

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

APRIL 2023

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Executive Summary

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

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

Project Synopsis

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

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

Figure 1: Project Location Map

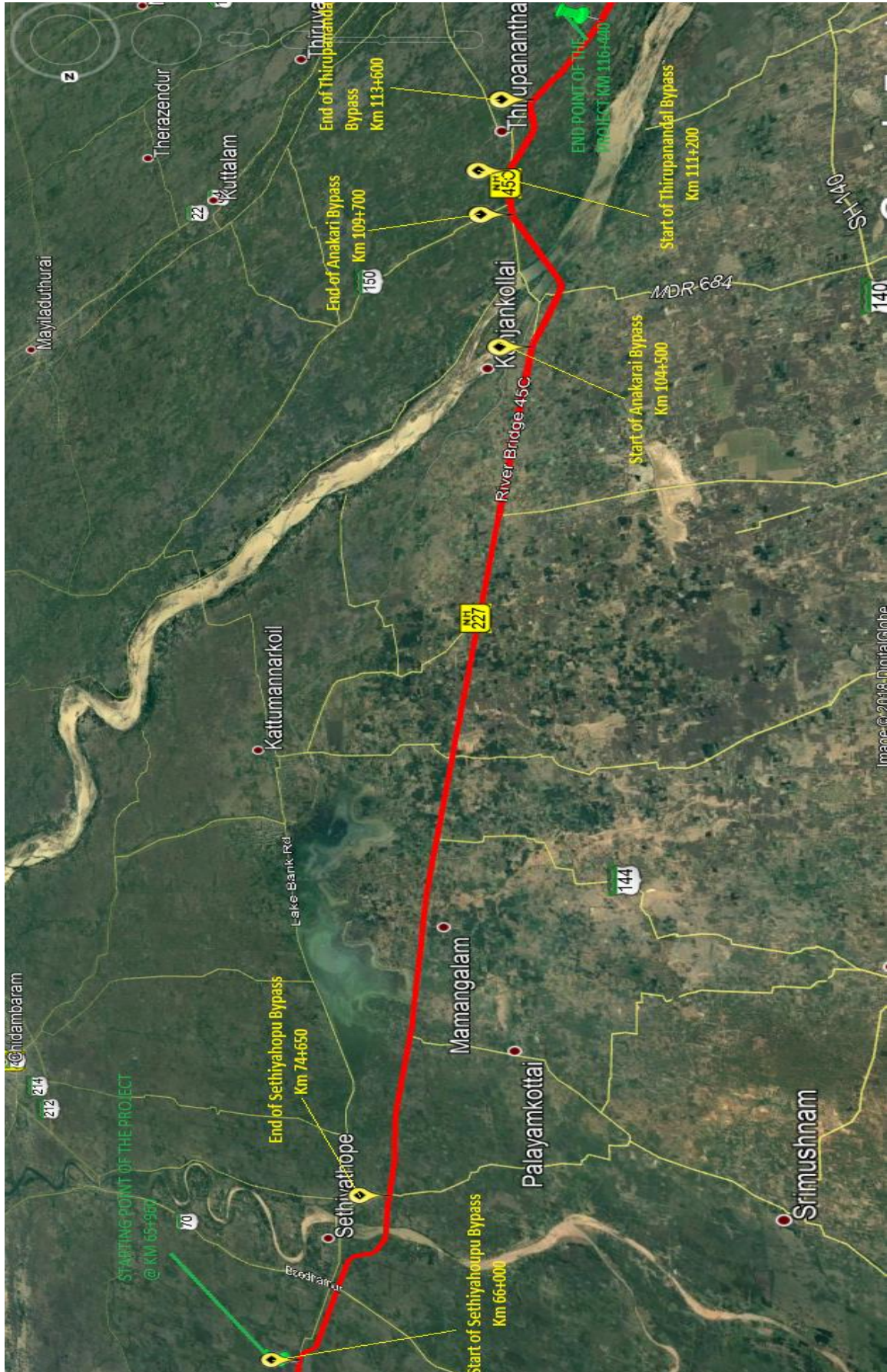
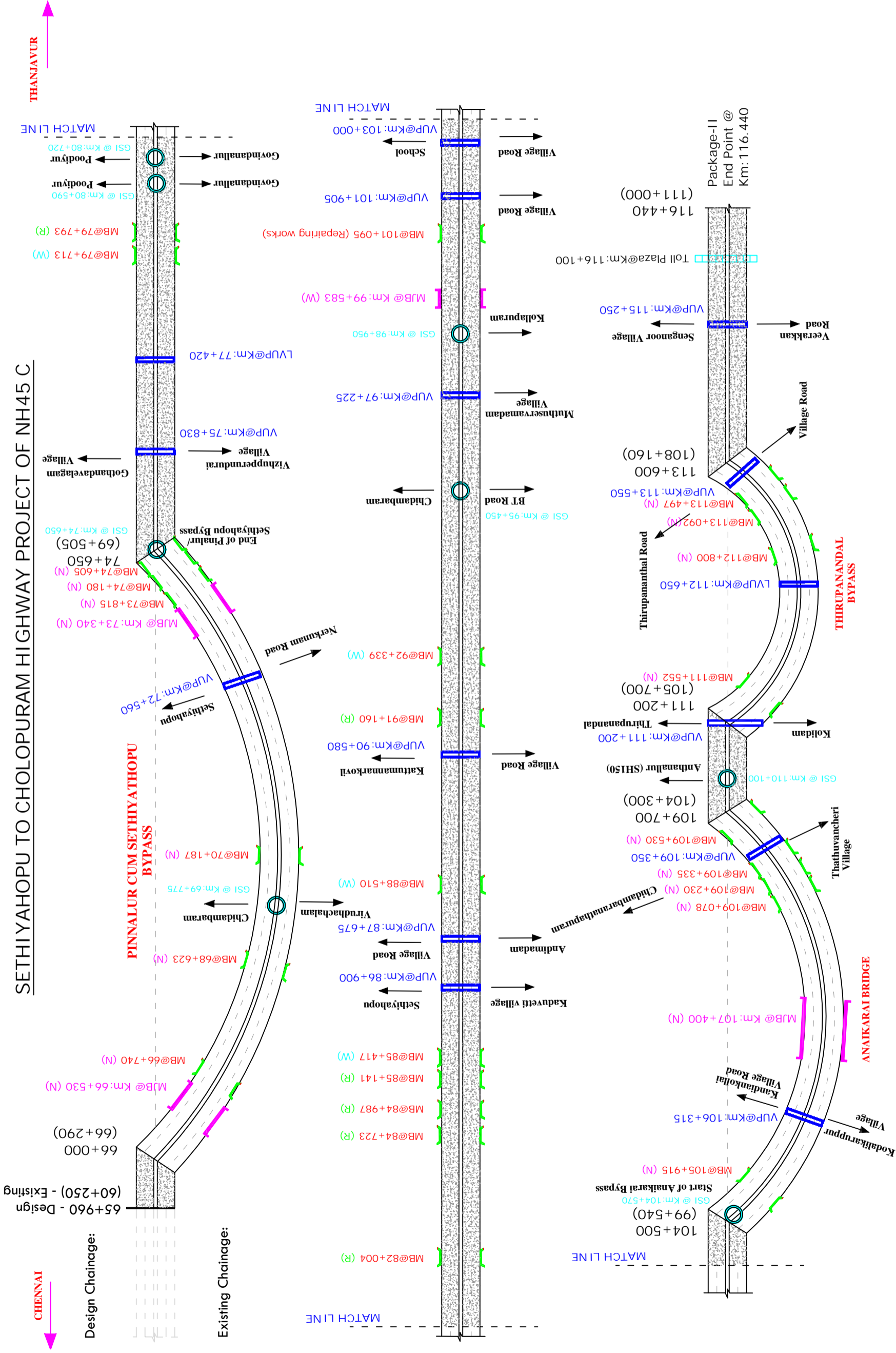


Figure 2: Project Alignment Map



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

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

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

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

Anaikarai Bypass
Km: 104+500 to 109+700

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

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

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

Thirupanandal Bypass
Km: 111+200 to 113+600

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

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

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

Drawing Title
Strip Plan - Sethiyahopu to Cholapuram Highway Project

Date: 31-08-2018
Project No. PSCHP/NHA1/TN/001

Salient Features of Project:

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

LEGEND:

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

Table - 1.1: Details of Project Alignments

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

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

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

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

1. Background and Project Details

1.1. Project Overview

Name of Work	Four Laning of Sethiyahopu-Cholopuram from Km. 65.960 to Km. 116.440 Section of NH-45C under NHDP-IV on Hybrid Annuity Mode Basis.
Name of Employer	National Highways Authority of India (NHAI) G-5 & 6, Sector-10, Dwarka, New Delhi -110075
Name of Concessionaire	Patel Sethiyahopu – Cholopuram Highway Pvt Ltd, Patel House, Beside Prakruti Resorts, Channi Road, Vadodara. Gujarat– 391740 Tel: +91-265 277 6678 Fax: +91-265 277 7878
Independent Engineer	M/s. Theme Engineering Services Pvt. Ltd, Plot No. 2, Annai Anjugam Nagar, Ullur, Chettimandapam, Kumbakonam – 612001.
EPC Contractor	M/s. Patel Infrastructure Limited, Patel House, Beside Prakruti Resort, Channi Road, Vadodara Gujarat– 391740, Tel: +91-265 277 6678 Fax: +91-265 277 7878
Design Consultant	CTL Global Services Pvt. Ltd. 101, 1st Floor, Krishna Chambers, HAL, Airport Road, Bangalore-560017
Senior Lender	Punjab National Bank, Large Corporate Branch, Neelkamal Building, Opp. Sales India, Ashram Road, Ahmedabad - 380009
Lenders Independent Engineers	Sharul Techno-Financial Consultancy Services Pvt. Ltd., 403, Aspire Tower 5, Amanora Park Town, Hadapsar, Pune - 411028.
Length of Road (Design Length)	50.480 Kms
Total Bid Project Cost	Rs. 1461.00 Crores (as per concession agreement)
Date of Concession Agreement	November 9, 2017
Concession Period	17 Years (Construction Period 2 Years from Appointed date, Operation period 15 years from COD)
Appointed Date	16.08.2018
Construction Period	2 years from Appointed date
Completion Date	15.08.2020
Date of Settlement Agreement No. 01	04.03.2021
Date of Settlement Agreement No. 02	20.03.2023
Maintenance Period	15 years from COD

1.2. Salient Project Features

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

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

1.3. Contractual Project Milestones

Following is a listing of the Key Project Milestones:-

Mile Stone	Description	Target Dates as per CA	Dates as per Settlement Agreement signed on dated 04.03.2021	Revised target dates as per Settlement Agreement signed on dated 20.03.2023
Mile Stone -I	Concessionaire shall expended not less than 20 % of the Total capital cost and shall have commenced construction of the project and achieved 20% of physical progress on 214 th day from the Appointed Date.	18 th March 2019	➤ 31 st May'2021- Total 28.345 Km. four lane to be completed for PCOD-I.	➤ 10 th December'2021- Total 28.345 Km. four lane to be completed for PCC-I .
Mile Stone -II	Concessionaire shall expended not less than 35% of the Total capital cost and shall have commenced construction of the project and achieved 35% of physical progress on 334 th day from the Appointed Date.	16 th July 2019	➤ 30 th Nov'2021- Total 35.940 Km. four lane to be completed for PCOD-II.	➤ 28 th February'2023- Total 35.240 Km. four lane to be completed for PCC-II .
Mile Stone -III	Concessionaire shall expended not less than 75 % of the Total capital cost and shall have commenced construction of the project and achieved 75% of physical progress on 584 th day from the Appointed Date.	22 nd March 2020	➤ 31 st July'2022- Total 50.480 Km. four lane to be completed for final completion.	➤ 10 th August'2023- Total 40.140 Km. four lane to be completed for PCC-III.
Sched uled Comp letion	Concessionaire shall have completed Project on 730 th day from the Appointed Date.	15 th August 2020		➤ 30 th June'2024- Total 50.480 Km four lane to be completed for final completion.

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

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

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

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

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

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

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

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

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

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

Sr. No.	Description	Target length & Date	Tentative BPC	Achieved as on date	Remarks
1	PCC-01	Completion of 28.345 Kms by 10.12.2021	803.60 Cr.	72.73%	IE vide letter no. 1144 dated 02.06.2022 has issued the Provisional Completion Certificate-1 (PCC-01) after the completion of 28.345 Kms w.e.f. 10.12.2021.
2	PCC-02	Completion of 35.240 Kms by 28.02.2023	1055.57 Cr.*		
3	PCC-03	Completion of 40.140 Kms by 10.08.2023	1189.40 Cr.*		
4	PCC-04	Completion of 50.480 Kms by 30.06.2024	1461.00 Cr.*		

***NOTE:-** Approximate amount mentioned for PCC-02, PCC-03 & PCC-04. The revised BPC would be derived for PCC-02, PCC-03 & PCC-04 and accordingly the subsequent payment would be paid to the concessionaire.

1.4. Payment milestone during Construction Period

Payment Mile Stone	Eligibility Criteria	Payment Amount (Rs.)	Claimed Amount (Rs.)	Date of release of payment
Mile Stone-I	On Achievement of 10% of Physical Progress	116.88 Crs.	110.94 Crs.	04.10.2019
Mile Stone-II	On Achievement of 30% of Physical Progress	116.88 Crs.	110.94 Crs.	25.09.2020
IPC No. 01 of Mile Stone-III (as per NHAH Policy Guidelines/Atmnirbhar Bharat)	On Achievement of 31.856% of Physical Progress	10.85 Crs.	10.29 Crs.	29.09.2020
IPC No. 02 of Mile Stone-III (as per NHAH Policy Guidelines/Atmnirbhar Bharat)	On Achievement of 32.758% of Physical Progress	5.27 Crs.	5.00 Crs.	10.11.2020
IPC No. 03 of Mile Stone-III (as per NHAH Policy Guidelines/Atmnirbhar Bharat)	On Achievement of 34.484% of Physical Progress	10.09 Crs.	9.57 Crs.	10.11.2020
IPC No. 04 of Mile Stone-III (as per NHAH Policy Guidelines/Atmnirbhar Bharat)	On Achievement of 35.144% of Physical Progress	3.86 Crs.	3.66 Crs.	10.12.2020
IPC No. 05 of Mile Stone-III (as per NHAH Policy Guidelines/Atmnirbhar Bharat)	On Achievement of 36.052% of Physical Progress	5.31 Crs.	5.04 Crs.	12.02.2021
IPC No. 06 of Mile Stone-III (as per NHAH Policy Guidelines/Atmnirbhar Bharat)	On Achievement of 37.886% of Physical Progress	10.72 Crs.	10.17 Crs.	18.03.2021
IPC No. 07 of Mile Stone-III (as per NHAH Policy Guidelines/Atmnirbhar Bharat)	On Achievement of 39.452% of Physical Progress	9.15 Crs.	8.69 Crs.	31.03.2021
IPC No. 08 of Mile Stone-III (as per NHAH Policy Guidelines/Atmnirbhar Bharat)	On Achievement of 40.979% of Physical Progress	8.92 Crs.	8.47 Crs.	10.05.2021
IPC No. 09 of Mile Stone-III (as per NHAH Policy Guidelines/Atmnirbhar Bharat)	On Achievement of 41.432% of Physical Progress	2.65 Crs.	2.51 Crs.	09.06.2021
IPC No. 10 of Mile Stone-III (as per NHAH Policy Guidelines/Atmnirbhar Bharat)	On Achievement of 43.429% of Physical Progress	11.67 Crs.	11.08 Crs.	16.07.2021
IPC No. 11 of Mile Stone-III (as per NHAH Policy Guidelines/Atmnirbhar Bharat)	On Achievement of 46.976% of Physical Progress	20.73 Crs.	19.67 Crs.	27.08.2021
IPC No. 12 of Mile Stone-III (as per NHAH Policy Guidelines/Atmnirbhar Bharat)	On Achievement of 49.966% of Physical Progress	17.47 Crs.	16.59 Crs.	20.09.2021
Payment Mile Stone-III & IPC No. 01 of Mile Stone-IV (as per NHAH 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 NHAH 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 NHAH 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 NHAH Policy Guidelines/Atmnirbhar Bharat)	On Achievement of 69.633% of physical progress	10.31 Crs.	9.79 Crs.	02.03.2023
IPC No. 05 of Mile Stone-IV (as per NHAH Policy Guidelines/Atmnirbhar Bharat)	On Achievement of 70.071% of physical progress	2.56 Crs.	2.43 Crs.	29.03.2023
IPC No. 06 of Mile Stone-IV (as per NHAH Policy Guidelines/Atmnirbhar Bharat)	On Achievement of 71.347% of physical progress	7.46 Crs.	7.08 Crs.	28.04.2023

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 NHAH	Obtained	Work Completed
8	Electric Poles Shifting	Tamil Nadu Electricity Board	Obtained	Work in Progress
9	Water Pipes Shifting	Tamilnadu Water Supply and Drainage Board	Obtained	Work in Progress
10	Drawing Water from river/ reservoir		NA	

2. Right of Way Status

2.1. Land Acquisition

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

Table 2.1-1: Details of proposed ROW as per Schedule-A				
	Design Chainage (Km)	Design Length (Km)	Width (m)	Remarks
Full Right of Way (full width)				
Stretch	65.960 to 75.150	9.190	60.00	Within 15 days of date of Agreement.
Stretch	75.150 to 82.380	7.230	45.00	
Stretch	82.380 to 83.080	0.700	60.00	
Stretch	83.080 to 84.050	0.970	45.00	
Stretch	84.050 to 86.440	2.390	60.00	
Stretch	86.440 to 87.660	1.220	52.50	
Stretch	87.660 to 91.730	4.070	45.00	
Stretch	91.730 to 93.730	2.000	52.50	
Stretch	93.730 to 95.900	2.170	45.00	
Stretch	95.900 to 99.700	3.800	60.00	
Stretch	99.700 to 104.500	4.800	30.00	
Stretch	104.500 to 109.700	5.200	60.00	
Stretch	109.700 to 110.980	1.280	30.00	
Stretch	110.980 to 113.700	2.720	60.00	
Stretch	113.700 to 116.440	2.740	30.00	
Total Length		50.480		

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

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

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

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

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

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

2.2. Removal of Religious Structures

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

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

2.3. Shifting of Utilities and Electrical HT/LT Lines

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

Table 2.3-1: Status of sanction of Estimates - Relocation of RWS Pipe line						
Sr. No.	Name of the District	Chainages			Total Number of Estimates	Remarks
		From	To	Length in Km		

1	Cuddalore	65+960	86+440	20.48	25	Work is in Progress
2	Ariyalur	86+440	106+860	20.42	46	
3	Thanjavur	106+860	116+440	9.58	4	

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

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

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

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

Table 2.3-3: Status of Utility Relocation

Sl. No.	Authority	Description	Unit	Total Length/ Nos.	Work done	Balance work to be done	Remarks
1	BDO & EE,TWAD	Water Supply Pipe Line	Kms.	72.695	32.635	40.060	Work is in progress
2	BDO of Concern Union	Hand Pump/Pump Room with Bore well	Nos.	24	16	8	
3	BDO of Concern Union	Over Head Tank	Nos.	15	13 Nos Completed	2	
4	TNEB	Electrical Lines	Kms.	6.83	6.13	0.70	
5	TNEB	Erection of HT Tower at Ch. 73+470	Nos.	2	2	0	

Sl. No	Authority	Description	Remarks
1	CMWSSB	Shifting of Veeranam Pipeline	Work is in progress
2	PWD	Shifting of weir located at Ch. 103+990	Work Completed

2.4. Tree felling

Table 2.4-1: Status of Tree felling

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

3. Progress Briefing – Contractor Activities

3.1. Pre-construction Activities

Detailed Design & Drawings

The Plan and Profile, as well as the Pavement Design for the entire 50.480 km project length has been completed, reviewed and accepted by the Independent Engineer (IE). Construction Methodology, QA & QC procedures submitted to the IE has been reviewed and accepted.

Table 3.1-1: Status of Highway Design and Drawings as per Concession Agreement

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

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

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

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

Sr. No.	Structure Location	Type of Structure	Unit	Design & Drawing Submitted	Design & Drawing Approved
1	66+185	LVUP	Nos.	-	-
2	72+200	Box Culvert	Nos.	-	-
3	72+250	Minor Bridge	Nos.	-	-
4	72+860	Minor Bridge	Nos.	01	-
5	72+890	Minor Bridge	Nos.	-	-
6	72+920	Minor Bridge	Nos.	01	-
7	73+040	Minor Bridge	Nos.	01	-
8	80+300	PUP	Nos.	-	-
9	81+900	Box Culvert	Nos.	-	-
10	95+200	PUP	Nos.	01	-
11	95+700	PUP	Nos.	01	-
12	105+220	PUP	Nos.	01	-
13	106+900	PUP	Nos.	-	-
14	106+915	Box Culvert	Nos.	-	-

4. Physical Progress of Work

4.1. Physical Progress of Work:

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

CUMMULATIVE STATEMENT

For Main Carriageway

Sr. No.	Description	Total Length of Project (in. Km.)	Progress up to Previous Month (in Km.)	Progress during this Month (in Km.)	Cumulative Progress Achieved up to this Month (in Km.)	Work in Progress (In Km.)	Balance Length to be Completed	Cumulative % of Progress Achieved
1	Clearing and Grubbing							
	LHS	50.480	40.620	1.125	41.745	0.000	8.735	82.70%
	RHS	50.480	40.260	1.125	41.385	0.000	9.095	81.98%
2	Embankment Top							
	LHS	50.480	37.445	0.405	37.850	1.850	12.630	74.98%
	RHS	50.480	37.085	0.445	37.530	1.850	12.950	74.35%
3	Subgrade Top							
	LHS	50.480	37.310	0.435	37.745	0.105	12.735	74.77%
	RHS	50.480	37.085	0.445	37.530	0.000	12.950	74.35%
4	GSB/ Cement Treated Sub Base							
	LHS	50.480	36.675	0.050	36.725	0.000	13.755	72.75%
	RHS	50.480	36.665	0.000	36.665	0.000	13.815	72.63%
5	Wet Mix Macadam							
	LHS	50.480	36.665	0.050	36.715	0.000	13.765	72.73%
	RHS	50.480	36.645	0.000	36.645	0.000	13.835	72.59%
6	Dense Bitumen Macadam							
	LHS	50.480	36.665	0.000	36.665	0.000	13.815	72.63%
	RHS	50.480	36.645	0.000	36.645	0.000	13.835	72.59%
7	Bituminous Concrete							
	LHS	50.480	36.635	0.000	36.635	0.000	13.845	72.57%
	RHS	50.480	36.615	0.000	36.615	0.000	13.865	72.53%

For Service Road

Sr. No.	Description	Total Length of Service Road (in Km.)	Progress up to Previous Month (in Km.)	Progress during this Month (in Km.)	Cumulative Progress Achieved up to this Month (in Km.)	Work in Progress (in Km.)	Balance Length to be Completed	Cumulative % of Progress Achieved
1	Embankment	53.190	33.145	4.885	38.030	0.000	15.160	71.50%
2	Sub grade	53.190	33.145	4.885	38.030	0.000	15.160	71.50%
3	GSB/ Cement Treated Base	53.190	33.085	4.555	37.640	0.000	15.550	70.77%
4	Wet Mix Macadam	53.190	32.705	3.365	36.070	0.000	17.120	67.81%
5	Dense Bitumen Macadam	53.190	32.015	2.120	34.135	0.000	19.055	64.18%
6	Bituminous Concrete	53.190	28.905	0.000	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	51.00	2.00	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	25.00	0	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 the month of April 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 April'2023	Physical Progress (%)	Remarks
Road works including culverts, minor bridges, underpasses, overpasses, approaches to ROB/RUB/ Major Bridges/ Structures (but excluding service roads)	A- Widening and strengthening of existing road						
	(1) Earthwork up to top of the sub-grade	Km	66.96	9.517%	51.600	7.334%	
	(2) Granular work (sub-base, base, shoulders)						
	(a) GSB/ Cement Treated Base	Km	65.52	3.373%	51.570	2.655%	
	(b) WMM/ Cement Treated Base	Km	65.52	4.046%	51.540	3.182%	
	(3) Shoulders	Km	17.65	0.112%	17.150	0.109%	
	(4) Bituminous work	Km					
	(a) DBM	Km	65.52	3.344%	51.490	2.628%	
	(b) BC	Km	65.52	3.023%	51.430	2.373%	
	(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- New realignment/bypass						
	(1) Earthwork up to top of the sub-grade	Km	28.68	6.437%	20.429	4.585%	
	(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%	20.024	0.809%	
	(5) Rigid Pavement						
	C- New culverts, minor bridges, underpasses, overpasses on existing road, realignments, bypasses:						
	(1) Culverts	Nos.	44	2.070%	37.10	1.745%	
	(2) Minor bridges						

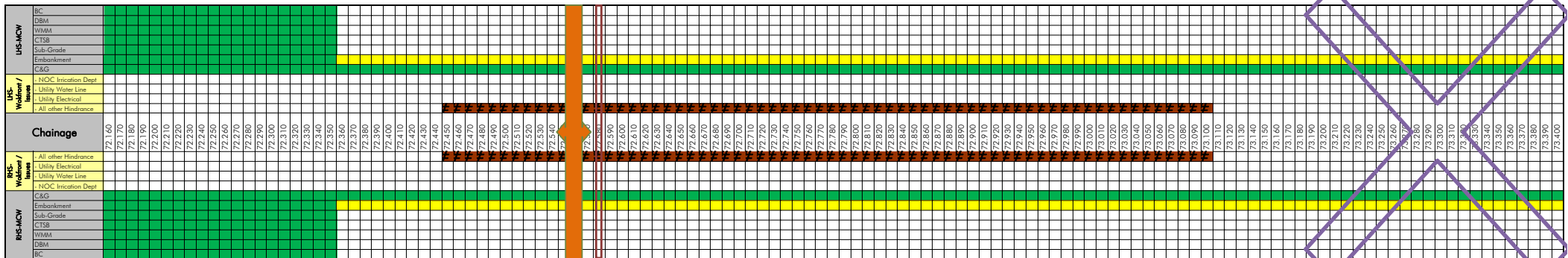
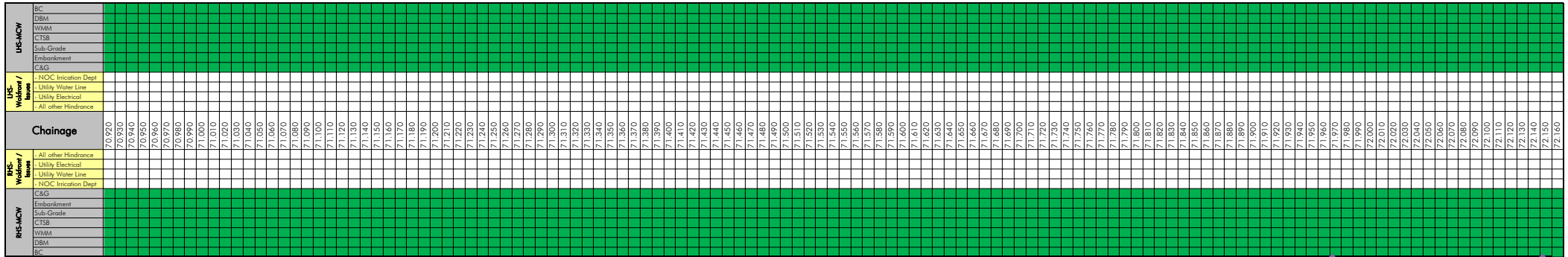
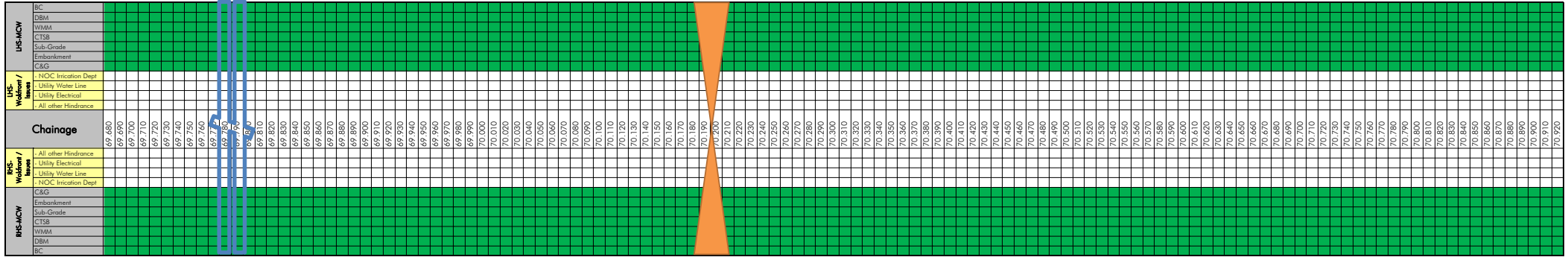
Major Bridge works and ROB/R UB	(a) Foundation	Nos.	58	3.953%	58.00	3.953%		
	(b) Substructure	Nos.	134	2.623%	134.00	2.623%		
	(c) Superstructure (including crash barrier etc. complete)	Nos.	50	1.559%	47.00	1.466%		
	(5) Grade separated structures							
	(a) Underpass (13 VUP, 2 LVUP)							
	(i) Foundation	Nos.	56	2.574%	51.00	2.344%		
	(ii) Substructure	Nos.	60	0.751%	51.00	0.639%		
	(iii) Superstructure (including crash barrier etc. complete)	Nos.	30	1.289%	22.80	0.979%		
	(c) Flyover							
	(i) Foundation	Nos.	36	2.426%	30.00	2.021%		
	(ii) Substructure	Nos.	36	0.470%	29.00	0.379%		
	(iii) Superstructure (including crash barrier etc. complete)	Nos.	20	1.244%	15.00	0.933%		
	(d) Foot over Bridge							
	C- New Major Bridges							
	(1) Foundation				0.000%			
	(a) Open Foundation				0.000%			
	(b) Pile Foundation/ Well Foundation							
	(i) Pile Foundation	Nos.	84	9.699%	84.00	9.699%		
	(2) Sub-structure	Nos.	84	4.576%	82.00	4.467%		
	(3) Super-structure (including crash barriers etc. complete)							
	(i) For MJB at Km. 107+400							
	(a) Casting of Superstructure (Box Segment)	Nos.	666	1.450%	666.00	1.450%		
	(b) Erection of Superstructure (Box Segment)	Nos.	666	1.050%	350.00	0.552%		
	(i) For other Major Bridges							
	(a) Super-structure (including crash barriers etc. complete)	Nos.	37	2.500%	28.35	1.916%		
	D- New rail-road bridges							
	(a) ROB							
	(1) Foundation	Nos.			0.000%			
	(2) Sub-structure	Nos.			0.000%			
	(3) Super-structure (including crash barriers etc. complete)	Nos.			0.000%			
	(b) RUB							
	(1) Foundation	Nos.			0.000%			
(2) Sub-structure	Nos.			0.000%				
(3) Super-structure (including crash barriers etc. complete)	Nos.			0.000%				
Structur es (elevate d sections	A- Elevated Structures							
	(1) Foundation	Nos.			0.000%			
	(2) Sub-structure	Nos.			0.000%			
	(3) Super-structure (including crash barriers etc. complete)	Nos.			0.000%			

, reinforced earth)	B- Reinforced earth Wall (includes Approaches of ROB, Underpasses, Overpasses, Flyover etc)	Sqm	196027	7.604%	61,561	2.388%	
	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%	10.600	1.995%	
	(iv) Road signs, markings, km stones, safety devices,						
	(a) Road signs, markings, km stones, ...	Km	100.96	2.558%	71.880	1.821%	
	(b) Concrete Crash Barrier/ W-Beam Crash Barrier in Road work						
	(i) Concrete Crash Barrier	Km	26.5	1.179%	8.660	0.385%	
	(ii) W-Beam Crash Barrier	Km	10.03	0.788%	2.856	0.224%	
	(v) Project facilities						
	(a) Bus Bays	No.	18	0.009%	4.000	0.002%	
	(b) Truck Lay-byes	No.		0.000%			
	(c) Rest areas	No.		0.000%			
	(vi) Repairs to bridges/structures	Nos.					
	(vii) Road side plantation	Km	23.66	0.451%	1.607	0.031%	
	(viii) Protection works						
	(a) Boulder pitching on slopes	Km	10.03	0.218%	2.856	0.062%	
	(b) Toe/Retaining wall	Km	10.03	0.000%			
	(x) Miscellaneous	Ls.	100%	0.164%			
	Total Progress			100.000%		72.73%	

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

Sethiyahopu - Cholapuram Road Projects

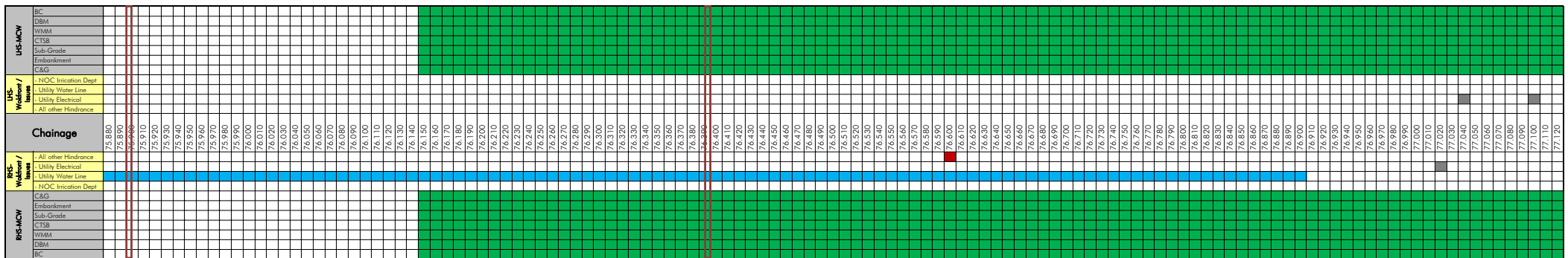
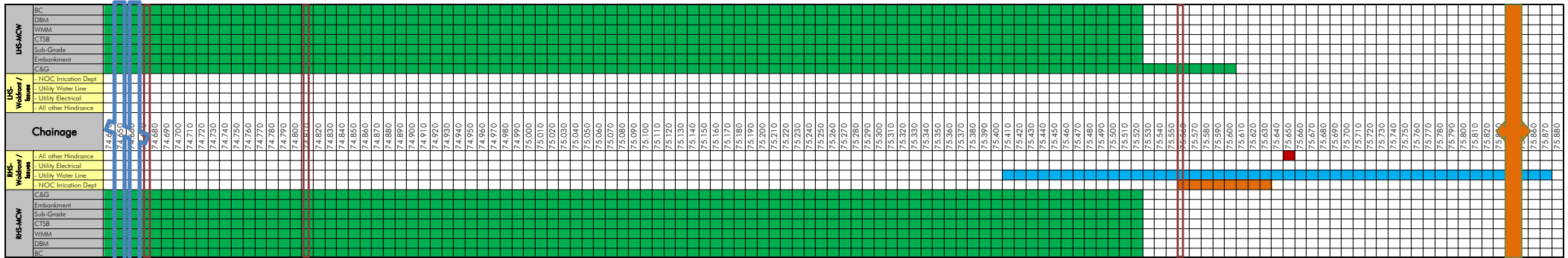
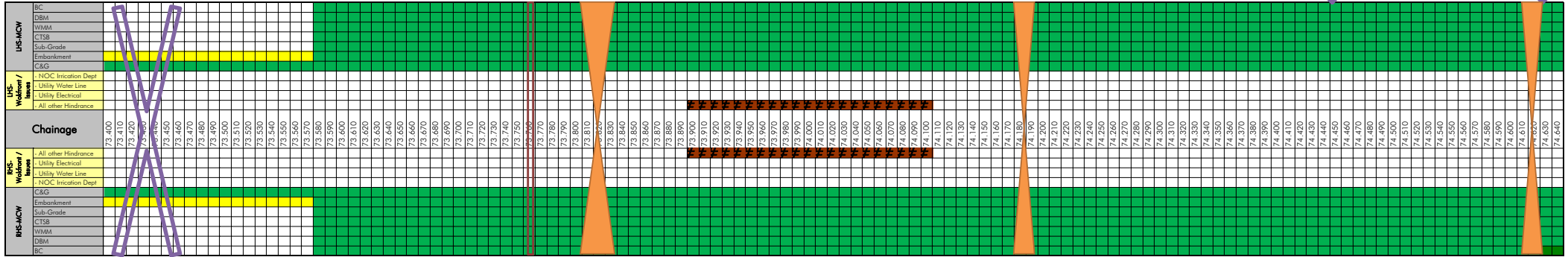
Strip Plan for MCW as on 30.04.2023



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Sethiyahopu - Cholapuram Road Projects

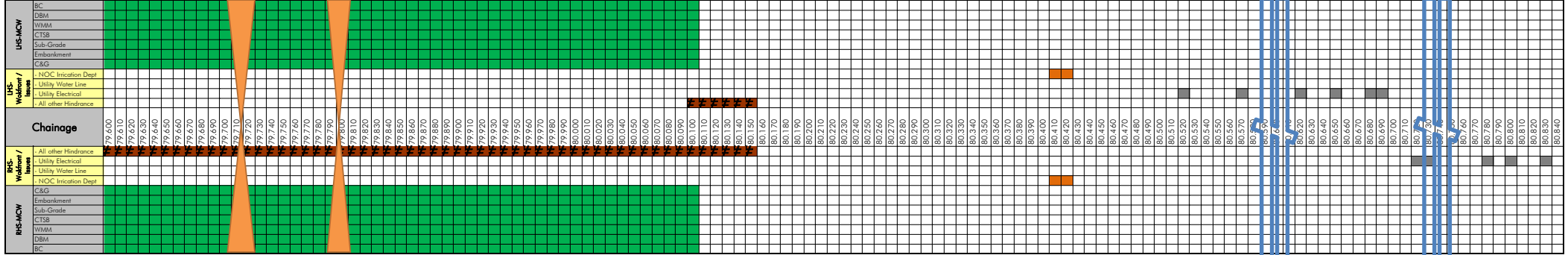
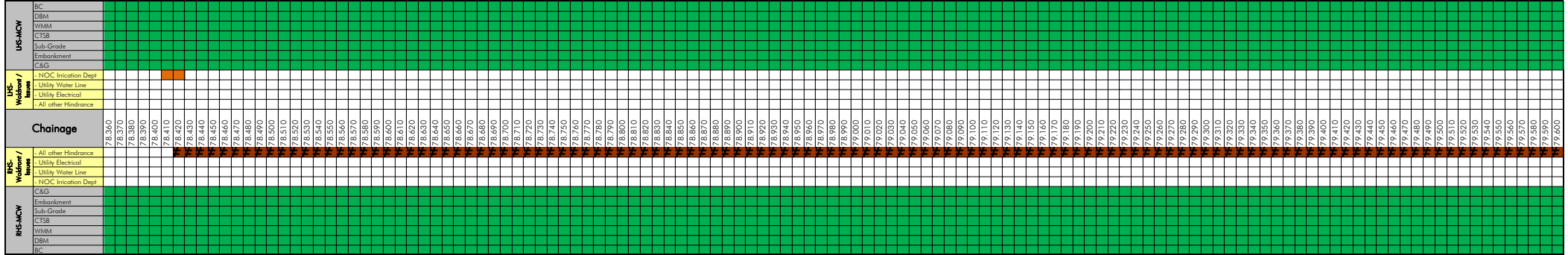
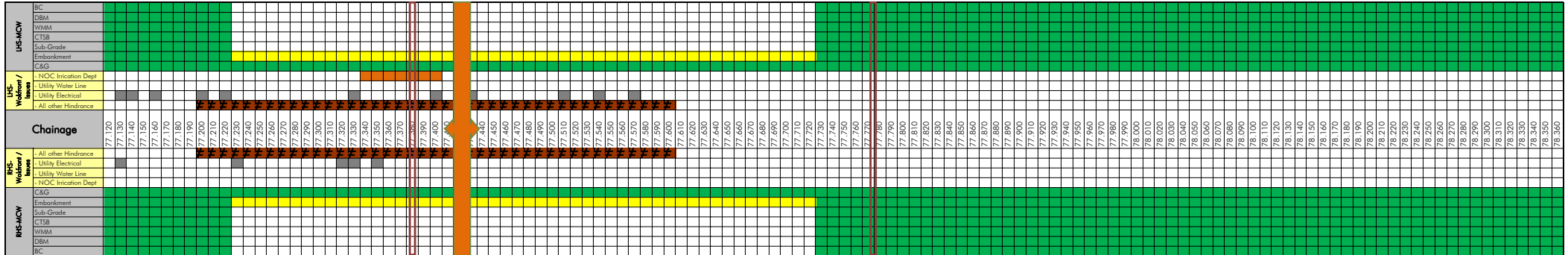
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Sethiyahopu - Cholapuram Road Projects

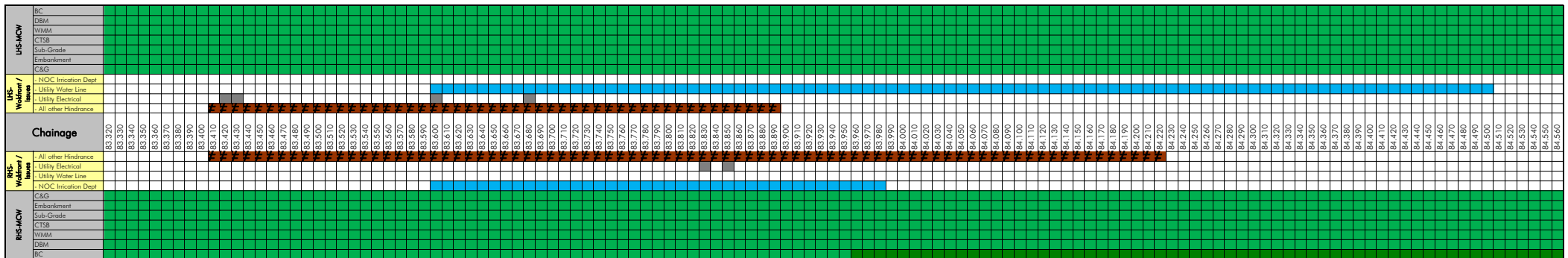
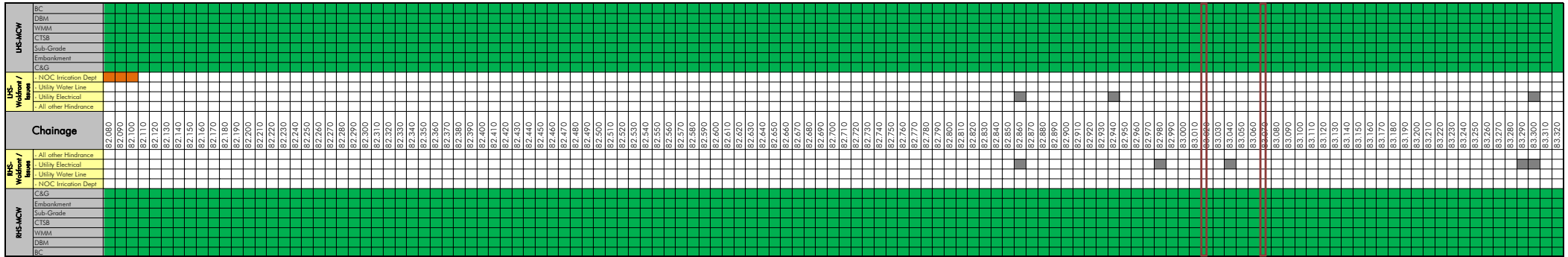
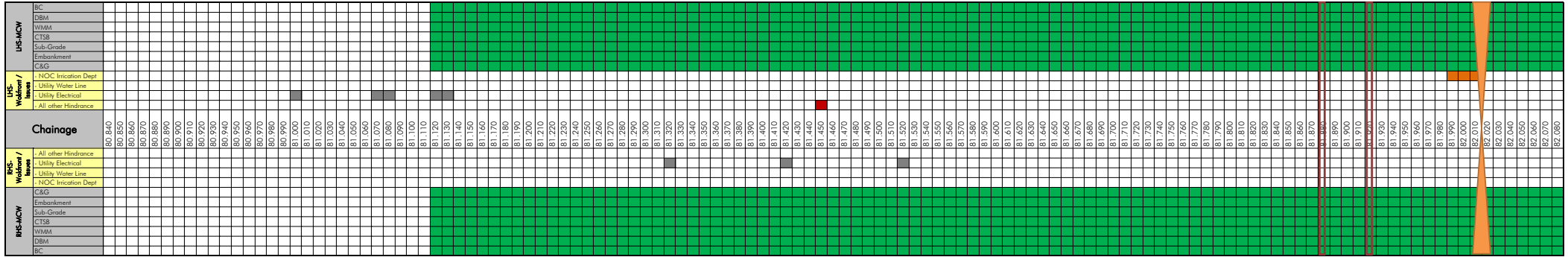
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Sethiyahopu - Cholapuram Road Projects

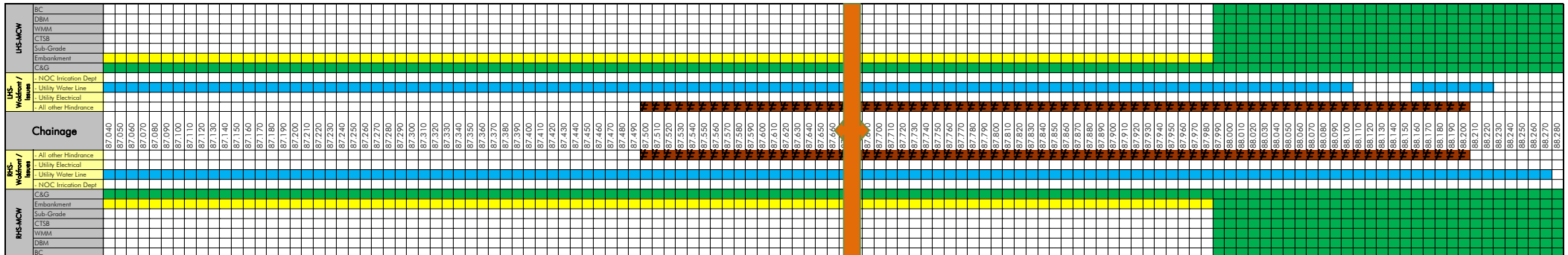
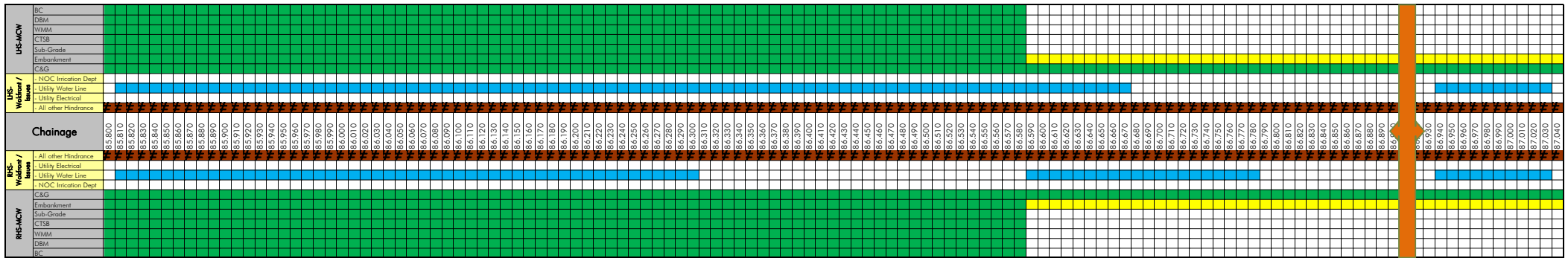
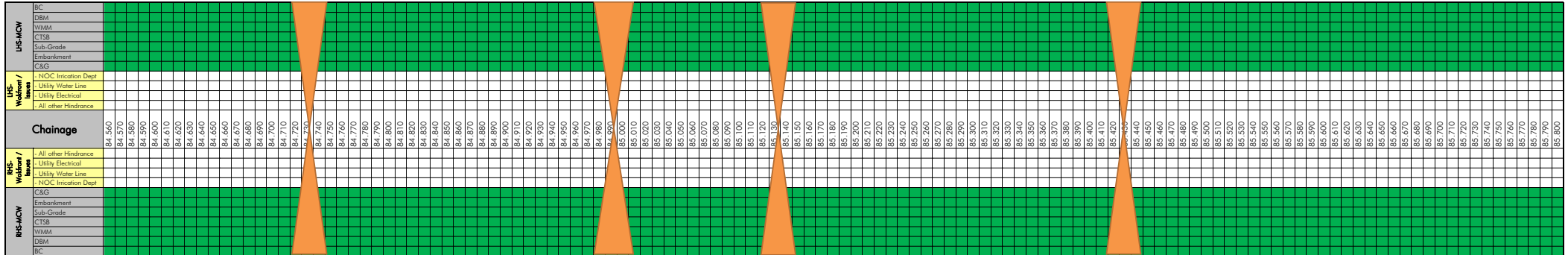
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Sethiyahopu - Cholapuram Road Projects

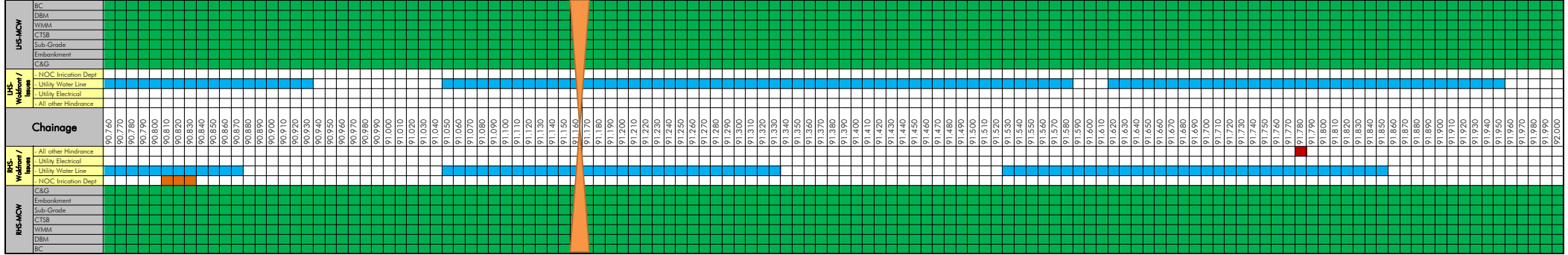
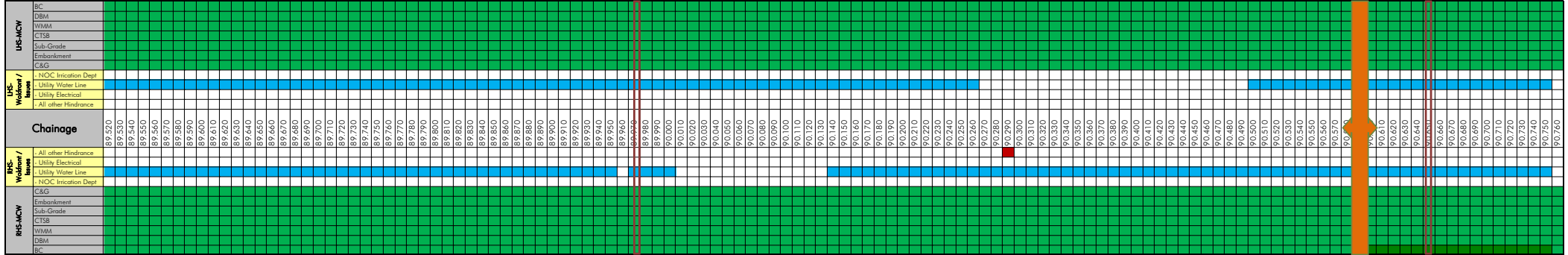
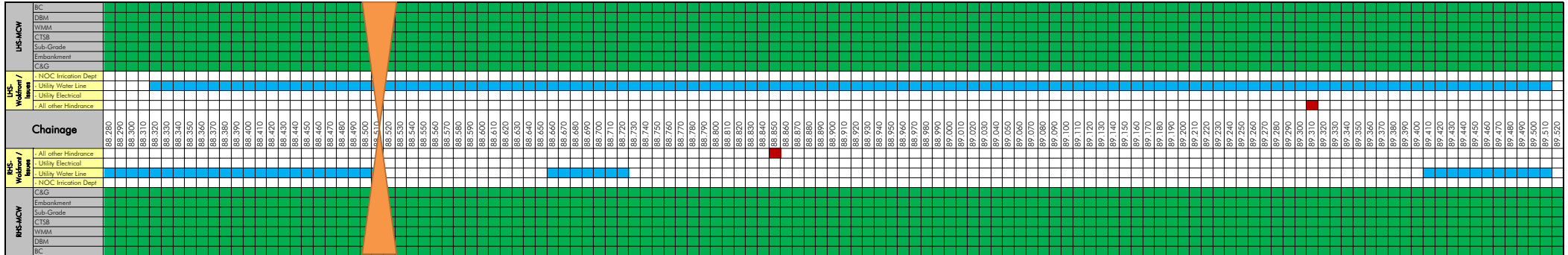
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Sethiyahopu - Cholapuram Road Projects

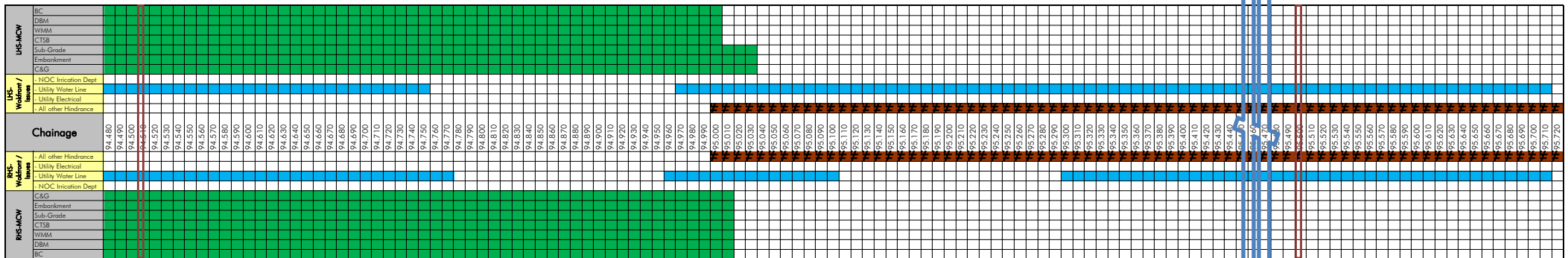
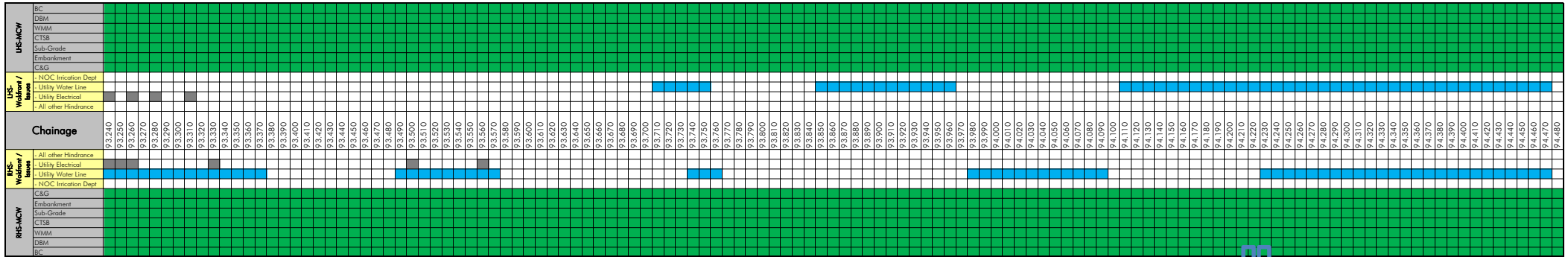
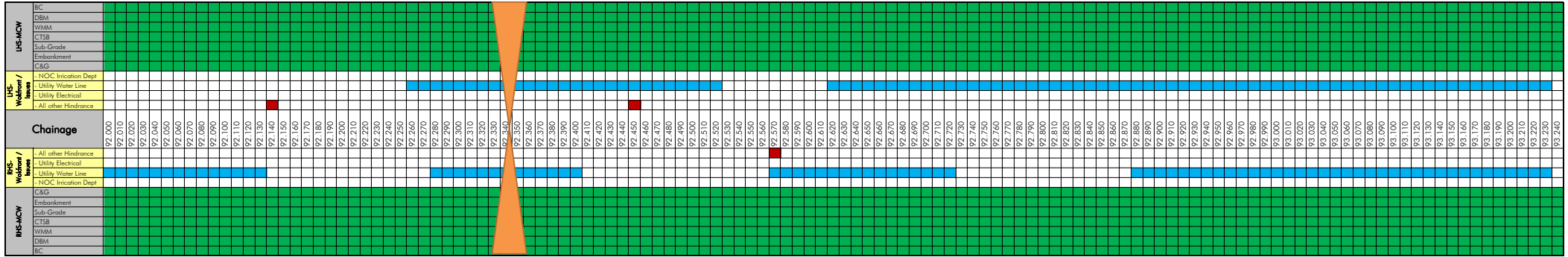
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Sethiyahupu - Cholapuram Road Projects

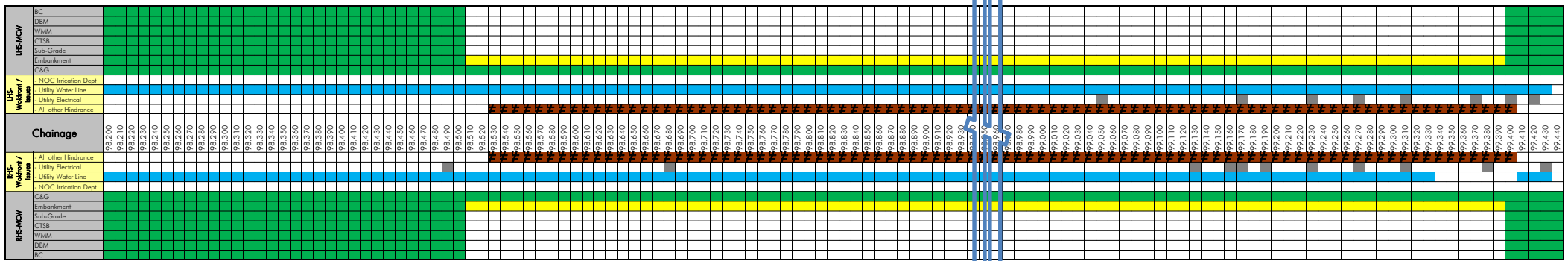
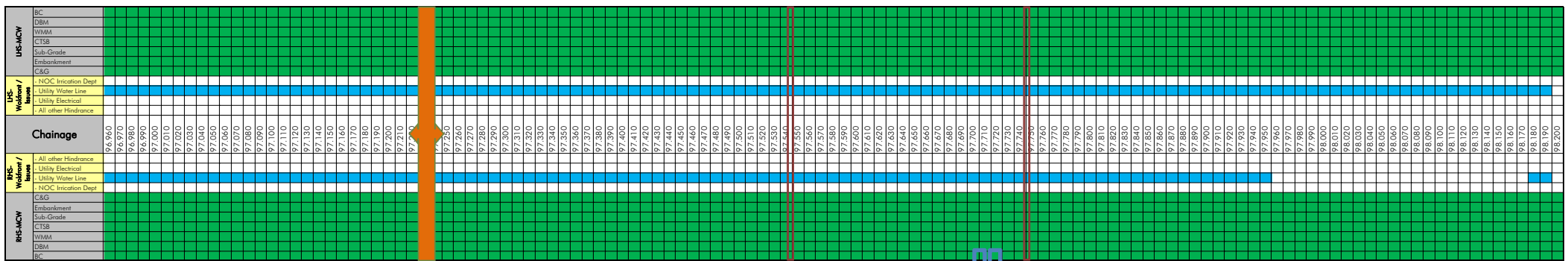
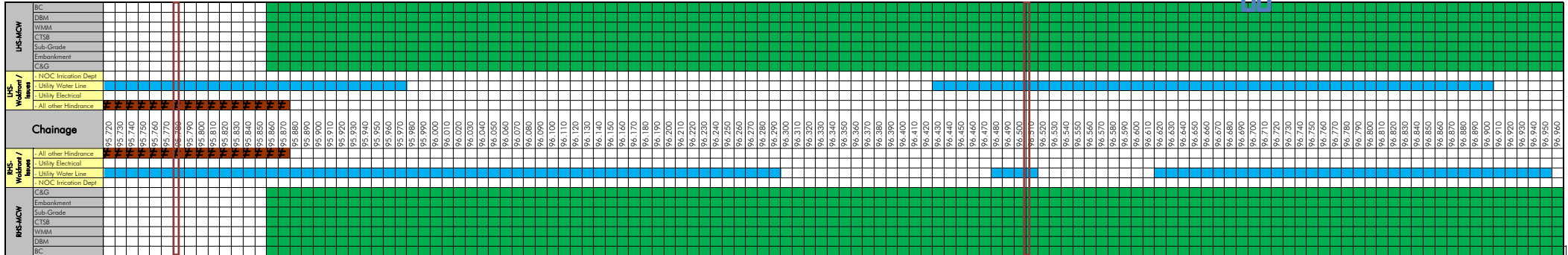
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Sethiyahopu - Cholapuram Road Projects

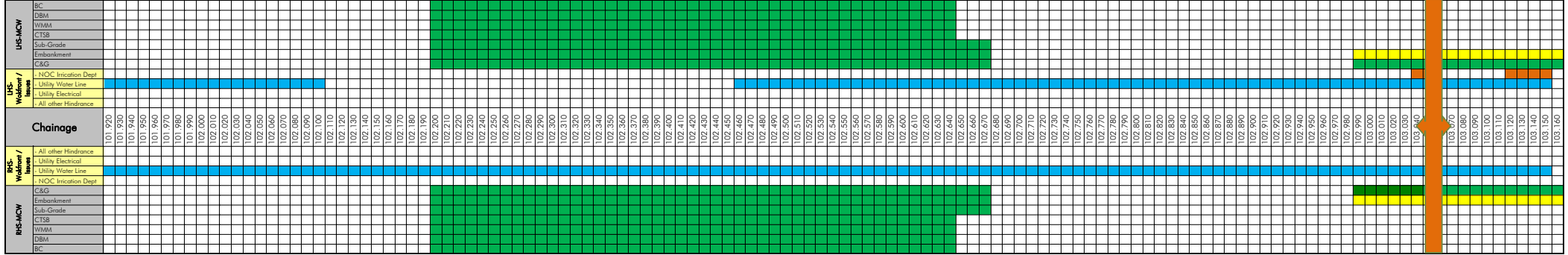
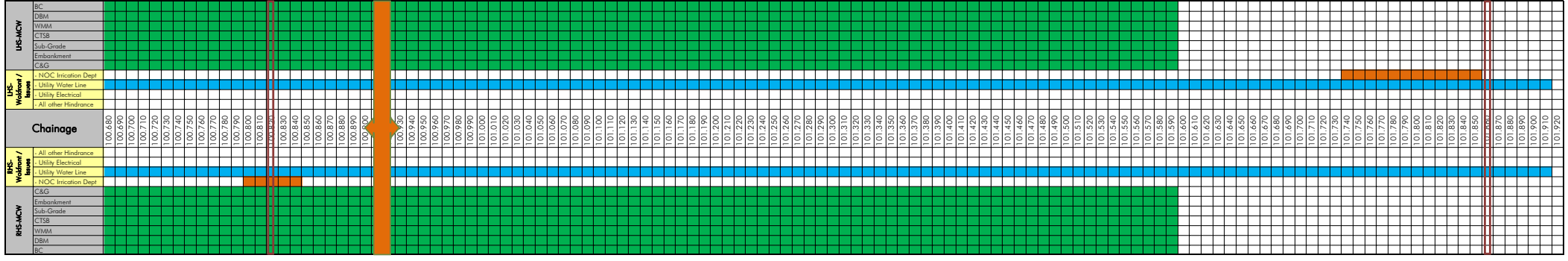
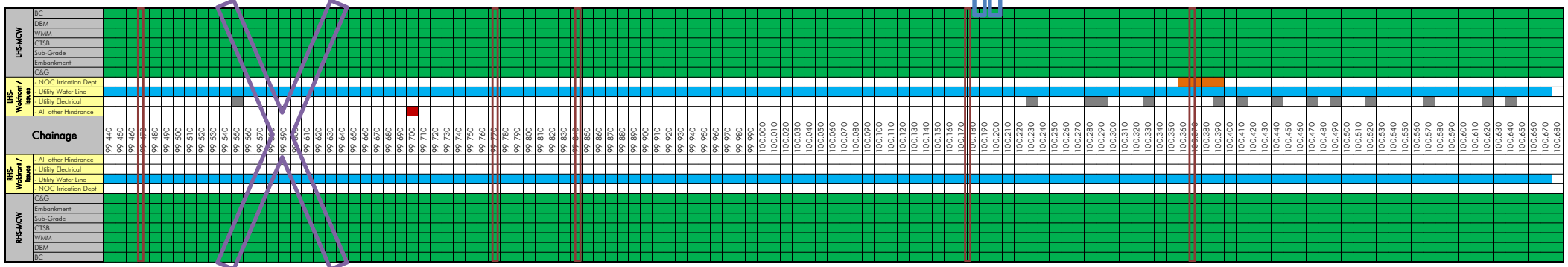
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Sethiyahopu - Cholapuram Road Projects

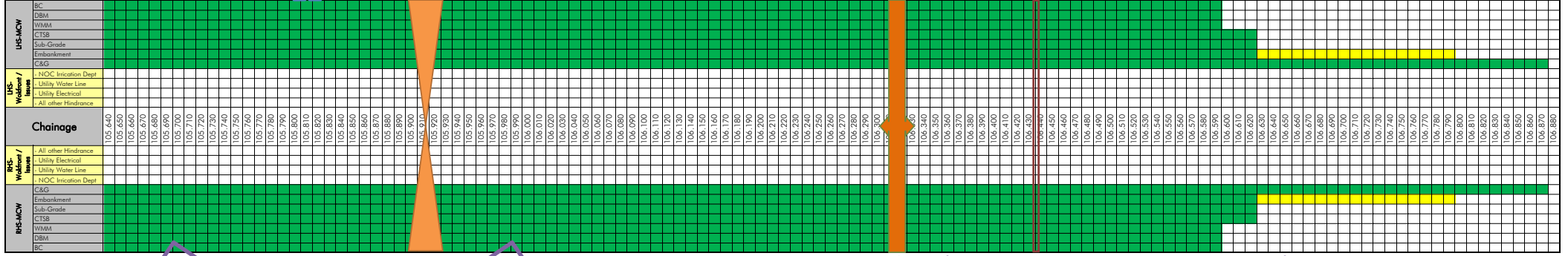
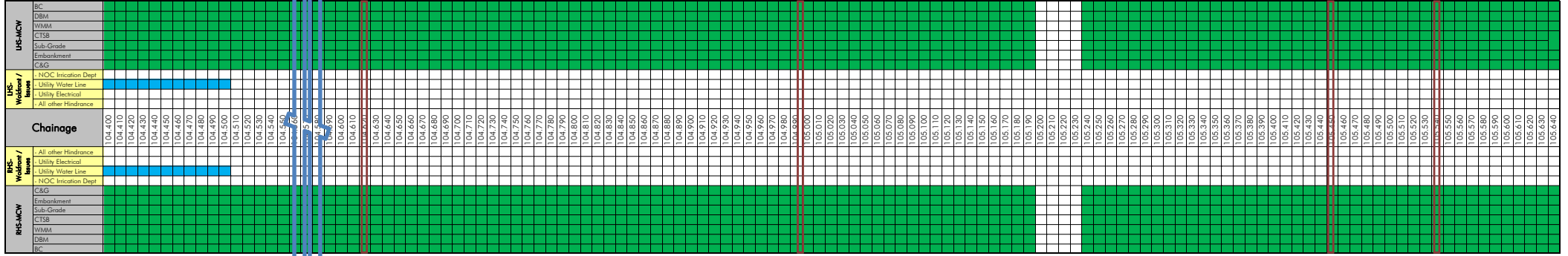
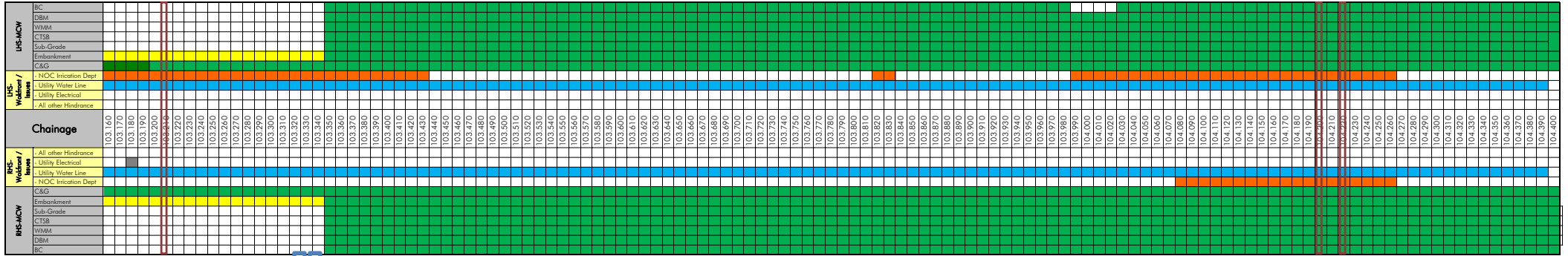
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Sethiyahopu - Cholopuram Road Projects

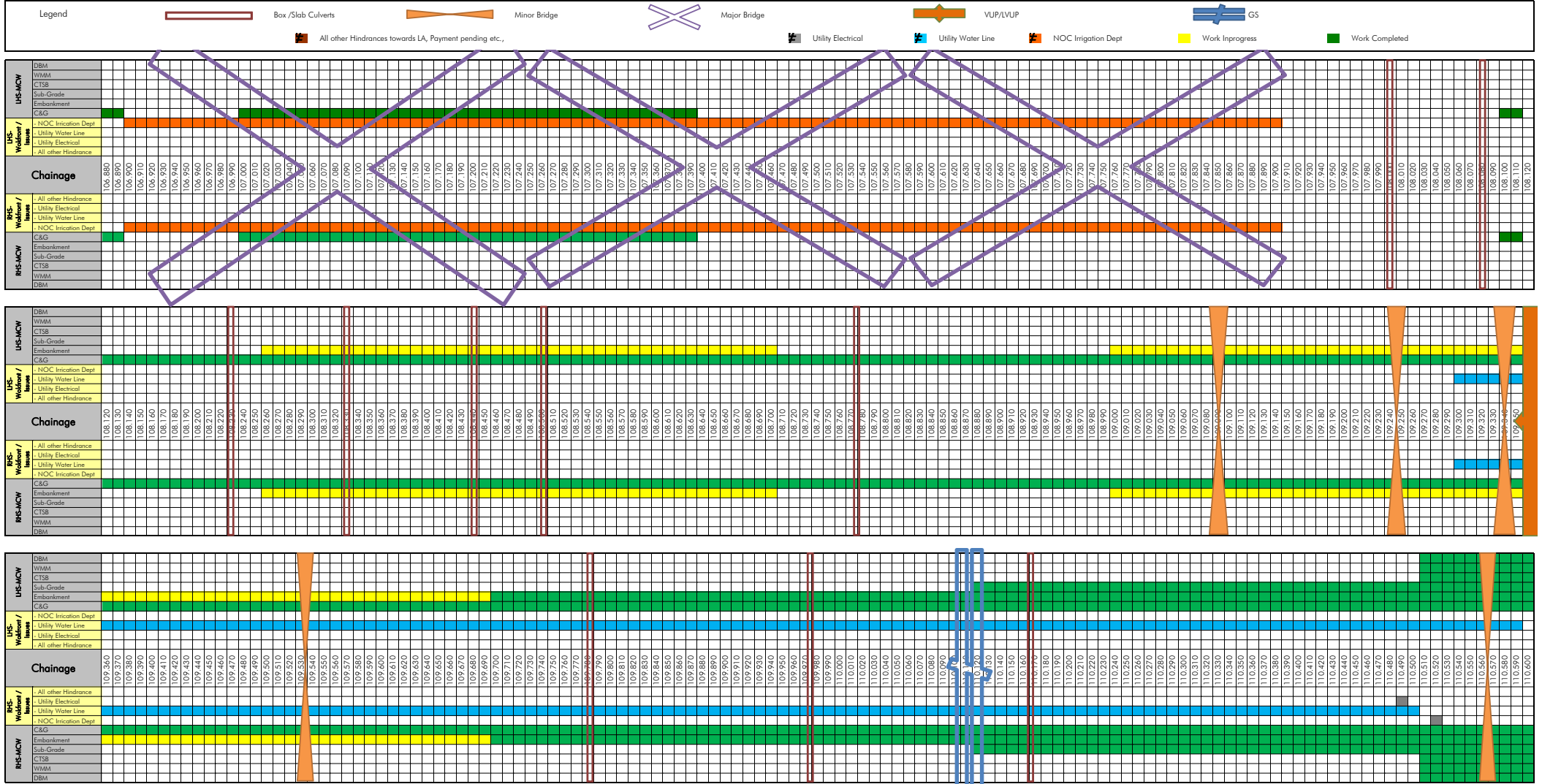
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Sethiyahopu - Cholapuram Road Projects

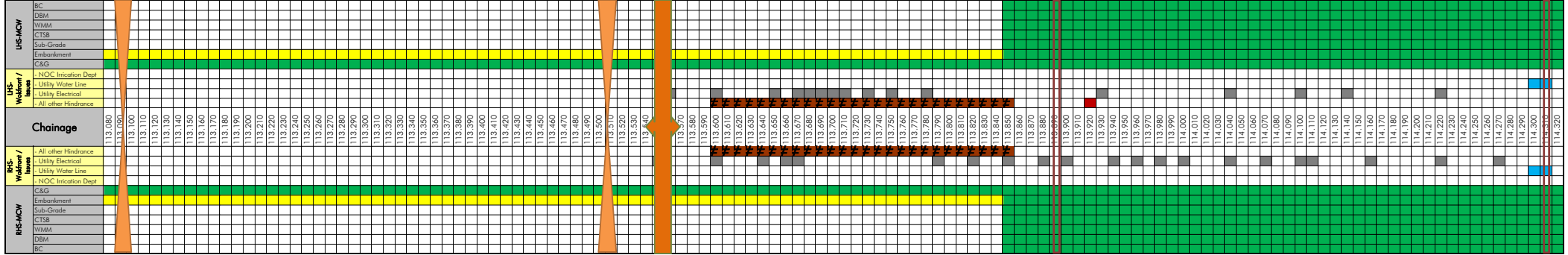
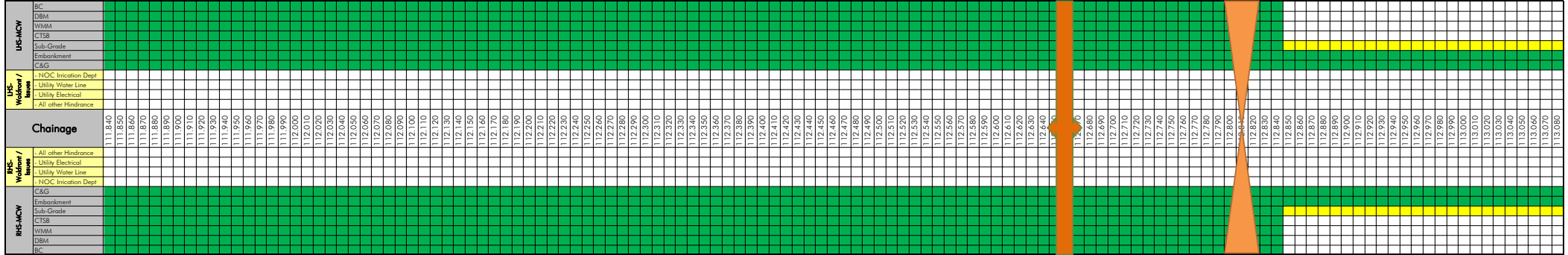
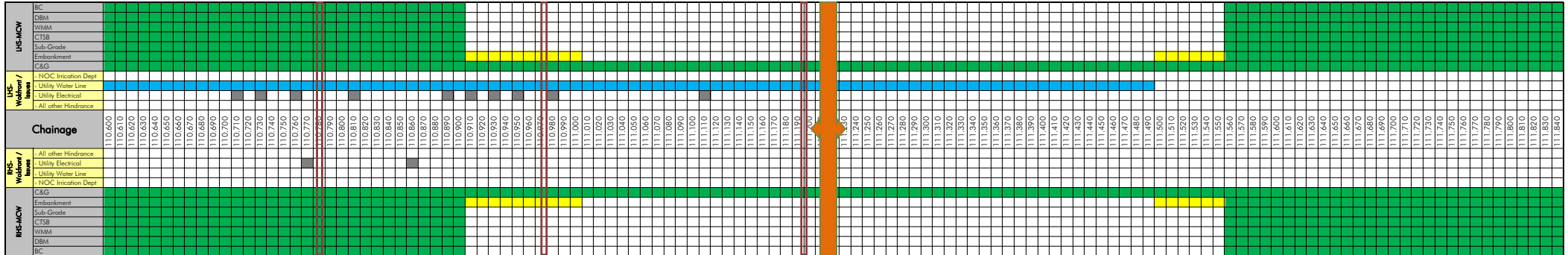
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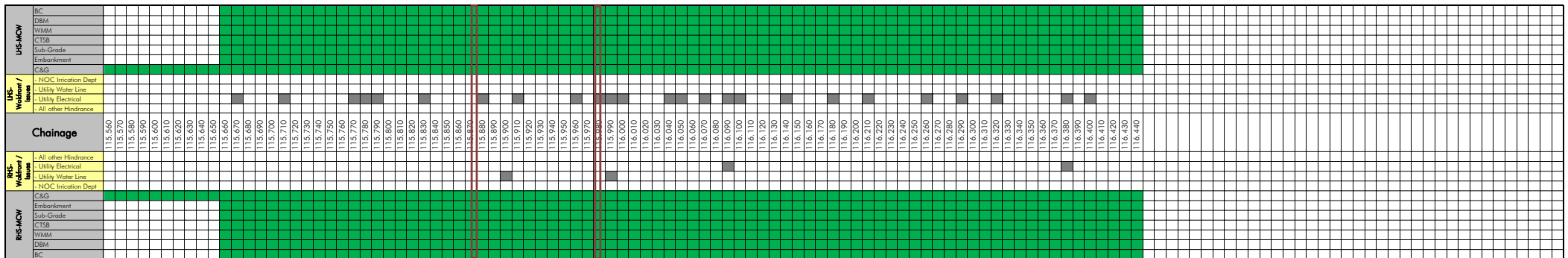
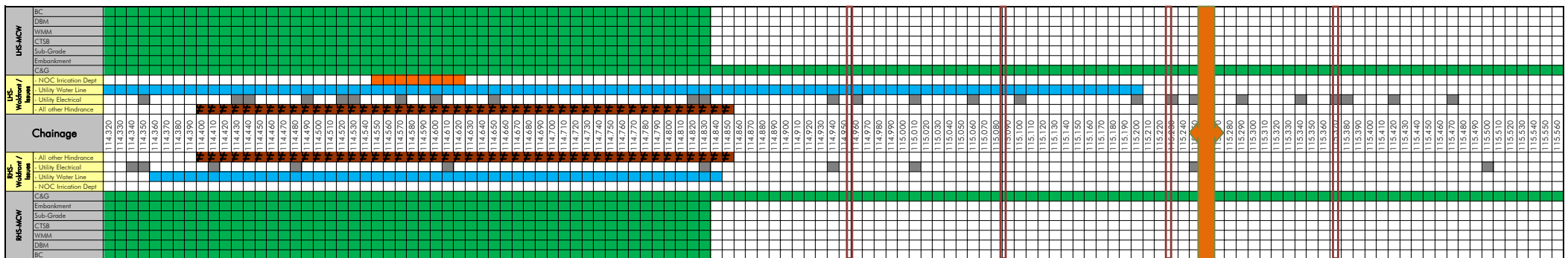
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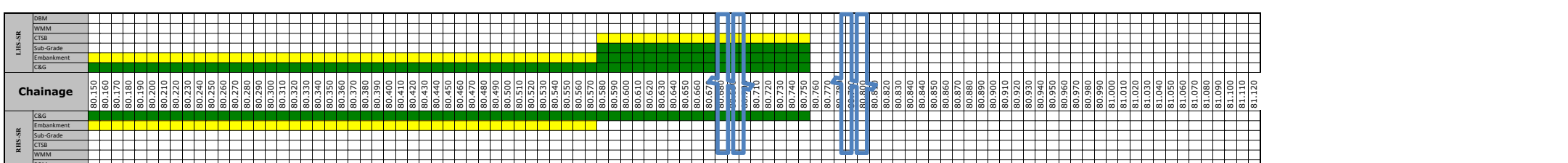
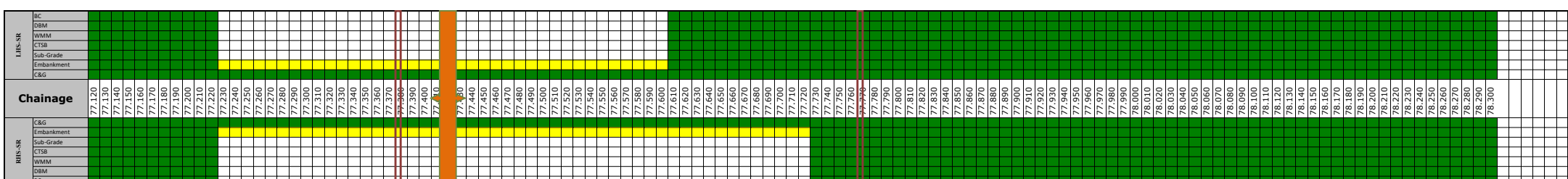
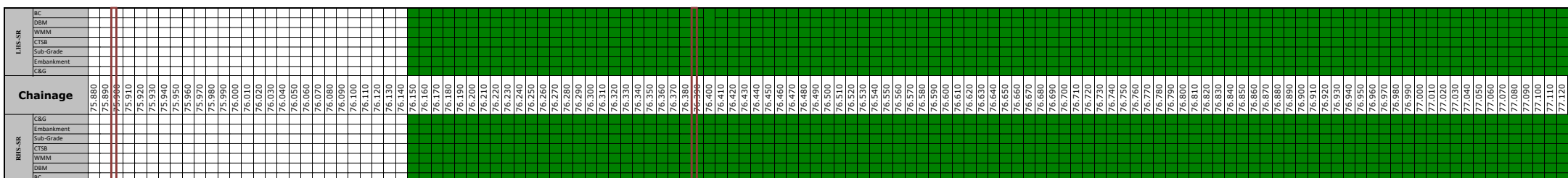
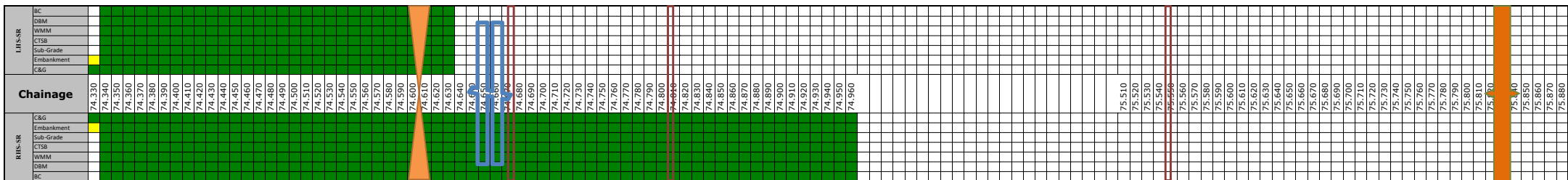
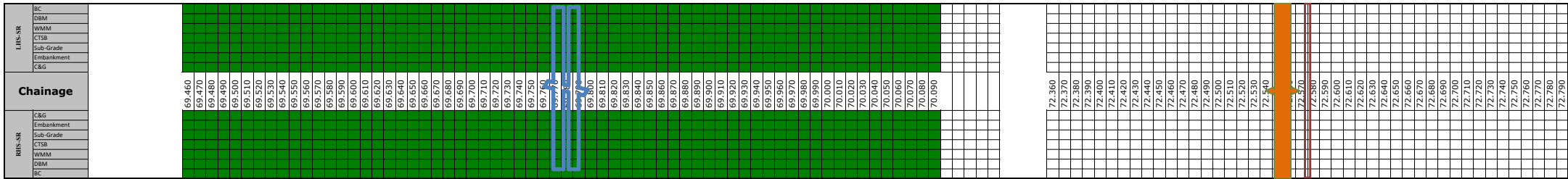
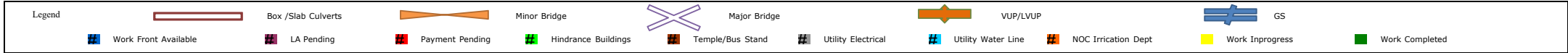
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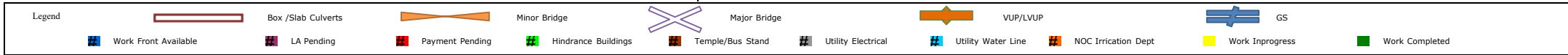
Strip Plan for SR as on 30.04.2023



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Sethiyahopu - Cholapuram Road Projects

Strip Plan for SR as on 30.04.2023



LRS-SR		BC	
		DBM	
		WMM	
		CTSB	
		Sub-Grade	
		Embankment	
		C&G	
Chainage	RIS-SR	C&G	
		Embankment	
		Sub-Grade	
		CTSB	
		WMM	
		DBM	
		BC	

LRS-SR		BC	
		DBM	
		WMM	
		CTSB	
		Sub-Grade	
		Embankment	
		C&G	
Chainage	RIS-SR	C&G	83.320
		Embankment	83.330
		Sub-Grade	83.340
		CTSB	83.350
		WMM	83.360
		DBM	83.370
		BC	83.380

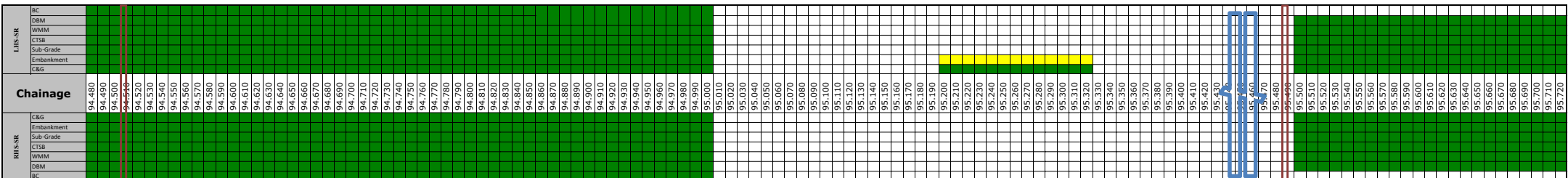
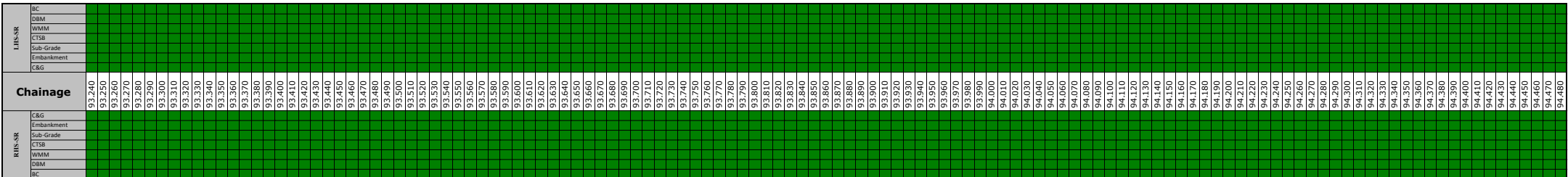
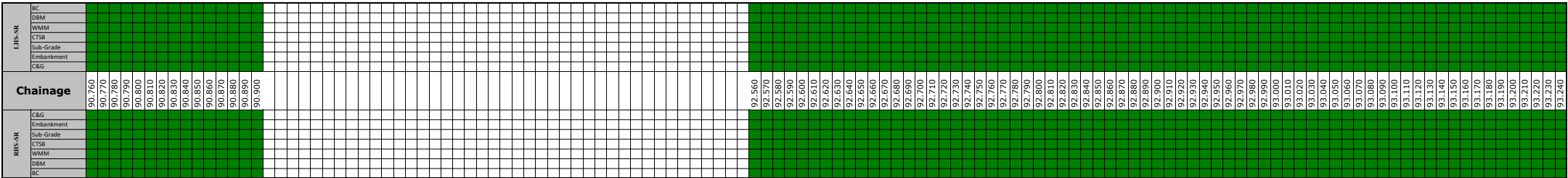
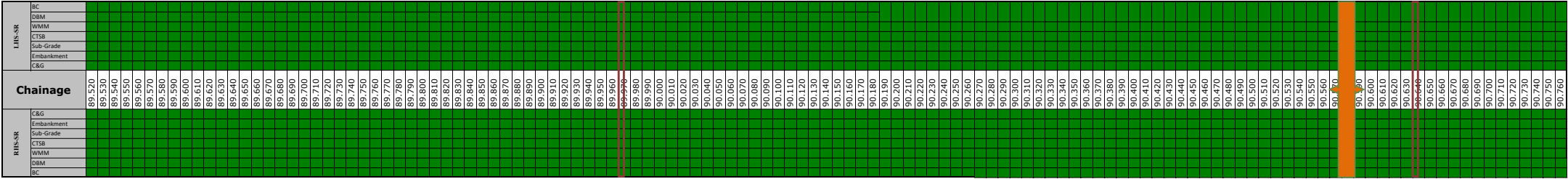
LRS-SR		BC	
		DBM	
		WMM	
		CTSB	
		Sub-Grade	
		Embankment	
		C&G	
Chainage	RIS-SR	C&G	85.650
		Embankment	85.660
		Sub-Grade	85.670
		CTSB	85.680
		WMM	85.690
		DBM	85.700
		BC	85.710

LRS-SR		DBM	
		WMM	
		CTSB	
		Sub-Grade	
		Embankment	
		C&G	
Chainage	RIS-SR	C&G	86.900
		Embankment	86.910
		Sub-Grade	86.920
		CTSB	86.930
		WMM	86.940
		DBM	86.950
		BC	86.960

LRS-SR		BC	
		DBM	
		WMM	
		CTSB	
		Sub-Grade	
		Embankment	
		C&G	
Chainage	RIS-SR	C&G	88.130
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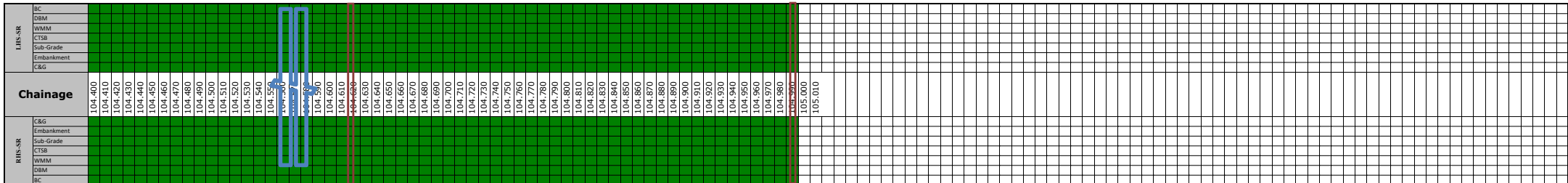
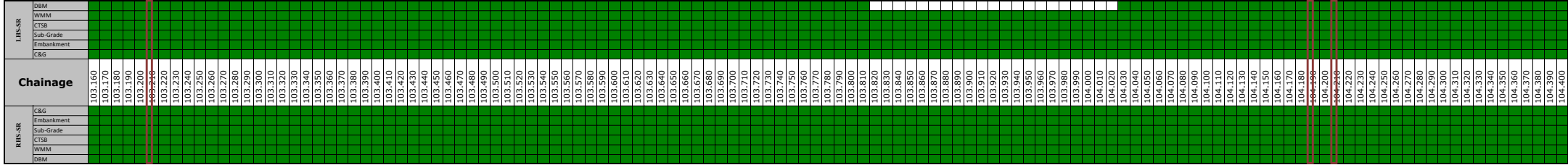
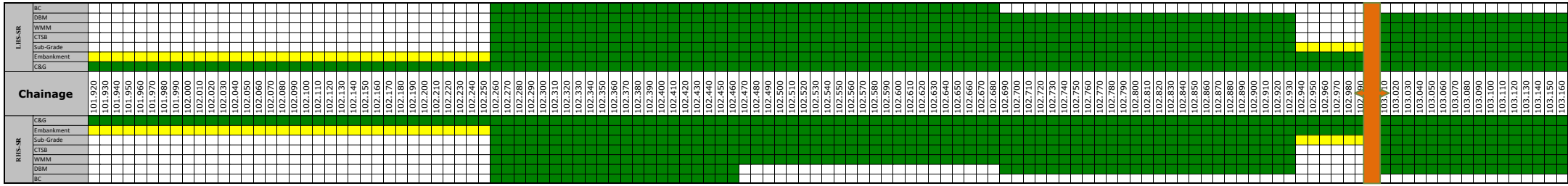
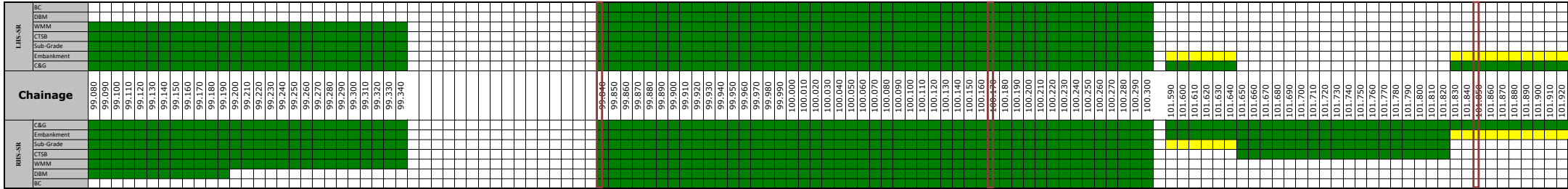
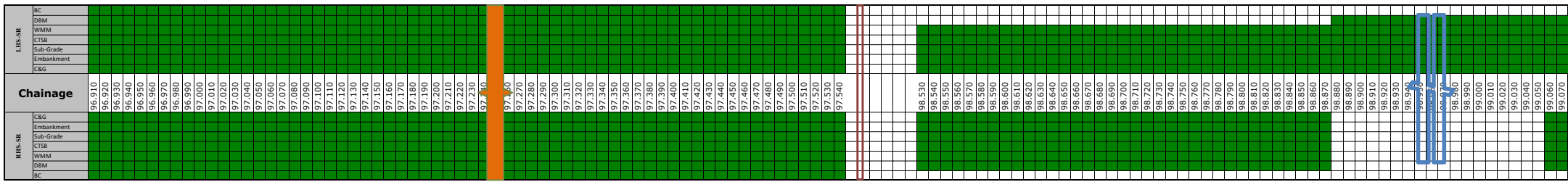
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Sethiyahopu - Cholopuram Road Projects

Strip Plan for SR as on 30.04.2023



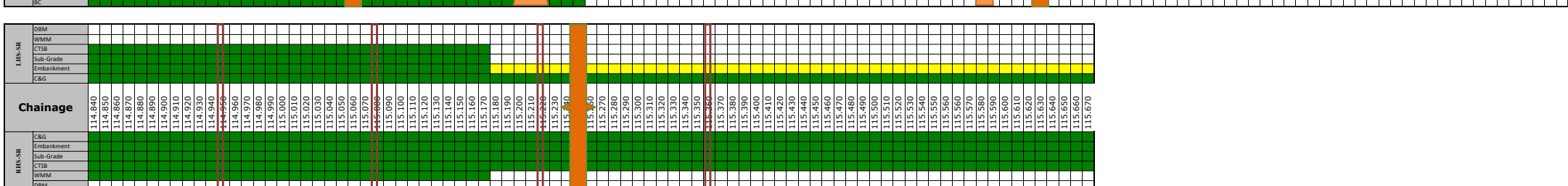
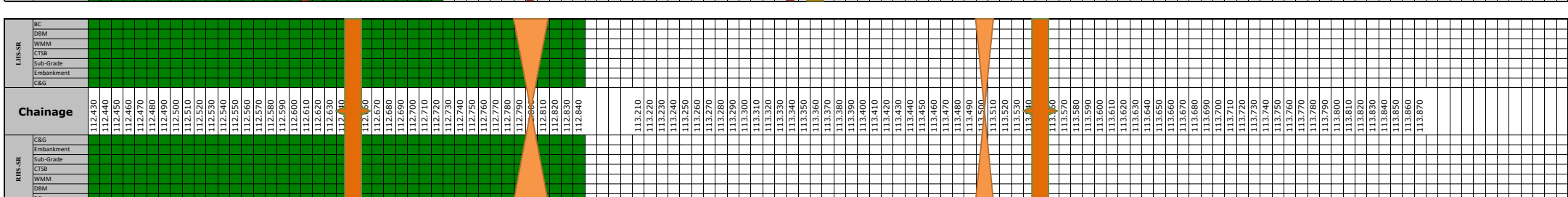
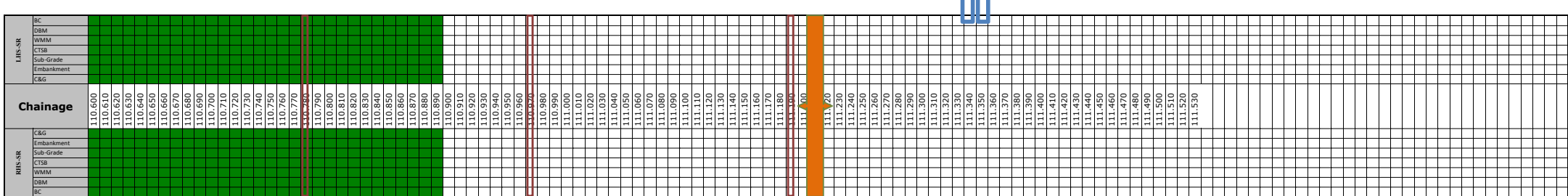
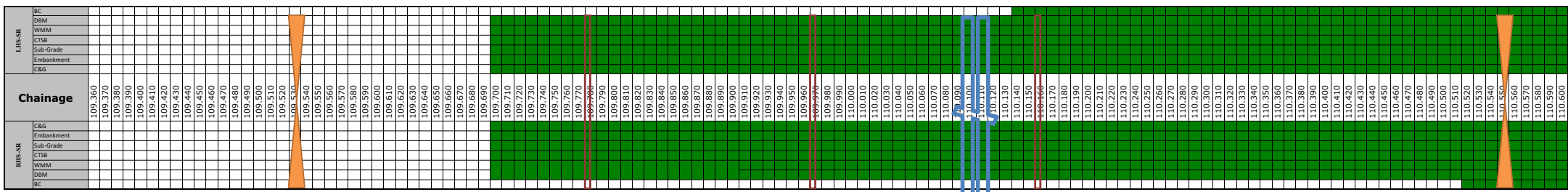
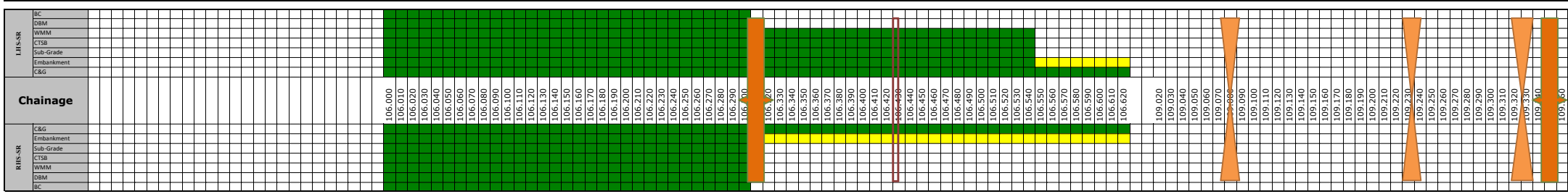
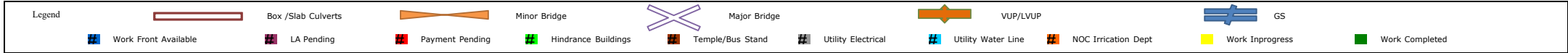
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SETHIAHOPU CHOLOPURAM PROJECT - STATUS OF BOX CULVERTS ON EXISTING ROAD - MCW							Completed								In Progress								
Status Upto	30.04.2023						LHS								RHS								
Sr. No.	As Approved by IE	Design Chainage As per CA		Number and Length of Spans (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	30.04.2023						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																	

SETHIYAHOPU CHOLOPURAM PROJECT - STATUS OF BOX CULVERTS ON BYPASS - MCW						Completed								In Progress								
Status Upto	30.04.2023					LHS								RHS								
Sr. No.	As Approved by IE	Design Chainage As per CA		Number and Length of Spans (m)	Type of Structure	Protection Work	Fly wing wall	Slab	Wall	Raft	PCC	Granular Filling	Excavation	Excavation	Granular Filling	PCC	Raft	Wall	Slab	Fly wing wall	Protection Work	
1	66+357	66.383	BYPASS	1 x 3.0m x 2.0m	BOX CULVERT																	
2	67+068	67.068	BYPASS	1 x 3.0m x 2.0m	BOX CULVERT																	
3	69+357	69.357	BYPASS	1 x 2.0m x 2.0m	BOX CULVERT																	
4	72+570	72.578	BYPASS	1 x 3.0m x 2.0m	BOX CULVERT																	
5	73+755	73.755	BYPASS	1x1.2.0mx2.0m	PIPE CULVERT																	
6	104+622	104.618	BYPASS	1 x 2.0m x 2.0m	BOX CULVERT																	
7	104+998	104.992	BYPASS	1 x 4.0m x 2.0m	BOX CULVERT																	
8	105+440	105.440	BYPASS	1 x 2.0m x 2.0m	BOX CULVERT																	
9	105+536	105.525	BYPASS	1 x 2.0m x 2.0m	BOX CULVERT																	
10	106+442	106.432	BYPASS	1 x 2.0m x 2.0m	BOX CULVERT																	
11	108+002	107.994	BYPASS	1 x 3.0m x 2.0m	BOX CULVERT																	
12	108+080	108.070	BYPASS	1 x 4.0m x 2.0m	BOX CULVERT																	
13	108+225	108.225	BYPASS	1 x 3.0m x 2.0m	BOX CULVERT																	
14	108+345	108.334	BYPASS	1 x 3.0m x 2.0m	BOX CULVERT																	
15	108+441	108.441	BYPASS	1 x 3.0m x 2.0m	BOX CULVERT																	
16	108+540	108.500	BYPASS	1 x 2.0m x 2.0m	BOX CULVERT																	
17	108+767	108.767	BYPASS	1 x 4.0m x 2.0m	BOX CULVERT																	
18	111+205	111.196	BYPASS	1 x 1.0m	PIPE CULVERT																	
19	113+372	113.372	BYPASS		BOX CULVERT																	

SETHIYAHOPU CHOLOPURAM PROJECT - STATUS OF BOX CULVERTS ON BYPASS - SERVICE ROAD						Completed								In Progress								
Status Upto	30.04.2023					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 TYPE - MCW						Completed							In Progress									
Status Upto	30.04.2023					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 TYPE - SERVICE ROAD						Completed							In Progress									
Status Upto	30.04.2023					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	30.04.2023				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 - GIRDER TYPE					Completed								In Progress												
Status upto	30.04.2023				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 30.04.2023	LHS/LSR									RHS/RSR											
	Crash Barrier	Slab	Girder Launching	Girder Casting	Pier	Cap/Abt	Cap	Pier/Abt	Pile Cap	Pile	Pile	Pile Cap	Pier/Abt	Pier	Cap/Abt	Cap	Girder Casting	Girder Launching	Slab	Crash Barrier	
A1																					
P1																					
P2																					
P3																					
P4																					
P5																					
P6																					
P7																					
A2																					
MJB at Chainage 73+340 (9x30) - BYPASS										Completed											
MJB at Chainage 73+340 (9x30) - BYPASS										In Progress											
Status Upto 30.04.2023	LHS/LSR									RHS/RSR											
	Crash Barrier	Slab	Girder Launching	Girder Casting	Pier	Cap/Abt	Cap	Pier/Abt	Pile Cap	Pile	Pile	Pile Cap	Pier/Abt	Pier	Cap/Abt	Cap	Girder Casting	Girder Launching	Slab	Crash Barrier	
A1																					
P1																					
P2																					
P3																					
P4																					
P5																					
P6																					
P7																					
P8																					
A2																					

MJB at Chainage 99+583 (3x25) - EXISTING ROAD										<div style="display: flex; justify-content: space-between;"> Completed </div> <div style="display: flex; justify-content: space-between;"> In Progress </div>									
Status Upto 30.04.2023	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										<div style="display: flex; justify-content: space-between;"> Completed </div> <div style="display: flex; justify-content: space-between;"> In Progress </div>									
Status Upto 30.04.2023	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	30.04.2023				LHS									RHS									
Sr.No.	FO at Chainage	Span			Crash Barrier	Slab	Girder Launching	Girder Casting	Piercap /Abtcap	Abt Shaft	Pile Cap	PCC	Pile	Pile	PCC	Pile Cap	Abt Shaft	Piercap /Abtcap	Girder Casting	Girder Launching	Slab	Crash Barrier	
1	69+785	1x30	BYPASS	A1																			
				A2																			
2	74+655	1x30	BYPASS+EXISTING	A1																			
				A2																			
3	80+556	1x30	EXISTING	A1																			
				A2																			
4	80+720	1x30	EXISTING	A1	Negative Change of Scope									Negative Change of Scope									
				A2																			
5	95+455	2x30	EXISTING	A1																			
				P1																			
				A2																			
6	98+950	2x30	EXISTING	A1																			
				P1																			
				A2																			
7	104+570	1x30	BYPASS	A1																			
				A2																			
8	110+110	1x30	EXISTING	A1																			
				A2																			

SETHIAHOPU CHOLOPURAM PROJECT - STATUS OF VUP					Completed									In Progress									
Status upto	30.04.2023				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																			

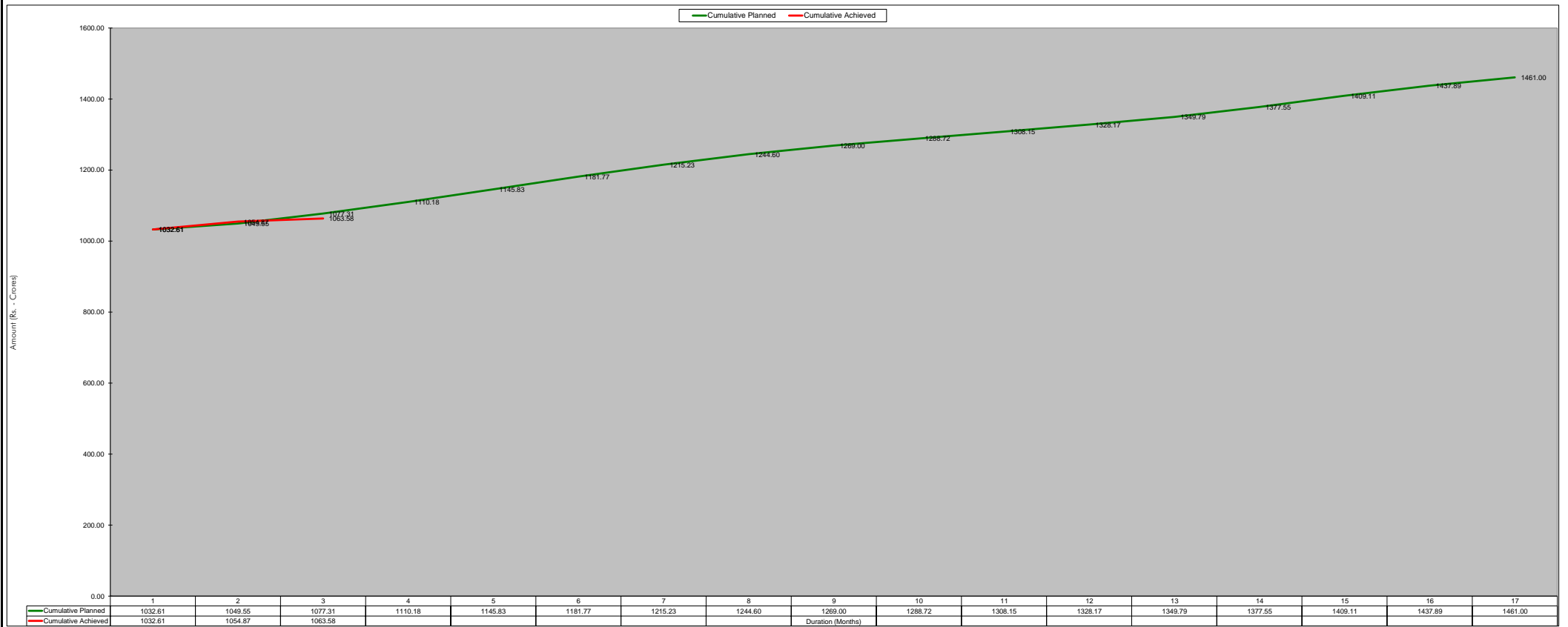
5. Financial & Physical Progress of Work

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.

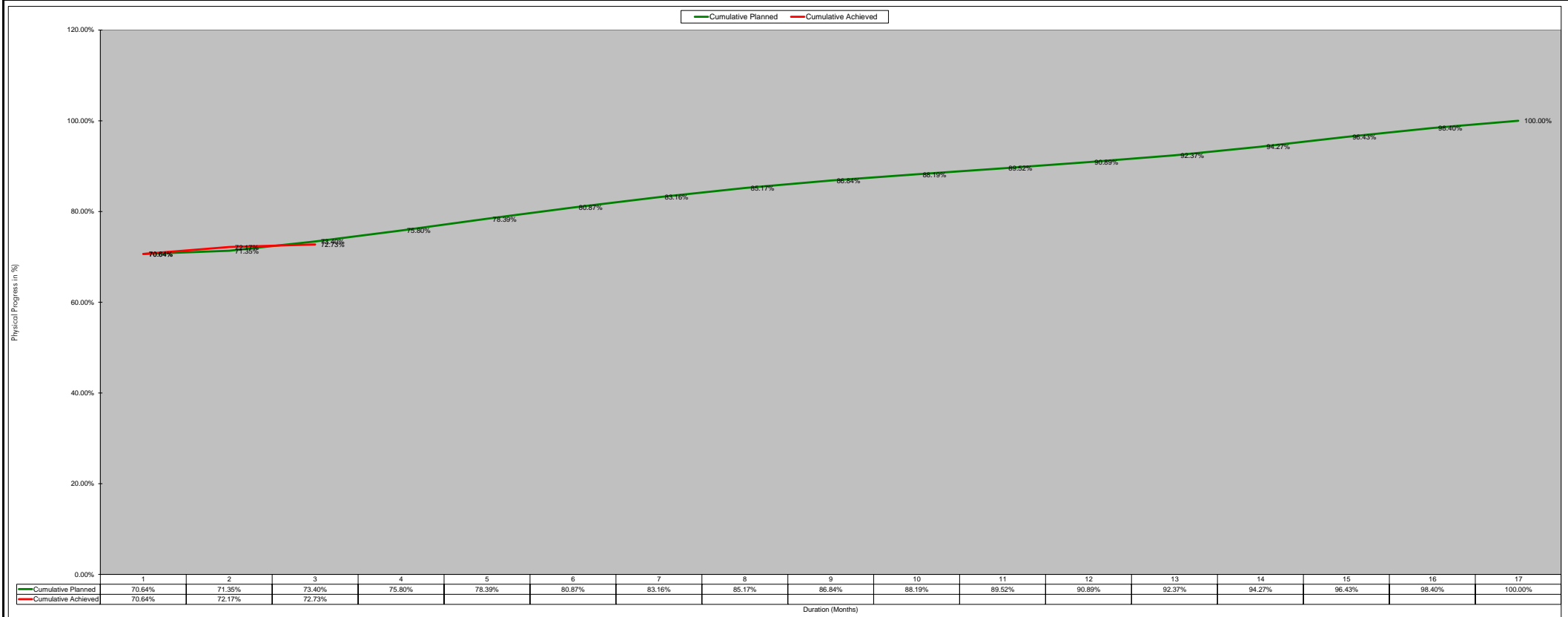
Fig. 03a- Financial Progress (Revised S-Curve) as per Settlement Agreement signed on dated 20.03.2023.



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

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. 03b- Physical Progress (Revised S-Curve) as per Settlement Agreement signed on dated 20.03.2023.



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

6. Quality Control and Quality Assurance

6.1. List of Lab Equipment's

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

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

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

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

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

t	12.5mm	2 Nos
v	11.2mm	2 Nos
u	10mm	2 Nos
w	9.5mm	2 Nos
x	6.3mm	2 Nos
y	5.6mm	2 Nos
z	4.75mm	2 Nos
2	Test Sieves Set 200mm internal diameter (Brass frame & steel or brass wire cloth mesh) as per IS complete with lid & pan of sieve	
a	37.5mm	2 Nos
b	26.5mm	2 Nos
c	22.4mm	2 Nos
d	19mm	2 Nos
e	16mm	2 Nos
f	14mm	2 Nos
g	13.2mm	2 Nos
h	12.5	2 Nos
i	11.2mm	2 Nos
j	10mm	2 Nos
k	9.5mm	2 Nos
l	4.75mm	2 Nos
m	2.8mm	2 Nos
n	2.36mm	2 Nos
o	2.0mm	2 Nos
p	1.80mm	2 Nos
q	1.7mm	2 Nos
r	1.4mm	2 Nos
s	1.18mm	2 Nos
t	1.0mm	3 Nos
v	0.600mm	2 Nos
u	0.425mm	2 Nos
w	0.355mm	2 Nos
x	0.300mm	2 Nos

y	0.180	2 Nos
z	0.090mm	2 Nos
aa	0.075mm	6 Nos
3	Measuring cylinder - Borosilicate glass - 100ML	40 Nos
4	Glass Thermometer 00c to 3000c	10 Nos
5	Flash filtering borosil glass - 2000ML	1 No
6	Flash filtering borosil glass - 5000ML	1 No
7	Round hot Plate	2 Nos
8	Measuring cylinder - Borosilicate glass - 1000ML	4 Nos
9	Measuring cylinder - Borosilicate glass - 250ML	4 Nos
10	Measuring cylinder- Borosilicate glass - 500ML	4 Nos
11	Beakers - glass borosil - low 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 April - 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 April-2023

Sr. No.	Item Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month				Tests conducted during reporting month April 2023						Test conducted upto this month			
				No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos. of test witnessed by IE	Tested		Passed		Failed		No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos. of test witnessed by IE
								Concessio narie	IE	Concessio narie	IE	Concessio narie	IE				
1.0 Tests on OGL																	
1.1	Grain size analysis	IS:2720 (Part4)	1 test / 250 meters	345	345	0	97	0	0	0	0	0	0	345	345	0	97
1.2	Atterberg Limits	IS:2720 (Part5)	1 test / 250 meters	345	345	0	97	0	0	0	0	0	0	345	345	0	97
1.3	Proctor	IS:2720 (Part8)	1 test / 250 meters	345	345	0	97	0	0	0	0	0	0	345	345	0	97
1.4	Free Swell index	IS:2720 (Part40)	1 test / 250 meters	345	338	7	97	0	0	0	0	0	0	345	338	7	97
1.5	California bearing ratio	IS:2720 (Part16)	As required	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0 Borrow Area for EMB/Subgrade (MoRT&H 305)																	
2.1	Grain size analysis	IS:2720 (Part4)	1 test /1500 m ³	1678	1678	0	912	40	20	40	20	0	0	1718	1718	0	932
2.2	Atterberg Limits	IS:2720 (Part5)	1 test /1500 m ³	1678	1678	0	912	40	20	40	20	0	0	1718	1718	0	932
2.3	Proctor	IS:2720 (Part8)	1 test /1500 m ³	1678	1678	0	912	40	20	40	20	0	0	1718	1718	0	932
2.4	Free Swell index	IS:2720 (Part40)	1 test /1500 m ³	1678	1678	0	912	40	20	40	20	0	0	1718	1718	0	932
2.5	California bearing ratio	IS:2720 (Part16)	1 test /3000 m ³	504	494	10	266	2	0	0	0	2	0	506	494	12	266
2.6	Direct shear Test	IS:2720 (Part13)	1 test /3000 m ³	323	320	3	166	10	5	10	5	0	0	333	330	3	171
3.0 Cutting & Existing Portion for EMB/SG site sampling (MoRT&H 305)																	
3.1	Grain size analysis	IS:2720 (Part4)	1 test /1500 m ³	89	87	2	47	0	0	0	0	0	0	89	87	2	47
3.2	Atterberg Limits	IS:2720 (Part5)	1 test /1500 m ³	89	87	2	47	0	0	0	0	0	0	89	87	2	47
3.3	Proctor	IS:2720 (Part8)	1 test /1500 m ³	89	87	2	47	0	0	0	0	0	0	89	87	2	47
3.4	Free Swell index	IS:2720 (Part40)	1 test /1500 m ³	89	87	2	47	0	0	0	0	0	0	89	87	2	47
3.5	California bearing ratio	IS:2720 (Part16)	1 test /3000 m ³	46	44	2	26	0	0	0	0	0	0	46	44	2	26
3.6	Direct shear Test	IS:2720 (Part13)	1 test /3000 m ³	1	1	0	1	0	0	0	0	0	0	1	1	0	1
4.0 Service Road																	
4.1	Grain size analysis	IS:2720 (Part4)	1 test /1500 m ³	27	27	0	20	0	0	0	0	0	0	27	27	0	20
4.2	Atterberg Limits	IS:2720 (Part5)	1 test /1500 m ³	27	27	0	20	0	0	0	0	0	0	27	27	0	20
4.3	Proctor	IS:2720 (Part8)	1 test /1500 m ³	27	27	0	20	0	0	0	0	0	0	27	27	0	20
4.4	Free Swell index	IS:2720 (Part40)	1 test /1500 m ³	27	27	0	20	0	0	0	0	0	0	27	27	0	20
4.5	California bearing ratio	IS:2720 (Part16)	1 test /3000 m ³	8	8	0	8	0	0	0	0	0	0	8	8	0	8
4.6	Direct shear Test	IS:2720 (Part13)	1 test /3000 m ³	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0 Flyash for Embankment																	
5.1	Liquid Limit & Plastic limit	TABLE-1	1 test /1500 m ³	467	467	0	266	0	0	0	0	0	0	467	467	0	266
5.2	Maximum Dry Density	Clause 5.2	1 test /1500 m ³	467	467	0	278	0	0	0	0	0	0	467	467	0	278
5.3	Grain size analysis	IS:2720 (Part4)	1 test /3000 m ³	327	327	0	190	0	0	0	0	0	0	327	327	0	190
5.4	Direct shear Test	IS:2720 (Part13)	1 test /3000 m ³	212	212	0	118	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 April 2023						Test conducted upto this month			
				No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos. of test witnessed by IE	Tested		Passed		Failed		No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos. of test witnessed by IE
								Concessio narie	IE	Concessio narie	IE	Concessio narie	IE				
6.0 Field Density Test (MoRT&H 305)																	
6.1	Field density (OGL)	IS:2720 (Part28)	1 test /3000 sqm	4159	4039	120	1048	113	10	110	10	3	0	4272	4149	123	1058
6.2	EMB field density	IS:2720 (Part28)	1 test /3000 sqm	94557	91503	3054	17490	2420	303	2369	300	51	3	96977	93872	3105	17793
6.3	SG field density	IS:2720 (Part28)	1 test /2000 sqm	19452	18957	495	6501	1060	100	1036	100	24	0	20512	19993	519	6601
6.4	Shoulder field density	IS:2720 (Part28)	1 test /2000 sqm	1213	1170	43	135	0	0	0	0	0	0	1213	1170	43	135
6.5	Ground improvement (Soil)	IS:2720 (Part28)	1 test /2000 sqm	5091	5008	83	611	350	0	350	0	0	0	5441	5358	83	611
6.6	Ground improvement & Median filling (Flyash)	IS:2720 (Part28)	1 test /2000 sqm	39560	38469	1091	5230	133	0	130	0	3	0	39693	38599	1094	5230
7.0 Filter Media & Back filling (MoRT&H 2500)																	
7.1	Gradation		As required	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.2	Backfilling field density		1 test /1000 m ³	993	990	3	58	0	0	0	0	0	0	993	990	3	58
7.3	RE Wall field density		As required	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0 Safe Bearing capacity of soil																	
8.1	Free Swell index	IS:2720 (Part40)	As required	113	100	13	97	0	0	0	0	0	0	113	100	13	97
8.2	Grain size analysis	IS:2720 (Part4)	As required	113	106	7	97	0	0	0	0	0	0	113	106	7	97
8.3	Proctor	IS:2720 (Part8)	As required	113	106	7	97	0	0	0	0	0	0	113	106	7	97
8.4	Direct shear Test	IS:2720 (Part13)	As required	113	94	19	97	0	0	0	0	0	0	113	94	19	97
8.5	Bearing Capacity / Plate Load Test	IS:6403 / IS:1888	As required	110	56	54	66	0	0	0	0	0	0	110	56	54	66
9.0 CTSB Mix Design/Site Frequency (MoRT&H 403)																	
9.1	Gradation	Table 400-4	1 test/400m ³	1195	1195	0	478	59	36	59	36	0	0	1254	1254	0	514
9.2	Atterberg Limits	IS:2720 (Part5)	1 test/400m ³	1074	1074	0	401	59	36	59	36	0	0	1133	1133	0	437
9.3	Proctor	IS:2720 (Part8)	As required	64	64	0	62	2	2	2	2	0	0	66	66	0	64
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	6530	6530	0	3827	182	6	182	6	0	0	6712	6712	0	3833
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	2208	2208	0	816	56	35	56	35	0	0	2264	2264	0	851
10.0 Granular Bedding Material (For Structures-Ground Improvement)- Mix Design																	
10.1	Gradation	Table 400-1	1 test/400m ³	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.2	Atterberg Limits	IS:2720 (Part5)	1 test/400m ³	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.3	Proctor	IS:2720 (Part8)	As required	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.4	CBR Test	IS:2720 (Part16)	As required	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.5	Aggregate Impact value	IS:2386 (Part4)	As required	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.6	Field Density	IS:2720 (Part28)	1 Test per 1000 Sq.m	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Sr. No.	Item Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month				Tests conducted during reporting month April 2023						Test conducted upto this month			
				No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos. of test witnessed by IE	Tested		Passed		Failed		No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos. of test witnessed by IE
								Concessionaire	IE	Concessionaire	IE	Concessionaire	IE				
11.0 Granular Bedding Material (For Structures-Ground Improvement)- Site Frequency																	
11.1	Gradation	Table 400-1	1 test/400m ³	3	3	0	3	0	0	0	0	0	0	3	3	0	3
11.2	Atterberg Limits	IS:2720 (Part5)	1 test/400m ³	3	3	0	3	0	0	0	0	0	0	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
12.0 WMM Mix Design (MoRT&H 406)																	
12.1	Gradation	Table 400-3	1 test/200m ³	61	61	0	61	0	0	0	0	0	0	61	61	0	61
12.2	Aggregate Impact Value	IS:2386 (Part4)	1 test/1000m ³	13	13	0	13	0	0	0	0	0	0	13	13	0	13
12.3	Flakiness & Elongation index	IS:2386 (Part1)	1 test/500m ³	12	12	0	12	0	0	0	0	0	0	12	12	0	12
12.4	Atterberg Limits	IS:2720 (Part5)	1 test/200m ³	12	12	0	12	0	0	0	0	0	0	12	12	0	12
12.5	Water absorption & Sp.Gravity	IS:2386 (Part2)	As required	8	8	0	8	0	0	0	0	0	0	8	8	0	8
12.6	Proctor	IS:2720 (Part8)	As required	4	4	0	4	0	0	0	0	0	0	4	4	0	4
12.7	CBR	IS:2720 (Part16)	As required	2	2	0	2	0	0	0	0	0	0	2	2	0	2
13.0 WMM Site Frequency (MoRT&H 406)																	
13.1	Gradation	Table 400-3	1 test/200m ³	812	812	0	328	17	10	17	10	0	0	829	829	0	338
13.2	Aggregate Impact Value	IS:2386 (Part4)	1 test/1000m ³	476	476	0	189	15	9	15	9	0	0	491	491	0	198
13.3	Flakiness & Elongation index	IS:2386 (Part1)	1 test/500m ³	490	490	0	175	15	9	15	9	0	0	505	505	0	184
13.4	Atterberg Limits	IS:2720 (Part5)	1 test/200m ³	775	775	0	294	17	10	17	10	0	0	792	792	0	304
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	30	30	0	28	1	1	1	1	0	0	31	31	0	29
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	1739	1739	0	1013	79	3	79	3	0	0	1818	1818	0	1016
14.0 Dense Bituminous Macadam (Grade - II)																	
14.1	Bitumen Extraction & Gradation		1 Test/400MT	494	494	0	227	6	2	6	2	0	0	500	500	0	229
14.2	Combined Gradation	Table 500 - 18, Grad.II	1 Test/400MT	481	481	0	204	6	2	6	2	0	0	487	487	0	206
14.3	Individual Gradation Sets	Table 500 - 18, Grad.II	1 Test/400MT	480	480	0	207	6	2	6	2	0	0	486	486	0	209
14.4	Flakiness & Elongation index	MoRT&H Table 900 - 4	1 test/350m ³	311	311	0	138	3	1	3	1	0	0	314	314	0	139
14.5	Aggregate Impact Value	MoRT&H Table 900 - 4	1 test/350m ³	358	358	0	158	3	1	3	1	0	0	361	361	0	159
14.6	Marshall Density	ASTM D 2726	1 Set/400MT	515	515	0	230	6	2	6	2	0	0	521	521	0	232
14.7	GMM	MoRT&H Table 900 - 4	1 Test/400MT	486	486	0	216	6	2	6	2	0	0	492	492	0	218
14.8	DBM Core Cutting	MoRT&H Table 900 - 4	1 Test/700M ²	1434	1434	0	807	24	24	24	24	0	0	1458	1458	0	831
Bitumen test (VG-40)																	
14.9	Softening Point	IS:1205 - 1978	1 Test/ 1 lot	245	245	0	110	3	3	3	3	0	0	248	248	0	113
14.10	Penetration	IS:1205 - 1978	1 Test/ 1 lot	245	245	0	110	3	3	3	3	0	0	248	248	0	113
14.11	Viscosity	IS:1205 - 1978	1 Test/ 1 lot	245	245	0	110	3	3	3	3	0	0	248	248	0	113

Sr. No.	Item Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month				Tests conducted during reporting month April 2023						Test conducted upto this month				
				No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos. of test witnessed by IE	Tested		Passed		Failed		No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos. of test witnessed by IE	
								Concessionaire	IE	Concessionaire	IE	Concessionaire	IE					
15.0 Bituminous Concrete (Grade - II) PMB MCW																		
15.1	Bitumen Extraction & Gradation	IRC:SP:11	1 Test/400MT	293	293	0	167	0	0	0	0	0	0	0	293	293	0	167
15.2	Combined Gradation	Table 500 - 17, Grad.II	1 Test/400MT	293	293	0	181	0	0	0	0	0	0	0	293	293	0	181
15.3	Individual Gradation Sets	Table 500 - 17, Grad.II	1 Test/400MT	293	293	0	181	0	0	0	0	0	0	0	293	293	0	181
15.4	Flakiness & Elongation index	MoRT&H Table 900 - 4	1 test/350m ³	146	146	0	83	0	0	0	0	0	0	0	146	146	0	83
15.5	Aggregate Impact Value	MoRT&H Table 900 - 4	1 test/350m ³	148	148	0	85	0	0	0	0	0	0	0	148	148	0	85
15.6	Marshall Density	ASTM D 2726	1 Set/400MT	289	289	0	156	0	0	0	0	0	0	0	289	289	0	156
15.7	GMM	MoRT&H Table 900 - 4	1 Test/400MT	292	292	0	159	0	0	0	0	0	0	0	292	292	0	159
15.8	BC Core Cutting	MoRT&H Table 900 - 4	1 Test/700M ²	1102	1102	0	567	0	0	0	0	0	0	0	1102	1102	0	567
16.0 Bituminous Concrete (Grade - II) VG-40 S/R																		
16.1	Bitumen Extraction & Gradation	IRC:SP:11	1 Test/400MT	74	74	0	35	0	0	0	0	0	0	0	74	74	0	35
16.2	Combined Gradation	Table 500 - 17, Grad.II	1 Test/400MT	71	71	0	34	0	0	0	0	0	0	0	71	71	0	34
16.3	Individual Gradation Sets	Table 500 - 17, Grad.II	1 Test/400MT	71	71	0	34	0	0	0	0	0	0	0	71	71	0	34
16.4	Flakiness & Elongation index	MoRT&H Table 900 - 4	1 test/350m ³	41	41	0	22	0	0	0	0	0	0	0	41	41	0	22
16.5	Aggregate Impact Value	MoRT&H Table 900 - 4	1 test/350m ³	41	41	0	22	0	0	0	0	0	0	0	41	41	0	22
16.6	Marshall Density	ASTM D 2726	1 Set/400MT	71	71	0	34	0	0	0	0	0	0	0	71	71	0	34
16.7	GMM	MoRT&H Table 900 - 4	1 Test/400MT	71	71	0	34	0	0	0	0	0	0	0	71	71	0	34
16.8	BC Core Cutting	MoRT&H Table 900 - 4	1 Test/700M ²	256	256	0	156	0	0	0	0	0	0	0	256	256	0	156
Bitumen test (PMB)																		
16.9	Softening Point	IS:1205 - 1978	1 Test/ 1 lot	169	169	0	72	3	1	3	1	0	0	0	172	172	0	73
16.10	Elastic recovery	IS:15462 - 2019	1 Test/ 1 lot	169	169	0	72	3	1	3	1	0	0	0	172	172	0	73
17.0 Prime Coat																		
17.0	Rate of Spread of Binder		Three tests per day	1057	1057	0	466	24	4	24	4	0	0	0	1081	1081	0	470
17.1 Emulsion Test (SS-1)																		
17.1	Say bolt Viscometer	IS:8887-2004	1 Test/ 1 lot	24	24	0	17	1	1	1	1	0	0	0	25	25	0	18
17.2 Tack Coat																		
17.2	Rate of Spread of Binder		Three tests per day	1472	1472	0	542	27	4	27	4	0	0	0	1499	1499	0	546
17.3 Emulsion Test (RS-1)																		
17.3	Say bolt Viscometer	IS:8887-2004	1 Test/ 1 lot	15	15	0	12	1	1	1	1	0	0	0	16	16	0	13
18.0 Fine Aggregate (MoRT&H 1008)																		
18.1	Gradation/ Sieve analysis	IS:2386 (Part1)	1 test per day	2357	2357	0	828	30	12	30	12	0	0	0	2387	2387	0	840
18.2	Specific gravity & Water absorption	IS:2386 (Part3)	As required	16	16	0	15	0	0	0	0	0	0	0	16	16	0	15
18.3	Fineness Modulus	MoRT&H Sec. 1008 & 383	1 test per day	2215	2215	0	756	30	12	30	12	0	0	0	2245	2245	0	768
18.4	Alkali aggregate reactivity test	IS:2386 (Part7), IS:456	1 test per source	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0

Sr. No.	Item Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month				Tests conducted during reporting month April 2023						Test conducted upto this month			
				No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos. of test witnessed by IE	Tested		Passed		Failed		No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos. of test witnessed by IE
								Concessio narie	IE	Concessio narie	IE	Concessio narie	IE				
19.0 Coarse Aggregate (MoRT&H 1007)																	
19.1	Gradation	IS:2386 (Part1)	1 test per day	2271	2271	0	828	30	12	30	12	0	0	2301	2301	0	840
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	582	582	0	279	5	3	5	3	0	0	587	587	0	282
19.4	Flakiness index	IS:2386 (Part1)	1 test / each source & monthly	547	547	0	262	5	3	5	3	0	0	552	552	0	265
19.5	Soundness	IS:2386 (Part5)	As required	2	2	0	2	0	0	0	0	0	0	2	2	0	2
19.6	Alkali aggregate reactivity test	IS:2386 (Part7), IS:456	1 test per source	2	2	0	2	0	0	0	0	0	0	2	2	0	2
19.7	Deleterious constituents	IS:2386 (Part2)	1 test per source	2	2	0	2	0	0	0	0	0	0	2	2	0	2
19.8	Petrographic Examination	IS:2386 (Part8)	1 test per source	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0 Cement (MoRT&H 1006)																	
20.1	Chemical test / Physical test	IS:4031, 4032	1 test per source	14	14	0	9	0	0	0	0	0	0	14	14	0	9
20.2	Fineness	IS:4031 (Part1)	Every batch	623	623	0	292	5	5	5	5	0	0	628	628	0	297
20.3	Normal Consistency	IS:4031 (Part4)	Every batch	595	595	0	292	5	5	5	5	0	0	600	600	0	297
20.4	Initial & Final setting time	IS:4031 (Part5)	Every batch	595	595	0	292	5	5	5	5	0	0	600	600	0	297
20.5	Soundness of Cement	IS:4031 (Part3)	Every batch	539	539	0	258	5	5	5	5	0	0	544	544	0	263
20.6	Compressive Strength-set	IS:4031 (Part6)															
	3 days		1 test per Lot	555	555	0	244	5	3	5	3	0	0	560	560	0	247
	7 days		1 test per Lot	548	548	0	244	4	2	4	2	0	0	552	552	0	246
	28 days		1 test per Lot	545	545	0	229	4	2	4	2	0	0	549	549	0	231
21.0 Concrete Cube Strength																	
M15 PCC																	
	7Days Compressive Strength	MoRT&H Sec. 1700	MoRT&H Sec. 1700 No of sets	842	842	0	295	20	5	20	5	0	0	862	862	0	300
	28Days Compressive Strength			1414	1414	0	614	14	4	14	4	0	0	1428	1428	0	618
M20 KERB																	
	7Days Compressive Strength	MoRT&H Sec. 1700	MoRT&H Sec. 1700 No of sets	353	353	0	82	2	1	2	1	0	0	355	355	0	83
	28Days Compressive Strength			916	916	0	218	0	0	0	0	0	0	916	916	0	218
M20 RCC																	
	7Days Compressive Strength	MoRT&H Sec. 1700	MoRT&H Sec. 1700 No of sets	457	457	0	124	14	2	14	2	0	0	471	471	0	126
	28Days Compressive Strength			871	871	0	267	36	4	36	4	0	0	907	907	0	271
M20 PCC																	
	7Days Compressive Strength	MoRT&H Sec. 1700	MoRT&H Sec. 1700 No of sets	44	44	0	19	0	0	0	0	0	0	44	44	0	19
	28Days Compressive Strength			53	53	0	20	1	0	1	0	0	0	54	54	0	20
M25 RCC																	
	7Days Compressive Strength	MoRT&H Sec. 1700	MoRT&H Sec. 1700 No of sets	82	82	0	22	0	0	0	0	0	0	82	82	0	22
	28Days Compressive Strength			140	140	0	81	0	0	0	0	0	0	140	140	0	81
M30 RCC																	
	7Days Compressive Strength	MoRT&H Sec. 1700	MoRT&H Sec. 1700 No of sets	899	899	0	309	16	10	16	10	0	0	915	915	0	319
	28Days Compressive Strength			1489	1489	0	587	23	17	23	17	0	0	1512	1512	0	604

Sr. No.	Item Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month				Tests conducted during reporting month April 2023						Test conducted upto this month			
				No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos. of test witnessed by IE	Tested		Passed		Failed		No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos. of test witnessed by IE
								Concessio narie	IE	Concessio narie	IE	Concessio narie	IE				
M30 RCC PUMPABLE																	
	7Days Compressive Strength	MoRT&H Sec. 1700	MoRT&H Sec. 1700 No of sets	197	197	0	78	2	1	2	1	0	0	199	199	0	79
	28Days Compressive Strength			494	494	0	252	0	0	0	0	0	0	0	494	494	0
M35 RCC																	
	7Days Compressive Strength	MoRT&H Sec. 1700	MoRT&H Sec. 1700 No of sets	415	415	0	195	1	0	1	0	0	0	416	416	0	195
	28Days Compressive Strength			853	853	0	435	4	4	4	4	0	0	0	857	857	0
M35 PILING																	
	7Days Compressive Strength	MoRT&H Sec. 1700	MoRT&H Sec. 1700 No of sets	1013	1013	0	533	6	4	6	4	0	0	1019	1019	0	537
	28Days Compressive Strength			2959	2959	0	1598	40	40	40	40	0	0	0	2999	2999	0
M35 RCC PUMPABLE																	
	7Days Compressive Strength	MoRT&H Sec. 1700	MoRT&H Sec. 1700 No of sets	1388	1388	0	575	13	5	13	5	0	0	1401	1401	0	580
	28Days Compressive Strength			4183	4183	0	2045	26	21	26	21	0	0	0	4209	4209	0
M35 RE BLOCK																	
	7Days Compressive Strength	MoRT&H Sec. 1700	MoRT&H Sec. 1700 No of sets	792	792	0	228	0	0	0	0	0	0	792	792	0	228
	28Days Compressive Strength			2270	2270	0	728	0	0	0	0	0	0	0	2270	2270	0
M40 PUMP & M40 RCC																	
	7Days Compressive Strength	MoRT&H Sec. 1700	MoRT&H Sec. 1700 No of sets	1027	1027	0	392	6	2	6	2	0	0	1033	1033	0	394
	28Days Compressive Strength			2247	2247	0	926	9	6	9	6	0	0	0	2256	2256	0
M40 PQC																	
	7 Days Flexural Strength	As Per IS:516	As Per IS:516	12	12	0	12	0	0	0	0	0	0	12	12	0	12
	28 Days Flexural Strength			30	30	0	30	0	0	0	0	0	0	0	30	30	0
	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	0	30	30	0
M40 PILING																	
	7Days Compressive Strength	MoRT&H Sec. 1700	MoRT&H Sec. 1700 No of sets	306	306	0	92	0	0	0	0	0	0	306	306	0	92
	28Days Compressive Strength			997	997	0	271	0	0	0	0	0	0	0	997	997	0
M45 PUMP																	
	7Days Compressive Strength	MoRT&H Sec. 1700	MoRT&H Sec. 1700 No of sets	436	436	0	188	5	1	5	1	0	0	441	441	0	189
	28Days Compressive Strength			1114	1114	0	442	2	1	2	1	0	0	0	1116	1116	0
M50 RCC PUMP																	
	7Days Compressive Strength	MoRT&H Sec. 1700	MoRT&H Sec. 1700 No of sets	19	19	0	12	0	0	0	0	0	0	19	19	0	12
	28Days Compressive Strength			29	29	0	23	0	0	0	0	0	0	0	29	29	0
M60 PUMP																	
	7Days Compressive Strength	MoRT&H Sec. 1700	MoRT&H Sec. 1700 No of sets	659	659	0	218	0	0	0	0	0	0	659	659	0	218
	28Days Compressive Strength			2266	2266	0	743	0	0	0	0	0	0	0	2266	2266	0

CONSUMPTION OF BORROW AREA (UPTO 30/04/2023)

S.NO	B/A NO.	Chainage	Lead Form NH-45C	Side	Suitable For	Approved Qty In M ³	USED Qty In M ³	BALANCE Qty In M ³	Submission Letter No	Approved Letter No	Status	Remark
1	1	Maruvay 61+090	1.5 km	LHS	EMB	18000	17964	36	PSCCHPL/SCP/IE/2018/093	TES/IE/SCP/PIL/2018/059	Close	Approved
2	1	61+090 LHS (Maruvai) EX - 01	1.5km	LHS	EMB	30000	29946	54	PSCCHPL/SCP/IE/2020/656	TES/IE/SC/PIL/2020/470	Close	Approved
3	1	61+090 LHS (Maruvai) EX - 02	1.5 KM	LHS	EMB&SUBGRADE	30000	30000	0	PSCCHPL/SCP/IE/2020/656	TES/IE/SC/PIL/2020/470	Close	Approved
4	1	61+090 LHS (Maruvai) EX - 03	1.5km	LHS	EMB	30000	29970	30	PSCCHPL/SCP/IE/2020/670	TES/IE/SC/PIL/2020/477	Close	Approved
5	1	61+090 LHS (Maruvai) EX - 04	1.5km	LHS	EMB&SUBGRADE	30000	28596	1404	PSCCHPL/SCP/IE/2020/679	TES/IE/SC/PIL/2020/486	Close	Approved
6	1	61+090 LHS (Maruvai) EX - 05	1.5km	LHS	EMB	30000	29890	110	PSCCHPL/SCP/IE/2020/679	TES/IE/SC/PIL/2020/486	Close	Approved
7	1	61+090 LHS (Maruvai) EX - 06	1.5km	LHS	EMB	45000	45000	0	PSCCHPL/SCP/IE/2020/683	TES/IE/SC/PIL/2020/500	Close	Approved
8	2	106+350 RHS Kodali	4.0 km	RHS	EMB	18000	15000	3000	PSCCHPL/SCP/IE/2018/084	TES/IE/SCP/PIL/2018/061	Close	Approved
9	2	106+350 RHS (Kodali) EX - 01	4.0 km	RHS	EMB	30000	12041	17959	PSCCHPL/SCP/IE/2020/670	TES/IE/SC/PIL/2020/477		Approved
10	2	106+350 RHS (Kodali) EX - 02	4.0 km	RHS	EMB	30000	10561.4	19438.6	PSCCHPL/SCP/IE/2020/689	TES/IE/SC/PIL/2020/490		Approved
11	3	113+250 LHS Paalur	2.0 km	LHS	EMB	15000	0	15000	PSCCHPL/SCP/IE/2018/101	TES/IE/SCP/PIL/2018/098		Approved
12	4	113+250 LHS Kattanakaram	4.0 km	LHS	EMB	15000	0	15000	PSCCHPL/SCP/IE/2018/147	TES/IE/SCP/PIL/2018/122		Approved
13	5	113+250 LHS Manikudi	5.0 km	LHS	EMB	15000	0	15000	PSCCHPL/SCP/IE/2018/116	TES/IE/SCP/PIL/2018/099		Approved
14	6	112+250 RHS Ammiyapan	8.0 km	RHS	EMB	15000	0	15000	PSCCHPL/SCP/IE/2018/160	TES/IE/SCP/PIL/2018/131		Approved
15	7	80+500 RHS Palayan kottai	6.0 km	RHS	EMB	30000	149947	53	PSCCHPL/SCP/IE/2018/160	TES/IE/SCP/PIL/2018/129		Approved
16	7	80+500 RHS Palayan kottai EX-01	6.0 km	RHS	EMB	60000			PSCCHPL/SCP/IE/2019/374	TES/IE/SCP/PIL/2019/300		Approved
17	7	80+500 RHS Palayan kottai EX-02	6.0 km	RHS	EMB	60000			PSCCHPL/SCP/IE/2019/396	TES/IE/SCP/PIL/2019/315		Approved
18	7	80+500 RHS Palayan kottai EX-03	6.0 km	RHS	EMB&SUBGRADE	60000	56527.5	3472.5	PSCCHPL/SCP/IE/2019/435	TES/IE/SCP/PIL/2019/343		Approved
19	7	80+500 RHS Palayan kottai EX-04	6.0 km	RHS	EMB&SUBGRADE	30000	29994	6	PSCCHPL/SCP/IE/2021/1005	TES/IE/SC/PIL/2021/645		Approved

20	7	80+500 RHS Palayan kottai EX-05	6.0 km	RHS	EMB&SUBGRADE	30000	26850	3150	PSCHPL/SCP/IE/2022/1083	TES/IE/SC/PIL/2022/682		Approved
21	7	80+500 RHS Palayan kottai EX-06	6.0 km	RHS	EMB&SUBGRADE	30000	25971	4029	PSCHPL/SCP/IE/2022/1101	TES/IE/SC/PIL/2022/736		Approved
22	7	80+500 RHS Palayan kottai EX-07	6.0 km	RHS	EMB&SUBGRADE	30000	23491	6509	PSCHPL/SCP/IE/2022/1107	TES/IE/SC/PIL/2022/724		Approved
23	7	80+500 RHS Palayan kottai EX-08	6.0 km	RHS	EMB	30000		30000	PSCHPL/SCP/IE/2023/1449	TES/IE/SC/PIL/2023/877		
24	8	98+950 RHS Ponnery	5.0 km	RHS	EMB	30000	29679	321	PSCHPL/SCP/IE/2019/302	TES/IE/SCP/PIL/2019/247		Approved
25	8	98+950 RHS Ponnery EX-01	5.0 km	RHS	EMB&SUBGRADE	30000	5714	24286	PSCHPL/SCP/IE/2019/488	TES/IE/SCP/PIL/2019/386		Approved
26	9	106+320 RHS (Uthayanatham)	3.0 km	RHS	EMB	25500	39544	956	PSCHPL/SCP/IE/2019/302	TES/IE/SCP/PIL/2019/247		Approved
27	9	106+320 RHS (Uthayanatham EX-01)	3.0 km	RHS		15000			PSCHPL/SCP/IE/2019/472	TES/IE/SCP/PIL/2019/365		Approved
28	10	96+600 LHS (Pandianeery)	3.0 km	LHS	EMB	34500	63874	626	PSCHPL/SCP/IE/2019/302	TES/IE/SCP/PIL/2019/247		Approved
29	10	96+600 LHS (Pandianeery) EX-01	3.0 km	LHS		30000			PSCHPL/SCP/IE/2019/345	TES/IE/SCP/PIL/2018/268		Approved
30	10	96+600 LHS (Pandianeery) EX-02	3.0 km	LHS	EMB& RE WALL	18000		18000	PSCHPL/SCP/IE/2021/950	TES/IE/SC/PIL/2021/630		Approved
31	11	88+550 (Kaduvetti)	1.0 Km	LHS	EMB	25500	25816	-316	PSCHPL/SCP/IE/2019/335			Approved
32	11	88+550 (Kaduvetti) EX - 01	1.0 Km	LHS	EMB&SUBGRADE	30000	28498	1502	PSCHPL/SCP/IE/2019/352	TES/IE/SCP/PIL/2019/280		Approved
33	12	90+500 Puthueary	7.0 Km	RHS	EMB&SUBGRADE	30000	23157.4	6842.6	PSCHPL/SCP/IE/2019/390	TES/IE/SCP/PIL/2019/307		Approved
34	12	90+500 Puthueary EX-01	7.0 Km	RHS	RE WALL	30000	17933	12067	PSCHPL/SCP/IE/2019/510			
35	12	90+500 Puthueary EX-02	7.0 Km	RHS	EMB&SUBGRADE	30000	29782	218	PSCHPL/SCP/IE/2020/750			
36	13	87+900 Andi Madam	12.0 Km	RHS	Using For Filter Media							
37	14	87+900 Vilanthai	8.0 km	RHS								
38	15	87+600 Velaneary	4.0 km	RHS	EMB	18000	18193	-193	PSCHPL/SCP/IE/2019/387	TES/IE/SCP/PIL/2019/302		Approved
39	16	82+900 Aandi Palayam	2.0 Km	RHS	EMB	18000	4576	13424	PSCHPL/SCP/IE/2019/381	TES/IE/SCP/PIL/2019/299		Approved
40	16	82+900 Aandi Palayam EX-01	2.0 Km	RHS	RE WALL	36000	35953	47	PSCHPL/SCP/IE/2019/501	TES/IE/SC/PIL/2019/390		Approved
41	16	82+900 Aandi Palayam EX-02	2.0 Km	RHS	SUBGRADE& RE WALL	30000	30000	0	PSCHPL/SCP/IE/2020/758	TES/IE/SC/PIL/2020/528		Approved

42	16	82+900 Aandi Palayam EX-03	2.0 Km	RHS	SUBGRADE&RE WALL	30000	30000	0	PSCHPL/SCP/IE/2021/937	TES/IE/SC/PIL/2021/626		Approved
43	16	82+900 Aandi Palayam EX-04	2.0 Km	RHS	SUBGRADE&RE WALL	45000	44999.2	0.8	PSCHPL/SCP/IE/2021/977	TES/IE/SC/PIL/2021/637		Approved
44	16	82+900 Aandi Palayam EX-05	2.0 Km	RHS	SUBGRADE&RE WALL	30000	29923.2	76.8	PSCHPL/SCP/IE/2022/1126	TES/IE/SC/PIL/2022/740		Approved
45	16	82+900 Aandi Palayam EX-06	2.0 Km	RHS	SUBGRADE&RE WALL	30000	29568.8	431.2	PSCHPL/SCP/IE/2022/1139	TES/IE/SC/PIL/2022/749		Approved
46	16	82+900 Aandi Palayam EX-07	2.0 Km	RHS	SUBGRADE&RE WALL	30000	23580	6420	PSCHPL/SCP/IE/2022/1217	TES/IE/SC/PIL/2022/797		Approved
47	16	82+900 Aandi Palayam EX-08	2.0 Km	RHS	SUBGRADE&RE WALL	30000		30000	PSCHPL/SCP/IE/2023/1418	TES/IE/SC/PIL/2023/866		Approved
48	17	94+400 kundaveli East	1.0 Km	LHS	EMB	30000	7428	22572	PSCHPL/SCP/IE/2019/408	TES/IE/SC/PIL/2019/320		Approved
49	18	83+000 Vanamadevi	1.0 Km	LHS	EMB	15000	5338	9662	PSCHPL/SCP/IE/2019/397	TES/IE/SC/PIL/2019/314		Approved
50	19	101+900 Thaluthalai Medu	1.0 Km	RHS	EMB	30000	22129	7871	PSCHPL/SCP/IE/2019/422	TES/IE/SC/PIL/2019/355		Approved
51	20	110+100 Athipakkam	6.0 km	RHS	EMB	15000	2580	12420	PSCHPL/SCP/IE/2019/452	TES/IE/SC/PIL/2019/354		Approved
52	21	103+200 Vembankudi	0.5 Km	LHS	SUBGRADE&RE WALL	30000	30000	0	PSCHPL/SCP/IE/2019/463	TES/IE/SC/PIL/2019/362		Approved
53	21	103+200 Vembankudi EX-01	0.5 Km	LHS	SUBGRADE&RE WALL	22500	20087	2413	PSCHPL/SCP/IE/2020/717	TES/IE/SC/PIL/2020/504		Approved
54	21	103+200 Vembankudi EX-02	0.5 Km	LHS	SUBGRADE&RE WALL	30000	27416	2584	PSCHPL/SCP/IE/2020/775	TES/IE/SC/PIL/2020/538		Approved
55	22	97+300 Muthuservamadam	2.0 Km	RHS	EMB	30000	20786	9214	PSCHPL/SCP/IE/2019/447	TES/IE/SC/PIL/2019/349		Approved
56	23	80+500 Kandiyankuppam	15.00	RHS	EMB&SUBGRADE	30000	59699	301	PSCHPL/SCP/IE/2019/561	TES/IE/SC/PIL/2019/418		Approved
57	23	80+500 Kandiyankuppam EX - 01	15.00	RHS	EMB&SUBGRADE	30000			PSCHPL/SCP/IE/2020/626	TES/IE/SC/PIL/2020/452		Approved
58	23	80+500 Kandiyankuppam EX - 02	15.00	RHS	EMB&SUBGRADE	30000	29538	462	PSCHPL/SCP/IE/2021/812	TES/IE/SC/PIL/2021/555		Approved
59	23	80+500 Kandiyankuppam EX - 03	15.00	RHS	EMB&SUBGRADE	30000	28380	1620	PSCHPL/SCP/IE/2021/845	TES/IE/SC/PIL/2021/576		Approved
60	24	106+900 Karaikuruchi	20.00	RHS	EMB	15000	15000	0	PSCHPL/SCP/IE/2020/636	TES/IE/SC/PIL/2020/453		Approved
61	24	106+900 Karaikuruchi EX - 01	20.00	RHS	SUBGRADE	30000	29711.5	288.5	PSCHPL/SCP/IE/2020/691	TES/IE/SC/PIL/2020/491		Approved
62	24	106+900 Karaikuruchi EX - 02	20.00	RHS	SUBGRADE	30000	29981.6	18.4	PSCHPL/SCP/IE/2021/961	TES/IE/SC/PIL/2021/632		Approved
63	24	106+900 Karaikuruchi EX - 03	20.00	RHS	SUBGRADE	30000	12384.4	17615.6	PSCHPL/SCP/IE/2021/1018	TES/IE/SC/PIL/2021/654		Approved

64	25	90+500 RHS (IDAIPALLAM)	6.00	LHS	EMB	15000	8255	6745	PSCHPL/SCP/IE/2020/637	TES/IE/SC/PIL/2020/454	Approved
65	25	90+500 RHS (IDAIPALLAM) EX-01	6.00	RHS	EMB&SUBGRADE	30000	20228	9772	PSCHPL/SCP/IE/2020/640	TES/IE/SC/PIL/2020/469	Approved
66	26	98+900 LHS (kommedu)	19.00	RHS	RE WALL	30000	28212	1788	PSCHPL/SCP/IE/2020/661	TES/IE/SC/PIL/2020/472	Approved
67	27	91+400RHS (pappakudi)	0.80	RHS	EMB	15000	14957	43	PSCHPL/SCP/IE/2020/657	TES/IE/SC/PIL/2020/471	Approved
68	28	92+600 RHS Chokalingapuram	0.70	RHS	EMB&SUBGRADE	30000	29982	18	PSCHPL/SCP/IE/2020/676	TES/IE/SC/PIL/2020/471	Approved
69	28	92+600 RHS Chokalingapuram EX-01	0.70	RHS	SUBGRADE	30000	26657	3343	PSCHPL/SCP/IE/2020/838	TES/IE/SC/PIL/2020/568	Approved
70	28	92+600 RHS Chokalingapuram EX-02	0.70	RHS	SUBGRADE	30000		30000	PSCHPL/SCP/IE/2022/1165	TES/IE/SC/PIL/2022/779	Approved
71	29	90+580 RHS Irudhayapuram	10.00	RHS	EMB	15000	13500	1500	PSCHPL/SCP/IE/2020/711	TES/IE/SC/PIL/2020/501	Approved
72	30	80+500 RHS Keelpathi	6.00	RHS	EMB & SUBGRADE	15000	14949	51	PSCHPL/SCP/IE/2020/711	TES/IE/SC/PIL/2020/501	Approved
73	30	80+500 RHS Keelpathi EX - 1	6.00	RHS	EMB & SUBGRADE	30000	29936	64	PSCHPL/SCP/IE/2021/926	TES/IE/SC/PIL/2021/618	Approved
74	30	80+500 RHS Keelpathi EX - 2	6.00	RHS	EMB & SUBGRADE	30000	27834	2166	PSCHPL/SCP/IE/2021/927	TES/IE/SC/PIL/2021/619	Approved
75	31	87+600 RHS Thirukalappur	10.00	RHS	SUBGRADE	30000	26955	3045	PSCHPL/SCP/IE/2020/717	TES/IE/SC/PIL/2020/504	Approved
76	32	106+300 RHS Keelnatham	35.00	RHS	SUBGRADE& RE WALL	30000	2947	27053	PSCHPL/SCP/IE/2020/725	TES/IE/SC/PIL/2020/505	Approved
77	33	87+600 RHS Thathur	10.00	RHS	EMB& RE WALL	30000	21273	8727	PSCHPL/SCP/IE/2020/736	TES/IE/SC/PIL/2020/511	Approved
78	35	115+250 RHS KADAMPANKUDI	6.00	RHS	EMB& RE WALL	30000	8811.2	21188.8	PSCHPL/SCP/IE/2020/812		
79	36	Thirukalapur kuppam	7.00	RHS	SUB & RE WALL	30000	29989	11	PSCHPL/SCP/IE/2020/838	TES/IE/SC/PIL/2020/569	Approved
80	36	Thirukalapur kuppam Ex - 1	7.00	RHS	SUB & RE WALL	30000	27334	2666	PSCHPL/SCP/IE/2021/887	TES/IE/SC/PIL/2021/598	Approved
81	36	Thirukalapur kuppam Ex - 2	7.00	RHS	SUB & RE WALL	30000	27563	2437	PSCHPL/SCP/IE/2021/936	TES/IE/SC/PIL/2021/625	Approved
82	37	Manalmedu(109+350)	10.00	RHS	EMB	18000	2249.5	15750.5	PSCHPL/SCP/IE/2021/844	TES/IE/SC/PIL/2021/574	Approved
83	38	Melur (98+900)	18.00	RHS	SUB & RE WALL	30000	23993.6	6006.4	PSCHPL/SCP/IE/2021/847	TES/IE/SC/PIL/2021/578	Approved
84	38	Melur (98+900) EX - 1	18.00	RHS	SUB & RE WALL	30000	5685	24315	PSCHPL/SCP/IE/2021/886	TES/IE/SC/PIL/2021/599	Approved
85	39	Thirukalapur South (87+600)	10.00	RHS	EMB	18000	2415	15585	PSCHPL/SCP/IE/2021/853	TES/IE/SC/PIL/2021/584	Approved

86	40	Kaduvetti (88+750)	0.5KM	RHS	EMB & RE Wall Median filling	30000	29715	285	PSCHPL/SCP/IE/2021/954	TES/IE/SC/PIL/2021/631	Approved
87	41	Simustnam	17KM	RHS	SUB GRADE & RE WALL	30000	29959	41	PSCHPL/SCP/IE/2022/1062	TES/IE/SC/PIL/2022/669	Approved
88	41	Simustnam (ex-01)	17KM	RHS	SUB GRADE & RE WALL	30000	29294	706	PSCHPL/SCP/IE/2022/1086	TES/IE/SC/PIL/2022/686	Approved
89	41	Simustnam (ex-02)	17KM	RHS	SUB GRADE & RE WALL	30000	29739	261	PSCHPL/SCP/IE/2022/1102	TES/IE/SC/PIL/2022/717	Approved
90	41	Simustnam (ex-03)	17KM	RHS	SUB GRADE & RE WALL	30000	15250	14750	PSCHPL/SCP/IE/2022/1118	TES/IE/SC/PIL/2022/784	Approved
91	41	Simustnam (ex-04)	17KM	RHS	SUB GRADE & RE WALL	30000		30000	PSCHPL/SCP/IE/2022/1201	TES/IE/SC/PIL/2022/803	Approved
92	42	Silal	12KM	RHS	EMB	18000	17790	210	PSCHPL/SCP/IE/2022/1139	TES/IE/SC/PIL/2022/746	Approved
93	43	Kodangudi	44KM	RHS	EMB,SUB	30000		30000	PSCHPL/SCP/IE/2022/1170	TES/IE/SC/PIL/2022/783	Approved
94	44	Stahampadi	41KM	RHS	RE WALL	30000	8893	21107	PSCHPL/SCP/IE/2023/1300	TES/IE/SC/PIL/2023/828	Approved
95	45	Suthamalli	43KM	RHS	EMB	30000	23005	6995	PSCHPL/SCP/IE/2023/1376	TES/IE/SC/PIL/2023/850	Approved
TOTAL QTY EMB M ³						883500					
TOTAL QTY SUBGRADE M ³						60000					
TOTAL QTY EMB&SUBGRADE M ³						435000					
TOTAL QTY RE WALL M ³						66000					
TOTAL QTY SUBGARDE&RE WALL M ³						262500					
TOTAL EMB & RE WALL M ³						60000					
TOTAL QTY M ³						1767000					
FLYASH CONSUMPTION (UPTO 30/04/2023)											
1	1	FLYASH Ex-01	30 Km	LHS		25500			PSCHPL/SCP/IE/2018/122	TES/IE/SC/PIL/2018/101	Approved
2	2	FLYASH EX-02	30 Km	LHS		25500					Approved
3	3	FLYASH EX-03	30 Km	LHS		30000			PSCHPL/SCP/IE/2019/303	TES/IE/SC/PIL/2019/255	Approved
4	4	FLYASH EX-04	30 Km	LHS		30000			PSCHPL/SCP/IE/2019/448	TES/IE/SC/PIL/2019/350	Approved
5	5	FLYASH EX-05	30 Km	LHS		45000			PSCHPL/SCP/IE/2019/489	TES/IE/SC/PIL/2019/385	Approved
6	6	FLYASH EX-06	30 Km	LHS		30000			PSCHPL/SCP/IE/2019/518	TES/IE/SC/PIL/2019/400	Approved
7	7	FLYASH EX-07	30 Km	LHS		30000			PSCHPL/SCP/IE/2019/570	TES/IE/SC/PIL/2019/430	Approved
8	8	FLYASH EX-08	30 Km	LHS		30000			PSCHPL/SCP/IE/2019/571	TES/IE/SC/PIL/2019/431	Approved
9	9	FLYASH EX-09	30 Km	LHS		30000			PSCHPL/SCP/IE/2020/728	TES/IE/SC/PIL/2020/512	Approved
10	10	FLYASH EX-10	30 Km	LHS		30000			PSCHPL/SCP/IE/2020/761	TES/IE/SC/PIL/2020/527	Approved

11	11	FLYASH EX-11	30 Km	LHS	RE WALL	30000	663495	32505	PSCCHPL/SCP/IE/2021/814	TES/IE/SC/PIL/2021/554		Approved
12	12	FLYASH EX-12	31 Km	LHS		30000			PSCCHPL/SCP/IE/2021/828	TES/IE/SC/PIL/2021/558		Approved
13	13	FLYASH EX-13	30 Km	LHS		30000			PSCCHPL/SCP/IE/2021/846	TES/IE/SC/PIL/2021/577		Approved
14	14	FLYASH EX-14	31 Km	LHS		30000						
15	15	FLYASH EX-15	31 Km	LHS		30000			PSCCHPL/SCP/IE/2021/919	TES/IE/SC/PIL/2021/613		Approved
16	16	FLYASH EX-16	32 Km	LHS		30000			PSCCHPL/SCP/IE/2021/917	TES/IE/SC/PIL/2021/612		Approved
17	17	FLYASH EX-17	32 Km	LHS		30000			PSCCHPL/SCP/IE/2021/949	TES/IE/SC/PIL/2021/629		Approved
18	18	FLYASH EX-18	32 Km	LHS		45000			PSCCHPL/SCP/IE/2021/960	TES/IE/SC/PIL/2021/633		Approved
19	19	FLYASH EX-19	32 Km	LHS		60000			PSCCHPL/SCP/IE/2021/964	TES/IE/SC/PIL/2021/634		Approved
20	20	FLYASH EX-20	32 Km	LHS		45000			PSCCHPL/SCP/IE/2022/1092	TES/IE/SC/PIL/2022/690		Approved
21	21	FLYASH EX-21	32 Km	LHS		30000			PSCCHPL/SCP/IE/2023/1371	TES/IE/SC/PIL/2023/846		Approved

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

SOURCE APPROVAL SUMMARY

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

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

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

7. Weather Report -Meensurutti

Date	Temperature (°C)		Rainfall in mm	Humidity in %		Remarks
	Max	Min		Max	Min	
1-Apr-2023	33.4	28.1	0.00	74	48	Sunny
2-Apr-2023	33.8	30.4	0.00	73	49	Sunny
3-Apr-2023	34.0	31.2	0.00	72	50	Sunny
4-Apr-2023	34.2	30.1	0.00	70	48	Sunny
5-Apr-2023	34.8	30.6	0.00	77	46	Sunny
6-Apr-2023	35.7	29.9	0.00	77	45	Sunny
7-Apr-2023	35.1	28.7	0.00	79	44	Sunny
8-Apr-2023	35.0	29.4	0.00	76	47	Sunny
9-Apr-2023	34.9	28.5	0.00	74	46	Sunny
10-Apr-2023	35.1	30.2	0.00	74	47	Sunny
11-Apr-2023	35.2	28.4	0.00	81	46	Sunny
12-Apr-2023	35.7	27.7	0.00	80	43	Sunny
13-Apr-2023	35.8	27.0	0.00	81	40	Sunny
14-Apr-2023	37.1	28.8	0.00	80	40	Sunny
15-Apr-2023	36.2	28.2	0.00	73	41	Sunny
16-Apr-2023	35.9	28.9	0.00	74	40	Sunny
17-Apr-2023	37.2	28.4	0.00	72	38	Sunny
18-Apr-2023	38.1	29.8	0.00	77	39	Sunny
19-Apr-2023	38.4	30.2	0.00	76	40	Sunny
20-Apr-2023	39.3	29.7	0.00	72	36	Sunny
21-Apr-2023	39.7	31.4	0.00	73	38	Sunny
22-Apr-2023	39.9	30.1	0.00	74	39	Sunny
23-Apr-2023	39.6	31.0	0.00	73	41	Sunny
24-Apr-2023	38.6	29.4	0.00	72	40	Sunny
25-Apr-2023	33.7	29.3	5.00	77	48	Rainy
26-Apr-2023	35.1	30.1	0.00	82	47	Sunny
27-Apr-2023	37.2	30.4	0.00	80	49	Sunny
28-Apr-2023	37.2	30.2	0.00	76	43	Sunny
29-Apr-2023	37.4	30.7	0.00	75	42	Sunny
30-Apr-2023	34.6	29.1	3.00	77	46	Rainy

Weather Report Annakarai

Date	Temperature (°C)		Rainfall in mm	Humidity in %		Remarks
	Max	Min		Max	Min	
1-Apr-2023	33.6	28.6	0.00	76	49	Sunny
2-Apr-2023	33.9	29.8	0.00	75	48	Sunny
3-Apr-2023	34.2	31.0	0.00	73	50	Sunny
4-Apr-2023	34.6	30.5	0.00	70	49	Sunny
5-Apr-2023	34.8	30.7	0.00	75	46	Sunny
6-Apr-2023	35.9	29.9	0.00	77	47	Sunny
7-Apr-2023	35.3	29.7	0.00	79	45	Sunny
8-Apr-2023	35.2	30.1	0.00	78	46	Sunny
9-Apr-2023	34.9	28.5	0.00	74	47	Sunny
10-Apr-2023	35.1	30.2	0.00	75	48	Sunny
11-Apr-2023	35.4	29.6	0.00	80	46	Sunny
12-Apr-2023	35.9	28.7	0.00	81	44	Sunny
13-Apr-2023	35.8	27.0	0.00	82	43	Sunny
14-Apr-2023	37.1	28.8	0.00	80	41	Sunny
15-Apr-2023	36.5	28.4	0.00	74	42	Sunny
16-Apr-2023	36.0	29.0	0.00	75	40	Sunny
17-Apr-2023	37.3	28.9	0.00	73	38	Sunny
18-Apr-2023	38.2	30.0	0.00	76	39	Sunny
19-Apr-2023	39.1	30.3	0.00	76	40	Sunny
20-Apr-2023	39.4	30.1	0.00	72	37	Sunny
21-Apr-2023	39.5	30.8	0.00	74	39	Sunny
22-Apr-2023	39.7	30.2	0.00	73	41	Sunny
23-Apr-2023	39.6	31.0	0.00	74	39	Sunny
24-Apr-2023	39.0	30.4	0.00	72	37	Sunny
25-Apr-2023	33.2	29.4	7.00	76	42	Rainy
26-Apr-2023	34.6	30.1	0.00	80	44	Sunny
27-Apr-2023	36.4	30.2	0.00	81	43	Sunny
28-Apr-2023	37.0	30.6	0.00	79	42	Sunny
29-Apr-2023	37.3	30.5	0.00	75	40	Sunny
30-Apr-2023	34.4	29.2	2.00	77	45	Rainy

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

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



9. Support required from NHAI

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

1. Additional land acquisition for the construction of bus bays/bus shelter, turning radius of major junctions along the project highways.
2. Insufficient Right of Way with respect to the land handed over as per Clause 10.3.1 of Concession Agreement at the time of Signing of Joint Memorandum.
3. NOC from PWD/WRO, Govt. of Tamil Nadu for the construction of project highways in the existing pond locations as mentioned below in the tabular form:-

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

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

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

5. Estimate for shifting of water supply utilities in Missing locations-Request Authority for earlier Approval.
6. With reference to our several correspondence time to time vide which we intimated the matter of enforced nationwide lockdown as well as its impact on the Project Highway, the World Health Organization (WHO) on 11th March' 2020 had characterized the Novel Coronavirus Disease (COVID-19) outbreak as a global Pandemic. In view of the WHO's announcement and over all prevailing condition of the nation, the Union Government of India (GOI) had

invoked section 2 of Epidemic Disease Act 1897 on 12.03.2020 to prevent the spread of novel coronavirus in India. Accordingly, the State Government of Tamilnadu has enforced complete lockdown of the entire state from 24.03.2020 to 31.03.2020 to avoid the spread of COVID-19. Subsequently, The Ministry of Home Affairs (MHA) vide Order No. 40-3/2020-DM-I(A), dated 24.03.2020 directed to enforce complete nationwide lockdown for the period of 21 days from 25.03.2020 to 14.04.2020.

Further, based on the outcome of COVID-19 spread containment during 1st nationwide lockdown till 14th April' 2020 & condition of country as a whole, Ministry of Home Affairs (MHA), Govt. of India in exercise of powers conferred under Section 10(2)(I) 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.

7. 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.

8. 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.

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

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

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

10. 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.

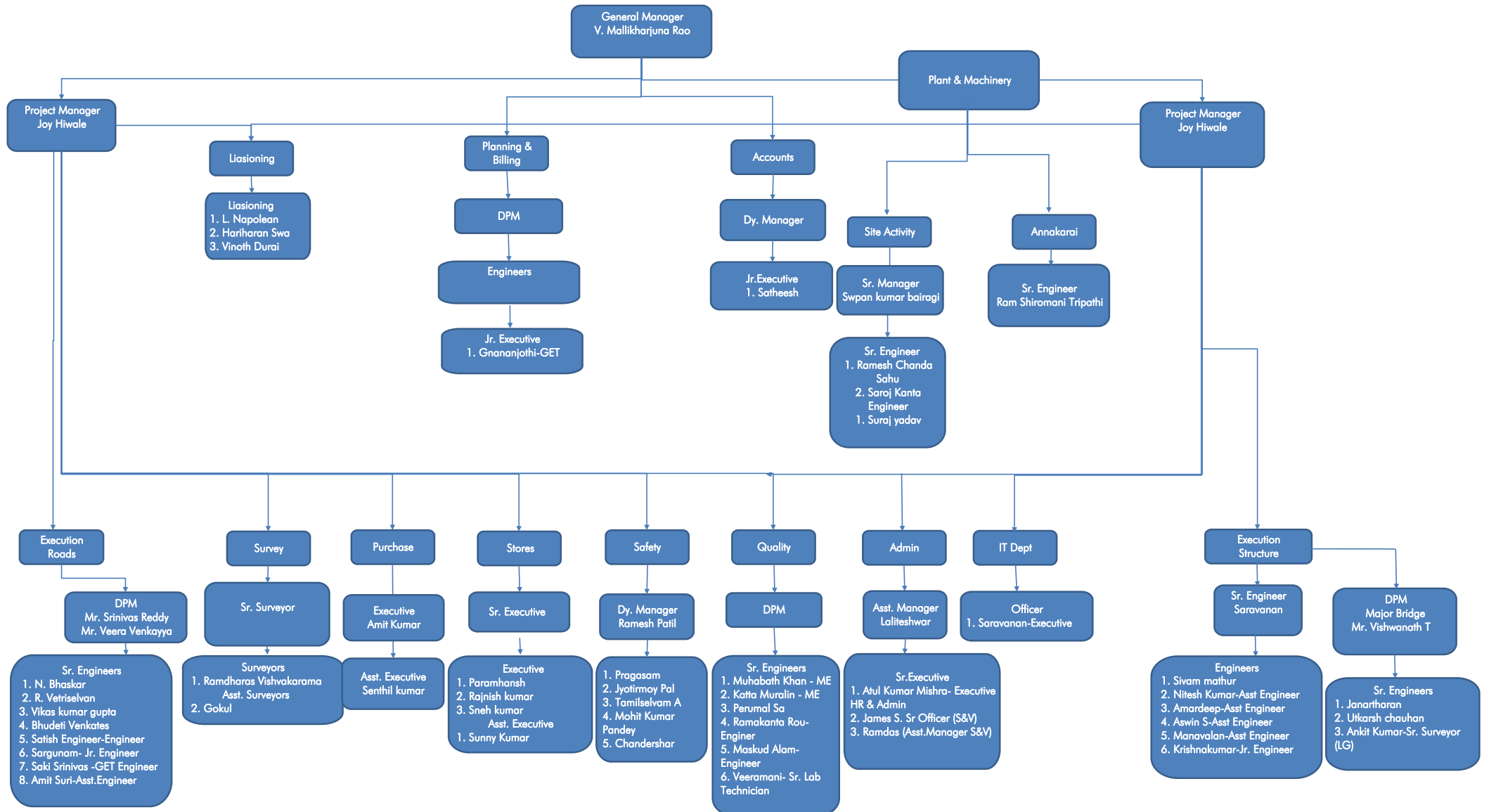
Table 10.1. Details of Important Events

Sl. No	Date of Events	Description of Events	Remarks
1			
2			

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

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

ORGANIZATION CHART - EPC TEAM



ORGANIZATION CHART - SPV TEAM

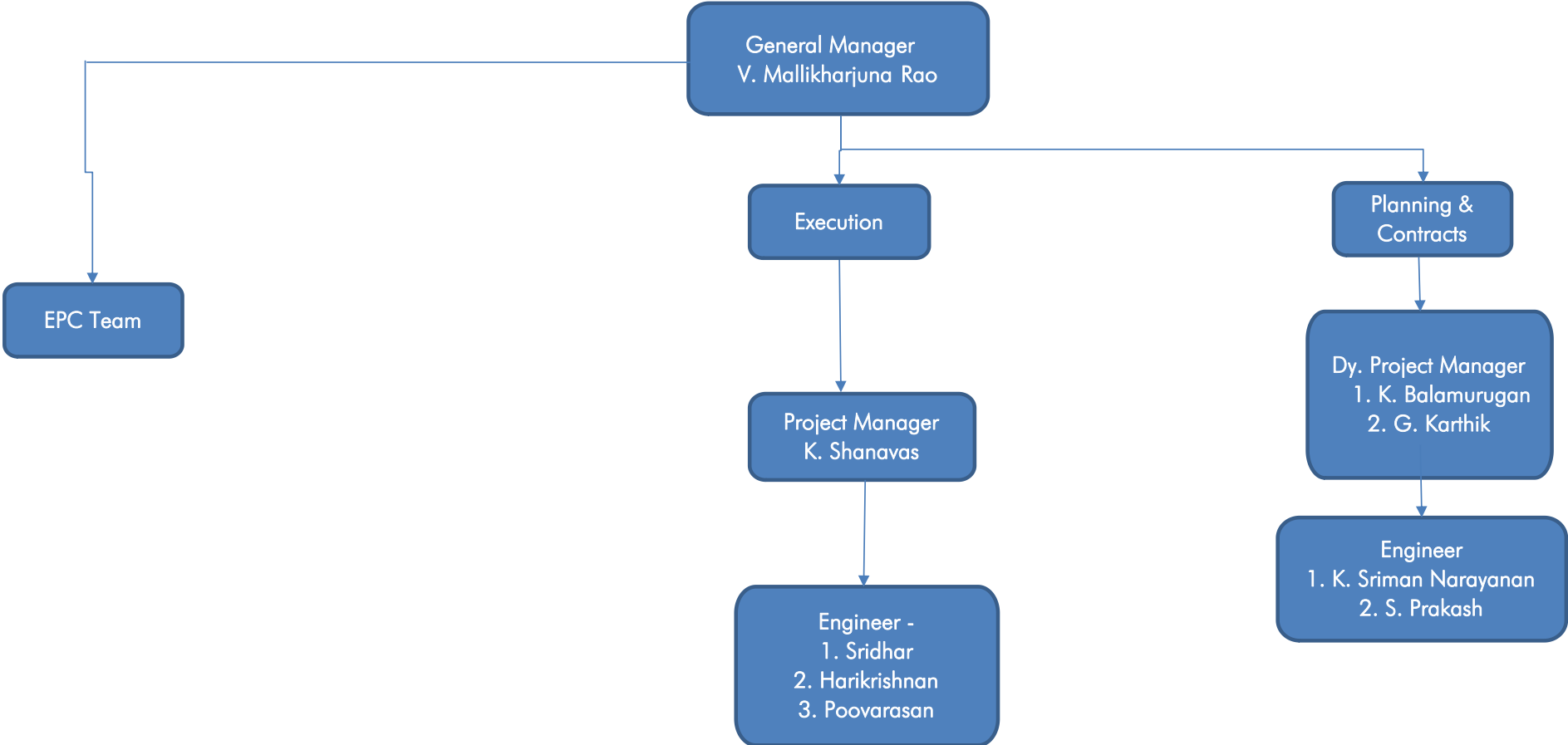


Table 12.1 Mobilization of Manpower

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

13. List of Plants, Machinery and Equipment's

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

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

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

14. Change of Scope Proposals

Table 14.1 - Status of Change of Scope Proposals

Sl. No	Proposal Details	Date of Proposal	Current Status	COS Amount	Actual Date of Approval
1	Replacement of Pipe Culverts with Box Culverts	23.03.2018	Approved	3.21 Cr	21.02.2020
2	Strengthening/upgrade the incident Management Service	10.05.2019	Required COS notice for Strengthening/upgrade the incident Management Service.	NA	NA
3	Comprehensive –COS 02	20.08.2018	Approved	(-) 4.69 Cr.	23.06.2021
4	Additional work required to be done as per demand of local public	17.03.2023	Tentative cost estimate recommended by IE for obtaining the receipt of Change of Scope notice from the competent authority.	18.43 Cr. (Tentative cost as recommended by IE)	

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

Table 15.1. - Concessionaire to NHAI

Table 15.2. - NHAI to Concessionaire

Table 15.3. - Concessionaire to Independent Engineer

Table 15.4. - Independent Engineer to Concessionaire

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

TABLE 14.1 - CORRESPONDANCE - CONCESSIONAIRE TO NHAI

Sr. No.	Date	Letter No	Subject	Remarks
1	01.04.2023	PSCHPL-HO-SCP-NHAI-011-2023	Deposition of 50% Sole Conciliator Fee in NHAI Account	
2	07.04.2023	PSCHPL/SCP/NHAI/2023/1435	Submission of RA Bill-02 for Recording of Drone video-reg	
3	08.04.2023	PSCHPL/SCP/NHAI/2023/1438	Submission of GST payment auditor certificate return & request - RA Bill-13-Water utility	
4	11.04.2023	PSCHPL-HO-SCP-NHAI-012-2023	Deposition of 50% Sole Conciliator Fee in NHAI Account	
5	12.04.2023	PSCHPL/SCP/NHAI/2023/1446	Recording of Drone video for the month of March 2023-reg	
6	17.04.2023	PSCHPL/SCP/NHAI/2023/1455	RA Bill No. 03 Shifting of infringement of veeranam pipeline	
7	17.04.2023	PSCHPL-HO-SCP-PIU-013-2023	Reimbursement of 50% Cost & Expenditure of IEs payment for the month of Jan 23 & Feb23	
8	19.04.2023	PSCHPL/SCP/NHAI/2023/1458	Submission of RA Bill 03 for recording of drone video	
9	26.04.2023	PSCHPL/SCP/NHAI/2023/1464	Submission of RA Bill-01 for Shifting of construction of weir at Km. 103+990	

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

TABLE 14.2 - CORRESPONDANCE - NHAI TO CONCESSIONAIRE

Sr. No.	Date	Letter No	Subject	Remarks
1	05.04.2023	NHAI/PIU/Thanj/11019/52/2017/900	Independent consultancy services for the month of Feb-23-50% claim	
2	05.04.2023	NHAI/PIU/Thanj/11019/52/2017/901	Independent consultancy services for the month of Jan-23-50% claim	
3	10.04.2023	NHAI/PIU/Thanj/11025/11/2018/947	Escalation of 1st year biannual O&M payment as per Cl. 23.7 of CA-Payment intimation	
4	10.04.2023	NHAI/PIU/Thanj/11025/49/2022/957	Police protection for taking up the construction work of LVUP at Km. 77.420 in Nandeeswaramangalam village-requested-reg	
5	11.04.2023	NHAI/PIU/Thanj/11025/11/2018/971	Release of 20% advance payment with respect to SA-Payment intimation-reg	
6	11.04.2023	NHAI/PIU/Thanj/11025/11/2018/972	Releasing of Escalation payment for the Interim payments of PMS 04-Payment intimation	
7	11.04.2023	NHAI/PIU/Thanj/11021/31/2009/963	Request for permission to lay underground OFC-Proposal returned	
8	12.04.2023	NHAI/PIU/Thanj/11025/33/2020/989	Request of local villagers to provide an elevated section by using pillars-Req for Resolution of issues	
9	18.04.2023	NHAI/PIU/Thanj/11025/09/2018/1034	Submission of RA Bll No. 03 for shifting of infringement of veeranam pipeline	
10	18.04.2023	NHAI/PIU/Thanj/11025/09/2018/1037	Shifting of infringement of Veeranam pipeline pertaining to CMWSSB-reg	
11	24.04.2023	NHAI/PIU/Thanj/11025/33/2020/1089	Provide Bridges and service road on both sides of Periyakuppam village	
12	27.04.2023	NHAI/PIU/Thanj/11025/11/2019/1121	Extension of Bank Guarantee submitted for mobilisation advance 2nd installment-reg	
13	27.04.2023	NHAI/PIU/Thanj/11025/11/2019/1123	Submission of CAR insurance policies renewal copies-reg	
14	28.04.2023	NHAI/PIU/Thanj/11025/09/2018/1147	Submission of RA Bill No.1 for shifting of weir at Km.103+990	
15	28.04.2023	NHAI/PIU/Thanj/11025/09/2018/1148	Submission of RA Bill No.1 for shifting of weir at Km.103+990	

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

TABLE 14.3 - CORRESPONDANCE - CONCESSIONAIRE TO INDEPENDENT ENGINEER

Sr. No.	Date	Letter No	Subject	Remarks
1	06.04.2023	PSCHPL/SCP/IE/2023/1434	Submission of Monthly Progress Report for the month of March 2023-reg	
2	08.04.2023	PSCHPL/SCP/IE/2023/1437	Submission of Monthly status & Management (O&M) Report for the month of March 2023-reg	
3	08.04.2023	PSCHPL/SCP/IE/2023/1439	Submission of Design & Drawings for 2 Nos of MNB located at Ch. 72.860 & 73.040-reg	
4	08.04.2023	PSCHPL/SCP/IE/2023/1440	Submission of Revised Detail Drawings for RE wall of VUP located at Ch. 72+545-reg	
5	12.04.2023	PSCHPL/SCP/IE/2023/1447	Submission of Design & Drawing for Retaining wall for 4 Nos of MNBs	
6	13.04.2023	PSCHPL/SCP/IE/2023/1449	Soil test report for the proposed borrow area of the project BA No-07 Ex-08	
7	17.04.2023	PSCHPL/SCP/IE/2023/1454	Submission of IPC 06 of PMS 04	
8	26.04.2023	PSCHPL/SCP/IE/2023/1465	Compliance report-Review and comments of IE on concessionaire MPR for the month of March 2023	
9	28.04.2023	PSCHPL/SCP/IE/2023/1467	Submission of Design, Drawings and Revised P&P for PUP located at Km. 105+220-reg	
10	28.04.2023	PSCHPL/SCP/IE/2023/1468	Submission of Revised P&P for service road from Km. 85+650 to Km. 88+260	

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

TABLE 14.4 - CORRESPONDANCE - INDEPENDENT ENGINEER TO CONCESSIONAIRE / NHAI

Sr. No.	Date	Letter No	Subject	Remarks
1	05.04.2023	TES/IE/SC/PIL/2023/870	Submission of calibration test certificate for hydraulic jacks	
2	06.04.2023	TES/IE/SC/PIL/2023/871	Submission of detailed condition survey report of MJB 99+583	
3	06.04.2023	TES/IE/SCP/NHAI/2023/573	Request for permission to lay underground OFC-IE remarks	
4	06.04.2023	TES/IE/SCP/NHAI/2023/574	IE Monthly Progress Report for the month of March-2023	
5	11.04.2023	TES/IE/SCP/PIL/2023/872	Monthly site inspection-reg	
6	11.04.2023	TES/IE/SCP/PIL/2023/873	Site Review meeting-reg	
7	12.04.2023	TES/IE/SCP/NHAI/2023/576	Public demand for box culvert at Ch-72+250-IE comments-reg	
8	13.04.2023	TES/SCP/IE/PIL/2023/875	Review and Comments of IE on concessionaire Monthly Progress Report for the month of March 2023 - Reg	
9	18.04.2023	TES/SCP/IE/NHAI/2023/578	IE monthly O&M status report for the month of March 2023-reg	
10	20.04.2023	TES/SCP/IE/NHAI/2023/579	Submission of IPC 06 of payment milestone IV - Recommendation for payment - Reg	
11	20.04.2023	TES/SCP/IE/PIL/2023/877	Proposal of Borrow Area No-07 (Ex. No-08) -Reg	
12	21.04.2023	TES/SCP/IE/PIL/2023/878	Site Inspection Report-reg.	
13	26.04.2023	TES/IE/SCP/NHAI/2023/581	IE Inspection report for the month of March 2023-reg	
14	29.04.2023	TES/IE/SCP/NHAI/2023/583	Public demand at Veeramudayanatham Village – Peace Committee meeting and IE comments-reg.	
15	29.04.2023	TES/IE/SCP/NHAI/2023/584	Representation from villagers of Veeracholapuram- Request to provide Median opening at CH 101+545 on NH-45C-reg.	
16	29.04.2023	TES/IE/SCP/PIL/2023/880	Minutes Of Meeting dated 20.04.2023 - Reg	

16. Progress Photographs

Sl. No	Description	Location	Side	Remarks
1.	Slip road Embankment layer rolling work in progress	114+960	RSR	Existing Road
2.	Slip road Subgrade layer rolling work in progress	115+420	RSR	Existing Road



Sl. No	Description	Location	Side	Remarks
3.	CTSB Layer Laying Work in progress in Slip road	102+120	RSR	Existing Road



Sl. No	Description	Location	Side	Remarks
4.	WMM Layer Laying Work in progress in Service road	83+750	RSR	Existing Road
5.	WMM Layer Rolling Work in progress	106+340	LSR	Bypass



Sl. No	Description	Location	Side	Remarks
6.	DBM Layer Rolling Work in progress	103+980	LHS	Existing Road
7.	BC Layer Rolling Work in progress	91+343	LHS	Existing Road - Minor Junction



Sl. No	Description	Location	Side	Remarks
8.	Deck slab Concreting Work in progress	95+455	LHS	Flyover
9.	Pile cap Concreting Work in progress	73+317	RHS	Major Bridge



Sl. No	Description	Location	Side	Remarks
10.	Box Segment launching Work in Progress between Span P17 - P18	107+400	LHS	Major Bridge

