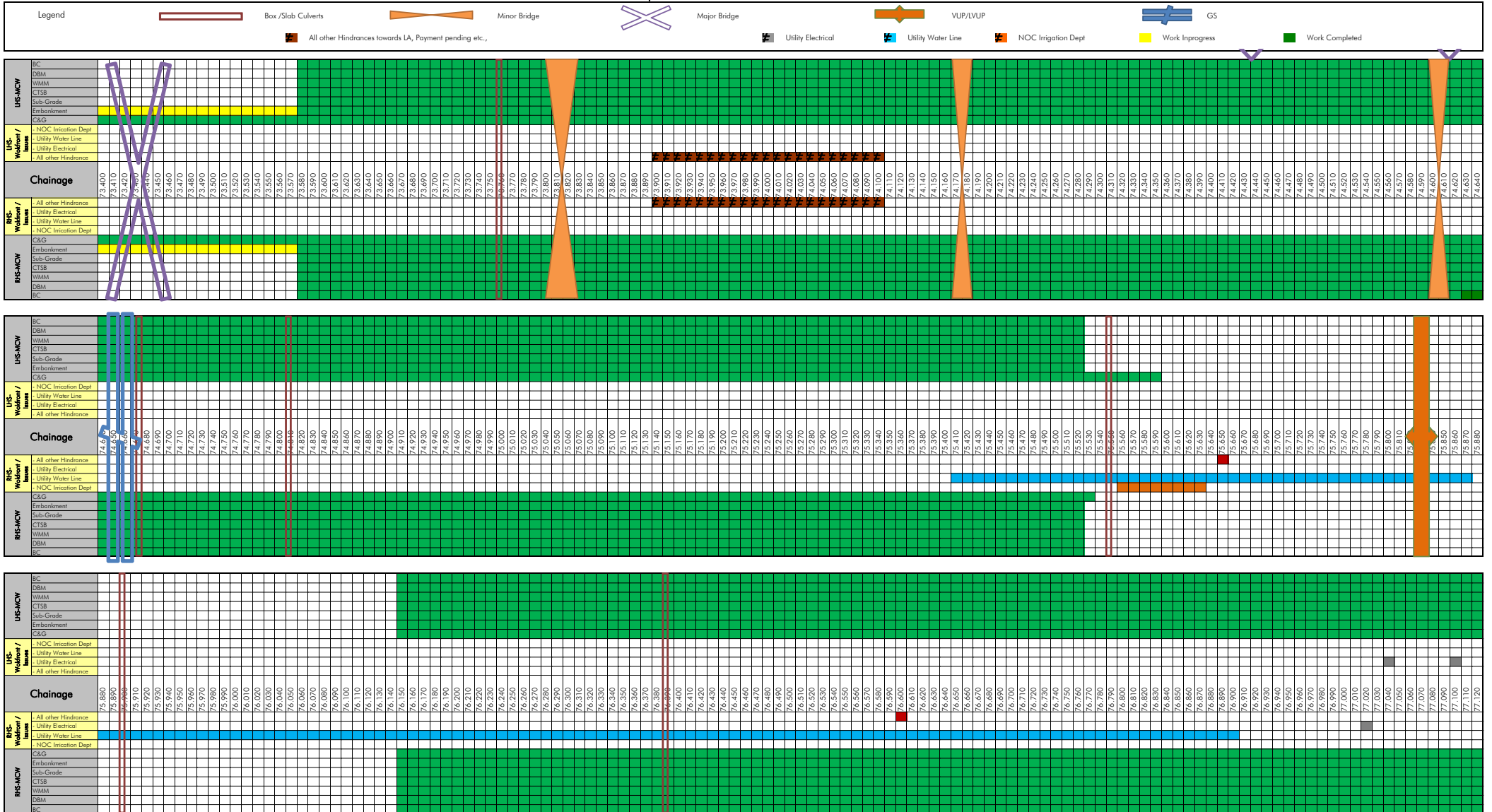
Strip Plan for MCW as on 28.02.2023





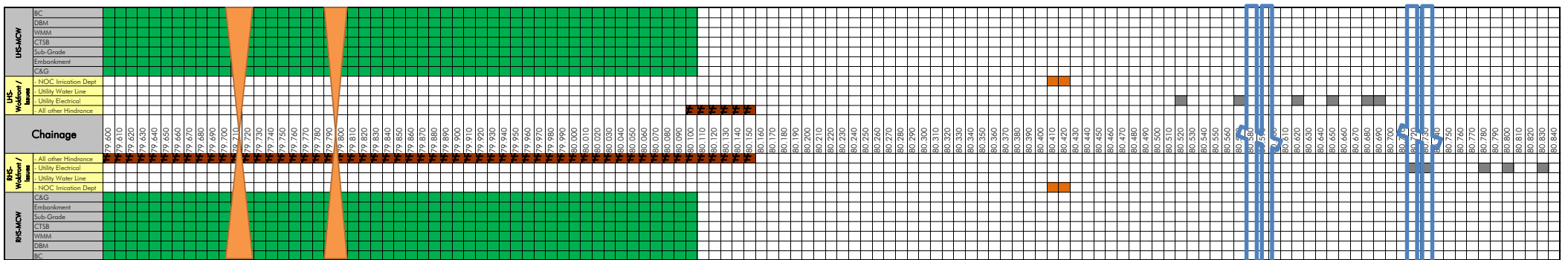
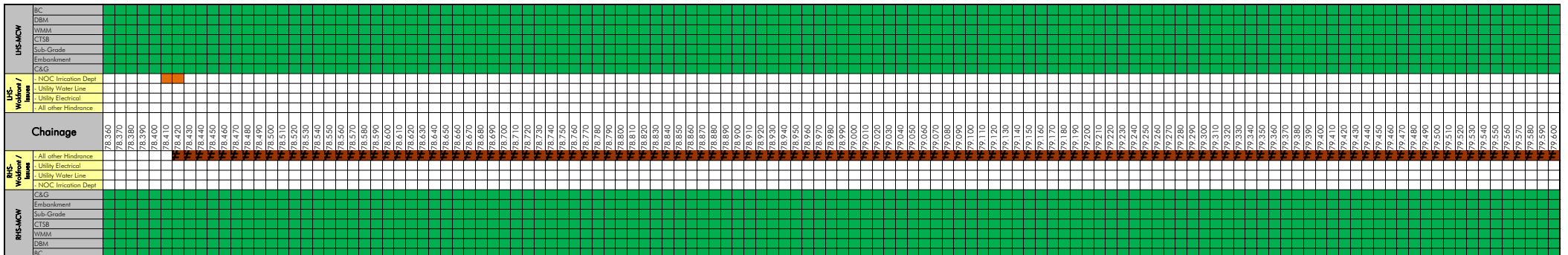
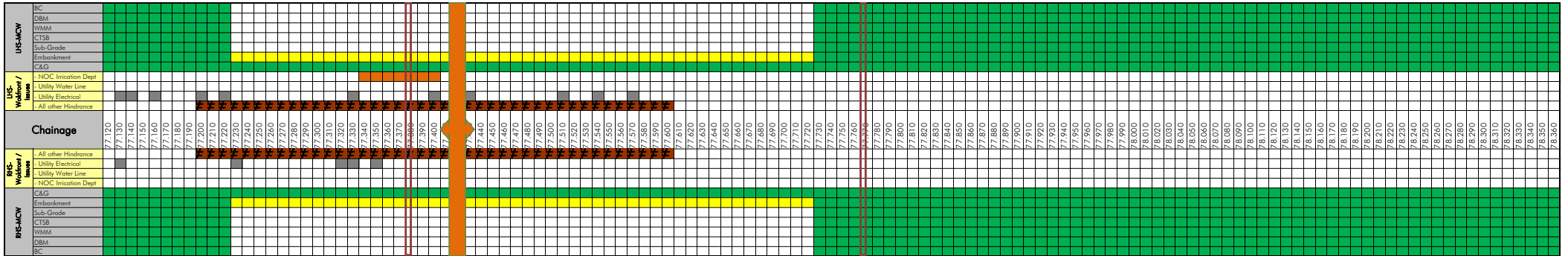
Four Laning of Sethiyahopu - Cholapuram from Km. 65.960 to Km. 116.440 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode.  
Sethiyahopu - Cholapuram Road Projects

Strip Plan for MCW as on 28.02.2023



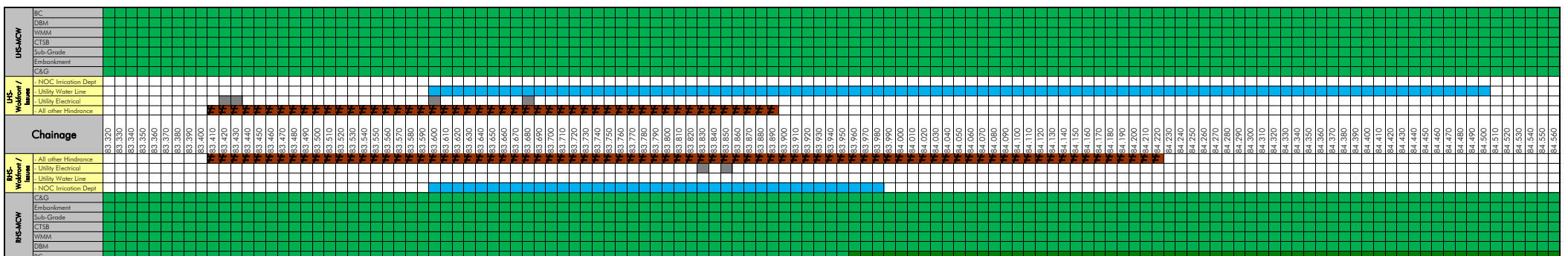
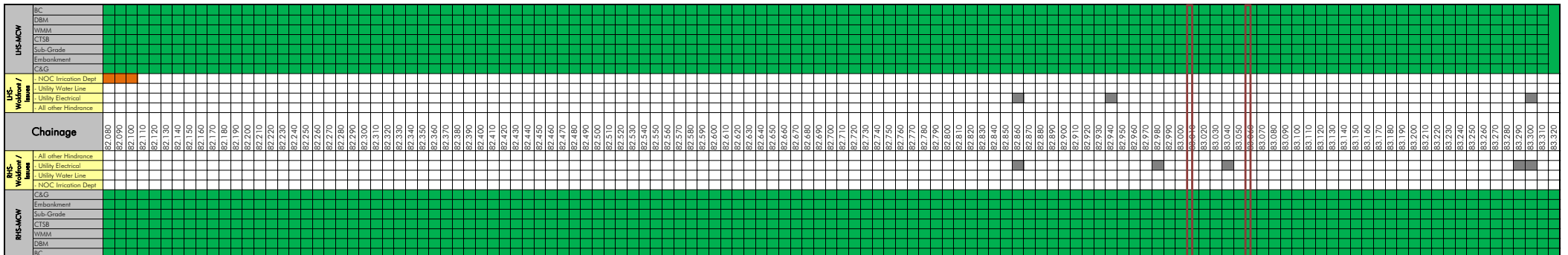
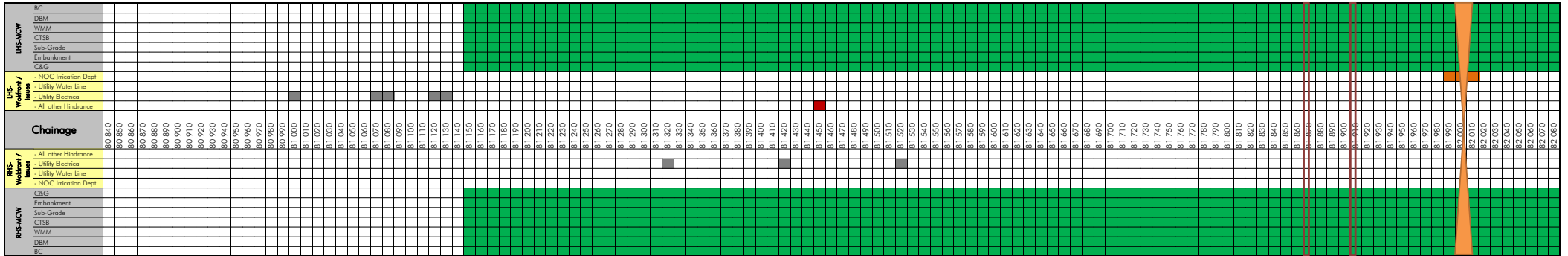
**Four Laning of Sethiyahopu - Cholapuram from Km. 65.960 to Km. 116.440 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode.**  
**Sethiyahopu - Cholapuram Road Projects**

**Strip Plan for MCW as on 28.02.2023**



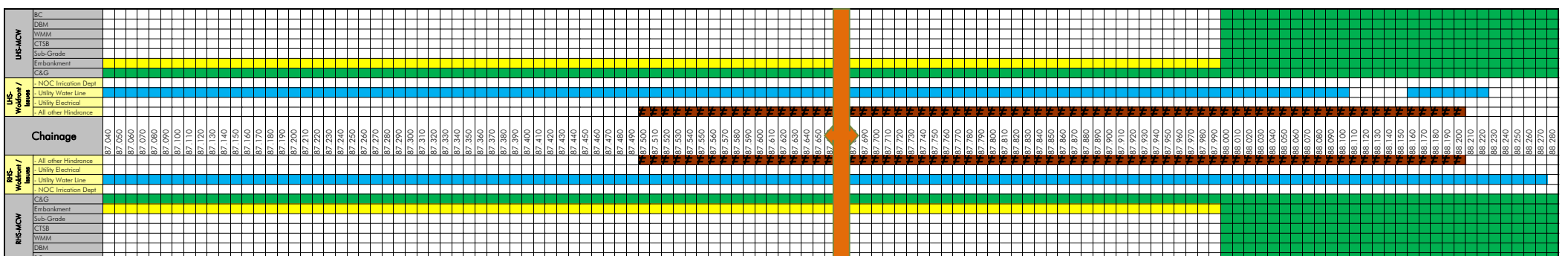
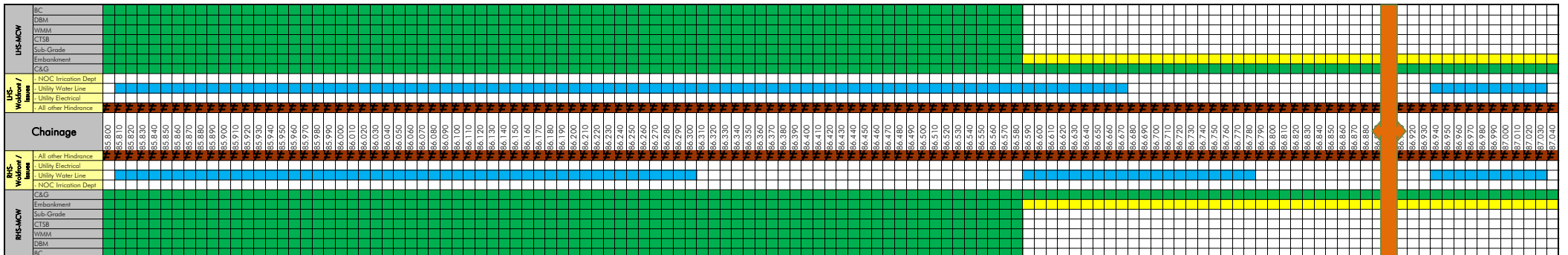
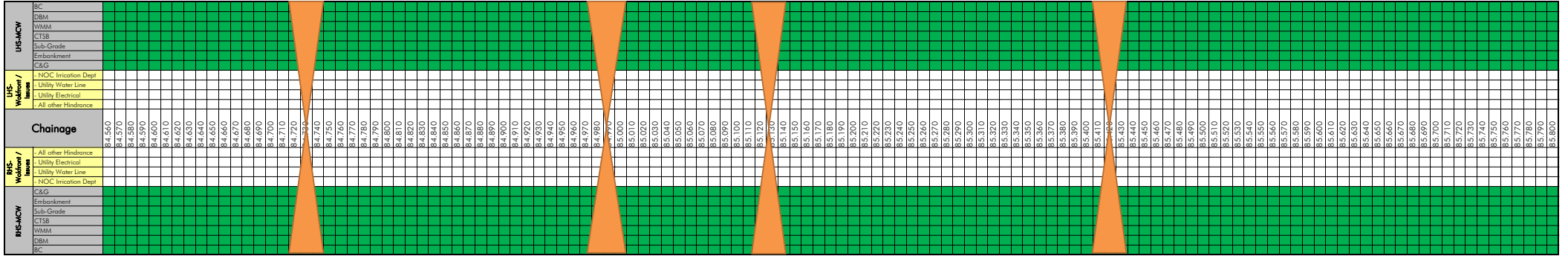
**Four Laning of Sethiyahopu - Cholapuram from Km. 65.960 to Km. 116.440 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode.**  
**Sethiyahopu - Cholapuram Road Projects**

**Strip Plan for MCW as on 28.02.2023**



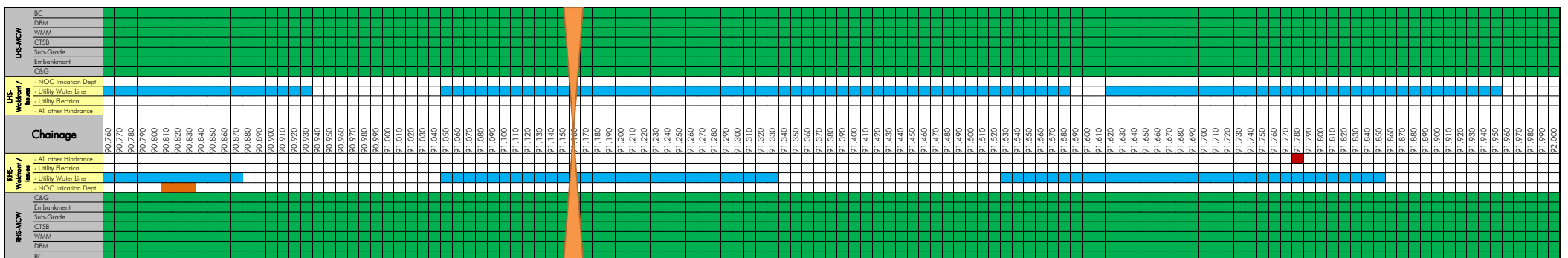
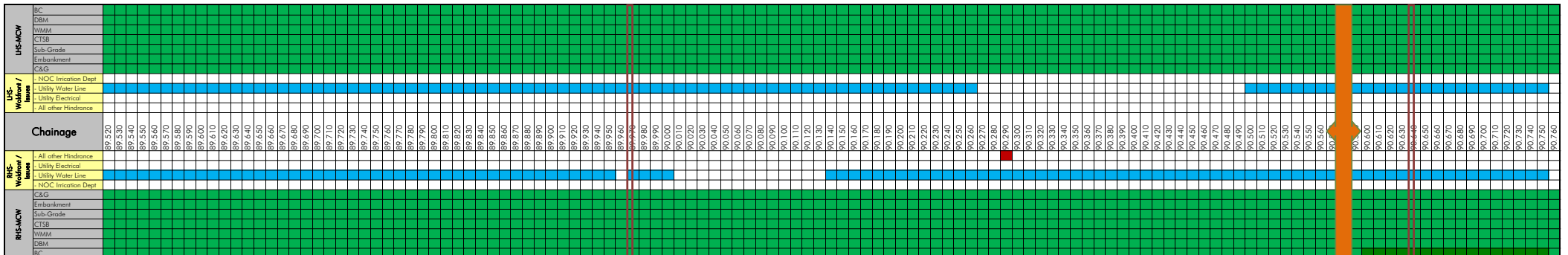
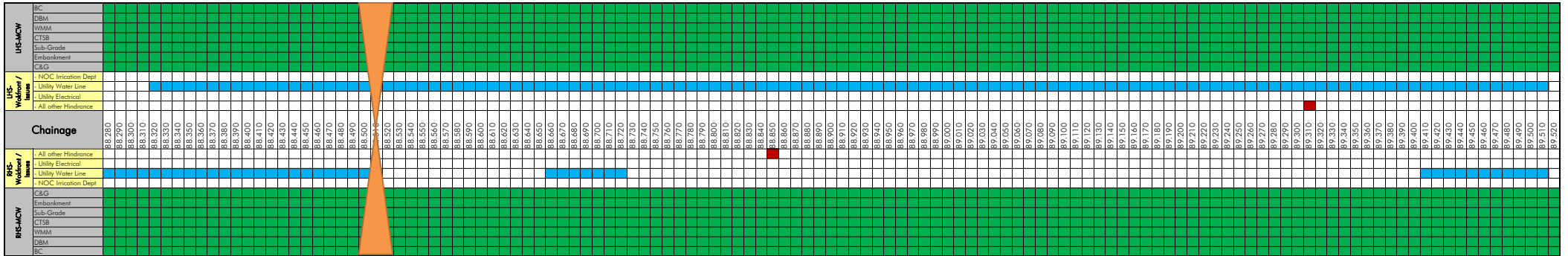
**Four Laning of Sethiyahopu - Cholapuram from Km. 65.960 to Km. 116.440 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode.**  
**Sethiyahopu - Cholapuram Road Projects**

**Strip Plan for MCW as on 28.02.2023**



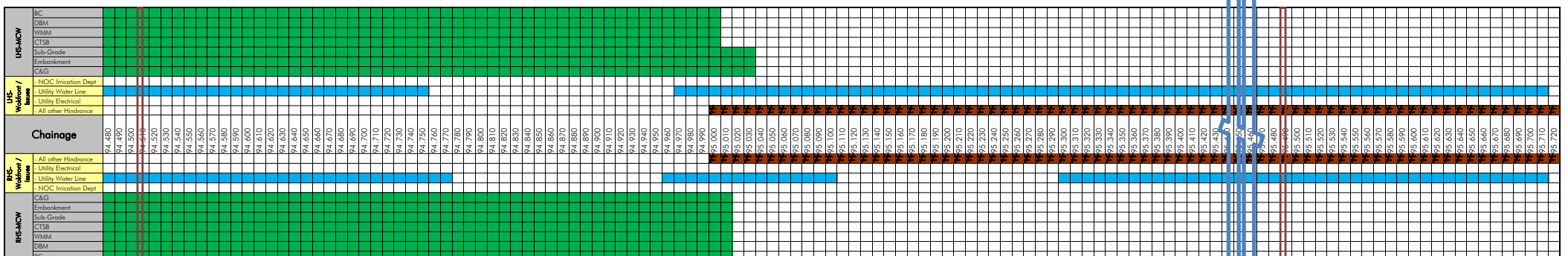
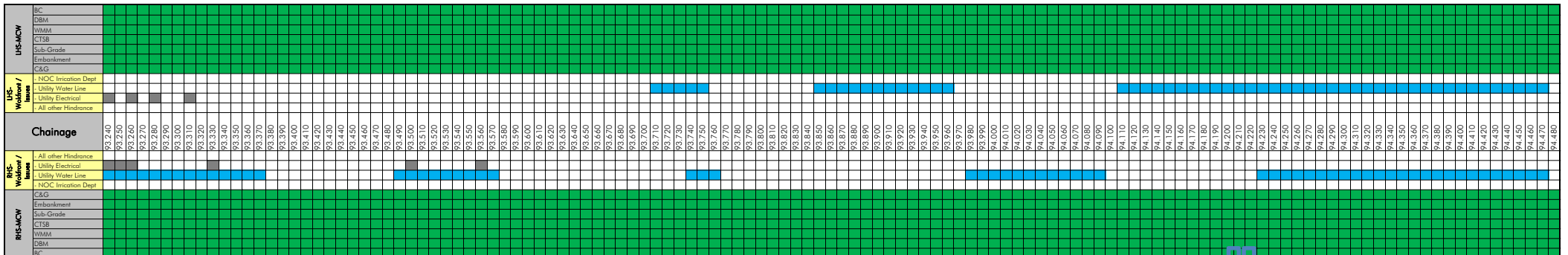
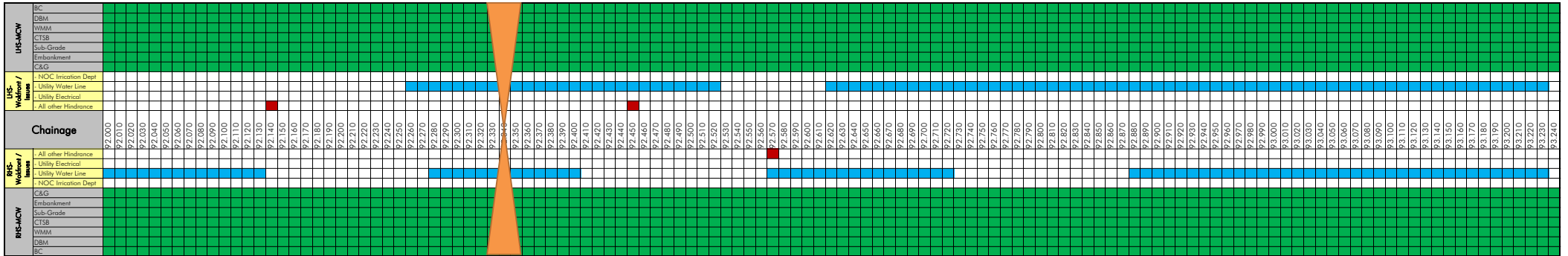
Four Laning of Sethiyahopu - Cholapuram from Km. 65.960 to Km. 116.440 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode.  
Sethiyahopu - Cholapuram Road Projects

Strip Plan for MCW as on 28.02.2023



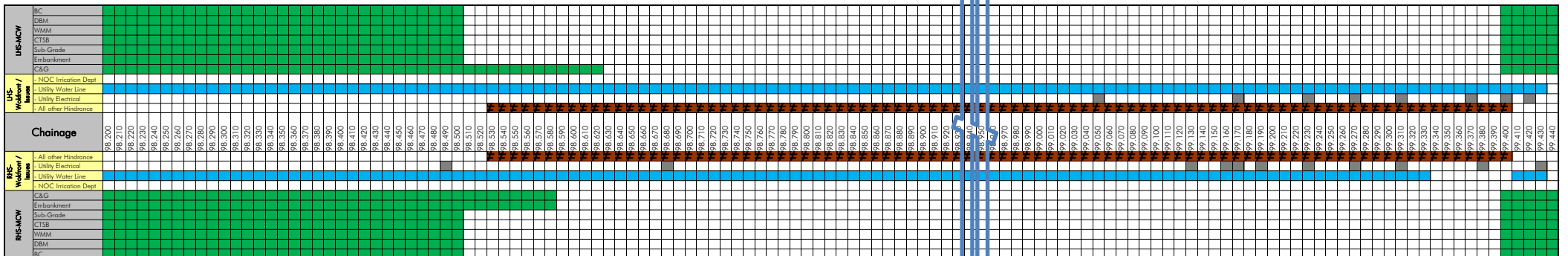
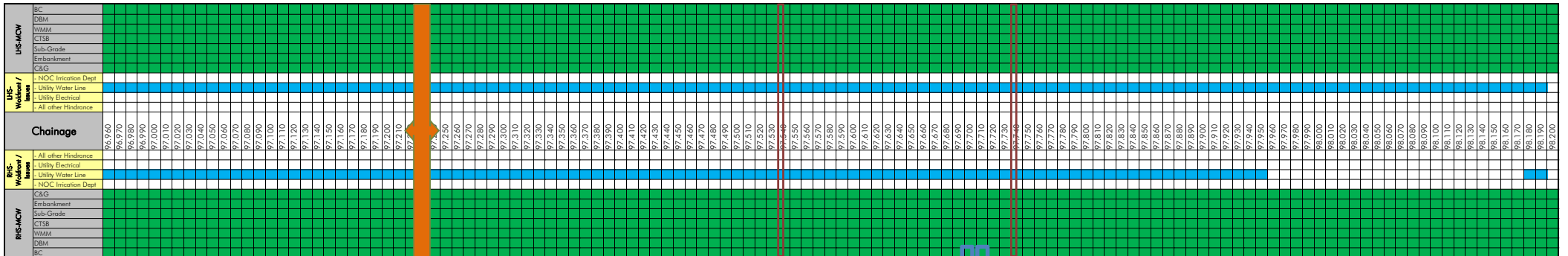
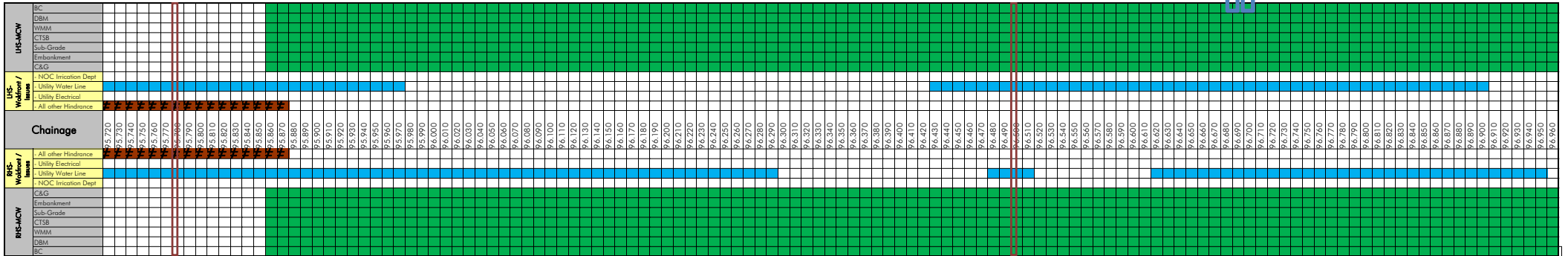
Four Laning of Sethiyahopu - Cholapuram from Km. 65.960 to Km. 116.440 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode.  
Sethiyahopu - Cholapuram Road Projects

Strip Plan for MCW as on 28.02.2023



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

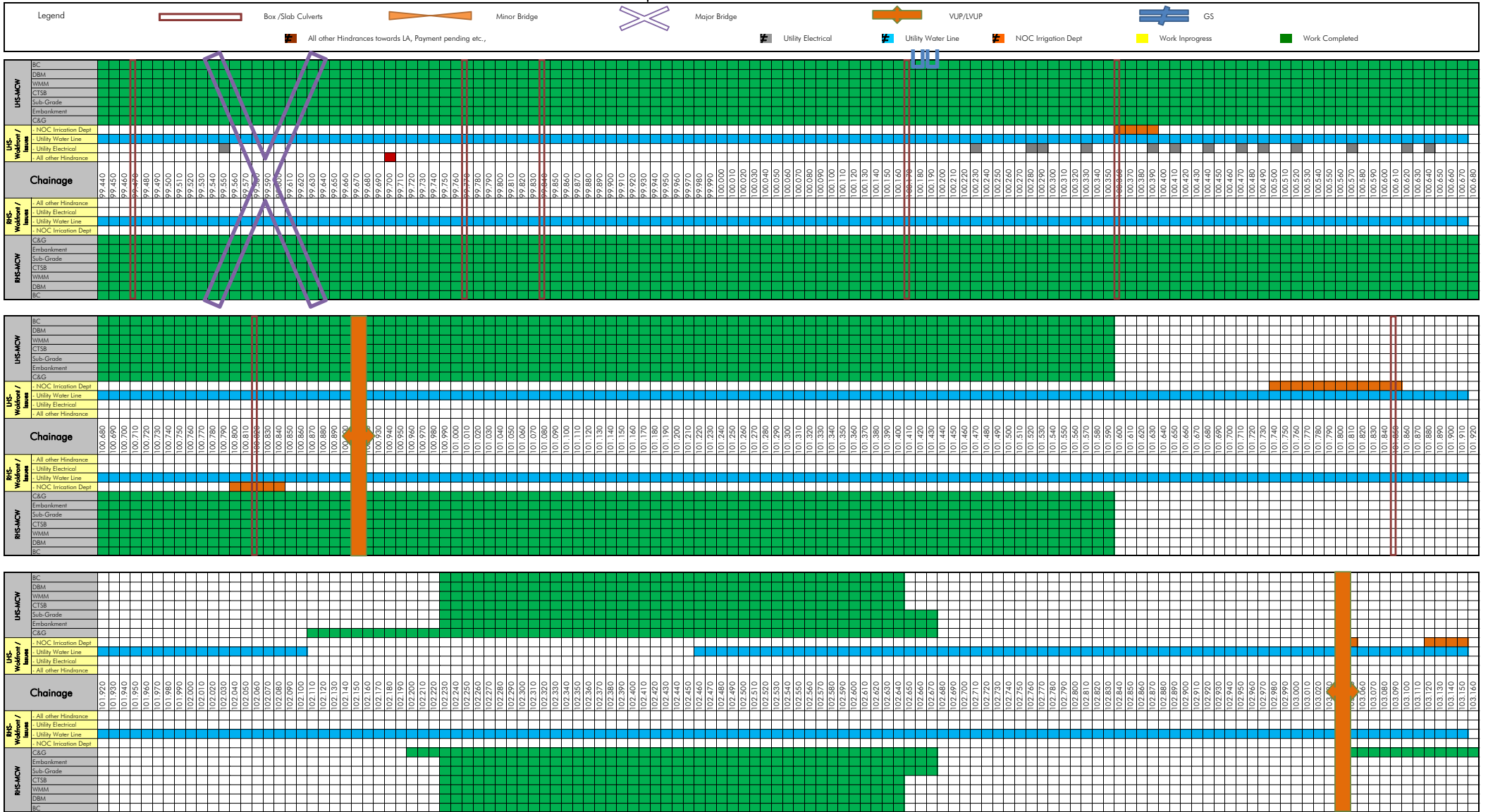
Strip Plan for MCW as on 28.02.2023





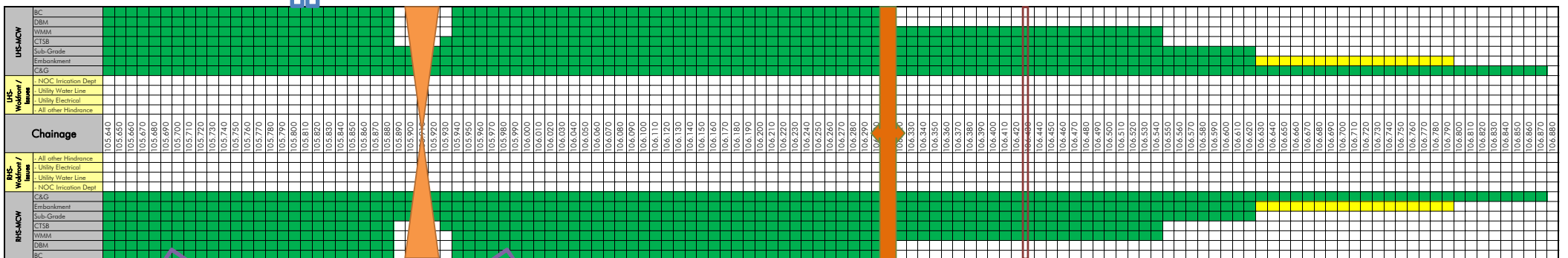
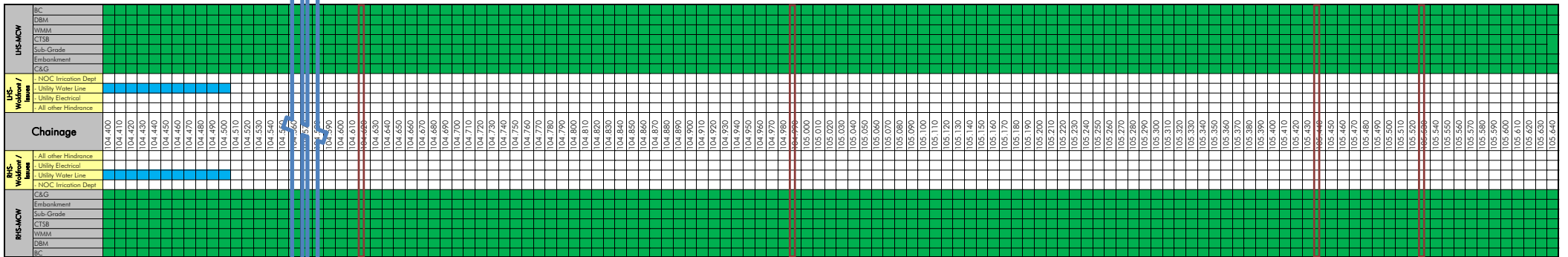
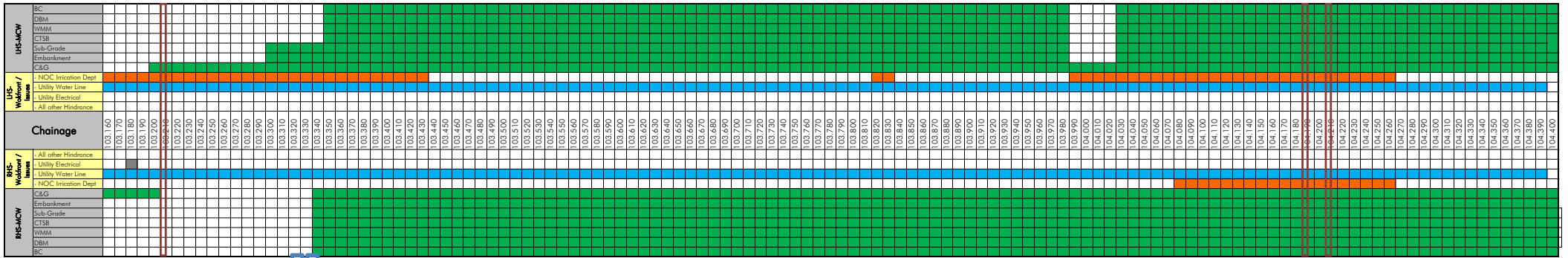
Four Laning of Sethiyahopu - Cholapuram from Km. 65.960 to Km. 116.440 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode.  
Sethiyahopu - Cholapuram Road Projects

Strip Plan for MCW as on 28.02.2023



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

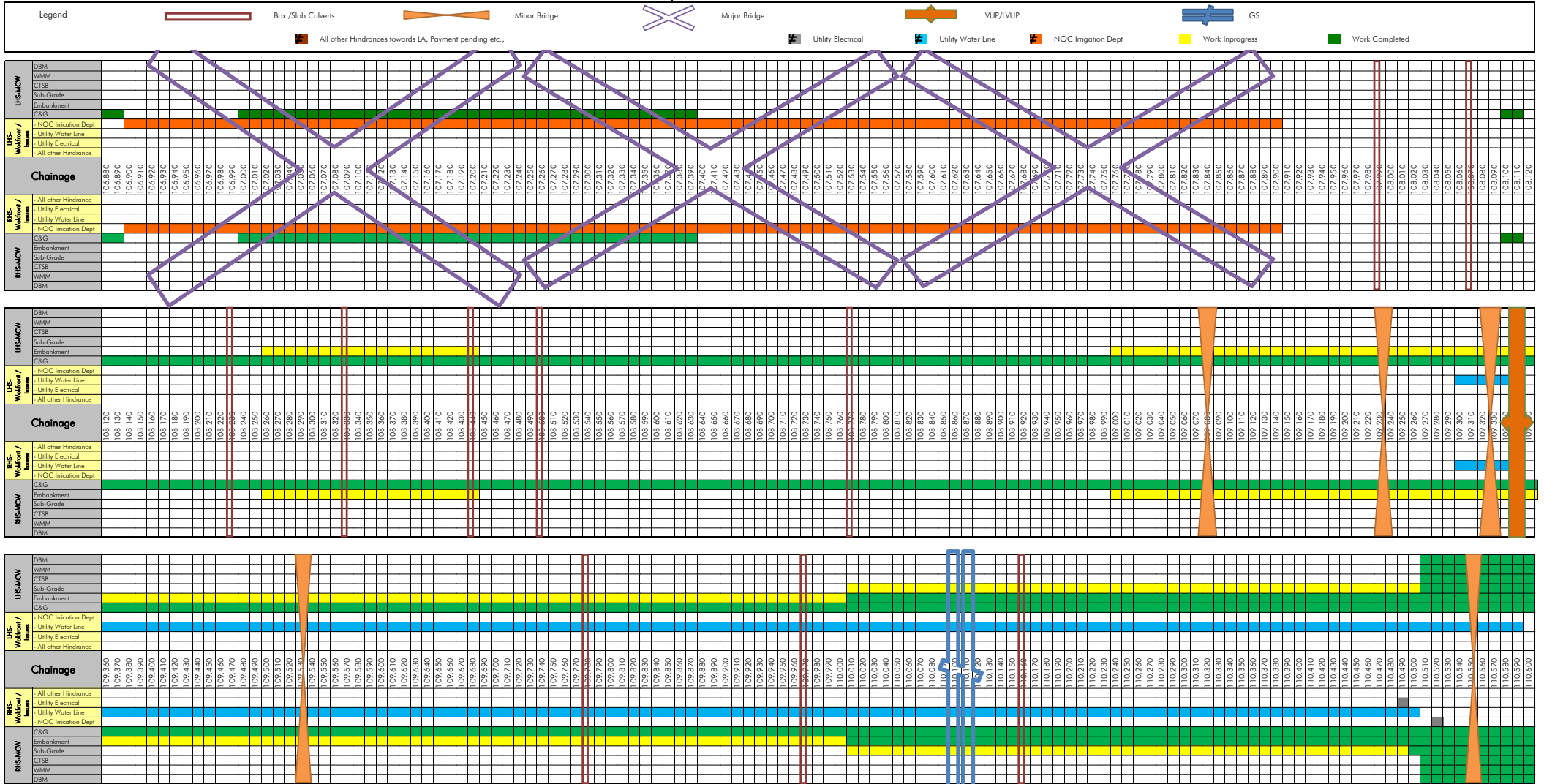
Strip Plan for MCW as on 28.02.2023



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.

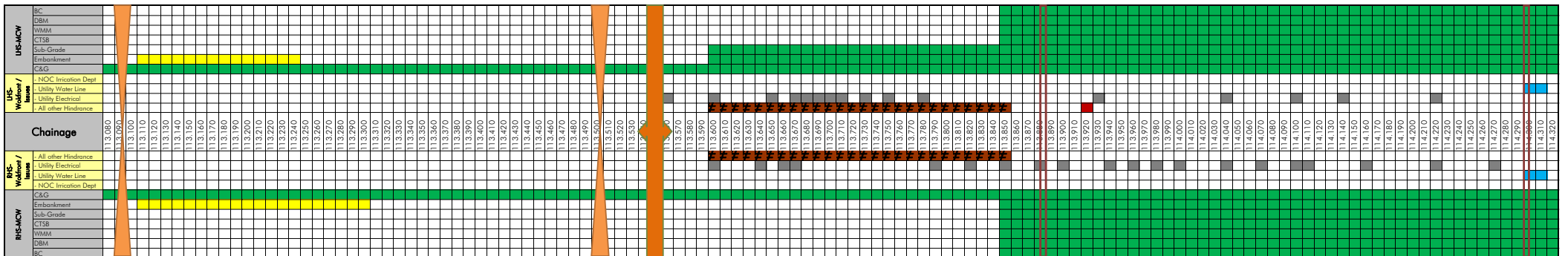
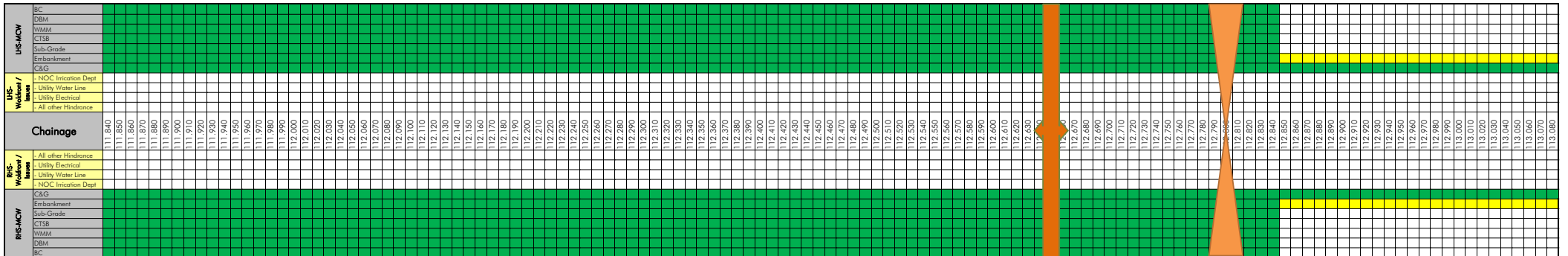
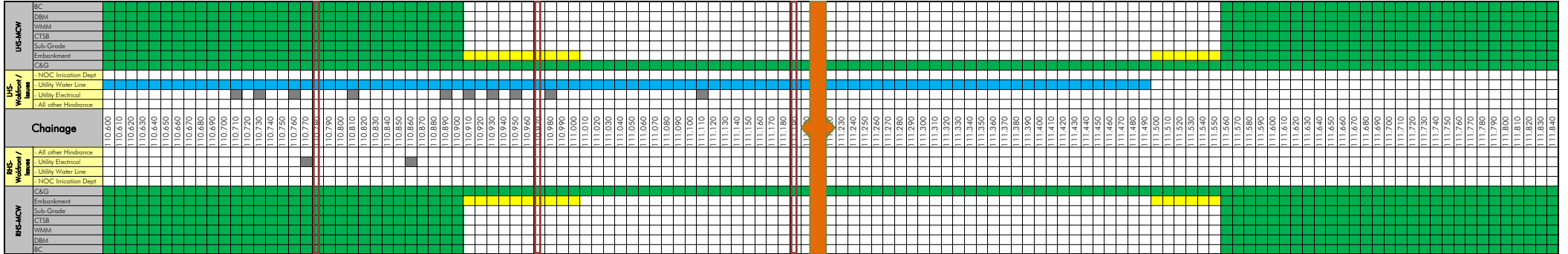
Sethiyahopu - Cholopuram Road Projects

Strip Plan for MCW as on 28.02.2023

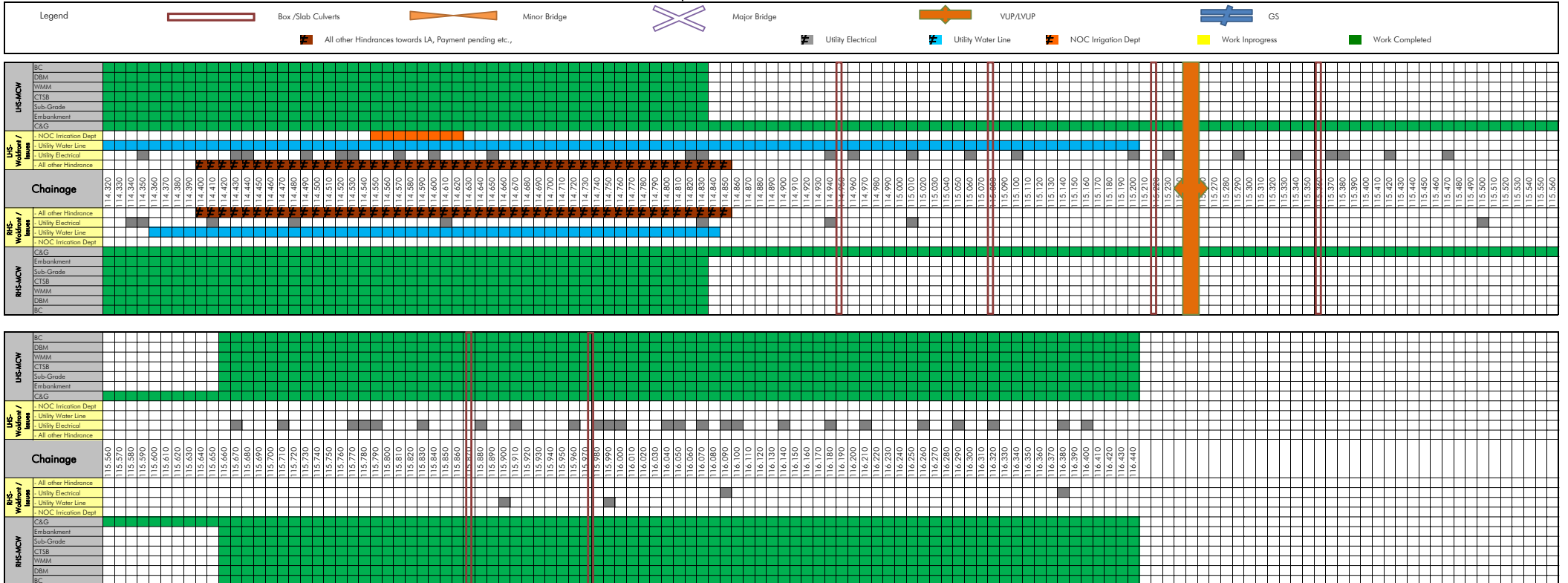


Four Laning of Sethiyahopu - Cholapuram from Km. 65.960 to Km. 116.440 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode.  
Sethiyahopu - Cholapuram Road Projects

Strip Plan for MCW as on 28.02.2023

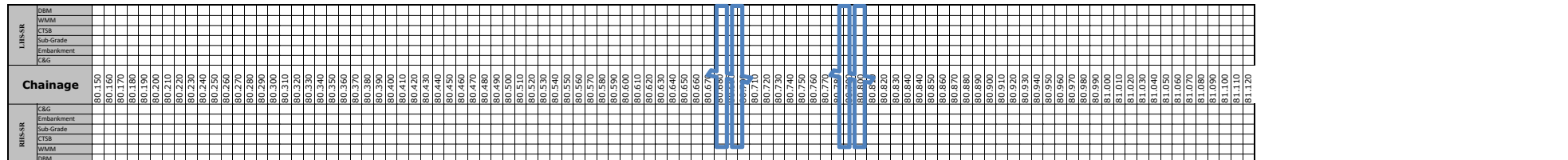
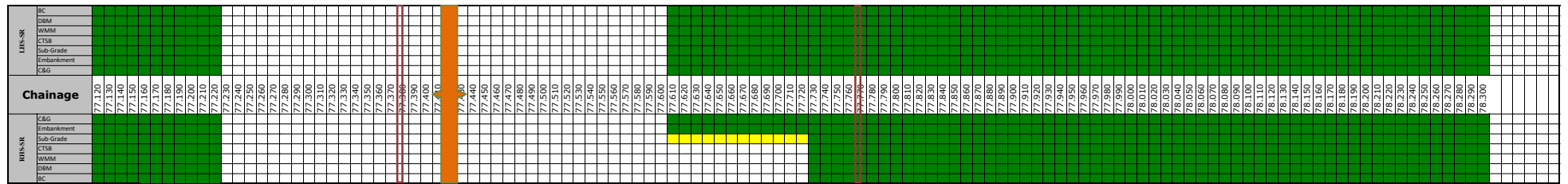
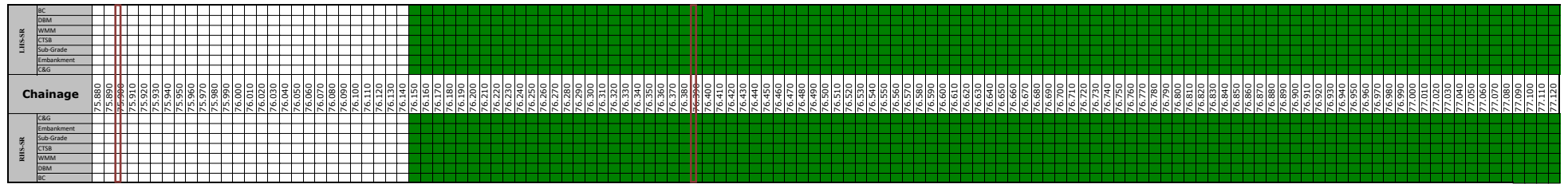
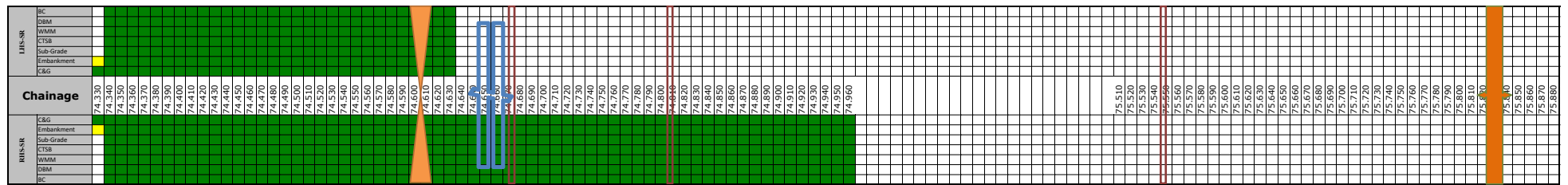
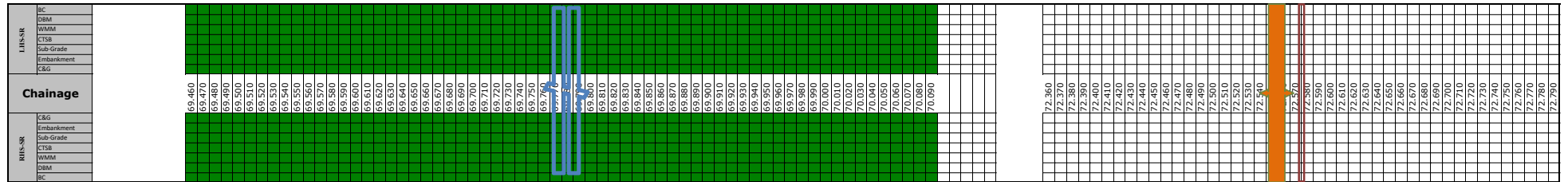
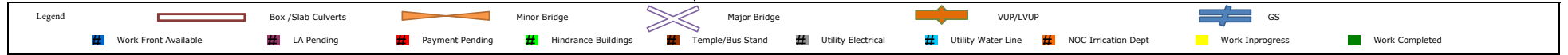


**Four Laning of Sethiyahopu - Cholapuram from Km. 65.960 to Km. 116.440 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode.**  
**Sethiyahopu - Cholapuram Road Projects**  
**Strip Plan for MCW as on 28.02.2023**



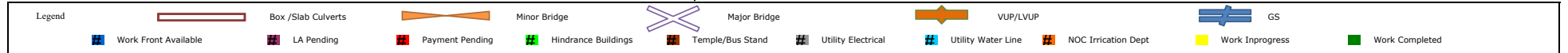
Four Laning of Sethiyahopu - Cholopuram from Km. 65.960 to Km. 116.440 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode  
Sethiyahopu - Cholopuram Road Projects

Strip Plan for SR as on 28.02.2023



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 28.02.2023



LISSR	Chainage	RISSR
BC		
DBM		
WMM		
CTSB		
Sub-Grade		
Embankment		
C&G		
C&G		
Embankment		
Sub-Grade		
CTSB		
WMM		
DBM		
BC		

LISSR	Chainage	RISSR
BC		
DBM		
WMM		
CTSB		
Sub-Grade		
Embankment		
C&G		
C&G		
Embankment		
Sub-Grade		
CTSB		
WMM		
DBM		
BC		

LISSR	Chainage	RISSR
BC		
DBM		
WMM		
CTSB		
Sub-Grade		
Embankment		
C&G		
C&G		
Embankment		
Sub-Grade		
CTSB		
WMM		
DBM		
BC		

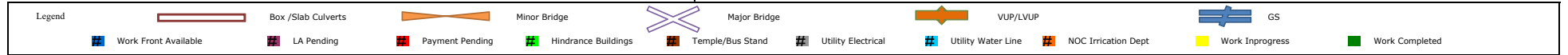
LISSR	Chainage	RISSR
DBM		
WMM		
CTSB		
Sub-Grade		
Embankment		
C&G		
C&G		
Embankment		
Sub-Grade		
CTSB		
WMM		
DBM		

LISSR	Chainage	RISSR
BC		
DBM		
WMM		
CTSB		
Sub-Grade		
Embankment		
C&G		
C&G		
Embankment		
Sub-Grade		
CTSB		
WMM		
DBM		
BC		



**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 SR as on 28.02.2023**



L/S-SR	SR									
	BC	DBM	WMM	CTSB	Sub-Grade	Embankment	C&G	Chaigne	C&G	Embankment
R/S-SR	BC	DBM	WMM	CTSB	Sub-Grade	Embankment	C&G	Chaigne	C&G	Embankment

L/S-SR	SR									
	BC	DBM	WMM	CTSB	Sub-Grade	Embankment	C&G	Chaigne	C&G	Embankment
R/S-SR	BC <td>DBM <td>WMM <td>CTSB <td>Sub-Grade <td>Embankment <td>C&amp;G <td>Chaigne</td> <td>C&amp;G <td>Embankment</td> </td></td></td></td></td></td></td>	DBM <td>WMM <td>CTSB <td>Sub-Grade <td>Embankment <td>C&amp;G <td>Chaigne</td> <td>C&amp;G <td>Embankment</td> </td></td></td></td></td></td>	WMM <td>CTSB <td>Sub-Grade <td>Embankment <td>C&amp;G <td>Chaigne</td> <td>C&amp;G <td>Embankment</td> </td></td></td></td></td>	CTSB <td>Sub-Grade <td>Embankment <td>C&amp;G <td>Chaigne</td> <td>C&amp;G <td>Embankment</td> </td></td></td></td>	Sub-Grade <td>Embankment <td>C&amp;G <td>Chaigne</td> <td>C&amp;G <td>Embankment</td> </td></td></td>	Embankment <td>C&amp;G <td>Chaigne</td> <td>C&amp;G <td>Embankment</td> </td></td>	C&G <td>Chaigne</td> <td>C&amp;G <td>Embankment</td> </td>	Chaigne	C&G <td>Embankment</td>	Embankment

L/S-SR	SR									
	BC	DBM	WMM	CTSB	Sub-Grade	Embankment	C&G	Chaigne	C&G	Embankment
R/S-SR	BC <td>DBM <td>WMM <td>CTSB <td>Sub-Grade <td>Embankment <td>C&amp;G <td>Chaigne</td> <td>C&amp;G <td>Embankment</td> </td></td></td></td></td></td></td>	DBM <td>WMM <td>CTSB <td>Sub-Grade <td>Embankment <td>C&amp;G <td>Chaigne</td> <td>C&amp;G <td>Embankment</td> </td></td></td></td></td></td>	WMM <td>CTSB <td>Sub-Grade <td>Embankment <td>C&amp;G <td>Chaigne</td> <td>C&amp;G <td>Embankment</td> </td></td></td></td></td>	CTSB <td>Sub-Grade <td>Embankment <td>C&amp;G <td>Chaigne</td> <td>C&amp;G <td>Embankment</td> </td></td></td></td>	Sub-Grade <td>Embankment <td>C&amp;G <td>Chaigne</td> <td>C&amp;G <td>Embankment</td> </td></td></td>	Embankment <td>C&amp;G <td>Chaigne</td> <td>C&amp;G <td>Embankment</td> </td></td>	C&G <td>Chaigne</td> <td>C&amp;G <td>Embankment</td> </td>	Chaigne	C&G <td>Embankment</td>	Embankment

L/S-SR	SR									
	BC	DBM	WMM	CTSB	Sub-Grade	Embankment	C&G	Chaigne	C&G	Embankment
R/S-SR	BC <td>DBM <td>WMM <td>CTSB <td>Sub-Grade <td>Embankment <td>C&amp;G <td>Chaigne</td> <td>C&amp;G <td>Embankment</td> </td></td></td></td></td></td></td>	DBM <td>WMM <td>CTSB <td>Sub-Grade <td>Embankment <td>C&amp;G <td>Chaigne</td> <td>C&amp;G <td>Embankment</td> </td></td></td></td></td></td>	WMM <td>CTSB <td>Sub-Grade <td>Embankment <td>C&amp;G <td>Chaigne</td> <td>C&amp;G <td>Embankment</td> </td></td></td></td></td>	CTSB <td>Sub-Grade <td>Embankment <td>C&amp;G <td>Chaigne</td> <td>C&amp;G <td>Embankment</td> </td></td></td></td>	Sub-Grade <td>Embankment <td>C&amp;G <td>Chaigne</td> <td>C&amp;G <td>Embankment</td> </td></td></td>	Embankment <td>C&amp;G <td>Chaigne</td> <td>C&amp;G <td>Embankment</td> </td></td>	C&G <td>Chaigne</td> <td>C&amp;G <td>Embankment</td> </td>	Chaigne	C&G <td>Embankment</td>	Embankment

L/S-SR	SR									
	BC	DBM	WMM	CTSB	Sub-Grade	Embankment	C&G	Chaigne	C&G	Embankment
R/S-SR	BC <td>DBM <td>WMM <td>CTSB <td>Sub-Grade <td>Embankment <td>C&amp;G <td>Chaigne</td> <td>C&amp;G <td>Embankment</td> </td></td></td></td></td></td></td>	DBM <td>WMM <td>CTSB <td>Sub-Grade <td>Embankment <td>C&amp;G <td>Chaigne</td> <td>C&amp;G <td>Embankment</td> </td></td></td></td></td></td>	WMM <td>CTSB <td>Sub-Grade <td>Embankment <td>C&amp;G <td>Chaigne</td> <td>C&amp;G <td>Embankment</td> </td></td></td></td></td>	CTSB <td>Sub-Grade <td>Embankment <td>C&amp;G <td>Chaigne</td> <td>C&amp;G <td>Embankment</td> </td></td></td></td>	Sub-Grade <td>Embankment <td>C&amp;G <td>Chaigne</td> <td>C&amp;G <td>Embankment</td> </td></td></td>	Embankment <td>C&amp;G <td>Chaigne</td> <td>C&amp;G <td>Embankment</td> </td></td>	C&G <td>Chaigne</td> <td>C&amp;G <td>Embankment</td> </td>	Chaigne	C&G <td>Embankment</td>	Embankment

**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 SR as on 28.02.2023**



LHS-SR	SR					RHS-SR
	BC	DBM	WMM	CTSB	Sub-Grade	
<b>Chaigne</b>	96.910					
	96.920					
	96.930					
	96.940					
	96.950					
	96.960					
	96.970					
	96.980					
	96.990					
	97.000					
97.010						
97.020						
97.030						
97.040						
97.050						
97.060						
97.070						
97.080						
97.090						
97.100						
97.110						
97.120						
97.130						
97.140						
97.150						
97.160						
97.170						
97.180						
97.190						
97.200						
97.210						
97.220						
97.230						
97.240						
97.250						
97.260						
97.270						
97.280						
97.290						
97.300						
97.310						
97.320						
97.330						
97.340						
97.350						
97.360						
97.370						
97.380						
97.390						
97.400						
97.410						
97.420						
97.430						
97.440						
97.450						
97.460						
97.470						
97.480						
97.490						
97.500						
97.510						
97.520						
97.530						
97.540						
98.530						
98.540						
98.550						
98.560						
98.570						
98.580						
98.590						
98.600						
98.610						
98.620						
98.630						
98.640						
98.650						
98.660						
98.670						
98.680						
98.690						
98.700						
98.710						
98.720						
98.730						
98.740						
98.750						
98.760						
98.770						
98.780						
98.790						
98.800						
98.810						
98.820						
98.830						
98.840						
98.850						
98.860						
98.870						
98.880						
98.890						
98.900						
98.910						
98.920						
98.930						
98.940						
98.950						
98.960						
98.970						
98.980						
98.990						
99.000						

LHS-SR	SR					RHS-SR
	BC	DBM	WMM	CTSB	Sub-Grade	
<b>Chaigne</b>	99.080					
	99.090					
	99.100					
	99.110					
	99.120					
	99.130					
	99.140					
	99.150					
	99.160					
	99.170					
99.180						
99.190						
99.200						
99.210						
99.220						
99.230						
99.240						
99.250						
99.260						
99.270						
99.280						
99.290						
99.300						
99.310						
99.320						
99.330						
99.340						
99.350						
99.360						
99.370						
99.380						
99.390						
99.400						
99.410						
99.420						
99.430						
99.440						
99.450						
99.460						
99.470						
99.480						
99.490						
99.500						
100.000						
100.010						
100.020						
100.030						
100.040						
100.050						
100.060						
100.070						
100.080						
100.090						
100.100						
100.110						
100.120						
100.130						
100.140						
100.150						
100.160						
100.170						
100.180						
100.190						
100.200						
100.210						
100.220						
100.230						
100.240						
100.250						
100.260						
100.270						
100.280						
100.290						
100.300						
100.310						
100.320						
100.330						
100.340						
100.350						
100.360						
100.370						
100.380						
100.390						
100.400						
100.410						
100.420						
100.430						
100.440						
100.450						
100.460						
100.470						
100.480						
100.490						
100.500						
101.000						
101.010						
101.020						
101.030						
101.040						
101.050						
101.060						
101.070						
101.080						
101.090						
101.100						
101.110						
101.120						
101.130						
101.140						
101.150						
101.160						
101.170						
101.180						
101.190						
101.200						

LHS-SR	SR					RHS-SR
	BC	DBM	WMM	CTSB	Sub-Grade	
<b>Chaigne</b>	101.920					
	101.930					
	101.940					
	101.950					
	101.960					
	101.970					
	101.980					
	101.990					
	102.000					
	102.010					
102.020						
102.030						
102.040						
102.050						
102.060						
102.070						
102.080						
102.090						
102.100						
102.110						
102.120						
102.130						
102.140						
102.150						
102.160						
102.170						
102.180						
102.190						
102.200						
102.210						
102.220						



SETHIYAHOPU CHOLOPURAM PROJECT - STATUS OF BOX CULVERTS ON EXISTING ROAD - MCW							Completed							In Progress									
Status Upto	28.02.2023						LHS							RHS									
Sr. No.	As Approved by IE	Design Chainage As per CA		Number and Length of Spans (m)	Remarks	Type of Structure	Protection Work	Fly wing wall	Slab	Wall	Raft	PCC	Granular Filling	Excavation	Excavation	Granular Filling	PCC	Raft	Wall	Slab	Fly wing wall	Protection Work	
1	74+675	74.670	EXISTING	1 x 3.0m x 2.0m	New Construction	BOX CULVERT																	
2	74+800	74.808	EXISTING	1 x 1.20m	Reconstruction	BOX CULVERT																	
3	75+558	75.555	EXISTING	1x3.0m	Reconstruction	BOX CULVERT																	
4	75+902	75.897	EXISTING	1 x 2.0m x 2.0m	Reconstruction	BOX CULVERT																	
5	76+390	76.387	EXISTING	1 x 3.0m	Reconstruction	BOX CULVERT																	
6	77+382	77.379	EXISTING	1 x 4.0m	Reconstruction	BOX CULVERT																	
7	77+767	77.764	EXISTING	1 x 2.0m	Widening	BOX CULVERT																	
8	81+868	81.867	EXISTING	1 x 2.0m x 2.0m	Reconstruction	BOX CULVERT																	
9	81+913	81.910	EXISTING	1 x 1.95m x 1.0m	Widening	BOX CULVERT																	
10	83+012	83.007	EXISTING	2 x 2.0m x 2.0m	Reconstruction	BOX CULVERT																	
11	83+065	83.062	EXISTING	1 x 2.0m x 2.0m	Reconstruction	BOX CULVERT																	
12	89+973	89.969	EXISTING	4 x 0.75m	Widening	BOX CULVERT																	
13	90+640	90.637	EXISTING	1 x 1.20m	Reconstruction	BOX CULVERT																	
14	94+509	94.509	EXISTING	1 x 3.6m x 1.6m	Widening	BOX CULVERT																	
15	95+495	95.490	EXISTING	1 x 1.2m x 0.9m	Reconstruction	BOX CULVERT																	
16	95+794	95.787	EXISTING	1 x 1.20m	Reconstruction	BOX CULVERT																	
17	96+511	96.505	EXISTING	1 x 5.0m	Reconstruction	BOX CULVERT																	
18	97+530	97.534	EXISTING	1x2.0m	Reconstruction	BOX CULVERT																	
19	97+742	97.738	EXISTING	1 x 3.0m x 1.0m	Widening	BOX CULVERT																	
20	99+471	99.467	EXISTING	1 x 3.0m x 4.0m	Repair & Widening	BOX CULVERT																	
21	99+776	99.769	EXISTING	1 x 2.0m x 2.0m	Repair & Widening	BOX CULVERT																	
22	99+840	99.838	EXISTING	1 x 1.5m x 1.5m	Repair & Widening	BOX CULVERT																	
23	100+177	100.173	EXISTING	1 x 1m	Repair & Widening	BOX CULVERT																	
24	100+364	100.358	EXISTING	1 x 10m	Repair & Widening	BOX CULVERT																	
25	100+823	100.817	EXISTING	1 x 3.5m x 2.5m	Repair & Widening	BOX CULVERT																	
26	101+251		EXISTING	1 x 2.0m x 2.0m	New Construction	BOX CULVERT																	
27	101+851	101.851	EXISTING	1 x 1.5m x 1.5m	Repair & Reconstruction	BOX CULVERT																	
28	103+220	103.214	EXISTING	1 x 4.0m x 2.5m	Repair & Reconstruction	BOX CULVERT																	
29	104+197	104.190	EXISTING	1 x 1.0m	Repair & Reconstruction	BOX CULVERT																	
30	104+215	104.208	EXISTING	1 x 1.0m	Reconstruction	BOX CULVERT																	
31	109+786	109.779	EXISTING	1 x 1.0m	Repair & Reconstruction	BOX CULVERT																	
32	109+975	109.967	EXISTING	1 x 2.0m x 1.7m	Repair & Reconstruction	BOX CULVERT																	
33	110+167	110.160	EXISTING	2 x 1.0m	Repair & Reconstruction	BOX CULVERT																	
34	110+402		EXISTING	1 x 1.5m		BOX CULVERT																	
35	110+795	110.785	EXISTING	1 x 1.2m x 2.0m	Repair & Widening	BOX CULVERT																	
36	110+980	110.971	EXISTING	1 x 1.5m x 2.0m	Repair & Reconstruction	BOX CULVERT																	
37	113+897	113.885	EXISTING	1 x 1.0m	Repair & Widening	BOX CULVERT																	
38	114+313	114.300	EXISTING	1 x 1.0m	Repair & Widening	BOX CULVERT																	
39	114+703	114.703	EXISTING			BOX CULVERT																	
40	114+954	114.952	EXISTING	1 x 1.0m	Repair & Reconstruction	BOX CULVERT																	
41	115+097	115.087	EXISTING	2 x 1.0m	Repair & Reconstruction	BOX CULVERT																	
42	115+232	115.221	EXISTING	1 x 2.0m x 2.0m	Repair & Reconstruction	BOX CULVERT																	
43	115+381	115.368	EXISTING	1 x 2.0m	Repair & Reconstruction	BOX CULVERT																	
44	115+884	115.872	EXISTING	2 x 1.0m	Repair & Widening	BOX CULVERT																	
45	115+978	115.978	EXISTING	1 x 2.0m x 2.0m	Repair & Widening	BOX CULVERT																	

SETHIAHOPU CHOLOPURAM PROJECT - STATUS OF BOX CULVERTS ON EXISTING ROAD - SERVICE ROAD							Completed							In Progress									
Status Upto	28.02.2023						LHS							RHS									
Sr. No.	As Approved by IE	Design Chainage As per CA		Number and Length of Spans (m)	Remarks	Type of Structure	Protection Work	Fly wing wall	Slab	Wall	Raft	PCC	Granular Filling	Excavation	Excavation	Granular Filling	PCC	Raft	Wall	Slab	Fly wing wall	Protection Work	
1	74+675	74.670	EXISTING	1 x 3.0m x 2.0m	New Construction	BOX CULVERT																	
2	74+800	74.808	EXISTING	1 x 1.20m	Reconstruction	PIPE CULVERT																	
3	75+558	75.555	EXISTING	1x3.0m	Reconstruction	BOX CULVERT																	
4	75+902	75.897	EXISTING	1 x 2.0m x 2.0m	Reconstruction	BOX CULVERT																	
5	76+390	76.387	EXISTING	1 x 3.0m	Reconstruction	BOX CULVERT																	
6	77+382	77.379	EXISTING	1 x 4.0m	Reconstruction	BOX CULVERT																	
7	77+767	77.764	EXISTING	1 x 2.0m	Widening	BOX CULVERT																	
8	83+012	83.007	EXISTING	2 x 2.0m x 2.0m	Reconstruction	BOX CULVERT																	
9	83+065	83.062	EXISTING	1 x 2.0m x 2.0m	Reconstruction	BOX CULVERT																	
10	89+973	89.969	EXISTING	4 x 0.75m	Widening	PIPE CULVERT																	
11	90+640	90.637	EXISTING	1 x 1.20m	Reconstruction	PIPE CULVERT																	
12	94+509	94.509	EXISTING	1 x 3.6m x 1.6m	Widening	BOX CULVERT																	
13	95+495	95.490	EXISTING	1 x 1.2m x 0.9m	Reconstruction	BOX CULVERT																	
14	95+794	95.787	EXISTING	1 x 1.20m	Reconstruction	PIPE CULVERT																	
15	96+511	96.505	EXISTING	1 x 5.0m	Reconstruction	BOX CULVERT																	
16	97+530	97.534	EXISTING	1x2.0m	Reconstruction	BOX CULVERT																	
17	99+776	99.769	EXISTING	1 x 2.0m x 2.0m	Repair & Widening	BOX CULVERT																	
18	99+840	99.838	EXISTING	1 x 1.5m x 1.5m	Repair & Widening	BOX CULVERT																	
19	100+177	100.173	EXISTING	1 x 1m	Repair & Widening	PIPE CULVERT																	
20	100+364	100.358	EXISTING	1 x 10m	Repair & Widening	BOX CULVERT																	
21	101+851	101.851	EXISTING	1 x 1.5m x 1.5m	Repair & Reconstruction	BOX CULVERT																	
22	103+220	103.214	EXISTING	1 x 4.0m x 2.5m	Repair & Reconstruction	BOX CULVERT																	
23	104+197	104.190	EXISTING	1 x 1.0m	Repair & Reconstruction	PIPE CULVERT																	
24	104+215	104.208	EXISTING	1 x 1.0m	Reconstruction	PIPE CULVERT																	
25	109+786	109.779	EXISTING	1 x 1.0m	Repair & Reconstruction	PIPE CULVERT																	
26	109+975	109.967	EXISTING	1 x 2.0m x 1.7m	Repair & Reconstruction	BOX CULVERT																	
27	110+167	110.160	EXISTING	2 x 1.0m	Repair & Reconstruction	PIPE CULVERT																	
28	110+402		EXISTING	1 x 1.5m		BOX CULVERT																	
29	110+795	110.785	EXISTING	1 x 1.2m x 2.0m	Repair & Widening	BOX CULVERT																	
30	110+980	110.971	EXISTING	1 x 1.5m x 2.0m	Repair & Reconstruction	BOX CULVERT																	
31	113+897	113.885	EXISTING	1 x 1.0m	Repair & Widening	PIPE CULVERT																	
32	114+313	114.300	EXISTING	1 x 1.0m	Repair & Widening	PIPE CULVERT																	
33	114+954	114.952	EXISTING	1 x 1.0m	Repair & Reconstruction	PIPE CULVERT																	
34	115+097	115.087	EXISTING	2 x 1.0m	Repair & Reconstruction	PIPE CULVERT																	
35	115+232	115.221	EXISTING	1 x 2.0m x 2.0m	Repair & Reconstruction	BOX CULVERT																	
36	115+381	115.368	EXISTING	1 x 2.0m	Repair & Reconstruction	BOX CULVERT																	
37	115+884	115.872	EXISTING	2 x 1.0m	Repair & Widening	PIPE CULVERT																	
38	115+978	115.978	EXISTING	1 x 2.0m x 2.0m	Repair & Widening	BOX CULVERT																	

SETHIAHOPU CHOLOPURAM PROJECT - STATUS OF BOX CULVERTS ON BYPASS - MCW						Completed								In Progress								
Status Upto	28.02.2023					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	28.02.2023					LHS								RHS								
Sr. No.	As Approved by IE	Design Chainage As per CA		Number and Length of Spans (m)	Type of Structure	Protection Work	Fly wing wall	Slab	Wall	Raft	PCC	Granular Filling	Excavation	Excavation	Granular Filling	PCC	Raft	Wall	Slab	Fly wing wall	Protection Work	
1	72+570	72.578	BYPASS	1 x 3.0m x 2.0m	BOX CULVERT																	
2	104+622	104.618	BYPASS	1 x 2.0m x 2.0m	BOX CULVERT																	
3	104+998	104.992	BYPASS	1 x 4.0m x 2.0m	BOX CULVERT																	
4	106+442	106.432	BYPASS	1 x 2.0m x 2.0m	BOX CULVERT																	
5	111+205	111.196	BYPASS	1 x 1.0m	PIPE CULVERT																	
6	113+372	113.372	BYPASS		BOX CULVERT																	



SETHIAHOPU CHOLOPURAM PROJECT - STATUS OF MNB-BOX - MCW						Completed							In Progress									
Status Upto	28.02.2023					LHS							RHS									
Sr. No.	As Approved by IE	Design Chainage As per CA	Number and Length of Spans (m)	Type of Structure		Protection Work	Retaining wall	Slab	Wall	Raft	PCC	Granular Filling	Excavation	Excavation	Granular Filling	PCC	Raft	Wall	Slab	Retaining wall	Protection Work	
1	79+716	79.715	1 x 12.50m	MNBB	Widening																	
2	79+795	79.795	2 x 12.50m	MNBB	Re-Const.																	
3	82+007	82.006	2 x 12.50m	MNBB	Widening																	
4	85+144	85.144	2 x 12.50m	MNBB	Re-Const.																	
5	85+435	85.432	1 x 12.50m	MNBB	Widening																	
6	88+513	88.513	1 x 12.50m	MNBB	Widening																	
7	91+164	91.165	2 x 12.50m	MNBB	Re-Const.																	
8	92+343	92.342	1 x 12.50m	MNBB	Widening																	
9	101+101	101.100		MNBB	EXISTING									NA	NA	NA	NA	NA	NA	NA		
10	66+757	66.730	2 x 12.5m	MNBB	BYPASS																	
11	68+644	68.650	2 x 12.5m	MNBB	BYPASS																	
12	74+173	74.175	2 x 12.5m	MNBB	BYPASS																	
13	74+605	74.600	2 x 12.5m	MNBB	BYPASS																	
14	105+915	105.915	2 x 12.5m	MNBB	BYPASS																	
15	109+090	109.088	2 x 12.5m	MNBB	BYPASS																	
16	109+195	109.208	2 x 12.5m	MNBB	BYPASS																	
17	109+365	109.365	2 x 12.5m	MNBB	BYPASS																	
18	109+540	109.540	2 x 12.5m	MNBB	BYPASS																	
19	111+563	111.565	2 x 12.5m	MNBB	BYPASS																	
20	112+807	112.807	1 x 25m	MNBB	BYPASS																	
21	113+100	113.100	2 x 12.5m	MNBB	BYPASS																	
22	113+505	113.505	2 x 12.5m	MNBB	BYPASS																	

SETHIAHOPU CHOLOPURAM PROJECT - STATUS OF MNB-BOX - SERVICE ROAD						Completed							In Progress									
Status Upto	28.02.2023					LHS							RHS									
Sr. No.	As Approved by IE	Design Chainage As per CA	Number and Length of Spans (m)	Type of Structure		Protection Work	Retaining wall	Slab	Wall	Raft	PCC	Granular Filling	Excavation	Excavation	Granular Filling	PCC	Raft	Wall	Slab	Retaining wall	Protection Work	
1	74+605	74.600	2 x 12.5m	MNBB	BYPASS																	
2	105+915	105.915	2 x 12.5m	MNBB	BYPASS																	
3	109+090	109.088	2 x 12.5m	MNBB	BYPASS																	
4	109+195	109.208	2 x 12.5m	MNBB	BYPASS																	
5	109+365	109.365	2 x 12.5m	MNBB	BYPASS																	
6	109+540	109.540	2 x 12.5m	MNBB	BYPASS																	
7	111+563	111.565	2 x 12.5m	MNBB	BYPASS																	
8	112+807	112.807	1 x 25m	MNBB	BYPASS																	
9	113+100	113.100	2 x 12.5m	MNBB	BYPASS																	
10	113+505	113.505	2 x 12.5m	MNBB	BYPASS																	

SETHIYAHOPU CHOLOPURAM PROJECT - STATUS OF LVUP					Completed						In Progress					
Status Upto	28.02.2023				LHS						RHS					
Sr. No.	As Approved by IE	Number and Length of Spans (m)	Type of Structure		Protection Work	Slab	Wall	Raft	PCC	Excavation	Excavation	PCC	Raft	Wall	Slab	Protection Work
1	77+420	1X10.5	LVUP	EXISTING												
2	112+643	1X10.5	LVUP	BYPASS												

SETHIYAHOPU CHOLOPURAM PROJECT - STATUS OF MNB (>15m Span)					Completed								In Progress												
Status upto	28.02.2023				LHS								RHS												
Sr. No.	MNB at Chainage	Span			Crash Barrier	Slab	Girder Launching	Girder Casting	Piercap /Abtcap	Pier/Abt	Open Foundation	PCC	Excavation	Excavation	PCC	Open Foundation	Pier/Abt	Piercap /Abtcap	Girder Casting	Girder Launching	Slab	Crash Barrier			
1	70+185	2 x 20	BYPASS	A1																					
				P1																					
				A2																					
2	73+815	1 x 15	BYPASS	A1																					
				A2																					
3	84+725	1 x 15	EXISTING	A1																					
				A2																					
4	84+987	2 x 15	EXISTING	A1																					
				P1																					
				A2																					

SETHIYAHOPU CHOLOPURAM PROJECT - STATUS OF MJB										Completed											
MJB at Chainage 66+530 (8x30) - BYPASS										In Progress											
Status Upto 28.02.2023	LHS/LSR									RHS/RSR											
	Crash Barrier	Slab	Girder Launching	Girder Casting	Pier	Cap/Abt	Can	Pier/Abt	Pile Cap	Pile	Pile	Pile Cap	Pier/Abt	Pier	Cap/Abt	Can	Girder Casting	Girder Launching	Slab	Crash Barrier	
A1																					
P1																					
P2																					
P3																					
P4																					
P5																					
P6																					
P7																					
A2																					
MJB at Chainage 73+340 (9x30) - BYPASS										Completed											
MJB at Chainage 73+340 (9x30) - BYPASS										In Progress											
Status Upto 28.02.2023	LHS/LSR									RHS/RSR											
	Crash Barrier	Slab	Girder Launching	Girder Casting	Pier	Cap/Abt	Can	Pier/Abt	Pile Cap	Pile	Pile	Pile Cap	Pier/Abt	Pier	Cap/Abt	Can	Girder Casting	Girder Launching	Slab	Crash Barrier	
A1																					
P1																					
P2																					
P3																					
P4																					
P5																					
P6																					
P7																					
P8																					
A2																					

MJB at Chainage 99+583 (3x25) - EXISTING ROAD										Completed		In Progress						
Status Upto 28.02.2023	LHS/LSR									RHS/RSR								
	Crash Barrier	Slab	Girder Launching	Girder Casting	Pier/ Cap/Abt Can	Pier/Abt	Pile Cap	Pile		Pile	Pile Cap	Pier/Abt	Pier/ Cap/Abt Can	Girder Casting	Girder Launching	Slab	Crash Barrier	
A1										Existing Major Bridge need to be retained.								
P1																		
P2																		
A2																		
MJB at Chainage 107+400 - BYPASS										Completed		In Progress						
Status Upto 28.02.2023	LHS/LSR									RHS/RSR								
	Crash Barrier	Slab	Girder Launching	Girder Casting	Pier/ Cap/Abt Can	Pier/Abt	Pile Cap	Pile		Pile	Pile Cap	Pier/Abt	Pier/ Cap/Abt Can	Girder Casting	Girder Launching	Slab	Crash Barrier	
A1																		
P1																		
P2																		
P3																		
P4																		
P5																		
P6																		
P7																		
P8																		
P9																		
P10																		
P11																		
P12																		
P13																		
P14																		
P15																		
P16																		
P17																		
P18																		
P19																		
A2																		

SETHIYAHOPU CHOLOPURAM PROJECT - STATUS OF FLYOVER					Completed									In Progress										
Status upto	28.02.2023				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	28.02.2023				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

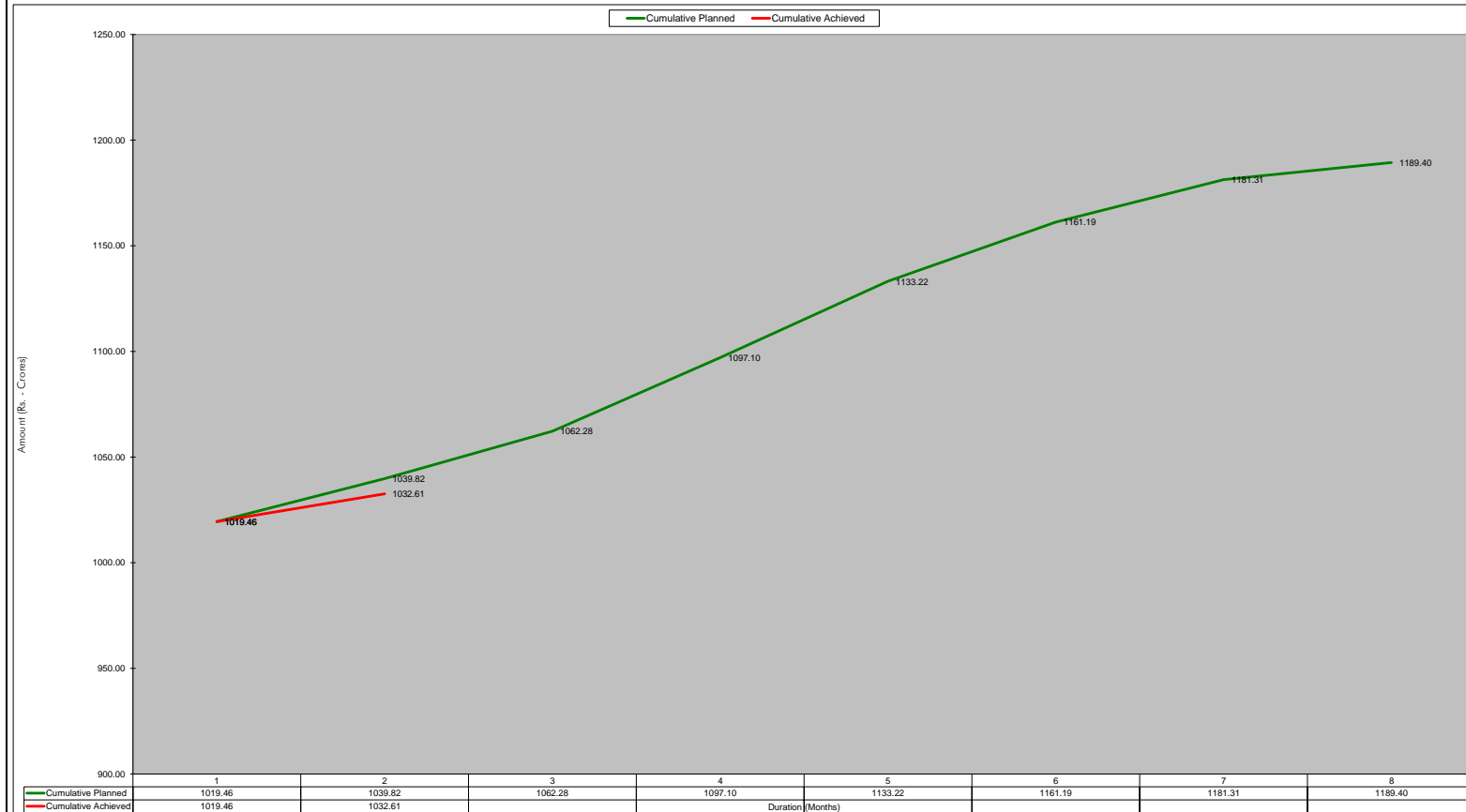
---

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

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

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

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

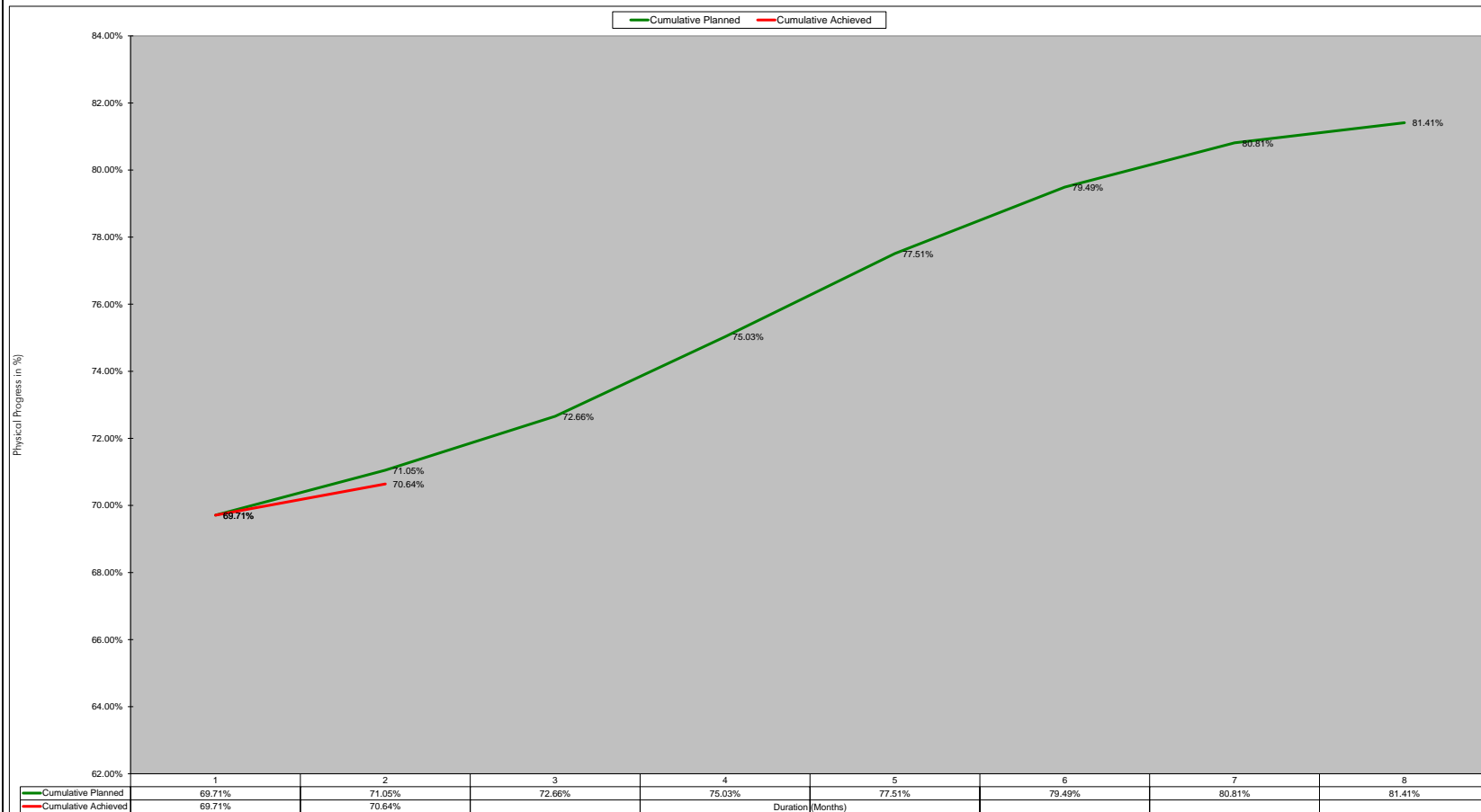


Schedule	2023							
	Up to Jan 1	Feb 2	Mar 3	April 4	May 5	June 6	July 7	August 8
Monthly Planned	1019.46	20.35	22.46	34.82	36.12	27.97	20.12	8.08
Monthly Achieved	1019.46	13.14						
Cumulative Planned	1019.46	1039.82	1062.28	1097.10	1133.22	1161.19	1181.31	1189.40
Cumulative Achieved	1019.46	1032.61						
Monthly Planned (%)	69.78%	1.4%	1.5%	2.4%	2.5%	1.9%	1.4%	0.6%
Monthly Achieved (%)	69.78%	0.9%						
Cumulative Planned (%)	69.78%	71.2%	72.7%	75.1%	77.6%	79.5%	80.9%	81.4%
Cumulative Achieved (%)	69.78%	70.68%						

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

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

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



Schedule	2023							
	Up to Jan 1	Feb 2	Mar 3	Apr 4	May 5	June 6	July 7	Aug 8
Monthly Planned	69.71%	1.34%	1.61%	2.37%	2.48%	1.98%	1.32%	0.60%
Monthly Achieved	69.71%	0.93%						
Cumulative Planned	69.71%	71.05%	72.66%	75.03%	77.51%	79.49%	80.81%	81.41%
Cumulative Achieved	69.71%	70.64%						

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

## 6. Quality Control and Quality Assurance

### 6.1. List of Lab Equipment's

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

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

25	Thickness Gauge	1
26	Glass Rain measuring jar (200CM <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 mild steel	4 Nos
34	proctor compaction mould 150mm dia with 4.89kg Rammer mild 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 February - 2023 are tabulated below:-

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



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

Sr. No.	Item Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month				Tests conducted during reporting month February 2023						Test 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 onarie	IE	Concessi onarie	IE	Concessi onarie	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	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	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	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	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>	1636	1636	0	885	20	10	20	10	0	0	0	1656	1656	0	895
2.2	Atterberg Limits	IS:2720 (Part5)	1 test /1500 m <sup>3</sup>	1636	1636	0	885	20	10	20	10	0	0	0	1656	1656	0	895
2.3	Proctor	IS:2720 (Part8)	1 test /1500 m <sup>3</sup>	1636	1636	0	885	20	10	20	10	0	0	0	1656	1656	0	895
2.4	Free Swell index	IS:2720 (Part40)	1 test /1500 m <sup>3</sup>	1636	1636	0	885	20	10	20	10	0	0	0	1656	1656	0	895
2.5	California bearing ratio	IS:2720 (Part16)	1 test /3000 m <sup>3</sup>	492	482	10	259	10	5	10	5	0	0	0	502	492	10	264
2.6	Direct shear Test	IS:2720 (Part13)	1 test /3000 m <sup>3</sup>	313	310	3	161	10	5	10	5	0	0	0	323	320	3	166
<b>3.0 Cutting &amp; Existing portion for EMB/SG 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	0	0	0	0	0	0	0	89	87	2	47
3.2	Atterberg Limits	IS:2720 (Part5)	1 test /1500 m <sup>3</sup>	89	87	2	47	0	0	0	0	0	0	0	89	87	2	47
3.3	Proctor	IS:2720 (Part8)	1 test /1500 m <sup>3</sup>	89	87	2	47	0	0	0	0	0	0	0	89	87	2	47
3.4	Free Swell index	IS:2720 (Part40)	1 test /1500 m <sup>3</sup>	89	87	2	47	0	0	0	0	0	0	0	89	87	2	47
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	0	46	44	2	26
3.6	Direct shear Test	IS:2720 (Part13)	1 test /3000 m <sup>3</sup>	1	1	0	1	0	0	0	0	0	0	0	1	1	0	1
<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	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	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	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	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	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	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	0	0	0	0	0	0	0	467	467	0	266
5.2	Maximum Dry Density	Clause 5.2	1 test /1500 m <sup>3</sup>	467	467	0	278	0	0	0	0	0	0	0	467	467	0	278
5.3	Grain size analysis	IS:2720 (Part4)	1 test /3000 m <sup>3</sup>	327	327	0	190	0	0	0	0	0	0	0	327	327	0	190
5.4	Direct shear Test	IS:2720 (Part13)	1 test /3000 m <sup>3</sup>	212	212	0	118	0	0	0	0	0	0	0	212	212	0	118

Sr. No.	Item Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month				Tests conducted during reporting month February 2023						Test 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 onarie	IE	Concessi onarie	IE	Concessi onarie	IE				
<b>6.0 Field Density Test (MoRT&amp;H 305)</b>																	
6.1	Field density (OGL)	IS:2720 (Part28)	1 test /3000 sqm	4069	3949	120	1008	60	20	60	20	0	0	4129	4009	120	1028
6.2	EMB field density	IS:2720 (Part28)	1 test /3000 sqm	92845	89923	2922	17227	682	83	640	80	42	3	93527	90563	2964	17310
6.3	SG field density	IS:2720 (Part28)	1 test /2000 sqm	19104	18615	489	6407	222	58	222	58	0	0	19326	18837	489	6465
6.4	Shoulder field density	IS:2720 (Part28)	1 test /2000 sqm	1203	1160	43	135	10	0	10	0	0	0	1213	1170	43	135
6.5	Ground improvement (Soil)	IS:2720 (Part28)	1 test /2000 sqm	5091	5008	83	611	0	0	0	0	0	0	5091	5008	83	611
6.6	Ground improvement & Median filling (Flyash)	IS:2720 (Part28)	1 test /2000 sqm	37626	36679	947	5026	1728	145	1620	130	108	15	39354	38299	1055	5171
<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	113	100	13	97	0	0	0	0	0	0	113	100	13	97
8.2	Grain size analysis	IS:2720 (Part4)	As required	113	106	7	97	0	0	0	0	0	0	113	106	7	97
8.3	Proctor	IS:2720 (Part8)	As required	113	106	7	97	0	0	0	0	0	0	113	106	7	97
8.4	Direct shear Test	IS:2720 (Part13)	As required	113	94	19	97	0	0	0	0	0	0	113	94	19	97
8.5	Bearing Capacity / Plate Load Test	IS:6403 / IS: 1888	As required	110	56	54	66	0	0	0	0	0	0	110	56	54	66
<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>	1165	1165	0	454	15	10	15	10	0	0	1180	1180	0	464
9.2	Atterberg Limits	IS:2720 (Part5)	1 test/400m <sup>3</sup>	1044	1044	0	377	15	10	15	10	0	0	1059	1059	0	387
9.3	Proctor	IS:2720 (Part8)	As required	60	60	0	58	2	2	2	2	0	0	62	62	0	60
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	6426	6426	0	3790	66	21	66	21	0	0	6492	6492	0	3811
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	2183	2183	0	797	15	10	15	10	0	0	2198	2198	0	807
<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 Sq.m	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Sr. No.	Item Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month				Tests conducted during reporting month February 2023						Test 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 onarie	IE	Concessi onarie	IE	Concessi onarie	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 Sq.m	90	90	0	21	0	0	0	0	0	0	90	90	0	21
<b>12.0 WMM Mix Design</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>	796	796	0	317	9	4	9	4	0	0	805	805	0	321
13.2	Aggregate Impact Value	IS:2386 (Part4)	1 test/1000m <sup>3</sup>	462	462	0	180	9	4	9	4	0	0	471	471	0	184
13.3	Flakiness & Elongation index	IS:2386 (Part1)	1 test/500m <sup>3</sup>	478	478	0	166	7	4	7	4	0	0	485	485	0	170
13.4	Atterberg Limits	IS:2720 (Part5)	1 test/200m <sup>3</sup>	759	759	0	283	9	4	9	4	0	0	768	768	0	287
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	28	28	0	26	1	1	1	1	0	0	29	29	0	27
13.7	CBR	IS:2720 (Part16)	As required	1	1	0	1	0	0	0	0	0	0	1	1	0	1
13.8	Field Density	IS:2720 (Part28)	1 set Test per 1000 Sq.m / 3 pits	1702	1702	0	1001	30	9	30	9	0	0	1732	1732	0	1010
<b>14.0 Dense Bituminous Macadam (Grade - II)</b>																	
14.1	Bitumen Extraction & Gradation		1 Test/400MT	483	483	0	220	6	2	6	2	0	0	489	489	0	222
14.2	Combined Gradation	Table 500 - 18, Grad.II	1 Test/400MT	473	473	0	200	6	2	6	2	0	0	479	479	0	202
14.3	Individual Gradation Sets	Table 500 - 18, Grad.II	1 Test/400MT	472	472	0	203	6	2	6	2	0	0	478	478	0	205
14.4	Flakiness & Elongation index	MoRT&H Table 900 - 4	1 test/350m <sup>3</sup>	306	306	0	135	3	1	3	1	0	0	309	309	0	136
14.5	Aggregate Impact Value	MoRT&H Table 900 - 4	1 test/350m <sup>3</sup>	353	353	0	155	3	1	3	1	0	0	356	356	0	156
14.6	Marshall Density	ASTM D 2726	1 Set/400MT	507	507	0	226	6	2	6	2	0	0	513	513	0	228
14.7	GMM	MoRT&H Table 900 - 4	1 Test/400MT	476	476	0	210	6	2	6	2	0	0	482	482	0	212
14.8	DBM Core Cutting	MoRT&H Table 900 - 4	1 Test/700M <sup>2</sup>	1404	1404	0	777	26	26	26	26	0	0	1430	1430	0	803
<b>Bitumen test (VG-40)</b>																	
14.9	Softening Point	IS:1205 - 1978	1 Test/ 1 lot	240	240	0	106	3	2	3	2	0	0	243	243	0	108
14.10	Penetration	IS:1205 - 1978	1 Test/ 1 lot	240	240	0	106	3	2	3	2	0	0	243	243	0	108
14.11	Viscosity	IS:1205 - 1978	1 Test/ 1 lot	240	240	0	106	3	2	3	2	0	0	243	243	0	108

Sr. No.	Item Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month				Tests conducted during reporting month February 2023						Test 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 onarie	IE	Concessi onarie	IE	Concessi onarie	IE				
<b>15.0 Bituminous Concrete (Grade - II) PMB MCW</b>																	
15.1	Bitumen Extraction & Gradation	IRC:SP:11	1 Test/400MT	280	280	0	157	10	7	10	7	0	0	290	290	0	164
15.2	Combined Gradation	Table 500 - 17, Grad.II	1 Test/400MT	283	283	0	174	10	7	10	7	0	0	293	293	0	181
15.3	Individual Gradation Sets	Table 500 - 17, Grad.II	1 Test/400MT	283	283	0	174	10	7	10	7	0	0	293	293	0	181
15.4	Flakiness & Elongation index	MoRT&H Table 900 - 4	1 test/350m <sup>3</sup>	141	141	0	79	5	4	5	4	0	0	146	146	0	83
15.5	Aggregate Impact Value	MoRT&H Table 900 - 4	1 test/350m <sup>3</sup>	143	143	0	81	5	4	5	4	0	0	148	148	0	85
15.6	Marshall Density	ASTM D 2726	1 Set/400MT	279	279	0	149	10	7	10	7	0	0	289	289	0	156
15.7	GMM	MoRT&H Table 900 - 4	1 Test/400MT	279	279	0	149	10	7	10	7	0	0	289	289	0	156
15.8	BC Core Cutting	MoRT&H Table 900 - 4	1 Test/700M <sup>2</sup>	1072	1072	0	537	30	30	30	30	0	0	1102	1102	0	567
<b>16.0 Bituminous Concrete (Grade - II) VG-40 S/R</b>																	
16.1	Bitumen Extraction & Gradation	IRC:SP:11	1 Test/400MT	68	68	0	31	6	4	6	4	0	0	74	74	0	35
16.2	Combined Gradation	Table 500 - 17, Grad.II	1 Test/400MT	65	65	0	30	6	4	6	4	0	0	71	71	0	34
16.3	Individual Gradation Sets	Table 500 - 17, Grad.II	1 Test/400MT	65	65	0	30	6	4	6	4	0	0	71	71	0	34
16.4	Flakiness & Elongation index	MoRT&H Table 900 - 4	1 test/350m <sup>3</sup>	38	38	0	20	3	2	3	2	0	0	41	41	0	22
16.5	Aggregate Impact Value	MoRT&H Table 900 - 4	1 test/350m <sup>3</sup>	38	38	0	20	3	2	3	2	0	0	41	41	0	22
16.6	Marshall Density	ASTM D 2726	1 Set/400MT	65	65	0	30	6	4	6	4	0	0	71	71	0	34
16.7	GMM	MoRT&H Table 900 - 4	1 Test/400MT	65	65	0	30	6	4	6	4	0	0	71	71	0	34
16.8	BC Core Cutting	MoRT&H Table 900 - 4	1 Test/700M <sup>2</sup>	240	240	0	140	16	16	16	16	0	0	256	256	0	156
<b>Bitumen test (PMB)</b>																	
16.9	Softening Point	IS:1205 - 1978	1 Test/ 1 lot	165	165	0	70	2	1	2	1	0	0	167	167	0	71
16.10	Elastic recovery	IS:15462 - 2019	1 Test/ 1 lot	165	165	0	70	2	1	2	1	0	0	167	167	0	71
<b>17.0 Prime Coat</b>																	
17.0	Rate of Spread of Binder		Three tests per day	1033	1033	0	463	21	3	21	3	0	0	1054	1054	0	466
<b>17.1 Emulsion Test (SS-1)</b>																	
17.1	Say bolt Viscometer	IS:8887-2004	1 Test/ 1 lot	24	24	0	17	0	0	0	0	0	0	24	24	0	17
<b>17.2 Tack Coat</b>																	
17.2	Rate of Spread of Binder		Three tests per day	1388	1388	0	497	81	45	81	45	0	0	1469	1469	0	542
<b>17.3 Emulsion Test (RS-1)</b>																	
17.3	Say bolt Viscometer	IS:8887-2004	1 Test/ 1 lot	15	15	0	12	0	0	0	0	0	0	15	15	0	12
<b>18.0 Fine Aggregate (MoRT&amp;H 1008)</b>																	
18.1	Gradation/ Sieve analysis	IS:2386 (Part1)	1 test per day	2298	2298	0	794	28	15	28	15	0	0	2326	2326	0	809
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	2156	2156	0	722	28	15	28	15	0	0	2184	2184	0	737
18.4	Alkali aggregate reactivity test	IS:2386 (Part-7) IS:456	1 test per source	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.5	Deleterious material/silt	IS:2386 (Part2)	1 test per source	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Sr. No.	Item Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month				Tests conducted during reporting month February 2023						Test 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 onarie	IE	Concessi onarie	IE	Concessi onarie	IE				
<b>19.0 Coarse Aggregate (MoRT&amp;H 1007)</b>																	
19.1	Gradation	IS:2386 (Part1)	1 test per day	2212	2212	0	794	28	15	28	15	0	0	2240	2240	0	809
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	574	574	0	273	4	2	4	2	0	0	578	578	0	275
19.4	Flakiness index	IS:2386 (Part1)	1 test / each source & monthly	539	539	0	256	4	2	4	2	0	0	543	543	0	258
19.5	Soundness	IS:2386 (Part5)	As required	2	2	0	2	0	0	0	0	0	0	2	2	0	2
19.6	Alkali aggregate reactivity test	IS:2386 (Part-7) IS:456	1 test per source	2	2	0	2	0	0	0	0	0	0	2	2	0	2
19.7	Deleterious constituents	IS:2386 (Part2)	1 test per source	2	2	0	2	0	0	0	0	0	0	2	2	0	2
19.8	Petrographic Examination	IS:2386 (Part8)	1 test per source	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<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	615	615	0	286	4	2	4	2	0	0	619	619	0	288
20.3	Normal Consistency	IS:4031 (Part4)	Every batch	587	587	0	286	4	2	4	2	0	0	591	591	0	288
20.4	Initial & Final setting time	IS:4031 (Part5)	Every batch	587	587	0	286	4	2	4	2	0	0	591	591	0	288
20.5	Soundness of Cement	IS:4031 (Part3)	Every batch	531	531	0	252	4	2	4	2	0	0	535	535	0	254
20.6	Compressive Strength-set	IS:4031 (Part6)															
	3 days		1 test per Lot	547	547	0	238	4	2	4	2	0	0	551	551	0	240
	7 days		1 test per Lot	539	539	0	236	4	3	4	3	0	0	543	543	0	239
	28 days		1 test per Lot	536	536	0	224	4	2	4	2	0	0	540	540	0	226
<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	808	808	0	288	17	2	17	2	0	0	825	825	0	290
	28Days Compressive Strength			1362	1362	0	569	20	16	20	16	0	0	1382	1382	0	585
<b>M20 KERB</b>																	
	7Days Compressive Strength	MoRT&H Sec. 1700	MoRT&H Sec. 1700 No of sets	348	348	0	81	5	1	5	1	0	0	353	353	0	82
	28Days Compressive Strength			905	905	0	216	3	1	3	1	0	0	908	908	0	217
<b>M20 RCC</b>																	
	7Days Compressive Strength	MoRT&H Sec. 1700	MoRT&H Sec. 1700 No of sets	432	432	0	117	6	2	6	2	0	0	438	438	0	119
	28Days Compressive Strength			831	831	0	260	28	5	28	5	0	0	859	859	0	265
<b>M20 PCC</b>																	
	7Days Compressive Strength	MoRT&H Sec. 1700	MoRT&H Sec. 1700 No of sets	42	42	0	19	2	0	2	0	0	0	44	44	0	19
	28Days Compressive Strength			49	49	0	20	4	0	4	0	0	0	53	53	0	20
<b>M25 RCC</b>																	
	7Days Compressive Strength	MoRT&H Sec. 1700	MoRT&H Sec. 1700 No of sets	80	80	0	22	1	0	1	0	0	0	81	81	0	22
	28Days Compressive Strength			129	129	0	75	8	6	8	6	0	0	137	137	0	81
<b>M30 RCC</b>																	
	7Days Compressive Strength	MoRT&H Sec. 1700	MoRT&H Sec. 1700 No of sets	881	881	0	303	4	0	4	0	0	0	885	885	0	303
	28Days Compressive Strength			1462	1462	0	568	7	6	7	6	0	0	1469	1469	0	574

Sr. No.	Item Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month				Tests conducted during reporting month February 2023						Test 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 onarie	IE	Concessi onarie	IE	Concessi onarie	IE				
<b>M30 RCC PUMPABLE</b>																	
	7Days Compressive Strength	MoRT&H Sec. 1700	MoRT&H Sec. 1700 No of sets	184	184	0	71	11	5	11	5	0	0	195	195	0	76
	28Days Compressive Strength			462	462	0	234	8	2	8	2	0	0	470	470	0	236
<b>M35 RCC</b>																	
	7Days Compressive Strength	MoRT&H Sec. 1700	MoRT&H Sec. 1700 No of sets	406	406	0	195	3	0	3	0	0	0	409	409	0	195
	28Days Compressive Strength			831	831	0	426	4	4	4	4	0	0	835	835	0	430
<b>M35 PILING</b>																	
	7Days Compressive Strength	MoRT&H Sec. 1700	MoRT&H Sec. 1700 No of sets	987	987	0	518	12	3	12	3	0	0	999	999	0	521
	28Days Compressive Strength			2924	2924	0	1565	5	3	5	3	0	0	2929	2929	0	1568
<b>M35 RCC PUMPABLE</b>																	
	7Days Compressive Strength	MoRT&H Sec. 1700	MoRT&H Sec. 1700 No of sets	1363	1363	0	560	11	5	11	5	0	0	1374	1374	0	565
	28Days Compressive Strength			4135	4135	0	2009	13	7	13	7	0	0	4148	4148	0	2016
<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	1013	1013	0	381	6	4	6	4	0	0	1019	1019	0	385
	28Days Compressive Strength			2217	2217	0	901	16	15	16	15	0	0	2233	2233	0	916
<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	435	435	0	188	0	0	0	0	0	0	435	435	0	188
	28Days Compressive Strength			1114	1114	0	442	0	0	0	0	0	0	1114	1114	0	442
<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 28/02/2023)**

S.NO	B/A NO.	Chainage	Lead Form NH-45C	Side	Suitable For	Approved Qty In M <sup>3</sup>	USED Qty In M <sup>3</sup>	BALANCE Qty In M <sup>3</sup>	Submission Letter No	Approved Letter No	Status	Remark
1	1	Maruvay 61+090	1.5 km	LHS	EMB	18000	17964	36	<a href="#">PSCHPL/SCP/IE/2018/093</a>	<a href="#">TES/IE/SCP/PIL/2018/059</a>	Close	Approved
2	1	61+090 LHS ( Maruvai ) EX - 01	1.5km	LHS	EMB	30000	29946	54	<a href="#">PSCHPL/SCP/IE/2020/656</a>	<a href="#">TES/IE/SC/PIL/2020/470</a>	Close	Approved
3	1	61+090 LHS ( Maruvai ) EX - 02	1.5 KM	LHS	EMB&SUBGRADE	30000	30000	0	<a href="#">PSCHPL/SCP/IE/2020/656</a>	<a href="#">TES/IE/SC/PIL/2020/470</a>	Close	Approved
4	1	61+090 LHS ( Maruvai ) EX - 03	1.5km	LHS	EMB	30000	29970	30	<a href="#">PSCHPL/SCP/IE/2020/670</a>	<a href="#">TES/IE/SC/PIL/2020/477</a>	Close	Approved
5	1	61+090 LHS ( Maruvai ) EX - 04	1.5km	LHS	EMB&SUBGRADE	30000	28596	1404	<a href="#">PSCHPL/SCP/IE/2020/679</a>	<a href="#">TES/IE/SC/PIL/2020/486</a>	Close	Approved
6	1	61+090 LHS ( Maruvai ) EX - 05	1.5km	LHS	EMB	30000	29890	110	<a href="#">PSCHPL/SCP/IE/2020/679</a>	<a href="#">TES/IE/SC/PIL/2020/486</a>	Close	Approved
7	1	61+090 LHS ( Maruvai ) EX - 06	1.5km	LHS	EMB	45000	45000	0	<a href="#">PSCHPL/SCP/IE/2020/683</a>	<a href="#">TES/IE/SC/PIL/2020/500</a>	Close	Approved
8	2	106+350 RHS Kodali	4.0 km	RHS	EMB	18000	15000	3000	<a href="#">PSCHPL/SCP/IE/2018/084</a>	<a href="#">TES/IE/SCP/PIL/2018/061</a>	Close	Approved
9	2	106+350 RHS ( Kodali ) EX - 01	4.0 km	RHS	EMB	30000	12041	17959	<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	10561.4	19438.6	<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	0	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	0	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	0	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	0	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	147100	2900	<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	29994	6	<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	26850	3150	<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	20557	9443	<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	23491	6509	<a href="#">PSCHPL/SCP/IE/2022/1107</a>	<a href="#">TES/IE/SC/PIL/2022/724</a>	Approved		
23	8	98+950 RHS Ponnery	5.0 km	RHS	EMB	30000	29679	321	<a href="#">PSCHPL/SCP/IE/2019/302</a>	<a href="#">TES/IE/SCP/PIL/2019/247</a>	Approved		
24	8	98+950 RHS Ponnery EX-01	5.0 km	RHS	EMB&SUBGRADE	30000	5714	24286	<a href="#">PSCHPL/SCP/IE/2019/488</a>	<a href="#">TES/IE/SCP/PIL/2019/386</a>	Approved		
25	9	106+320 RHS (Uthayanatham)	3.0 km	RHS	EMB	25500	39544	956	<a href="#">PSCHPL/SCP/IE/2019/302</a>	<a href="#">TES/IE/SCP/PIL/2019/247</a>	Approved		
26	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		
27	10	96+600 LHS (Pandianeery)	3.0 km	LHS	EMB	34500	63874	626	<a href="#">PSCHPL/SCP/IE/2019/302</a>	<a href="#">TES/IE/SCP/PIL/2019/247</a>	Approved		
28	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		
29	10	96+600 LHS (Pandianeery) EX-02	3.0 km	LHS	EMB& RE WALL	18000		18000	<a href="#">PSCHPL/SCP/IE/2021/950</a>	<a href="#">TES/IE/SC/PIL/2021/630</a>	Approved		
30	11	88+550 (Kaduvetti)	1.0 Km	LHS	EMB	25500	25816	-316	<a href="#">PSCHPL/SCP/IE/2019/335</a>		Approved		
31	11	88+550 (Kaduvetti) EX - 01	1.0 Km	LHS	EMB&SUBGRADE	30000	28498	1502	<a href="#">PSCHPL/SCP/IE/2019/352</a>	<a href="#">TES/IE/SCP/PIL/2019/280</a>	Approved		
32	12	90+500 Puthueary	7.0 Km	RHS	EMB&SUBGRADE	30000	23157.4	6842.6	<a href="#">PSCHPL/SCP/IE/2019/390</a>	<a href="#">TES/IE/SCP/PIL/2019/307</a>	Approved		
33	12	90+500 Puthueary EX-01	7.0 Km	RHS	RE WALL	30000	17933	12067	<a href="#">PSCHPL/SCP/IE/2019/510</a>				
34	12	90+500 Puthueary EX-02	7.0 Km	RHS	EMB&SUBGRADE	30000	29782	218	<a href="#">PSCHPL/SCP/IE/2020/750</a>				
35	13	87+900 Andi Madam	12.0 Km	RHS	Using For Filter Media								
36	14	87+900 Vilanthai	8.0 km	RHS									
37	15	87+600 Velaneary	4.0 km	RHS	EMB	18000	18193	-193	<a href="#">PSCHPL/SCP/IE/2019/387</a>	<a href="#">TES/IE/SCP/PIL/2019/302</a>	Approved		
38	16	82+900 Aandi Palayam	2.0 Km	RHS	EMB	18000	4576	13424	<a href="#">PSCHPL/SCP/IE/2019/381</a>	<a href="#">TES/IE/SCP/PIL/2019/299</a>	Approved		
39	16	82+900 Aandi Palayam EX-01	2.0 Km	RHS	RE WALL	36000	35953	47	<a href="#">PSCHPL/SCP/IE/2019/501</a>	<a href="#">TES/IE/SC/PIL/2019/390</a>	Approved		
40	16	82+900 Aandi Palayam EX-02	2.0 Km	RHS	SUBGRADE& RE WALL	30000	30000	0	<a href="#">PSCHPL/SCP/IE/2020/758</a>	<a href="#">TES/IE/SC/PIL/2020/528</a>	Approved		
41	16	82+900 Aandi Palayam EX-03	2.0 Km	RHS	SUBGRADE& RE WALL	30000	30000	0	<a href="#">PSCHPL/SCP/IE/2021/937</a>	<a href="#">TES/IE/SC/PIL/2021/626</a>	Approved		

42	16	82+900 Aandi Palayam EX-04	2.0 Km	RHS	SUBGRADE& RE WALL	45000	44999.2	0.8	<a href="#">PSCHPL/SCP/IE/2021/977</a>	<a href="#">TES/IE/SC/PIL/2021/637</a>	Approved
43	16	82+900 Aandi Palayam EX-05	2.0 Km	RHS	SUBGRADE& RE WALL	30000	29923.2	76.8	<a href="#">PSCHPL/SCP/IE/2022/1126</a>	<a href="#">TES/IE/SC/PIL/2022/740</a>	Approved
44	16	82+900 Aandi Palayam EX-06	2.0 Km	RHS	SUBGRADE& RE WALL	30000	21331.8	8668.2	<a href="#">PSCHPL/SCP/IE/2022/1139</a>	<a href="#">TES/IE/SC/PIL/2022/749</a>	Approved
45	16	82+900 Aandi Palayam EX-07	2.0 Km	RHS	SUBGRADE& RE WALL	30000		30000	<a href="#">PSCHPL/SCP/IE/2022/1217</a>	<a href="#">TES/IE/SC/PIL/2022/797</a>	Approved
46	17	94+400 kundaveli East	1.0 Km	LHS	EMB	30000	7428	22572	<a href="#">PSCHPL/SCP/IE/2019/408</a>	<a href="#">TES/IE/SC/PIL/2019/320</a>	Approved
47	18	83+000 Vanamadevi	1.0 Km	LHS	EMB	15000	5338	9662	<a href="#">PSCHPL/SCP/IE/2019/397</a>	<a href="#">TES/IE/SC/PIL/2019/314</a>	Approved
48	19	101+900 Thaluthalai Medu	1.0 Km	RHS	EMB	30000	22129	7871	<a href="#">PSCHPL/SCP/IE/2019/422</a>	<a href="#">TES/IE/SC/PIL/2019/355</a>	Approved
49	20	110+100 Athipakkam	6.0 km	RHS	EMB	15000	2580	12420	<a href="#">PSCHPL/SCP/IE/2019/452</a>	<a href="#">TES/IE/SC/PIL/2019/354</a>	Approved
50	21	103+200 Vembankudi	0.5 Km	LHS	SUBGRADE& RE WALL	30000	30000	0	<a href="#">PSCHPL/SCP/IE/2019/463</a>	<a href="#">TES/IE/SC/PIL/2019/362</a>	Approved
51	21	103+200 Vembankudi EX-01	0.5 Km	LHS	SUBGRADE& RE WALL	22500	20087	2413	<a href="#">PSCHPL/SCP/IE/2020/717</a>	<a href="#">TES/IE/SC/PIL/2020/504</a>	Approved
52	21	103+200 Vembankudi EX-02	0.5 Km	LHS	SUBGRADE& RE WALL	30000	27416	2584	<a href="#">PSCHPL/SCP/IE/2020/775</a>	<a href="#">TES/IE/SC/PIL/2020/538</a>	Approved
53	22	97+300 Muthuservamadam	2.0 Km	RHS	EMB	30000	20786	9214	<a href="#">PSCHPL/SCP/IE/2019/447</a>	<a href="#">TES/IE/SC/PIL/2019/349</a>	Approved
54	23	80+500 Kandiyankuppam	15.00	RHS	EMB&SUBGRA DE	30000	59699	301	<a href="#">PSCHPL/SCP/IE/2019/561</a>	<a href="#">TES/IE/SC/PIL/2019/418</a>	Approved
55	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
56	23	80+500 Kandiyankuppam EX - 02	15.00	RHS	EMB&SUBGRA DE	30000	29538	462	<a href="#">PSCHPL/SCP/IE/2021/812</a>	<a href="#">TES/IE/SC/PIL/2021/555</a>	Approved
57	23	80+500 Kandiyankuppam EX - 03	15.00	RHS	EMB&SUBGRA DE	30000	28380	1620	<a href="#">PSCHPL/SCP/IE/2021/845</a>	<a href="#">TES/IE/SC/PIL/2021/576</a>	Approved
58	24	106+900 Karaikuruchi	20.00	RHS	EMB	15000	15000	0	<a href="#">PSCHPL/SCP/IE/2020/636</a>	<a href="#">TES/IE/SC/PIL/2020/453</a>	Approved
59	24	106+900 Karaikuruchi EX - 01	20.00	RHS	SUBGRADE	30000	29711.5	288.5	<a href="#">PSCHPL/SCP/IE/2020/691</a>	<a href="#">TES/IE/SC/PIL/2020/491</a>	Approved
60	24	106+900 Karaikuruchi EX - 02	20.00	RHS	SUBGRADE	30000	29981.6	18.4	<a href="#">PSCHPL/SCP/IE/2021/961</a>	<a href="#">TES/IE/SC/PIL/2021/632</a>	Approved
61	24	106+900 Karaikuruchi EX - 03	20.00	RHS	SUBGRADE	30000	12384.4	17615.6	<a href="#">PSCHPL/SCP/IE/2021/1018</a>	<a href="#">TES/IE/SC/PIL/2021/654</a>	Approved
62	25	90+500 RHS (IDAIPALLAM)	6.00	LHS	EMB	15000	8255	6745	<a href="#">PSCHPL/SCP/IE/2020/637</a>	<a href="#">TES/IE/SC/PIL/2020/454</a>	Approved
63	25	90+500 RHS (IDAIPALLAM) EX-01	6.00	RHS	EMB&SUBGRA DE	30000	20228	9772	<a href="#">PSCHPL/SCP/IE/2020/640</a>	<a href="#">TES/IE/SC/PIL/2020/469</a>	Approved

64	26	98+900 LHS ( kommedu )	19.00	RHS	EMB&SUBGRADE	30000	28212	1788	<a href="#">PSCHPL/SCP/IE/2020/661</a>	<a href="#">TES/IE/SC/PIL/2020/472</a>	Approved
65	27	91+400RHS ( pappakudi )	0.80	RHS	EMB	15000	14957	43	<a href="#">PSCHPL/SCP/IE/2020/657</a>	<a href="#">TES/IE/SC/PIL/2020/471</a>	Approved
66	28	92+600 RHS Chokalingapuram	0.70	RHS	EMB&SUBGRADE	30000	29982	18	<a href="#">PSCHPL/SCP/IE/2020/676</a>	<a href="#">TES/IE/SC/PIL/2020/471</a>	Approved
67	28	92+600 RHS Chokalingapuram EX-01	0.70	RHS	SUBGRADE	30000	26657	3343	<a href="#">PSCHPL/SCP/IE/2020/838</a>	<a href="#">TES/IE/SC/PIL/2020/568</a>	Approved
68	28	92+600 RHS Chokalingapuram EX-02	0.70	RHS	SUBGRADE	30000		30000	<a href="#">PSCHPL/SCP/IE/2022/1165</a>	<a href="#">TES/IE/SC/PIL/2022/779</a>	Approved
69	29	90+580 RHS Irudhayapuram	10.00	RHS	EMB	15000	13500	1500	<a href="#">PSCHPL/SCP/IE/2020/711</a>	<a href="#">TES/IE/SC/PIL/2020/501</a>	Approved
70	30	80+500 RHS Keelpathi	6.00	RHS	EMB & SUBGRADE	15000	14949	51	<a href="#">PSCHPL/SCP/IE/2020/711</a>	<a href="#">TES/IE/SC/PIL/2020/501</a>	Approved
71	30	80+500 RHS Keelpathi EX - 1	6.00	RHS	EMB & SUBGRADE	30000	29936	64	<a href="#">PSCHPL/SCP/IE/2021/926</a>	<a href="#">TES/IE/SC/PIL/2021/618</a>	Approved
72	30	80+500 RHS Keelpathi EX - 2	6.00	RHS	EMB & SUBGRADE	30000	27834	2166	<a href="#">PSCHPL/SCP/IE/2021/927</a>	<a href="#">TES/IE/SC/PIL/2021/619</a>	Approved
73	31	87+600 RHS Thirukalappur	10.00	RHS	SUBGRADE	30000	26955	3045	<a href="#">PSCHPL/SCP/IE/2020/717</a>	<a href="#">TES/IE/SC/PIL/2020/504</a>	Approved
74	32	106+300 RHS Keelnatham	35.00	RHS	SUBGRADE& RE WALL	30000	2947	27053	<a href="#">PSCHPL/SCP/IE/2020/725</a>	<a href="#">TES/IE/SC/PIL/2020/505</a>	Approved
75	33	87+600 RHS Thathur	10.00	RHS	EMB& RE WALL	30000	21273	8727	<a href="#">PSCHPL/SCP/IE/2020/736</a>	<a href="#">TES/IE/SC/PIL/2020/511</a>	Approved
76	35	115+250 RHS KADAMPANKUDI	6.00	RHS	EMB& RE WALL	30000	8811.2	21188.8	<a href="#">PSCHPL/SCP/IE/2020/812</a>		
77	36	Thirukalapur kuppam	7.00	RHS	SUB & RE WALL	30000	29989	11	<a href="#">PSCHPL/SCP/IE/2020/838</a>	<a href="#">TES/IE/SC/PIL/2020/569</a>	Approved
78	36	Thirukalapur kuppam Ex - 1	7.00	RHS	SUB & RE WALL	30000	27334	2666	<a href="#">PSCHPL/SCP/IE/2021/887</a>	<a href="#">TES/IE/SC/PIL/2021/598</a>	Approved
79	36	Thirukalapur kuppam Ex - 2	7.00	RHS	SUB & RE WALL	30000	27563	2437	<a href="#">PSCHPL/SCP/IE/2021/936</a>	<a href="#">TES/IE/SC/PIL/2021/625</a>	Approved
80	37	Manalmedu(109+350)	10.00	RHS	EMB	18000	2249.5	15750.5	<a href="#">PSCHPL/SCP/IE/2021/844</a>	<a href="#">TES/IE/SC/PIL/2021/574</a>	Approved
81	38	Melur ( 98+900 )	18.00	RHS	SUB & RE WALL	30000	23993.6	6006.4	<a href="#">PSCHPL/SCP/IE/2021/847</a>	<a href="#">TES/IE/SC/PIL/2021/578</a>	Approved
82	38	Melur ( 98+900 ) EX - 1	18.00	RHS	SUB & RE WALL	30000	5685	24315	<a href="#">PSCHPL/SCP/IE/2021/886</a>	<a href="#">TES/IE/SC/PIL/2021/599</a>	Approved
83	39	Thirukalapur South (87+600 )	10.00	RHS	EMB	18000	2415	15585	<a href="#">PSCHPL/SCP/IE/2021/853</a>	<a href="#">TES/IE/SC/PIL/2021/584</a>	Approved
84	40	Kaduvetti (88+750)	0.5KM	RHS	EMB & RE Wall Median filling	30000	29715	285	<a href="#">PSCHPL/SCP/IE/2021/954</a>	<a href="#">TES/IE/SC/PIL/2021/631</a>	Approved
85	41	Simustnam	17KM	RHS	SUB GRADE & RE WALL	30000	29959	41	<a href="#">PSCHPL/SCP/IE/2022/1062</a>	<a href="#">TES/IE/SC/PIL/2022/669</a>	Approved

86	41	Simustnam (ex-01)	17KM	RHS	SUB GRADE & RE WALL	30000	29294	706	<a href="#">PSCHPL/SCP/IE/2022/1086</a>	<a href="#">TES/IE/SC/PIL/2022/686</a>	Approved
87	41	Simustnam (ex-02)	17KM	RHS	SUB GRADE & RE WALL	30000	29739	261	<a href="#">PSCHPL/SCP/IE/2022/1102</a>	<a href="#">TES/IE/SC/PIL/2022/717</a>	Approved
88	41	Simustnam (ex-03)	17KM	RHS	SUB GRADE & RE WALL	30000	15250	14750	<a href="#">PSCHPL/SCP/IE/2022/1118</a>	<a href="#">TES/IE/SC/PIL/2022/784</a>	Approved
89	41	Simustnam (ex-04)	17KM	RHS	SUB GRADE & RE WALL	30000		30000	<a href="#">PSCHPL/SCP/IE/2022/1201</a>	<a href="#">TES/IE/SC/PIL/2022/803</a>	Approved
90	42	Silal	12KM	RHS	EMB	18000	17790	210	<a href="#">PSCHPL/SCP/IE/2022/1139</a>	<a href="#">TES/IE/SC/PIL/2022/746</a>	Approved
91	43	Kodangudi	44KM	RHS	EMB,SUB	30000		30000	<a href="#">PSCHPL/SCP/IE/2022/1170</a>	<a href="#">TES/IE/SC/PIL/2022/783</a>	Approved
92	44	Stahampadi	41KM	RHS	RE WALL	30000		30000	<a href="#">PSCHPL/SCP/IE/2023/1300</a>	<a href="#">TES/IE/SC/PIL/2023/828</a>	Approved
93	45	Suthamalli	43KM	RHS	EMB	30000	7461	22539	<a href="#">PSCHPL/SCP/IE/2023/1376</a>	<a href="#">TES/IE/SC/PIL/2023/850</a>	Approved

TOTAL QTY EMB M <sup>3</sup>						883500					
TOTAL QTY SUBGRADE M <sup>3</sup>						60000					
TOTAL QTY EMB&SUBGRADE M <sup>3</sup>						435000					
TOTAL QTY RE WALL M <sup>3</sup>						66000					
TOTAL QTY SUBGARDE&RE WALL M <sup>3</sup>						262500					
TOTAL EMB & RE WALL M <sup>3</sup>						60000					
TOTAL QTY M <sup>3</sup>						1767000					

**FLYASH CONSUMPTION (UPTO 28/02/2023)**

1	1	FLYASH Ex-01	30 Km	LHS	RE WALL	25500	661611	4389	<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			<a href="#">PSCHPL/SCP/IE/2019/448</a>	<a href="#">TES/IE/SC/PIL/2019/350</a>	Approved
4	4	FLYASH EX-04	30 Km	LHS		30000			<a href="#">PSCHPL/SCP/IE/2019/489</a>	<a href="#">TES/IE/SC/PIL/2019/385</a>	Approved
5	5	FLYASH EX-05	30 Km	LHS		45000			<a href="#">PSCHPL/SCP/IE/2019/518</a>	<a href="#">TES/IE/SC/PIL/2019/400</a>	Approved
6	6	FLYASH EX-06	30 Km	LHS		30000			<a href="#">PSCHPL/SCP/IE/2019/570</a>	<a href="#">TES/IE/SC/PIL/2019/430</a>	Approved
7	7	FLYASH EX-07	30 Km	LHS		30000			<a href="#">PSCHPL/SCP/IE/2019/571</a>	<a href="#">TES/IE/SC/PIL/2019/431</a>	Approved
8	8	FLYASH EX-08	30 Km	LHS		30000			<a href="#">PSCHPL/SCP/IE/2020/728</a>	<a href="#">TES/IE/SC/PIL/2020/512</a>	Approved
9	9	FLYASH EX-09	30 Km	LHS		30000			<a href="#">PSCHPL/SCP/IE/2020/761</a>	<a href="#">TES/IE/SC/PIL/2020/527</a>	Approved
10	10	FLYASH EX-10	30 Km	LHS		30000			<a href="#">PSCHPL/SCP/IE/2021/814</a>	<a href="#">TES/IE/SC/PIL/2021/554</a>	Approved
11	11	FLYASH EX-11	30 Km	LHS		30000			<a href="#">PSCHPL/SCP/IE/2021/828</a>	<a href="#">TES/IE/SC/PIL/2021/558</a>	Approved
12	12	FLYASH EX-12	31 Km	LHS		30000			<a href="#">PSCHPL/SCP/IE/2021/846</a>	<a href="#">TES/IE/SC/PIL/2021/577</a>	Approved
13	13	FLYASH EX-13	30 Km	LHS		30000					Approved

14	14	FLYASH EX-14	31 Km	LHS
15	15	FLYASH EX-15	31 Km	LHS
16	16	FLYASH EX-16	32 Km	LHS
17	17	FLYASH EX-17	32 Km	LHS
18	18	FLYASH EX-18	32 Km	LHS
19	19	FLYASH EX-19	32 Km	LHS
20	20	FLYASH EX-20	32 Km	LHS
21	21	FLYASH EX-21	32 Km	LHS

30000
30000
30000
30000
45000
60000
45000
30000

<a href="#">PSCHPL/SCP/IE/2021/919</a>	<a href="#">TES/IE/SC/PIL/2021/613</a>		Approved
<a href="#">PSCHPL/SCP/IE/2021/917</a>	<a href="#">TES/IE/SC/PIL/2021/612</a>		Approved
<a href="#">PSCHPL/SCP/IE/2021/949</a>	<a href="#">TES/IE/SC/PIL/2021/629</a>		Approved
<a href="#">PSCHPL/SCP/IE/2021/960</a>	<a href="#">TES/IE/SC/PIL/2021/633</a>		Approved
<a href="#">PSCHPL/SCP/IE/2021/964</a>	<a href="#">TES/IE/SC/PIL/2021/634</a>		Approved
<a href="#">PSCHPL/SCP/IE/2022/1092</a>	<a href="#">TES/IE/SC/PIL/2022/690</a>		Approved
<a href="#">PSCHPL/SCP/IE/2023/1371</a>	<a href="#">TES/IE/SC/PIL/2023/846</a>		Approved

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

**SOURCE APPROVAL SUMMARY**

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



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

7. Weather Report -Meensurutti

DATE	Temperature (°C)		Rainfall in mm	Humidity in %		Remarks
	Max	Min		Max	Min	
1-Feb-2023	28.7	25.0	0.00	87	54	Cloudy
2-Feb-2023	27.4	24.2	12.00	88	60	Rainy
3-Feb-2023	28.1	24.3	10.00	95	58	Rainy
4-Feb-2023	29.2	25.2	0.00	91	60	Sunny
5-Feb-2023	30.1	24.9	0.00	88	56	Sunny
6-Feb-2023	31.2	23.2	0.00	86	57	Sunny
7-Feb-2023	31.7	23.2	0.00	88	56	Sunny
8-Feb-2023	32.1	24.1	0.00	84	54	Sunny
9-Feb-2023	33.4	24.2	0.00	86	50	Sunny
10-Feb-2023	32.9	25.1	0.00	82	51	Sunny
11-Feb-2023	31.7	24.3	0.00	81	53	Sunny
12-Feb-2023	32.6	23.5	0.00	80	54	Sunny
13-Feb-2023	31.9	22.2	0.00	77	53	Sunny
14-Feb-2023	31.8	22.5	0.00	84	54	Sunny
15-Feb-2023	31.9	22.6	0.00	85	52	Sunny
16-Feb-2023	32.4	23.1	0.00	84	54	Sunny
17-Feb-2023	32.9	22.8	0.00	79	55	Sunny
18-Feb-2023	32.2	22.5	0.00	79	58	Sunny
19-Feb-2023	32.3	22.8	0.00	80	54	Sunny
20-Feb-2023	32.9	24.0	0.00	85	53	Sunny
21-Feb-2023	33.5	23.1	0.00	86	50	Sunny
22-Feb-2023	32.6	23.8	0.00	76	51	Sunny
23-Feb-2023	33.4	22.9	0.00	78	52	Sunny
24-Feb-2023	33.8	23.8	0.00	76	52	Sunny
25-Feb-2023	32.8	23.7	0.00	70	54	Sunny
26-Feb-2023	33.1	23.8	0.00	70	52	Sunny
27-Feb-2023	33.6	23.6	0.00	76	54	Sunny
28-Feb-2023	30.2	25.1	20.00	81	52	Rainy

## Weather Report Annakarai

Date	Temperature (°C)		Rainfall in mm	Humidity in %		Remarks
	Max	Min		Max	Min	
1-Feb-2023	30.6	24.7	7.00	86	54	Rainy
2-Feb-2023	28.7	24.4	12.00	87	59	Rainy
3-Feb-2023	29.4	24.1	13.00	90	61	Rainy
4-Feb-2023	30.2	25.3	0.00	91	57	Sunny
5-Feb-2023	31.1	23.9	0.00	89	60	Sunny
6-Feb-2023	30.8	23.7	0.00	86	56	Sunny
7-Feb-2023	31.5	23.4	0.00	88	58	Sunny
8-Feb-2023	31.8	24.2	0.00	85	54	Sunny
9-Feb-2023	32.4	23.7	0.00	89	51	Sunny
10-Feb-2023	32.7	23.4	0.00	91	49	Sunny
11-Feb-2023	31.9	24.5	0.00	83	53	Sunny
12-Feb-2023	32.9	23.3	0.00	80	48	Sunny
13-Feb-2023	33.2	24.1	0.00	84	50	Sunny
14-Feb-2023	33.6	24.5	0.00	89	52	Sunny
15-Feb-2023	32.1	23.1	0.00	83	51	Sunny
16-Feb-2023	32.3	22.8	0.00	81	54	Sunny
17-Feb-2023	32.7	23.2	0.00	82	57	Sunny
18-Feb-2023	32.5	24.1	0.00	80	54	Sunny
19-Feb-2023	31.9	22.6	0.00	86	51	Sunny
20-Feb-2023	32.9	23.4	0.00	87	48	Sunny
21-Feb-2023	31.8	24.1	0.00	80	51	Sunny
22-Feb-2023	31.4	23.8	0.00	86	47	Sunny
23-Feb-2023	30.8	23.1	0.00	89	46	Sunny
24-Feb-2023	31.6	24.2	0.00	91	50	Sunny
25-Feb-2023	33.1	23.4	0.00	87	46	Sunny
26-Feb-2023	32.4	24.4	0.00	90	49	Sunny
27-Feb-2023	34.2	23.9	0.00	86	47	Sunny
28-Feb-2023	32.7	23.4	6.00	90	48	Rainy

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

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



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

1. Pending Disbursement of Payment to the beneficiaries from CALA towards Land and Buildings in Cuddalore, Ariyalur & Thanjavur District. – Request Authority to advise/instruct the Competent Authority of Land Acquisition to speed up the process of disbursement of pending payment.
2. Additional land acquisition for bus bays, turning radius of major junctions along the project highways.
3. NOC from PWD/WRO, Govt of Tamil Nadu for construction of Minor Bridge and Major Bridge as per below:-

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

4. Insufficient Right of Way with respect to the land handed over as per Clause 10.3.1 of Concession Agreement at the time of Signing of Joint Memorandum.
5. NOC from PWD/WRO, Govt. of Tamil Nadu for construction of project highways in the existing pond locations as mentioned below in the tabular form:-

Sl No	Chainage		Length Affected (M)	Side	AVG Toe Width from CL "A"	Width/distance of Pond Edge from CL "C"
	From	To				
1	75+557	75+632	74.75	RHS	32.50	7.00
2	77+330	77+400	70.00	LHS	28.16	3.00
3	80+396	80+415	19.00	LHS	27.00	7.00
4	80+400	80+423	23.00	RHS	24.00	6.50
5	97+376	97+535	159.00	RHS	32.67	11.00
6	100+350	100+389	39.00	LHS	22.70	4.00
7	103+039	103+056	17.60	LHS	23.00	6.60
8	103+125	103+360	235.00	LHS	23.00	6.00
9	104+091	104+262	171.00	RHS	23.00	16.80
10	103+992	104+264	271.50	LHS	23.00	10.90
<b>TOTAL</b>			<b>1079.85</b>			

6. Estimate for shifting of water supply utilities in Missing locations-Request from the Authority for earlier Approval.
7. With reference to our several correspondence time to time vide which we intimated the matter of enforced nationwide lockdown as well as its impact on the Project Highway, the World

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

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

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

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

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

ground we could not restrict them from going to their hometown and many migrant labours / staffs have registered their name for the movement to their hometown.

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

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

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

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

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

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

Due to many restrictions in persisting conditions, arise due to occurring of 2nd wave of Extra ordinary event COVID-19, the supply chain of required material is being disturbed and not in smooth shape which leads to hampering the work progress during this valuable working season. Due to surge in cases of 2nd wave of COVID-19 drastically day by day and additional lockdown like restriction imposing by State Government, migrants labours are leaving the state and going to their native place under the fear of prevailing situation. Further migrant's labours who were gone their home at Holi Festival are not returning due to fear and precarious situation of the spike of COVID-19 pandemic. Due to this condition, we are facing acute shortage of labour/operator/driver for the construction activities in Project Highway and work is being affected because of the impediments beyond the control of the Concessionaire. It is also

pertaining to mention that despite taking all necessary precaution and follow the safety guidelines of COVID-19, unfortunately, our many manpower including senior-level deployed at in Project i.e. Sethiyahopu- Cholapuram Section have been infected by COVID-19 and our both base camp (i.e. Meensuruti Base Camp & Anakarai Base Camp) have been sealed by the Block Medical officer, Govt. Community Health Center, Ariyalur despite that incident was beyond our control.

10. COVID-19 cases due to 3<sup>rd</sup> wave is being drastically increased and occurring never-seen before spikes in infected cases of COVID-19 day by day. You may also aware that in our country 3.47 Lakh new cases in a day have been recorded on 20.01.2022, which is already bigger than the peak of the first wave of this pandemic in India and continuously increasing day by day.

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

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

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



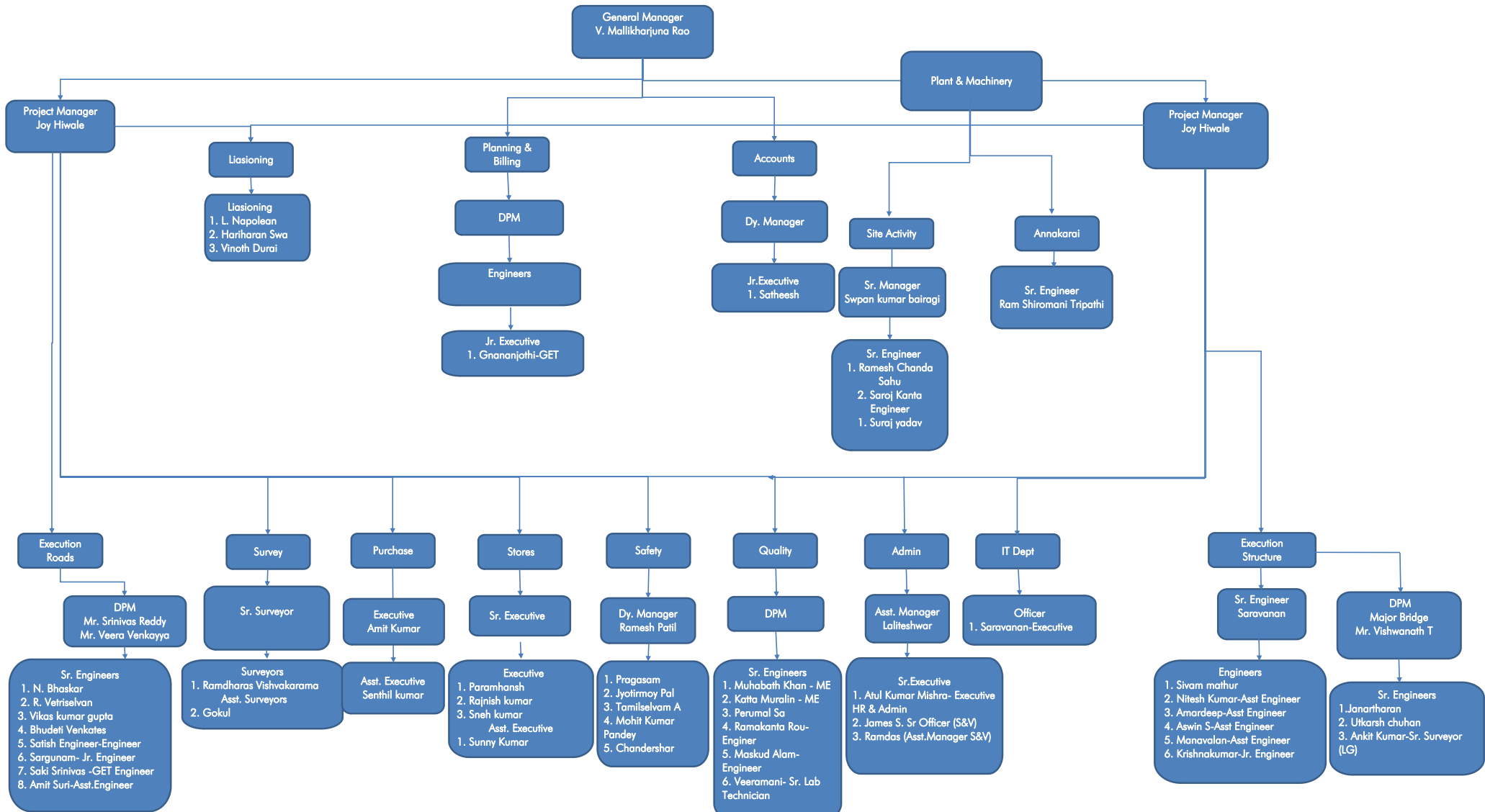
Table 10.1. Details of Important Events

Sl. No.	Date of Events	Description of Events	Remarks
1	04.02.2023	Site Visit by RO, Madurai	
2	23.02.2023	Site visit by Joint Advisor (Environment & Plantations)	

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

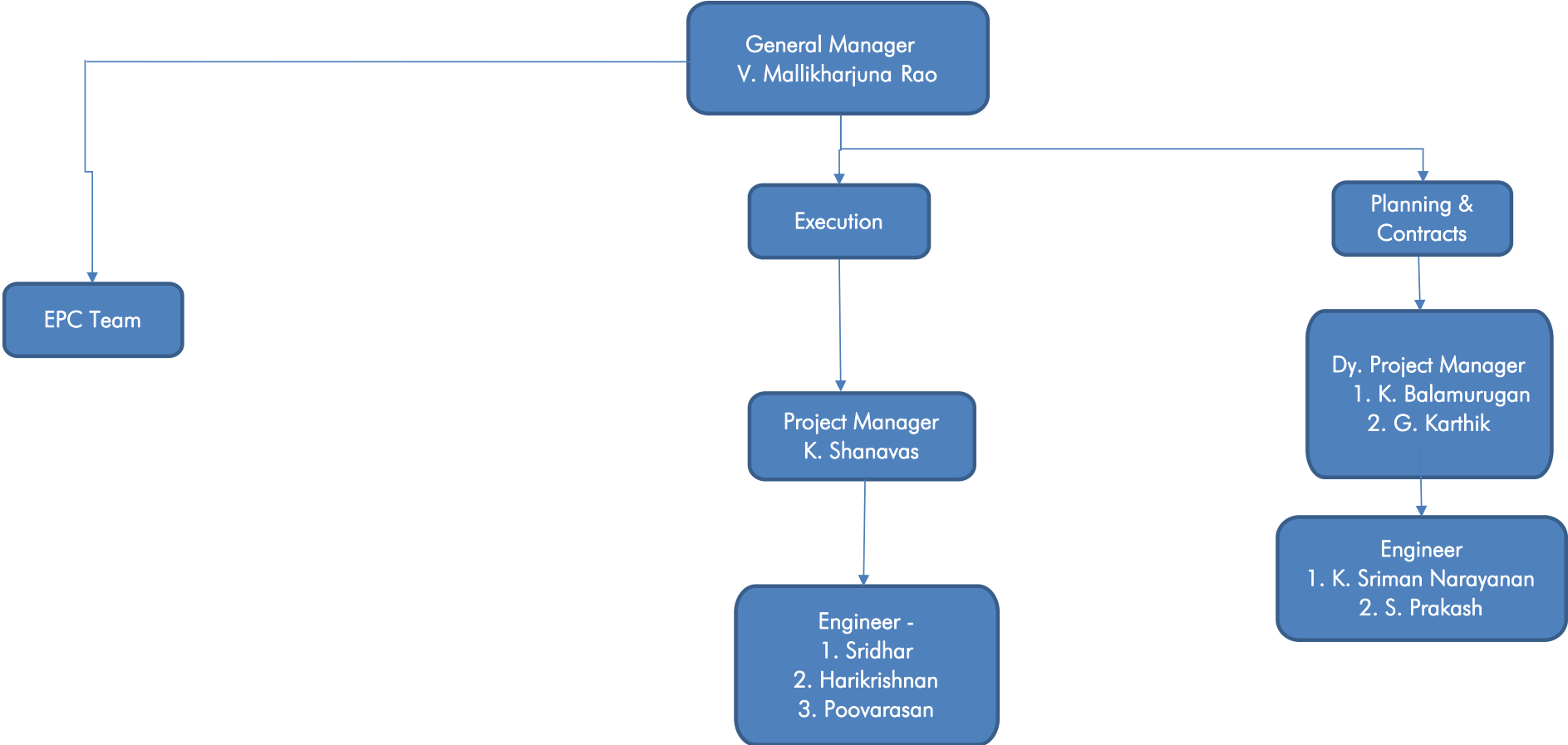


Table 12.1 Mobilization of Manpower

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



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

Table 15.1. - Concessionaire to NHAI

Table 15.2. - NHAI to Concessionaire

Table 15.3. - Concessionaire to Independent Engineer

Table 15.4. - Independent Engineer to Concessionaire

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

TABLE 14.1 - CORRESPONDENCE - CONCESSIONAIRE TO NHAI

Sr. No.	Date	Letter No	Subject	Remarks
1	02.02.2023	PSCHPL/SCP/NHAI/2023/1353	RA Bill. No. 02-Shifting of infringement of Veeranam pipeline pertaining to CMWSSB-reg	
2	03.02.2023	PSCHPL/SCP/NHAI/2023/1356	Request for release of withheld amounts in the Annuity Payments against damages-Reg	
3	06.02.2023	PSCHPL/SCP/NHAI/2023/1360	Construction activities hampered due to Unseasonal Heavy rainfall over the project Alignment	
4	07.02.2023	PSCHPL/SCP/NHAI/2023/1364	Request for the release of Mobilization bank guarantee in pursuant to provision provided under Cl. 23.8 of CA-reg	
5	10.02.2023	PSCHPL/SCP/NHAI/2023/1368	Recording of Drone video for the month of January 2023-reg	
6	13.02.2023	PSCHPL/SCP/NHAI/2023/1370	Construction activities hampered due to continuous rapid heavy water flow in the rivers-reg	
7	23.02.2023	PSCHPL/SCP/NHAI/2023/1383	Shifting of Veeranam Pipeline pertaining to CMWSSB-Crossing of irrigation PWD Distribution channel at 66+390-reg	
8	24.02.2023	PSCHPL/SCP/NHAI/2023/1387	Submission of Extended CAR policy-reg	
9	28.02.2023	PSCHPL/SCP/NHAI/2023/1394	Release of first year Biannual O&M payment as per Cl. 23.7 of CA and provisions of SA-Request to release balance amount	

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 - CORRESPONDENCE - NHAI TO CONCESSIONAIRE**

Sr. No.	Date	Letter No	Subject	Remarks
1	01.02.2023	NHAI/PIU/Thanj/11021/52/2009/332	Request for permission to lay underground OFC in the limits of National highways-Observation made by competent authority-proposal returned-reg	
2	02.02.2023	NHAI/PIU/Thanj/11025/09/2018/322	Shifting of infringement of veeranam pipeline pertaining to CMWSSB-reg	
3	02.02.2023	NHAI/PIU/Thanjavur/11025/11/2018/306	Stealing of street lights from the Project Highway by unknown persons-reg	
4	06.02.2023	NHAI/PIU/Thanj/11025/09/2018/350	Shifting of Infringement of veeranam pipeline pertaining to CMWSSB-reg	
5	07.02.2023	NHAI/PIU/Thanj/11025/03/2018/370	Request to provide median opening at Palayamkottai Panchayat-reg	
6	07.02.2023	NHAI/PIU/Thanj/11025/09/2018/379	Shifting of existing drainage inlet sluices at Km. 81.850, 82.100, 81.870, 81.910 & 82.010 along with construction of 3 new inlets by WRD-PWD and box culverts of 3 vents of 3mx2.5m	
7	16.02.2023	NHAI/PIU/Thanj/11025/09/2018/424	Shifting of construction of weir at Km 103+990 near Kuzhavadayyan Periya Eri in Vembukudi Panchayat-JE, Panchayat Union T.Palur- Approval communicated-work order issued-reg	
8	17.02.2023	NHAI/PIU/Thanj/11025/09/2018/426	Reimbursement of GST for Utility shifting of Veeranam Pipeline RA Bill no.1 -reg	
9	20.02.2023	NHAI/PIU/Thanj/11025/09/2018/473	RA Bill no.13- Payment Intimation-reg	
10	20.02.2023	NHAI/PIU/Thanj/11017/01/2009/476	Representation from Hon'ble MP Chidambaram parliament constituency-Request to provide subway and new bus stop in cholatharam village-Additional details called report submitted	
11	24.02.2023	NHAI/PIU/Thanj/11019/52/2017/509	Independent consultancy services for the month of Dec-2022-50% claim-reg	
12	27.02.2023	NHAI/PIU/Thanj/11025/09/2018/531	Shifting of Veeranam Pipeline pertaining CMWSSB-Crossing of Irrigation-PWD Distribution channel at Km 66.390-Report called for-reg	

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

TABLE 14.3 - CORRESPONDENCE - CONCESSIONAIRE TO INDEPENDENT ENGINEER

Sr. No.	Date	Letter No	Subject	Remarks
1	06.02.2023	PSCHPL/SCP/IE/2023/1361	Submission of Monthly Progress Report for the month of January 2023-reg	
2	07.02.2023	PSCHPL/SCP/IE/2023/1363	Submission of IPC 05 of 4th PMS against monthly executed work as per NHAI Policy Guidelines dated 22.06.2020-reg	
3	08.02.2023	PSCHPL/SCP/IE/2023/1365	Submission of Monthly Status & Management (O&M) Report for the month of January 2023-reg	
4	13.02.2023	PSCHPL/SCP/IE/2023/1371	Submission of Test Reports for Fly Ash (Ex No-21)-Reg	
5	16.02.2023	PSCHPL/SCP/IE/2023/1375	Submission of calibration test certificate for Hydraulic Jacks-reg	
6	16.02.2023	PSCHPL/SCP/IE/2023/1376	Soil test report for the proposed borrow area of the project (BA No. 45)-Reg	
7	18.02.2023	PSCHPL/SCP/IE/2023/1378	Comprehensive PCOD-2 proposal- Conducting of necessary tests as per CI 14.1 and as per schedule I of CA-reg	
8	22.02.2023	PSCHPL/SCP/IE/2023/1381	Submission of Yearly maintenance program as per Cl. 17.4 of CA-reg	
9	24.02.2023	PSCHPL/SCP/IE/2023/1385	Compliance report for Review and comments of IE on Concessionaires Monthly Status & Management (O&M) report for the month of January 2023-reg	
10	24.02.2023	PSCHPL/SCP/IE/2023/1386	Compliance report for Review and comments of IE on Concessionaires Monthly Progress Report for the month of January 2023-reg	

**Four laning of Sethiyahopu to Cholapuram from Km 65.960 to 116.440 section of NH-45C in the state of Tamilnadu under NHDP-IV on Hybrid Annuity Mode.**

**TABLE 14.4 - CORRESPONDENCE - INDEPENDENT ENGINEER TO CONCESSIONAIRE / NHAI**

Sr. No.	Date	Letter No	Subject	Remarks
1	06.02.2023	TES/IE/SCP/NHAI/2023/529	Shifting of Infringement of Veeranam Pipeline pertaining to CMWSSB RA Bill No-1-reg	
2	06.02.2023	TES/IE/SC/PIL/2023/839	Minutes of meeting dated 24.01.2023-reg	
3	07.02.2023	TES/IE/SCP/NHAI/2023/530	Public representation from Kumarakudi Panchayat to provide service road from Kumarakudi to Vellar river on NH45C-reg	
4	07.02.2023	TES/IE/SCP/NHAI/2023/531	IE Monthly Progress Report (MPR) for the month of January 2023-reg	
5	09.02.2023	TES/IE/SCP/NHAI/2023/532	Request to provide Median opening at Palayamkottai Panchayat on NH45C-reg	
6	13.02.2023	TES/IE/SC/PIL/2023/841	Monthly Site Inspection-reg	
7	13.02.2023	TES/IE/SC/PIL/2023/842	Site review Meeting-reg	
8	13.02.2023	TES/IE/SCP/NHAI/2023/534	Representation from villagers M. Kaduvetti-Request to provide opening in the separator between MCW and service road on NH45C-reg	
9	14.02.2023	TES/IE/SCP/NHAI/2023/535	IE O&M Monthly Status Report for the month of January 2023-reg	
10	14.02.2023	TES/IE/SC/PIL/2023/843	Review and comments of IE on Concessionaires monthly progress report for the month of January 2023-reg	
11	16.02.2023	TES/IE/SC/PIL/2023/844	Cost estimate for modified TCS to accommodate the slip road and drain within available ROW in stretches and cost estimate with drawing for proposed additional work as per public demand-reg	
12	16.02.2023	TES/IE/SCP/NHAI/2023/539	Submission of IPC-05 of Payment Milestone IV- Recommendation for payment-reg	
13	17.02.2023	TES/IE/SC/PIL/2023/846	Submission of fly ash (Ext-21)-reg	
14	17.02.2023	TES/IE/SC/PIL/2023/845	Site inspection report reg	
15	17.02.2023	TES/IE/SCP/NHAI/2023/540	VIP Reference received from Hon' ble MP Chidambaram Parliament constituency – Request to provide subway and new bus stop in Cholatharam village- IE Clarifications-reg	
16	17.02.2023	TES/IE/SC/PIL/2023/847	Review and comments of IE on concessionaire monthly status & management (O&M) Report for the month of January 2023-reg	
17	24.02.2023	TES/IE/SC/PIL/2023/850	Soil test report for the proposed borrow area of the project (BA No-45)-reg	
18	25.02.2023	TES/IE/SCP/NHAI/2023/543	IE Inspection report for the month of January 2023-reg	
19	28.02.2023	TES/IE/SCP/NHAI/2023/546	Crossing of Irrigation PWD distribution channel at Km 66+390-IE comments-reg	
20	28.02.2023	TES/IE/SC/PIL/2023/853	Minutes of meeting dated 24.02.2023-reg	

## 16. Progress Photographs

Sl. No	Description	Location	Side	Remarks
1.	RE Wall Embankment layer rolling work in progress	109+800	BHS	Existing Road
2.	Subgrade layer rolling work in progress	106+340	BHS	Bypass



Sl. No	Description	Location	Side	Remarks
3.	CTSB Layer Rolling Work in progress	112+700	RSR	Bypass

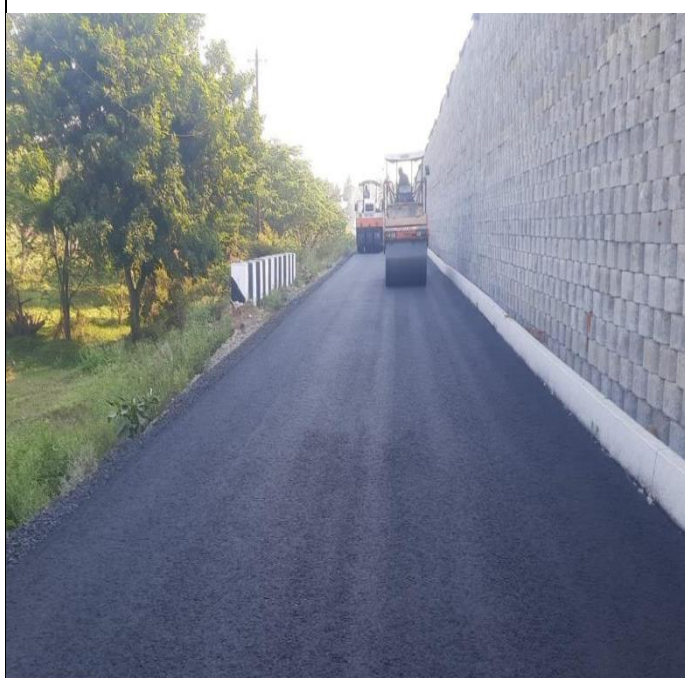




Sl. No	Description	Location	Side	Remarks
4.	WMM Layer Rolling Work in progress	110+420	LSR	Existing Road
5.	WMM Layer Rolling Work in progress	112+740	RSR	Bypass



Sl. No	Description	Location	Side	Remarks
6.	DBM Layer Rolling Work in progress	110+130	LSR	Existing road
7.	BC Layer Laying work in progress	77+750	RHS	Existing Road





Sl. No	Description	Location	Side	Remarks
8.	Piling Work in Progress	73+317	RHS	Major Bridge
9.	Superstructure Work in Progress	77+382	RHS	Box culvert



Sl. No	Description	Location	Side	Remarks
10.	Box Segment launching Work in Progress between Span P14 - P15	107+400	LHS	Major Bridge

