



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

PATEL SETHIYAHOPU - CHOLOPURAM HIGHWAY PRIVATE LIMITED

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.

INDEPENDENT ENGINEER
M/s. Theme Engineering Services Pvt. Ltd

MONTHLY PROGRESS REPORT
JANUARY 2019

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Executive Summary

The old National Highway (NH -36) 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 36 (NH-36). 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 45C. 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.

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

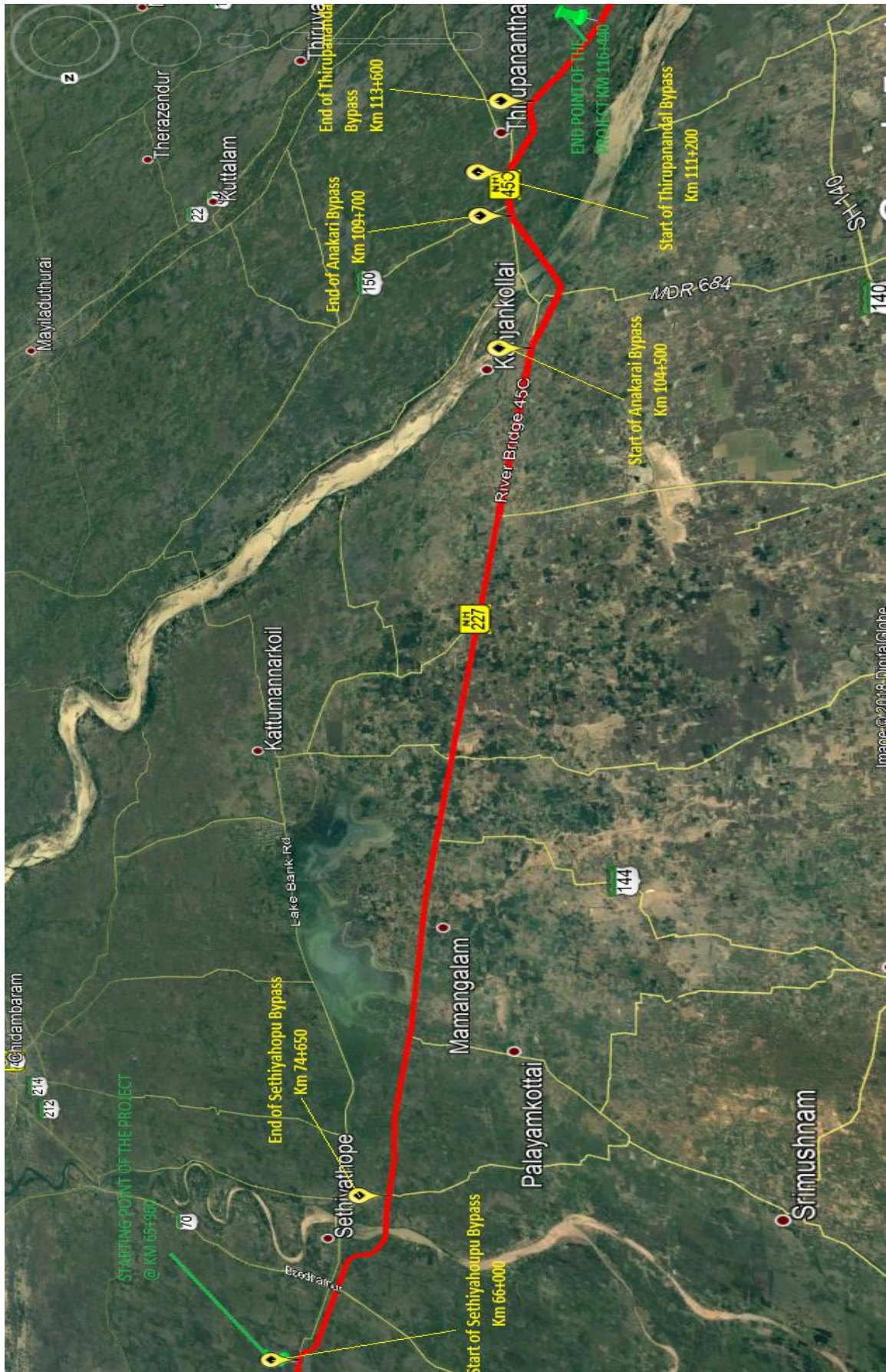
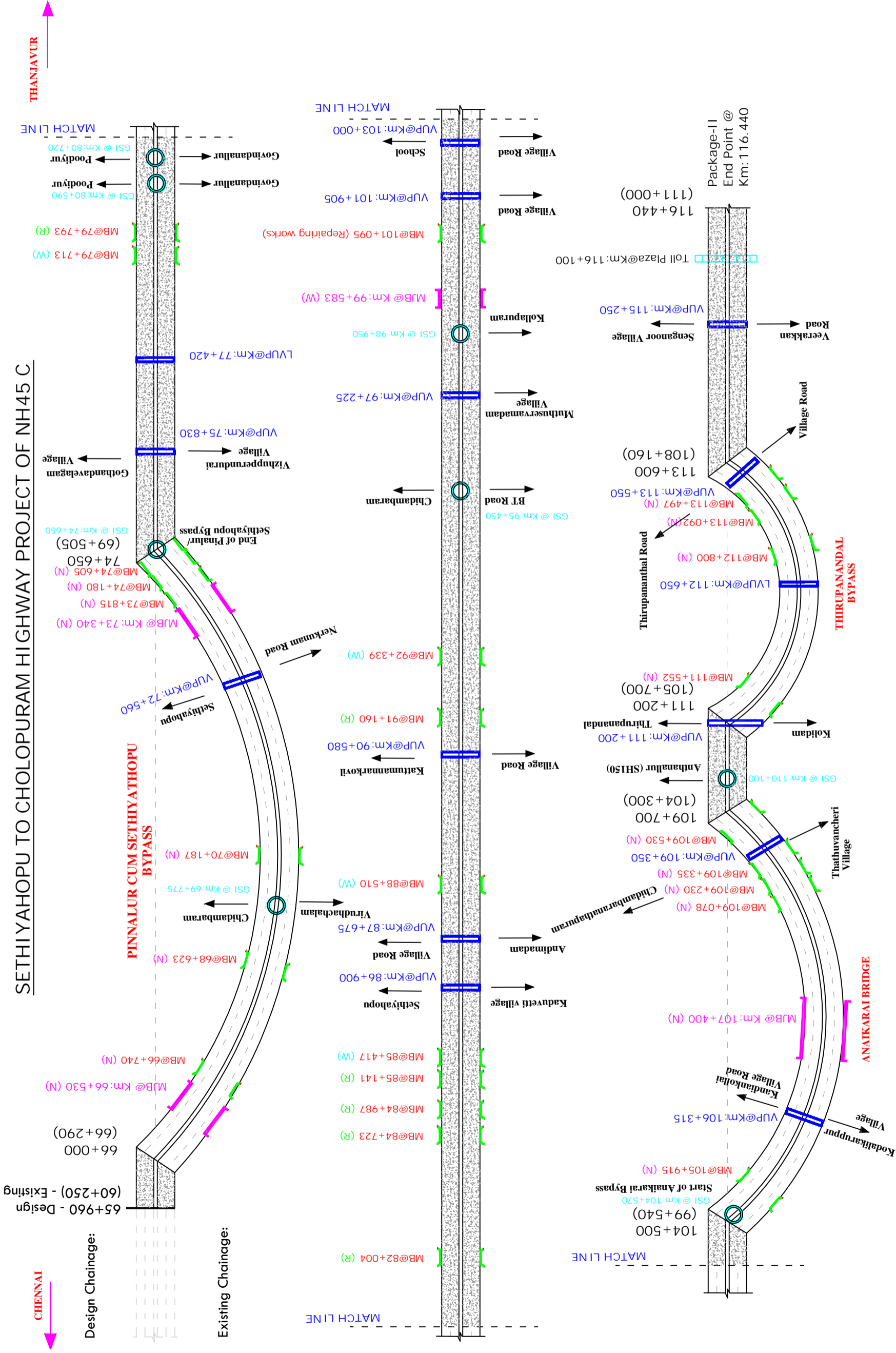


Figure 2: Project Alignment Map



CHENNAI

THANJAVUR

Design Chainage:

Existing Chainage:

MATCH LINE

MATCH LINE

MATCH LINE

Package-II End Point @ Km: 116.440

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

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

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

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

Anaikarai Bypass
Km: 104+500 to 109+700

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

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

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

Thirupanandal Bypass
Km: 111+200 to 113+600

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

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

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

LEGENT:

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

Salient Features of Project:

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

Drawing Title

Strip Plan - Sethiyahopu to Cholapuram Highway Project

Date:

31-08-2018

Project No.

PSCHP/NHA/TN/001

Table - 1.1 : Details of Project Alignments

Existing and Proposed Alignments							
Sl. no.	Existing Chainage (Km)		Design Chainage (Km)		LENGTH (Km)	TCS Type	Remarks
	From	To	From	To			
1	60.250	Bypass	65.960	69.460	3.500	Type-A-3 (Fig 2.4 of the manual)	Bypass
2	Bypass	Bypass	69.460	70.090	0.630	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
3	Bypass	Bypass	70.090	72.350	2.260	Type-A-3 (Fig 2.4 of the manual)	Bypass
4	Bypass	Bypass	72.350	72.775	0.425	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
5	Bypass	Bypass	72.775	74.335	1.560	Type-A-3 (Fig 2.4 of the manual)	Bypass
6	Bypass	69.820	74.335	74.960	0.625	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
7	69.820	70.375	74.960	75.520	0.560	Type-A-3 (Fig 2.4 of the manual)	Eccentric Widening
8	70.375	71.010	75.520	76.150	0.630	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
9	71.010	71.855	76.150	76.900	0.750	Type-B (Fig 2.6 of the manual) with both side service road	Eccentric Widening
10	71.855	72.170	76.900	77.220	0.320	Type-B (Fig 2.6 of the manual) with both side service road	Concentric Widening
11	72.170	72.570	77.220	77.620	0.400	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
12	72.570	72.800	77.620	77.850	0.230	Type-B (Fig 2.6 of the manual) with both side service road	Concentric Widening
13	72.800	73.230	77.850	78.300	0.450	Type-B (Fig 2.6 of the manual) with both side service road	Eccentric Widening
14	73.230	75.105	78.300	80.150	1.850	Type-A-3 (Fig 2.4 of the manual)	Eccentric Widening
15	75.105	76.080	80.150	81.120	0.970	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
16	76.080	76.460	81.120	81.500	0.380	TCS-1	Concentric Widening
17	76.460	77.000	81.500	82.240	0.740	Type-A-3 (Fig 2.4 of the manual)	Eccentric Widening
18	77.000	78.115	82.240	83.150	0.910	Type-B (Fig 2.6 of the manual) with both side service road	Eccentric Widening
19	78.115	79.110	83.150	84.150	1.000	Type-B (Fig 2.6 of the manual) with both side service road	Concentric Widening
20	79.110	79.510	84.150	84.550	0.400	Type-B (Fig 2.6 of the manual) with both side service road	Eccentric Widening
21	79.510	80.610	84.550	85.650	1.100	Type-A-3 (Fig 2.4 of the manual)	Eccentric Widening
22	80.610	81.555	85.650	86.580	0.930	Type-B (Fig 2.6 of the manual) with both side service road	Concentric Widening
23	81.555	82.170	86.580	87.210	0.630	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	

24	82.170	82.320	87.210	87.360	0.150	Type-B (Fig 2.6 of the manual) with both side service road	Concentric Widening
25	82.320	82.910	87.360	87.990	0.630	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
26	82.910	83.180	87.990	88.265	0.275	Type-B (Fig 2.6 of the manual) with both side service road	Concentric Widening
27	83.180	83.660	88.265	88.745	0.480	Type-A-3 (Fig 2.4 of the manual)	Eccentric Widening
28	83.660	85.220	88.745	90.265	1.520	Type-B (Fig 2.6 of the manual) with both side service road	Concentric Widening
29	85.220	85.850	90.265	90.895	0.630	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
30	85.850	86.555	90.895	91.600	0.705	Type-A-3 (Fig 2.4 of the manual)	Eccentric Widening
31	86.555	87.015	91.600	92.050	0.450	TCS-1	Concentric Widening
32	87.015	87.525	92.050	92.560	0.510	Type-A-3 (Fig 2.4 of the manual)	Eccentric Widening
33	87.525	90.000	92.560	95.035	2.475	Type-B (Fig 2.6 of the manual) with both side service road	Concentric Widening
34	90.000	90.830	95.035	95.865	0.830	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
35	90.830	91.350	95.865	96.400	0.535	Type-B (Fig 2.6 of the manual) with both side service road	Concentric Widening
36	91.350	91.970	96.400	96.910	0.510	TCS-1	Concentric Widening
37	91.970	92.460	96.910	97.535	0.625	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
38	92.460	93.550	97.535	98.535	1.000	TCS-1	Concentric Widening
39	93.550	94.370	98.535	99.335	0.800	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
39A	94.370	94.875	99.335	99.840	0.505	Type-A-3 (Fig 2.4 of the manual)	Eccentric Widening
40	94.875	95.350	99.840	100.300	0.460	Type-B (Fig 2.6 of the manual) with both side service road	
41	95.350	96.630	100.300	101.590	1.290	Type-A-3 (Fig 2.4 of the manual)	Eccentric Widening
42	96.630	97.260	101.590	102.225	0.635	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
43	97.260	97.720	102.225	102.685	0.460	Type-B (Fig 2.6 of the manual) with both side service road	Eccentric Widening
44	97.720	98.360	102.685	103.315	0.630	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
45	98.360	99.190	103.315	104.160	0.845	Type-B (Fig 2.6 of the manual) with both side service road	Eccentric Widening
46	99.190	Bypass	104.160	104.990	0.830	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
47	Bypass	Bypass	104.990	106.000	1.010	Type-A-3 (Fig 2.4 of the manual)	Bypass

48	Bypass	Bypass	106.000	106.625	0.625	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
49	Bypass	Bypass	106.625	109.035	2.410	Type-A-3 (Fig 2.4 of the manual)	Bypass
50	Bypass	104.260	109.035	109.660	0.625	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
51	104.260	105.015	109.660	110.515	0.855	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
52	105.015	105.390	110.515	110.890	0.375	Type-B (Fig 2.6 of the manual) with both side service road	Eccentric Widening
53	105.390	Bypass	110.890	111.515	0.625	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
54	Bypass	Bypass	111.515	112.430	0.915	Type-A-3 (Fig 2.4 of the manual)	Bypass
55	Bypass	Bypass	112.430	112.840	0.410	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
56	Bypass	Bypass	112.840	113.225	0.385	Type-A-3 (Fig 2.4 of the manual)	Bypass
57	Bypass	108.410	113.225	113.850	0.625	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
58	108.410	109.395	113.850	114.835	0.985	Type-A-3 (Fig 2.4 of the manual)	Eccentric Widening
59	109.395	110.220	114.835	115.660	0.825	Figure 7.8- Grade separator and its approaches with RE wall and both side 5.5 m wide Slip road	
60	110.220	111.000	115.660	116.440	0.780	Type-A-3 (Fig 2.4 of the manual)	Eccentric Widening

1.1. Project Overview

Name of Work	Four Laning of Sethiyahopu-Cholopuram from km. 65.960 to Km.116.440 of NH-45C under NHDP-IV on Hybrid Annuity Mode Basis
Name of Employer	National Highways Authority of India (NHAI) G-5 & 6, Sector-10, Dwarka, New Delhi -110075
Name of Concessionaire	Patel Sethiyahopu – Cholopuram Highway Pvt Ltd, Patel House, Beside Prakruti Resorts, Channi Road,Vadodara. Gujarat– 391740 Tel: +91-265 277 6678 Fax: +91-265 277 7878
Independent Engineer	M/s. Theme Engineering Services Pvt. Ltd, S.F B1&B2, gateway Apartments, koranattu Karuppur, Kumbakonam – 612501.
EPC Contractor	M/s. Patel Infrastructure Limited, Patel House, Beside Prakruti Resorts, Channi Road,Vadodara Gujarat– 391740, Tel: +91-265 277 6678 Fax: +91-265 277 7878
Design Consultant	CTL Global Services Pvt. Ltd.. 101, 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 Cost	Rs. 1461.00 Crores (as per concession agreement)
Date of Concession Agreement	November 9, 2017
Concession Period	17 Years (Construction Period 2 Years from Appointed date, Operation period 15 years from COD)
Appointed Date	16.08.2018
Construction Period	2 years from Appointed date
Completion Date	15.08.2020
Maintenance Period	15 years from COD

1.2. Salient Project Features

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

4 - Lane Divided Carriage Way	50.48 Km.
Service Road/ Slip Road	26.595 Km
Major Bridge	04 Nos.
Minor Bridge	25 Nos.
Grade Separate Intersection	08 Nos.
Vehicular Underpass	13 Nos.
Light Vehicular Underpass	2 Nos.
Box Culverts	53 Nos.
Slab Culverts	07 Nos.
Major Intersections	100 Nos.
Minor Intersections	07 Nos.
Bus Bays	09 Nos.
Toll Plaza	01 Nos.

1.3. Contractual Project Milestones

Following is a listing of the Key Project Milestones:

Mile Stone	Description	Target Date
Mile Stone-I	Concessionaire shall expended not less than 20 % of the Total capital cost and shall have commenced construction of the project and achieved 20% of physical progress on 214 th day from the Appointed Date.	18 th March 2019
Mile Stone-II	Concessionaire shall expended not less than 35% of the Total capital cost and shall have commenced construction of the project and achieved 35% of physical progress on 334 th day from the Appointed Date	16 th July 2019
Mile Stone-III	Concessionaire shall expended not less than 75 % of the Total capital cost and shall have commenced construction of the project and achieved 75% of physical progress on 584 th day from the Appointed Date	22 nd March 2020
Scheduled Completion	Concessionaire shall have completed Project on 730 th day from the Appointed Date	15 th August 2020

1.4. Payment milestone during Construction Period

Payment Mile Stone	Eligibility Criteria	Payment Amount (Rs.)
Mile Stone-I	On Achievement of 10% of Physical Progress	116.88 Crs.
Mile Stone-II	On Achievement of 30% of Physical Progress	116.88 Crs.
Mile Stone-III	On Achievement of 50% of Physical Progress	116.88 Crs.
Mile Stone-IV	On Achievement of 75% of Physical Progress	116.88 Crs.
Mile Stone-V	On Achievement of 90% of Physical Progress	116.88 Crs.

1.5. Permits & Approvals

Sr. No.	Details	Authority	Current Status	Remarks
1	Extraction of Boulders from Quarries	Dist. Mining Officer	Obtained	We 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	

Sr. No.	Details	Authority	Current Status	Remarks
7	Trees Cutting Permission	Forest department through NHAI	Obtained & work is in Progress	Tree felling permission obtained for all the three districts & Work in Progress.
8	Electric Poles Shifting	Tamil Nadu Electricity Board	In progress	Work in progress in all Three districts.
9	Water Pipes Shifting	Tamilnadu Water Supply and Drainage Board	In Progress	All the estimates are approved and Work in Progress.
10	Drawing Water from river/ reservoir		NA	

2. Right of Way Status

2.1. Land Acquisition

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

	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		

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

Besides this, the Authority has to acquire additional land at Toll plaza location, Bus bays, Turning radius at Major junctions.

Sl. No.	Description	Unit	Present Status	Remarks
A)	Total Length of the Project Highway	Km	50.48	
1	Use of Existing Road Portion	Km	34.23	
2	Proposed Bypass / Realignment portion	Km	16.25	
B)	Hindered Length			
1.	LA pending	Km	7.620	
2.	Payment Pending	Km	10.460	
3.	Existing Buildings	Km	4.860	
4.	Temple & Bus stand	Km	0.105	
5.	Electrical Lines	Km	4.115	
6.	Rural Water Supply lines	Km	20.665	
7.	NOC Irrigation Dept	Km	2.050	
8.	Paddy/Cotton fields	Km	5.450	
9.	Trees	Km	3.175	
10.	Net Hindered Length (both Side)	Km	45.03	
C)	Total Project Length (both Side)	Km	100.96	
D)	% Hindered Length	%	44.53%	

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

The status of compensation disbursed is as below: -

Table 2.1-3: Compensation disbursement for land					
SL No.	Name of the District	Total No. of Land cases	Amount paid (in Nos.)	Balance to be Paid (in Nos.)	Remarks
1	Cuddalore	710	537	173	
2	Ariyalur	355	215	140	
3	Thanjavur	102	53	49	
	Total in Nos.	1167	805	362	
		Total in %	68.98%	31.02%	

Table 2.1-4 - Compensation disbursement for Structures					
Sl No.	Name of the District	Total No. of structures	Amount paid (in Nos.)	Balance to be Paid (in Nos.)	Remarks
1	Cuddalore	386	240	146	
2	Ariyalur	359	258	101	
3	Thanjavur	153	96	57	
	Total in Nos.	898	594	304	
		Total in %	66.15%	33.85%	

The details of chainages under hindrance due to such balance compensation issues to their land owners, structure payment issues, standing crops, water pipe lines etc. are as below -

Table 2.1.5 - Details of Stretches Under Hindrance						
Sr. No.	From	To	Length	Effective Hindered Length	Side	Remarks
1	66+100	66+260	160	320	BHS	Veeranam Pipe Line
2	66+700	67+300	600	1200	BHS	Land Problem
3	68+550	68+620	70	140	BHS	Compensation Disbursement balance - Not allowed to work by owner
4	70+520	70+600	80	160	BHS	Compensation Disbursement balance - Not allowed to work by owner
5	70+800	70+900	100	200	BHS	Compensation Disbursement balance - Not allowed to work by owner
6	71+400	71+700	300	600	BHS	Compensation Disbursement balance - Not allowed to work by owner
7	72+450	72+600	150	300	BHS	Compensation Disbursement balance - Not allowed to work by owner
8	72+600	72+700	100	200	BHS	Compensation Disbursement balance - Not allowed to work by owner
9	72+800	73+100	300	600	BHS	Compensation Disbursement balance - Not allowed to work by owner
10	73+900	74+200	300	600	BHS	Compensation Disbursement balance - Not allowed to work by owner
11	74+570		10	20	BHS	Structure - Payment pending

Sr No.	From	To	Length	Effective Hindered Length	Side	Remarks
12	75+500	76+150	650	1300	BHS	Compensation Disbursement balance - Not allowed to work by owner
13	76+300	76+500	200	400	BHS	Compensation Disbursement balance - Not allowed to work by owner
14	77+200	77+600	400	800	BHS	Village Limit - Ribbon Development - Compensation Disbursement balance - Not allowed to work owner
15	80+100	81+150	1050	2100	BHS	Village Limit - Ribbon Development - Compensation Disbursement balance - Not allowed to work owner
16	82+700	84+500	1800	3600	BHS	Compensation Disbursement balance - Not allowed to work by owner
17	84+700	86+200	1500	3000	BHS	Compensation Disbursement balance - Not allowed to work by owner
18	87+000	88+200	1200	2400	BHS	Compensation Disbursement balance - Not allowed to work by owner
19	88+900	91+000	2100	4200	BHS	Compensation Disbursement balance - Not allowed to work by owner
20	95+050	95+850	800	1600	BHS	Village Limit - Ribbon Development - Compensation Disbursement balance - Not allowed to work owner
21	98+500	99+400	900	1800	BHS	Village Limit - Ribbon Development - Compensation Disbursement balance - Not allowed to work owner
22	99+400	99+900	500	500	RHS	Compensation Disbursement balance - Not allowed to work by owner
23	99+900	100+300	400	800	BHS	Village Limit - Ribbon Development - Compensation Disbursement balance - Not allowed to work owner
24	100+300	101+600	1300	1300	RHS	Compensation Disbursement balance - Not allowed to work by owner
25	101+600	102+230	630	1260	BHS	Village Limit - Ribbon Development - Compensation Disbursement balance - Not allowed to work owner
26	102+230	102+700	470	940	BHS	Village Limit - Ribbon Development - Compensation Disbursement balance - Not allowed to work owner
27	102+700	103+320	620	620	RHS	Compensation Disbursement balance - Not allowed to work by owner

Sr No.	From	To	Length	Effective Hindered Length	Side	Remarks
28	103+320	104+200	880	880	RHS	Compensation Disbursement balance - Not allowed to work by owner
29	104+200	104+500	300	600	BHS	Compensation Disbursement balance - Not allowed to work by owner
30	110+900	111+100	200	200	RHS	Compensation Disbursement balance - Not allowed to work by owner
31	112+900	113+200	300	600	BHS	Temple Land, Local not allowing to Work
32	114+400	114+650	250	500	BHS	Village Limit - Ribbon Development - Compensation Disbursement balance - Not allowed to work owner
33	115+700	116+440	740	1480	BHS	Toll Plaza Area - LA under Progress
	Total Hindered Length (Km.)			35.220		
	Total Project Length including both side (Km.)			100.960		
	% Hindered Length			34.89%		

Table 2.1.6 - Hindrance Photographs

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	240	Veeranam Pipe Line	65+960	66+200	Veeranam Pipe Line	240		
	10	Trees (2 Nos)	66+400					
			67+400		Motor Room	25		
			67+850		Motor Room	50		
			67+850		Bore Well	20		
			68+600		Motor Room	50		
			68+600		Sluice Gate (2 Nos)	40		
		Well & Trees	68+850					
		Huts (3 Nos) & Building	69+720	69+750				
		Bore Well & Water Tank	69+750					
			69+750		Tin Shed			
	250	EB Poles (10 Nos)	69+800	69+950				
		Building	69+800					
		Flag Post Pedestal	69+850					


Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	25	Well, Coconut Farm	70+000					
	150	HT Line Crossing	70+030	70+200				
		Pump Set & Coconut Farm	70+150					
		Pump Set & Coconut Farm	70+200					
		Fish Farm	70+650					
			70+700		Building			
	550	Agriculture Land & Trees	71+000	71+550				
		Teek Farm, Pump Set & 5 Poles	71+250					
		Bore Well	71+300					
		Borewell	71+550		Borewell			
		Pump Set	72+200					Damaged
	100	Veera mudaiyaan natham Village	72+450	72+550	Veera mudaiyaan natham Village	100		
	10	Hand Pump	72+550		Hand Pump	10		

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	50	Pump Set & Trees	72+700					
			72+850		Pump Set, Bore Well & Trees			
			72+900		Bore & Pump Set			
		Bore & Pump Set	72+950					
			73+400		HT Line Tower	20		
			73+450		Bore Well, Pump Set & Tree EB Pole	50		
	150	Kumarakudi Village	73+500	73+650	Kumarakudi Village	150		
			73+500		Bore Well			
		Telephone Poles	74+710	74+850	Telephone Poles			2 - Telephone Pole
		Temple, Hand Pump,	74+710					
	300	Eb Poles	74+850	75+200	EB Poles	300		8 Nos
			74+900		Marriage Hall			
		Trees	75+200	75+700	Trees			140 Nos















Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
		Hut	75+210					
			75+260		Bore Well & Water Tank			
		Huts	75+270	75+350	Huts			
		Flag Poles	75+390					
			75+520		Huts			
			75+560		Huts			
			75+565	75+640	Pond			
		Building	75+640					
			75+650		Temple			
			75+660		Water Tap			
		Building	75+680					
			75+700		OFC			
		Bore Well & Water Tank	75+700					

















Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
		Kothanda vilagam Village	75 + 700	76 + 200	Kothanda vilagam Village			
		Hand Pump	75 + 710					
		Water Tap	75 + 810					
		Street Light	75 + 840					
		Flag Pole	75 + 840		Existing Culvert			
		Water Tap	75 + 880					
		Bore Well & Water Tank	76 + 025					
		Pump Set	76 + 260					
		Trees & EB Poles	76 + 300	76 + 800	Trees & EB Poles	450		
		Trees & EB Poles	76 + 300	76 + 800				
		Bus Shelter	76 + 410					
			76 + 410		Flag Pole			
			76 + 600		Temple			

















Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
			76+695		OFC & Compound Wall			
		EB Poles	76+800	77+300	EB Poles			
			76+800	77+300	Telephone Pole			3 nos
			76+850		OFC			
			76+940		Bore & Water Tank			
		Buildings	76+980		Buildings			
			77+060		Bore & Water Tank			
			77+080	77+190	School Compound Wall			
		Building	77+100	77+300				
			77+220		Building			
			77+240		OFC			
			77+280		Compound Wall			
	300	Buildings	77+300	77+600	Buildings	300		

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
		Trees, EB Poles	77+300	77+600	Trees, EB Poles			
		Flag Pole	77+390	77+420				4 Nos
		Hand Pump	77+505					
		Telephone Pole	77+390	77+510				3 Nos
		Hand Pump	77+590					
			77+700		OFC			
		Building	77+730					
			77+760		Water Tank & Motor Room			
		EB Pole	77+900	78+400	EB Pole			10 Nos
		Water Tap	77+975					
			78+120		OFC			
			78+390		EB Pole, Bore Well			
		OFC	78+400					

















Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	450		78+400	79+000	EB Pole, Trees	450		340 Trees, 16 Poles
			78+680		OFC			
			78+725		Transformer			
		Huts	78+670	78+760				
			78+860		OFC			
	400	Trees & EB Poles	79+000	79+500	Trees & EB Poles	400		
			79+080		OFC			
		Hand Pump	79+105					
		Existing Culvert	79+110					
			79+220		Flag Pole			
		Water Tank & Motor Room	79+240					
			79+260		OFC			
			79+520		Transformer			

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
			79+565		OFC			
		Hut	79+955					
	400	EB Pole, Water Tap, Trees, Telephone Pole	80+000	80+500	EB Pole, Water Tap, Trees, Telephone Pole	400		
		Water Tank, Motor Room, Hand Pump & Existing Culvert	80+120					
			80+125		Temple			
			80+170		Existing Culvert			
			80+190		OFC			
			80+300	80+390	Pond			
		Transformer	80+340					
	400	EB Poles, Telephone Poles, Trees, Water Tap	80+500	81+000	EB Poles, Telephone Poles, Trees, Water Tap	400		
		Flag Poles	80+530	80+570	Flag Poles			6nos
			80+710		Existing Culvert			
		Bore Well	80+740					


















Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
			80+900		OFC			
	400	Tree, EB Poles	81+000	81+500	Tree, EB Poles	400		
			81+125		OFC			
			81+325	81+360	Existing Culvert & Compound Wall			
		Pond	81+360	81+460				
		OFC & Temple	81+445					
	450	EB Pole & Tress	81+500	82+000	EB Pole & Tress	450		
			81+585		OFC			
		Transformer	81+715					
		Sluice Gate	82+020		Sluice Gate			5 Nos
			82+510		OFC			
			82+595		OFC			
			82+875		Existing Culvert			

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
			82+890		OFC			
		Existing Culvert, Compound Wall	82+975					
	450	Tree, Pole & Water Tap	83+000	83+500	Tree, Pole & Water Tap	450		Pole 18, Tree 160, Tap - 6
			83+060		OFC			
		Existing Culvert	83+205					
		OFC	83+265					
			83+310		OFC			
		Flag Post	83+385					
			83+425		Transformer			25
	450	EB Pole, Water Tap, Trees, Telephone Pole	83+500	84+000	EB Pole, Water Tap, Trees, Telephone Pole	450		Pole - 13, Tap - 37, Tree - 239
			83+615		Temple			
			83+625		OFC			
		EB, Transformer	83+850					

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
			83+890		Flag Poles			4 nos
			83+935		Water Tank			
			83+995		Hand Pump			
	450	EB Pole, Water Tap, Trees, Telephone Pole & Buildings	84+000	84+500	EB Pole, Water Tap, Trees, Telephone Pole & Buildings	450		EB Pole - 14, Tap - 2, Tree - 185
		Temple & Well	84+070					
		Flag Pole, Telephone Pole	84+110					
			84+110		OFC & Flag Pole			
			84+280		Transformer			
		Transformer	84+480					
			84+500	84+560	Huts			
			84+560		Flag & Ex Culvert			Pole 2 Nos
			84+650		OFC			
			84+920		OFC			

















Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
		Building	84 + 930	84 + 980				
	400		85 + 000	85 + 500	EB Pole, Trees	400		Poles - 23 & Tree 200
		Hut	85 + 045					
			85 + 060		EB, Transformer			
			85 + 090		OFC			
	300		85 + 500	86 + 000	EB Pole, Tree, Water Tap	300		Pole -17, Tree -30, Tap - 3
			85 + 770		OFC			
		Transformer	85 + 865					
		Building	85 + 910					
		Hut	85 + 930					
			85 + 955		Temple			
			85 + 990		OFC			
	500		86 + 000	86 + 700	EB Pole, Tree, Water Tap, T Poles	500		Eb Pole - 20, Tree - 275, Tap - 36, T Pole -5

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
			86+280		Temple			
			86+350		Bore Well			
		Temple	86+390					
			86+500		OFC			
			86+585		Motor Room			
		Buildings	86+000	86+700	Buildings			
	700	Building & Huts	86+700	87+500	Building & Huts	700		
			86+700	87+500	EB Pole, Tree, Water Tap, T Poles			EB - 38, Tree - 392, Tap - 30, T Pole - 2
			86+720		Flag Pole			
			86+830		OFC, Transformer			
		Transformer	86+915					
			86+985		OFC			
		Existing Culvert	87+080					

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
			87+155		OFC			
		Transformer	87+330					
			87+360		OFC			
	400	EB Pole, Tree, Tap, Telephone Pole	87+500	88+000	EB Pole, Tree, Tap, Telephone Pole	400		EB - 24, Tree - 163, Tap - 13, T Pole - 5
		Buildings & Huts	87+500	88+000	Buildings & Huts			
		Temple	87+500					
			87+640		OFC			
			87+670		Water Tank, Motor Room			
			87+690		Temple			
			87+735		Flag Pole			
			87+810		Transformer & OFC			
			87+835		Water Tank			
			87+990		OFC			










Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	450	EB Pole, Tree, Tap, Telephone Pole	88+000	88+500	EB Pole, Tree, Tap, Telephone Pole	450		EB - 16, Tree - 145 Water Tap - 15
		Buildings	88+000	88+500	Huts			
			88+190		OFC			
			88+225		Transformer			
	450	EB Pole, Tree, Tap	88+500	89+000	EB Pole, Tree, Tap	450		EB -11. Tap - 2, Tree - 110
		House	88+500	89+000	House			
			88+580		OFC			
			88+590	88+710	Compound Wall			
			88+780		OFC			
			88+910		Temple			
		Existing Culvert	88+965					
	450	EB Pole, Tree, water Tap, Telephone Pole	89+000	89+500	EB Pole, Tree, water Tap, Telephone Pole	450		EB - 14, Tap - 15, T Pole - 5, Tree - 195
		Flag Post Pedestal	89+110					

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
			89+210		Transformer			
			89+240		OFC			
			89+350		Water Tank With Bore Well			
			89+355		Temple			
	450	EB Pole, Tree, water Tap, Telephone Pole	89+500	90+000	EB Pole, Tree, water Tap, Telephone Pole	450		EB - 16, Tap - 18, T Pole - 3, Tree - 270
		Water Tank	89+515					
		Flag Pole	89+590					
		Motor Room	89+690					
			89+710		OFC			
			89+805		Well			
			89+910		OFC			
	400	EB Pole, Water Tap, Telephone Pole, House	90+000	90+500	EB Pole, Water Tap, Telephone Pole, House	400		EB - 34, Tap - 4, T. Pole - 6
		Pond	90+000	90+060				


Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
			90+090	90+180	Compound Wall			
			90+180		Transformer			
			90+195		OFC			
			90+230		Transformer			
			90+325		Temple			
			90+375		Existing Culvert			
	400	EB Pole, Telephone Pole, Tree, Water Tap	90+500	91+000	EB Pole, Telephone Pole, Tree, Water Tap	400		EB - 14, Tap - 5, T. Pole 7, Tree - 130
			90+560		OFC			
			90+610		Water Tank			
		Water Tank	90+630					
			90+830	90+860	Pond			
			90+955		OFC			
	450	EB Pole, Tree	91+000	91+500	EB Pole, Tree	450		EB - 34, Tree 71
















Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
			91+080		OFC			
			91+480		OFC			
	450	EB Pole, Water Tap, Telephone Pole, Trees	91+500	92+000	EB Pole, Water Tap, Telephone Pole, Trees	450		
			91+600		OFC			
			91+730		OFC			
			91+780		Temple			
		Pond	91+780	91+860				
			91+840		OFC			
			91+955		OFC			
	700	EB Pole, Water Tap, Tree, Telephone Pole	92+000	93+000	EB Pole, Water Tap, Tree, Telephone Pole	700		EB - 16, Tap - 10, Tree - 26, T Pole - 7
			92+080		OFC			
		Temple	92+135					
			92+265		OFC			















Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
		Pond	92+270	92+330				
			92+300	92+380	Water Pipe Crossing			
			92+390		OFC			
		Temple	92+455					
			92+570		Temple			
			92+600		OFC			2 Nos
			92+770		OFC			2 Nos
		OFC	92+995					
	750	EB Pole, Water Tap, Tree	93+000	94+000	EB Pole, Water Tap, Tree	750		EB - 44, Tape - 14, Tree - 270
			93+045		OFC			
			93+115		Transformer			
			93+200		OFC			
			93+360		OFC			
















Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
			93+660		OFC			
			93+800		OFC			
			93+930		Hand Pump			
			93+975		OFC			
	400	Tree, EB Poles, T. Pole, Water Tap, House	94+000	94+500	Tree, EB Poles, T. Pole, Water Tap, House	400		Tree - 220, EB - 25, T Pole - 5, Tap - 7
			94+130		OFC			
		OFC, MOTOR ROOM	94+170					
			94+385		OFC			
		TEMPLE	94+440					
	400		94+500	95+000	Tree, EB Pole, T. Pole	400		Tree - 146, EB - 23, T Pole - 4, Tap - 6
			94+530		OFC			
		OFC	94+555					
			94+780		OFC, Transformer			

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
		Pond, Pipe Line	94+830	94+900				
			94+935		OFC			
	450	EB Pole, Tree, Tape, Telephone Pole	95+000	95+500	EB Pole, Tree, Tape, Telephone Pole	450		EB - 16, T Pole - , Tap 5, Tree 150
			95+130	95+230	Compound Wall			
			95+210		Telephone Panel, Water Tank With Well			
			95+255		Police Station Arch			
			95+290		OFC			
		Flag Pole & Stage	95+415					
			95+435		Street Light			
	400	EB Pole, Tree, Tape, Telephone Pole	95+500	96+000	EB Pole, Tree, Tape, Telephone Pole	400		EB - 25, T Pole - 7, Tap - 6, Tree 150
			95+570		Temple			
		OFC	95+850					
		Pond	95+950					



Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	400	EB Pole, Tree, Tape, Telephone Pole	96+000	96+500	EB Pole, Tree, Tape, Telephone Pole	400		EB - 39, T Pole - 5, Tap - 6, Tree - 120
			96+120		OFC			
			96+150		Transformer			
			96+480		Transformer			
	450	EB Pole, Tree, Tape, Telephone Pole	96+500	97+000	EB Pole, Tree, Tape, Telephone Pole	450		EB - 16, T Pole - 3, Tree - 180
			96+710		OFC			
			96+965		OFC			
			97+080		OFC			
			97+195		OFC			
			97+395		OFC			
			97+390	97+500	Pond			
	300	EB Pole, Tree, Tape, Telephone Pole	97+500	98+000	EB Pole, Tree, Tape, Telephone Pole	300		EB - 16, Tap - 5, Tree - 80
		Temple	97+520					




Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
			97+600		OFC			
			97+680		Motor Room With Bore			
		Transformer	97+700					
		OFC	97+770					
			97+880		OFC			
		OFC	97+965					
	350	EB Pole, Tree, Tape, Telephone Pole	98+000	98+500	EB Pole, Tree, Tape, Telephone Pole	350		EB - 9, T Pole - 2, Tree - 120
		OFC	98+280					
	350	EB Pole, Tree, Tape, Telephone Pole	98+500	99+000	EB Pole, Tree, Tape, Telephone Pole	350		EB - 19, T Pole - 3, Tree 110
			98+620		Transformer			
		OFC	98+635		Temple			
			98+710		Temple			
		Water Tank with Bore	98+735					

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
		OFC	98+825					
		Street Light	98+920					
		Flag Pole	98+940					
		OFC	98+950					
	750	EB Pole, Tree, Tape, Telephone Pole	99+000	100+000	EB Pole, Tree, Tape, Telephone Pole	750		EB - 47, T Pole - 4, Tap - 5, Tree 118
			99+120		Temple			
		Motor Room With Bore	99+150					
			99+160		Transformer			
			99+195		Temple With Water Tank			
		OFC	99+300					
		OFC	99+490					
	650	EB Pole, Tree, Tape, Telephone Pole	100+000	101+000	EB Pole, Tree, Tape, Telephone Pole	650		EB - 32, Tap - 12, Tree 210, T Pole - 3
		Transformer	100+150					




Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
			100+195		Bore Well			
			100+200		OFC			
		OFC	100+320					
		Pond	100+350					
		Motor Room With Tank	100+390					
			100+475		Water Tank			
		OFC	100+600					
		OFC	100+670					
		OFC	100+720					
		OFC	100+740					
		Pond	100+740	100+820				
	650	EB Pole, Tree, Tape, Telephone Pole	101+000	102+000	EB Pole, Tree, Tape, Telephone Pole	650		EB - 42, T Pole - 5, Tap - 6 Tree 100
			101+005		OFC			















Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
		OFC	101+125					
			101+120	101+300	Pond			
		OFC	101+330					
			101+480		Hand Pump			
			101+805		OFC			
		Transformer	101+835					
	750	EB Pole, Tree, Tape, Telephone Pole	102+000	103+000	EB Pole, Tree, Tape, Telephone Pole	750		EB - 30, T Pole - 2, Tap - 13, Tree 110
		OFC	102+100					
			102+240		Temple			
			102+365		Transformer			
		OFC	102+390					
		OFC	102+435					
			102+520		Flag Pole			















Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
		OFC	102+575					
		OFC	102+730					
		Transformer	102+930					
		Schooh Arch	102+960					
	800	EB Pole, Tree, Tape, Telephone Pole	103+000	104+000	EB Pole, Tree, Tape, Telephone Pole	800		EB - 30, Tree - 110, T Pole - 2, Tap - 13
		OFC	103+025					
		Pond	103+090	103+300				
		OFC	103+130					
		OFC	103+320					
		OFC	103+400					
		OFC	103+425					
		OFC	103+530					
			103+590		Temple			

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
		OFC & Flag Pole	103+720					
		Pond	103+775	103+815				
			103+860	103+910	Pond			
		Pond	103+935	104+250				
		Existing Irrigation Sluice	103+990					
	400	EB Pole, Tree	104+000	104+500	EB Pole, Tree	400		EB - 4 , Tree - 3
		House	104+500		House			
	350	EB Pole, Tree, Tape	104+500	105+200	EB Pole, Tree, Tape	350		Tree - 21, EB - 23, Tap - 3
	500	EB Pole, Tree, Tape	105+200	105+900	EB Pole, Tree, Tape	500		Tree - 42, EB - 4, Tap - 4
			105+850		Motor Room			
	750	EB Pole, Tree, Tape	105+900	106+900	EB Pole, Tree, Tape	750		Tree - 100, EB - 1, Tap - 7
			105+920		Well			
		Motor Room	106+900					

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	1150	EB Pole, Tree, Tape	107+900	109+700	EB Pole, Tree, Tape	1150		Tree - 94, EB - 9, Tap - 6
	1350	EB Pole, Telephone Pole, Tree, Tape	109+700	111+200	EB Pole, Telephone Pole, Tree, Tape	1350		Tree - 110, EB - 30, T Pole - 6, Tap - 18
		OFC	109+705					
		OFC	109+710					
			109+720		Motor Room			
			109+985		Water Pipe			
		OFC	110+330					
		Water Tank	110+450					
			110+725		OFC			
		Transformer	110+740		Motor Room with well			
	1750	EB Pole, Tree, Tape	111+200	113+500	EB Pole, Tree, Tape	1750		Tree - 460, EB - 23, Tap - 12
		OFC	111+230		OFC			
			111+450		Motor Room With Bore			













Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
		Gate Valve	111+500					
		Motor Room With Bore	111+600					
			111+680		Motor Room With Bore			
		Motor Room With Bore	112+300					
			112+310		House & Hand Pump			
			112+390		Motor Room With Bore			
			113+220		Motor Room With Bore			
			113+250		House			
			113+330		Motor Room With Bore			
	750	EB Pole, Telephone Pole, Tree, Tape	113+500	114+600	EB Pole, Telephone Pole, Tree, Tape	750		Tree - 280, EB -38, T Pole - 9, Tap - 6
			113+670	113+720	Sub Station			
			113+700		HT Line Crossing			
			114+060		Flag Pole			







Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
			114+090		Flag Pole, Water Tank			
		HT Line	114+130					
		Transformer	114+460					
		Water Tank	114+450					
		Water Tank	114+495					
		OFC	114+520		Temple			
		Pond	114+540	114+580				
	650	EB Pole, Telephone Pole, Tree, Tape	114+600	115+600	EB Pole, Telephone Pole, Tree, Tape	650		Tree - 80, EB -18, Tap - 2
		Hand Pump	114+610					
		Transformer	114+950					
		Transformer	115+210					
			115+230		Flag Pole			5 Nos
	700	EB Pole, Telephone Pole, Tree, Tape	115+600	116+440	EB Pole, Telephone Pole, Tree, Tape	700		Tree - 90, EB -26, T Pole - 2 Tap - 16

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
			115+650		Motor Room			
		OFC	115+820					
		Transformer	115+970					
		OFC	116+095					
		OFC	116+170					
		Hand Pump	116+200					
		Water Tank & Motor Room	116+210					
		OFC	116+275					
		OFC	116+410					
			116+560		Flag Pole			
		House	115+600	116+440	House			

2.2. Removal of Religious Structures

The following structures coming within the ROW are to be demolished

Sl No.	Name of the District	Total No. Of structures	Removed as on Date (in Nos.)	Balance (in Nos.)
1	Cuddalore	10	2	8
2	Ariyalur	10	1	9
3	Thanjavur	2	1	1
	Total in Nos.	22	4	18

2.3. Shifting of Utilities and Electrical HT/LT Lines

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

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

Sr. No	Name of the District	Chainages			Number of Estimates	Present Status	Remarks
		From	To	Length in Km			
1	Cuddalore	65+960	86+440	20.48	10	Estimate Approved	Supervision Charges paid.
2	Ariyalur	86+440	106+860	20.42	5	Estimate Approved	Supervision Charges paid.
3	Thanjavur	106+860	116+440	9.58	4	Estimate Approved	Supervision Charges paid.

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

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

Table 2.3-3: Status of Utility Relocation

Sl. No.	Authority	Description	Unit	Total Length/ Nos.	Work done	Balance	Remarks
1	BDO & EE, TWAD	Water Supply Pipe Line	Kms.	21.595	3.644	17.951	Work in progress
2	BDO of Concern Union	Hand Pump/Pump Room with Bore well	Nos.	24	Nil	24.0	
3	BDO of Concern Union	Over Head Tank	Nos.	17	3 Nos In Progress	17.0	
4	TNEB	Electrical Lines	Kms.	6.83	2.48	4.35	

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	5.965	0.490	54	Work in Progress
2	Ariyalur	86+440	106+860	20.42	8.385	8.220	0.170	54	
3	Thanjavur	106+860	116+440	9.58	2.515	1.500	1.015	286	
Total				50.48	17.65	15.685	1.675	394	

3. Progress Briefing – Contractor Activities

3.1. Pre-construction Activities

Detailed Design & Drawings

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

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

Sl No.	Description	Unit	Total Scope as per Sch.B As per Sch. B	Design submitted	Drawing Approved
1	Pavement Design	Km	50.480	50.48	50.48
2	Plan & Profile	Km	50.480	50.48	48.48
3	Typical Cross Sections	Type	7	7	7
4	Major Intersections	No	07	-	-
5	Minor Intersections	No	100	-	-
6	Toll Plaza (Typical Details)	No	01	-	-
7	Service Roads	No	27.10	27.10	-

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

Sr. No	Description	Unit	Total Scope As per Sch. B	Design Submitted	Drawing Approved
1	Major Bridges	No	04	04	1
2	Minor Bridges	No	25	25	13
3	Grade Separated Intersection	No	08	08	8
4	VUP/LVUP	No	15	15	12
5	Box /Slab Culvert	No	60	60	51

4. Physical Progress of Work

4.1. Physical Progress of Work

The Progress of the Major Works carried out at the Site in the Month of January 2019 is as follows.

CUMMULATIVE STATEMENT**For Main Carriageway**

Sr. No.	Description	Total Length of Highway Excluding Toll Plaza (in. Km.)	Progress up to Previous Month (in Km)	Progress during this Month (In Km.)	Cumulative Progress Achieved up to this Month (In Km)	In Progress (In Km.)	Balance Length to be Completed	Cumulative % of Progress Achieved
1	Clearing and Grubbing							
	LHS	47.28	19.46	0	19.46	0	28.36	41.16%
	RHS	47.28	17.11	0	17.11	0	30.17	36.19%
2	Embankment							
	LHS	47.28	0	0	0	4.165	47.28	0.00%
	RHS	47.28	0	0	0	3.520	47.28	0.00%
3	Sub grade							
	LHS	47.28	0	0	0	0	47.28	0.00%
	RHS	47.28	0	0	0	0	47.28	0.00%
4	GSB/ Cement Treated Base							
	LHS	47.28	0	0	0	0	47.28	0.00%
	RHS	47.28	0	0	0	0	47.28	0.00%
5	Wet Mix Macadam							
	LHS	47.28	0	0	0	0	47.28	0.00%
	RHS	47.28	0	0	0	0	47.28	0.00%
6	Dense Bitumen Macadam							
	LHS	47.28	0	0	0	0	47.28	0.00%
	RHS	47.28	0	0	0	0	47.28	0.00%
7	Bituminous Concrete							
	LHS	47.28	0	0	0	0	47.28	0.00%
	RHS	47.28	0	0	0	0	47.28	0.00%

For Service Road

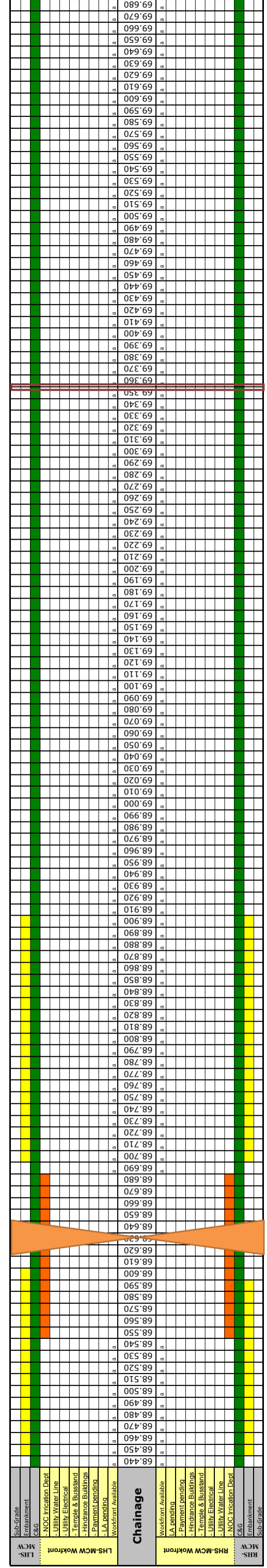
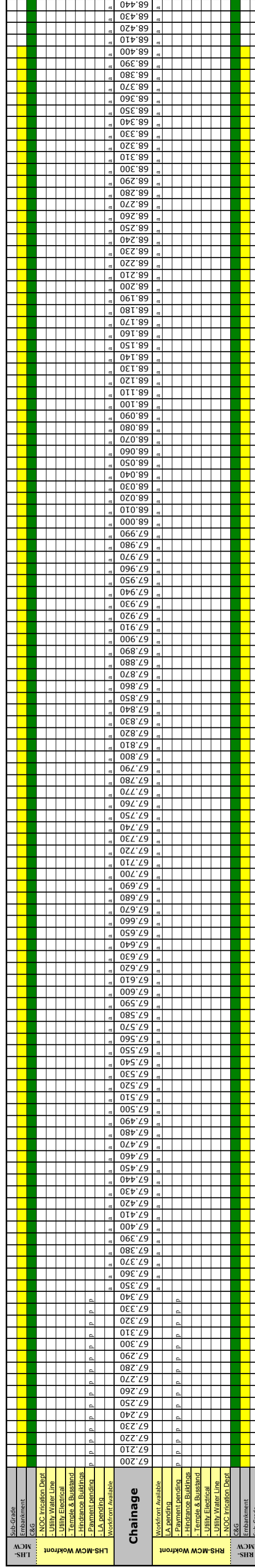
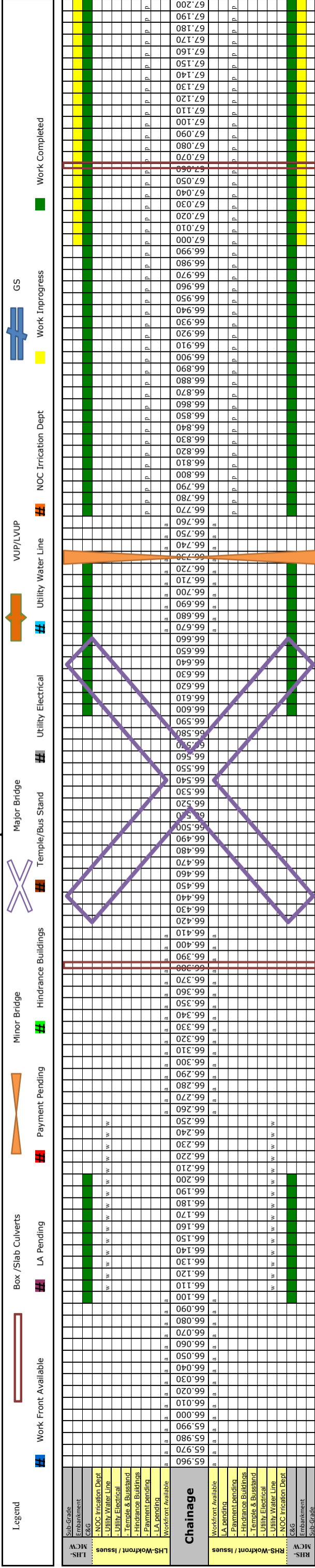
Sr. No.	Description	Total Length of Service Road (Km.)	Progress up to Previous Month (in Km)	Progress during this Month (In Km.)	Cumulative Progress Achieved up to this Month (In Km)	In Progress (In Km.)	Balance Length to be Completed	Cumulative % of Progress Achieved
1	Embankment	53.19	0	0	0	0	53.19	0.00%
2	Sub grade	53.19	0	0	0	0	53.19	0.00%
3	GSB/ Cement Treated Base	53.19	0	0	0	0	53.19	0.00%
4	Wet Mix Macadam	53.19	0	0	0	0	53.19	0.00%
5	Dense Bitumen Macadam	53.19	0	0	0	0	53.19	0.00%
6	Bituminous Concrete	53.19	0	0	0	0	53.19	0.00%

Structure Work					
Sr. No.	Type of Structure	Total No. of Structures	Nos. Of Structures		
			Completed	In Progress	Balance
1	Culvert	60	1	19	40
2	Light Vehicular Underpass	2	0	1	1
3	Vehicular Underpass	13	0	4	9
4	Minor Bridges	25	0	12	13
5	Major Bridge	4	0	1	3
6	Flyover	8	0	5	3

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

Sethiyahopu - Cholopuram Road Projects

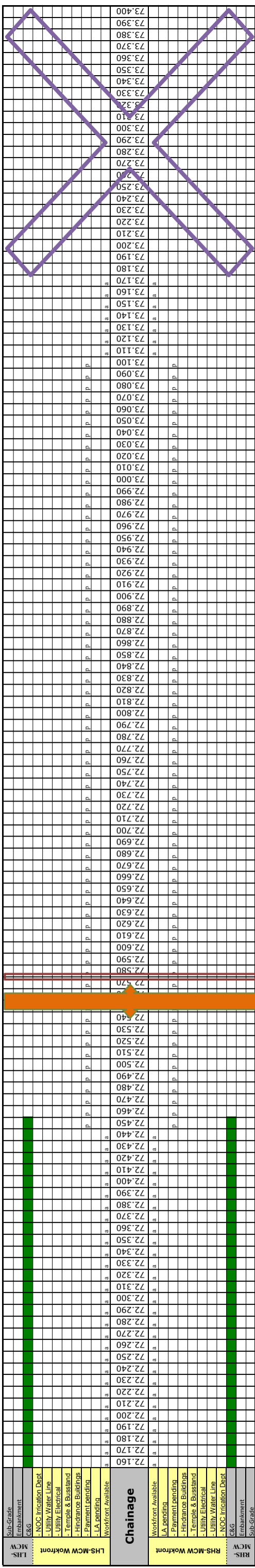
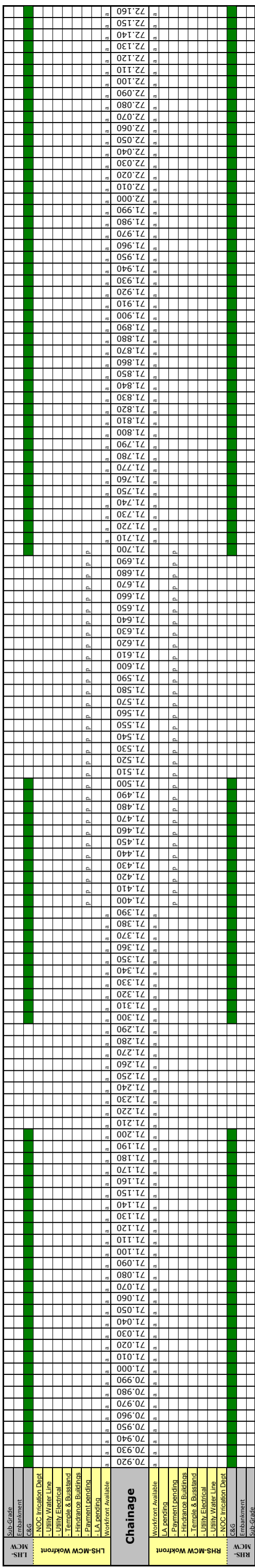
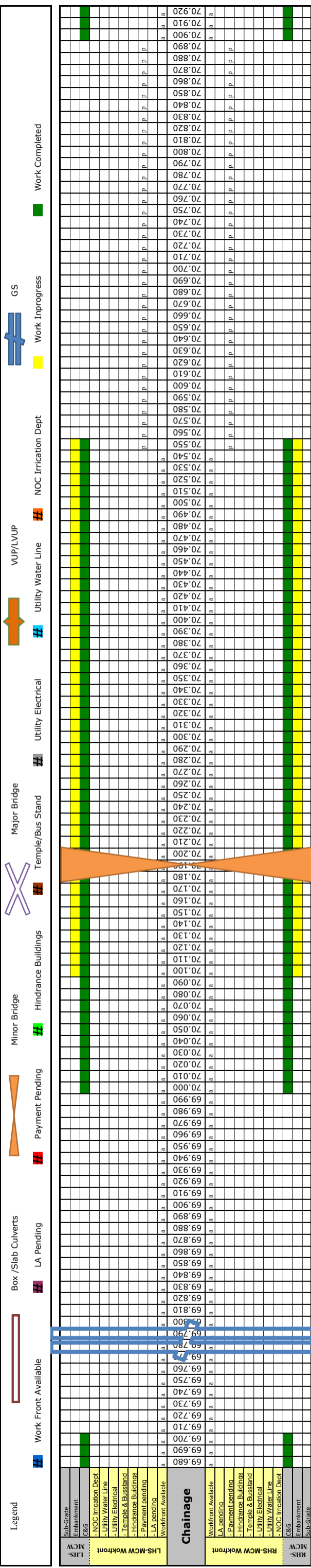
Strip Plan on 31-01-2019



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

Sethiyahopu - Cholopuram Road Projects

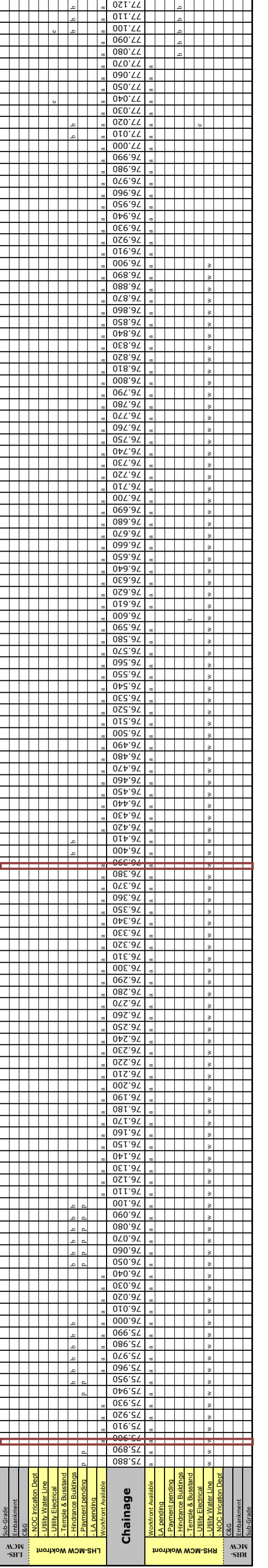
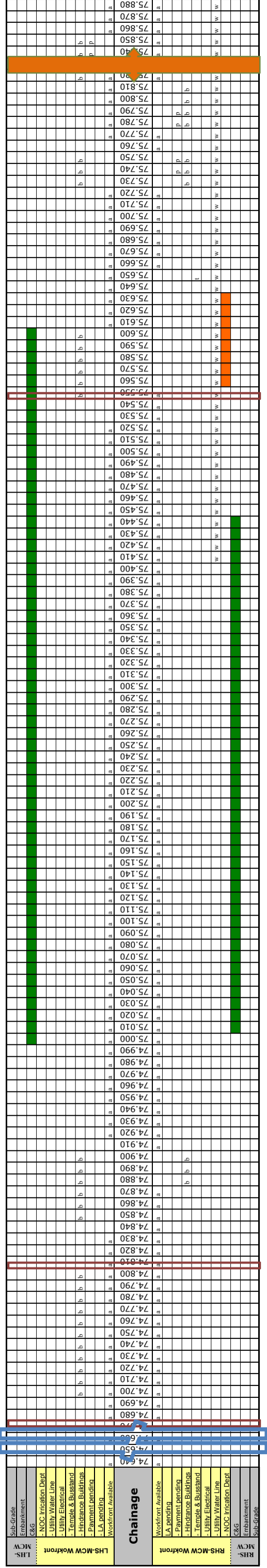
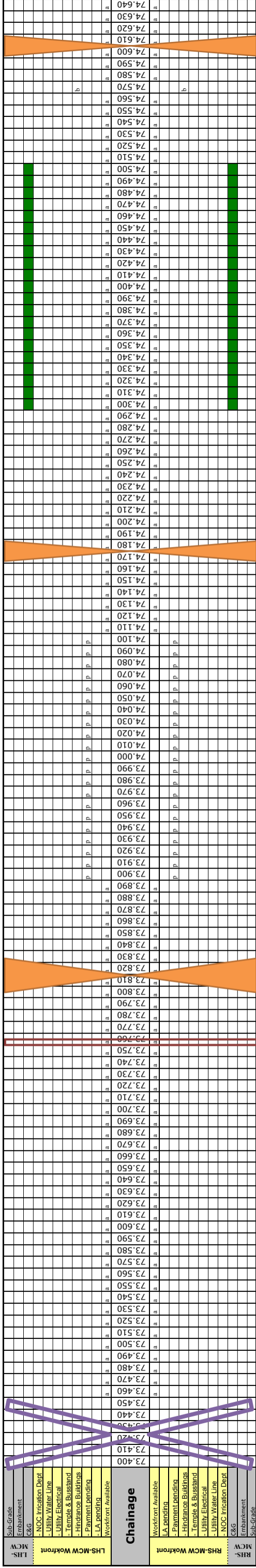
Strip Plan on 31-01-2019



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

Strip Plan on 31-01-2019

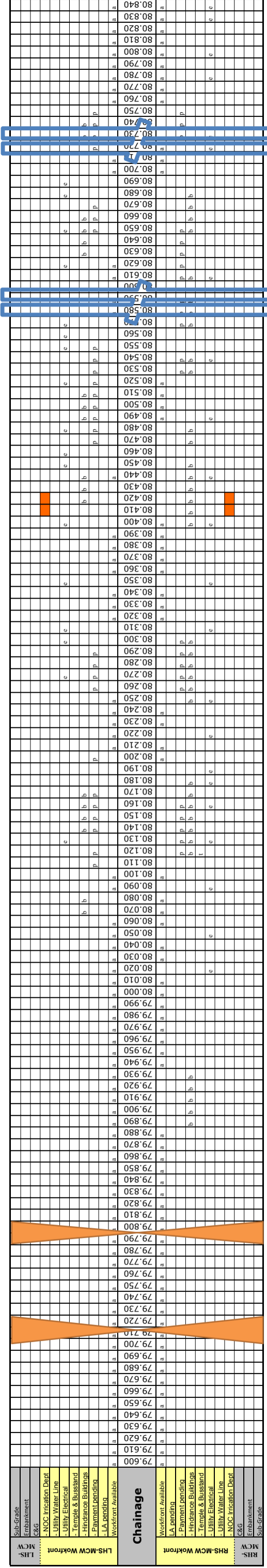
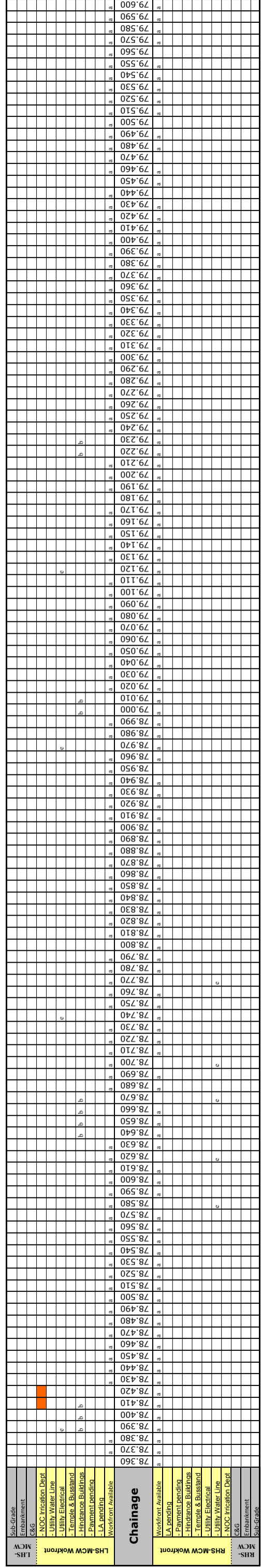
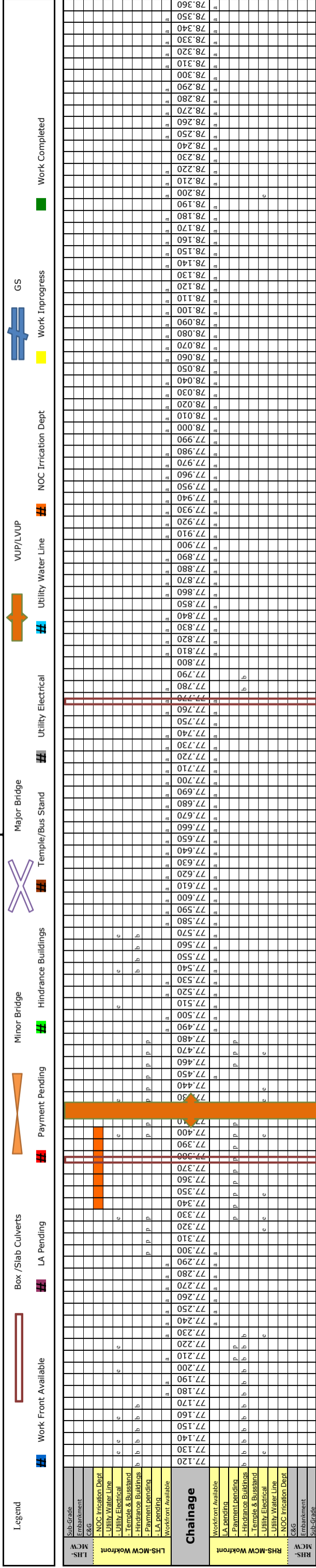
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	Box /Slab Culverts		Minor Bridge		Utility Water Line		Work Inprogress
	LA Pending		Hindrance Buildings		Utility Electrical		NOC Irrigation Dept
	Payment Pending		Temple/Bus Stand		Work Completed		Work Completed



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

Sethiyahopu - Cholopuram Road Projects

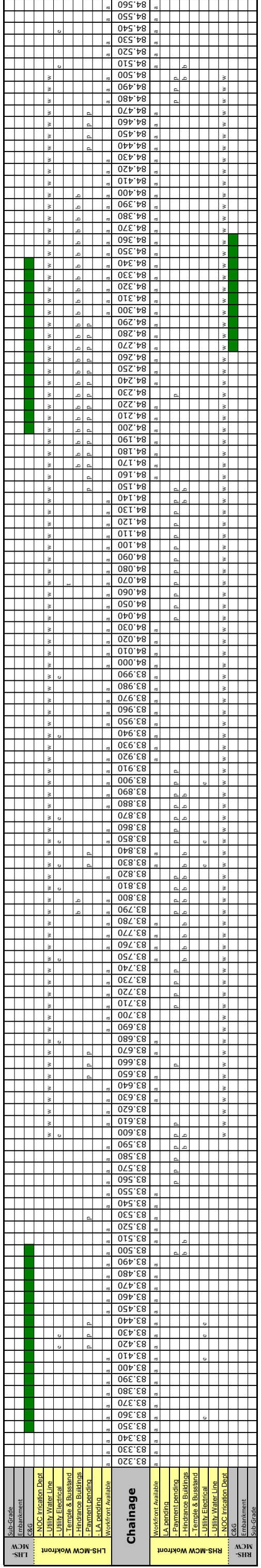
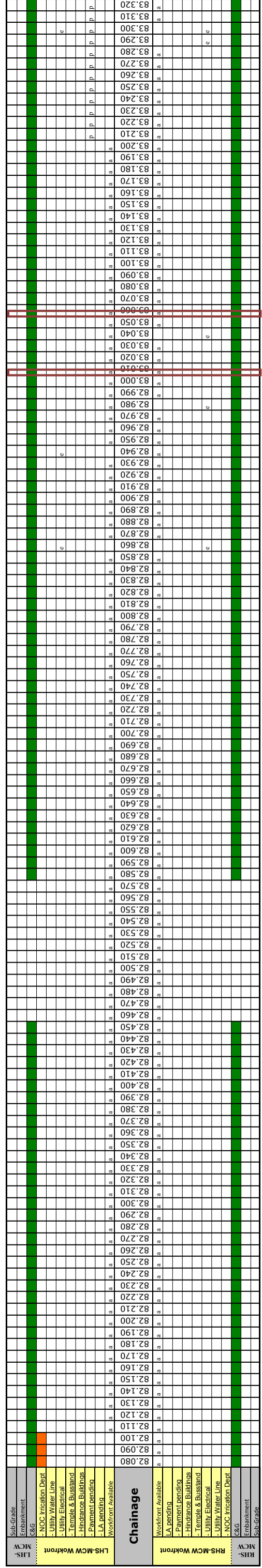
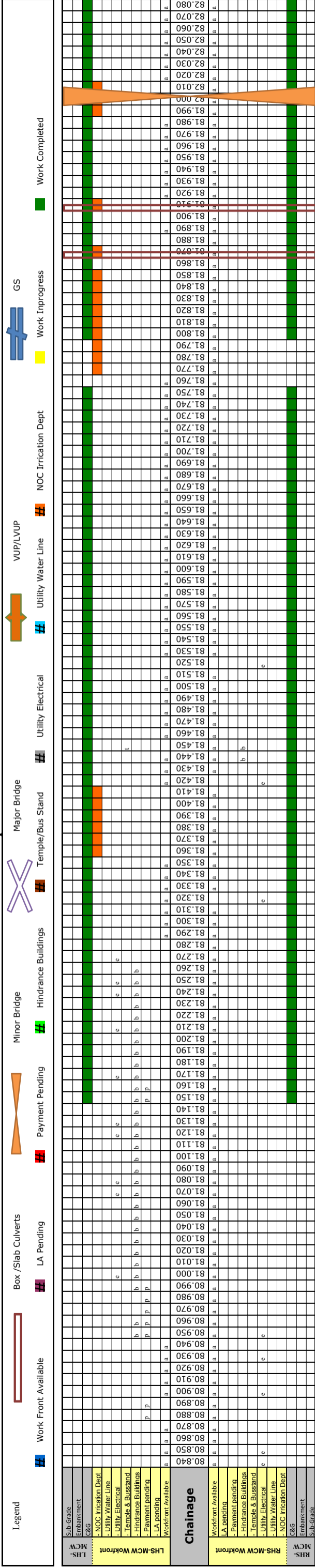
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Four Laning of Sethiyahopu - Cholopuram from Km.65.960 to Km.116.440 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode

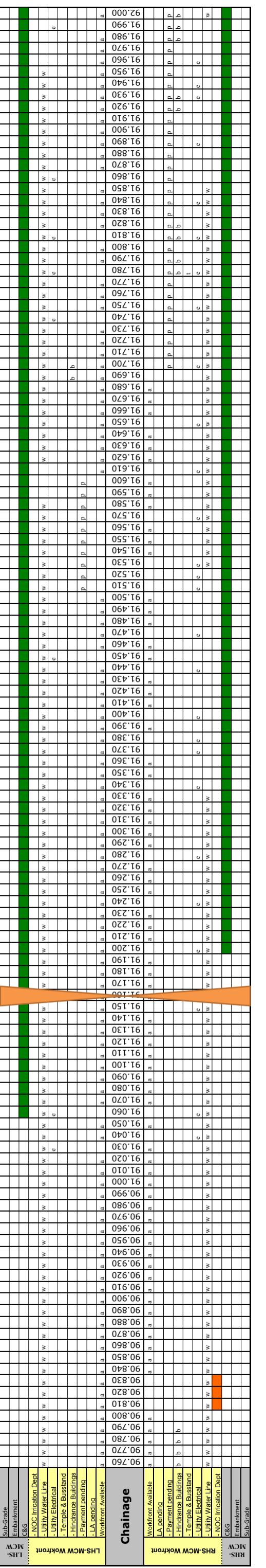
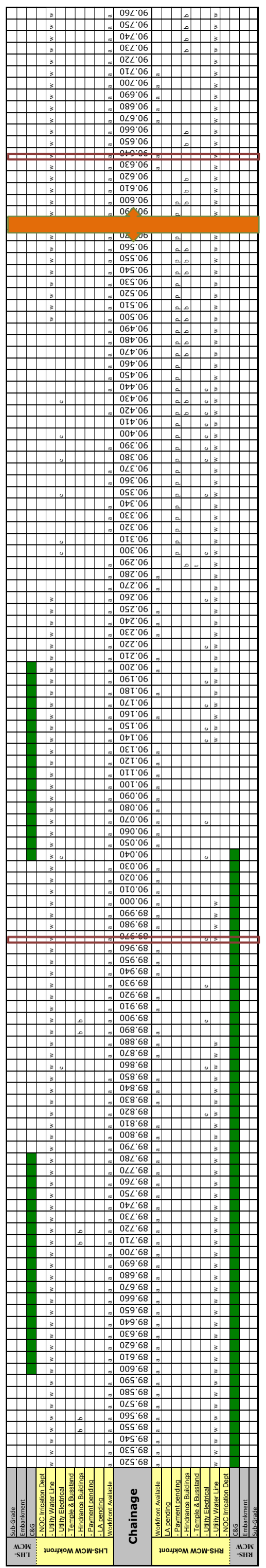
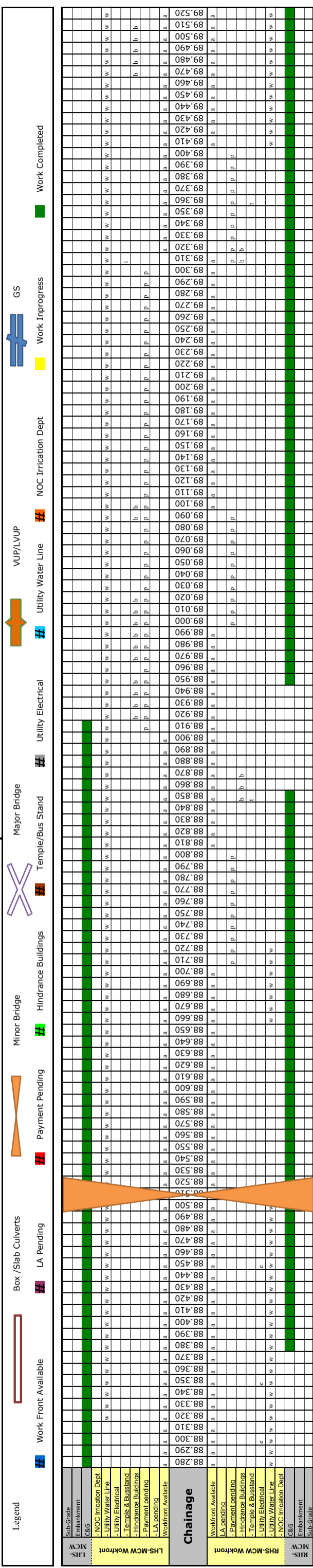
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Four Laning of Sethiyahopu - Cholopuram from Km.65.960 to Km.116.440 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode
 Sethiyahopu - Cholopuram Road Projects

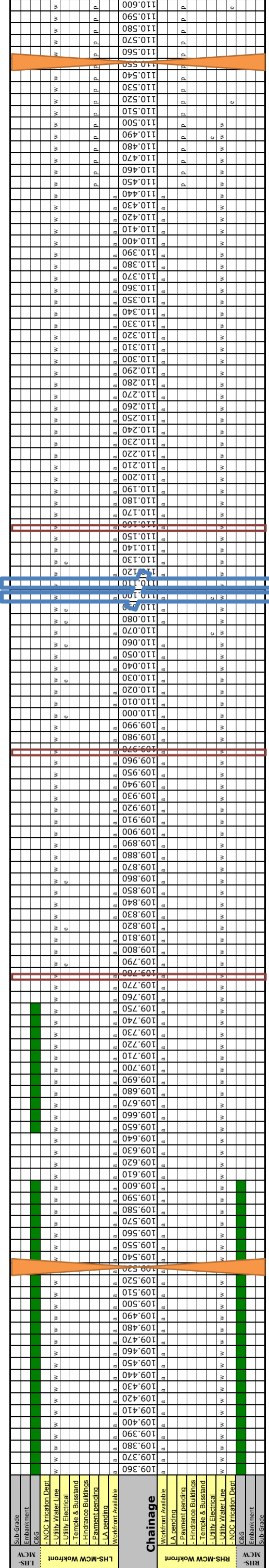
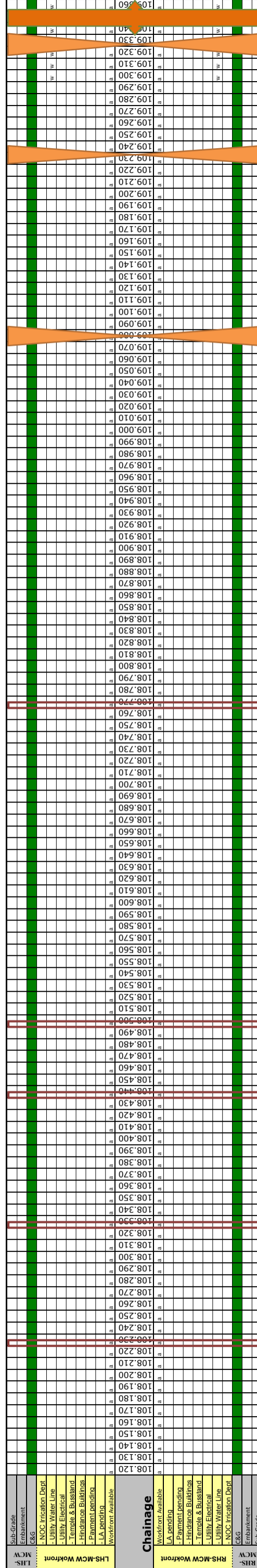
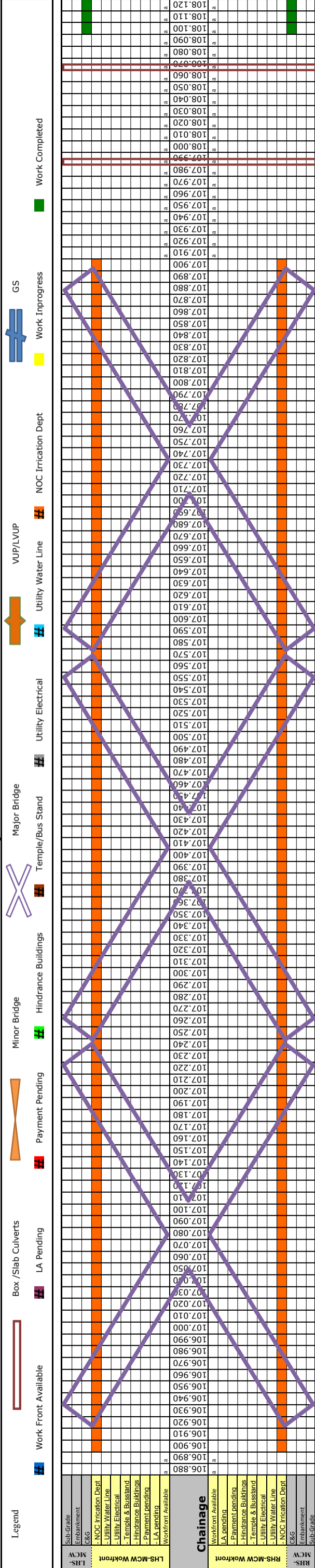
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Four Lining of Sethiyahopu - Cholopuram from Km.65.960 to Km.116.440 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode

Sethiyahopu - Cholopuram Road Projects

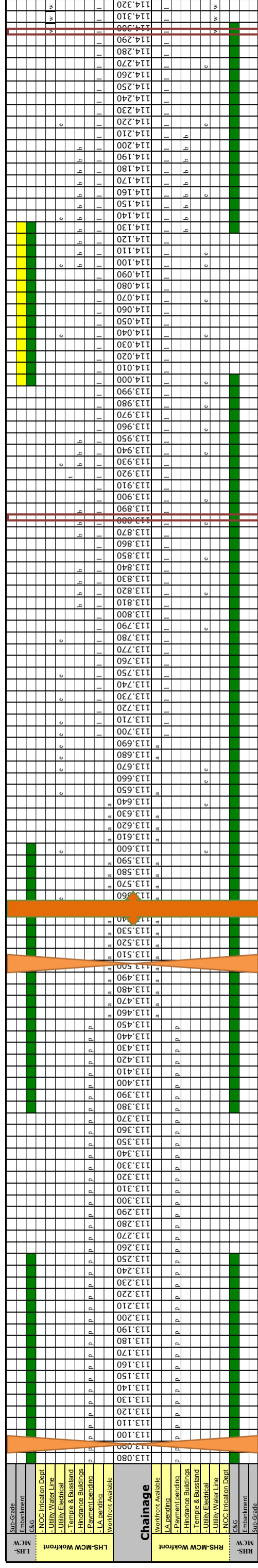
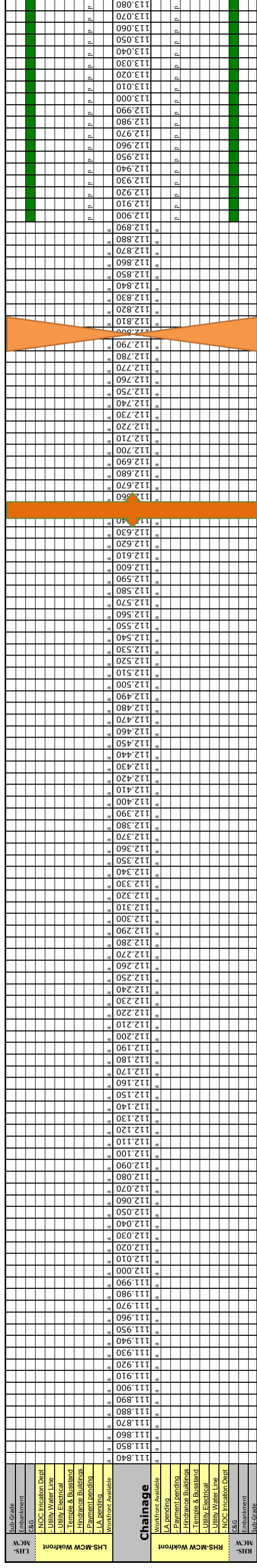
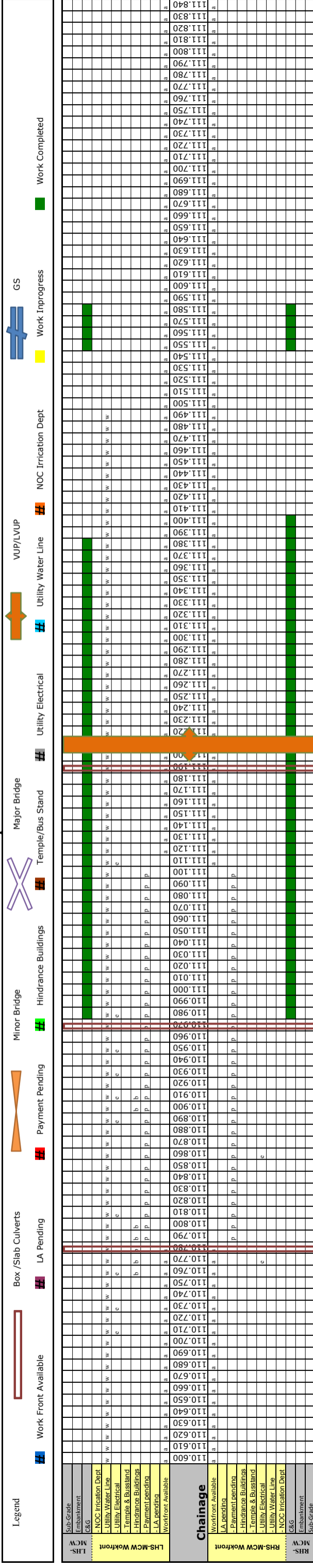
Strip Plan on 31-01-2019



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

Sethiyahopu - Cholopuram Road Projects

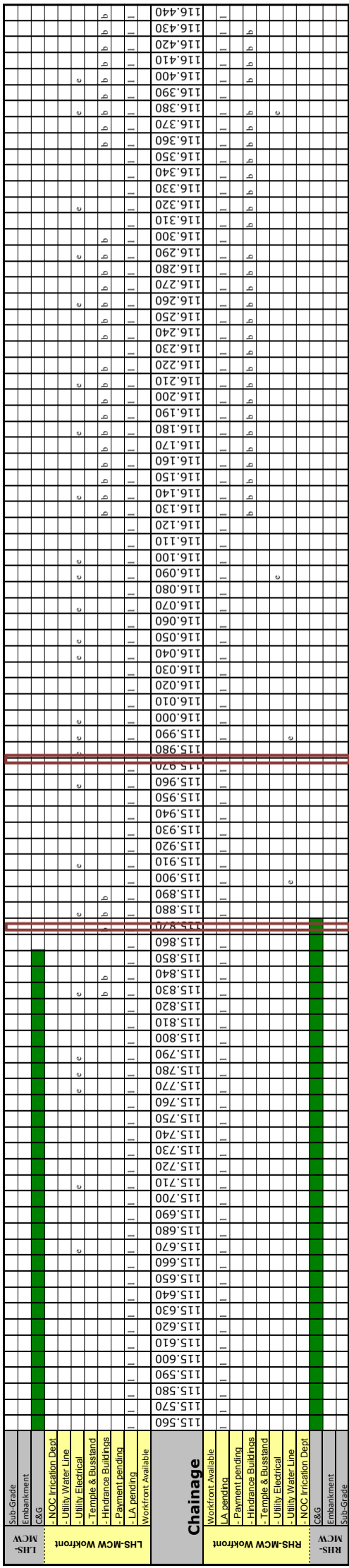
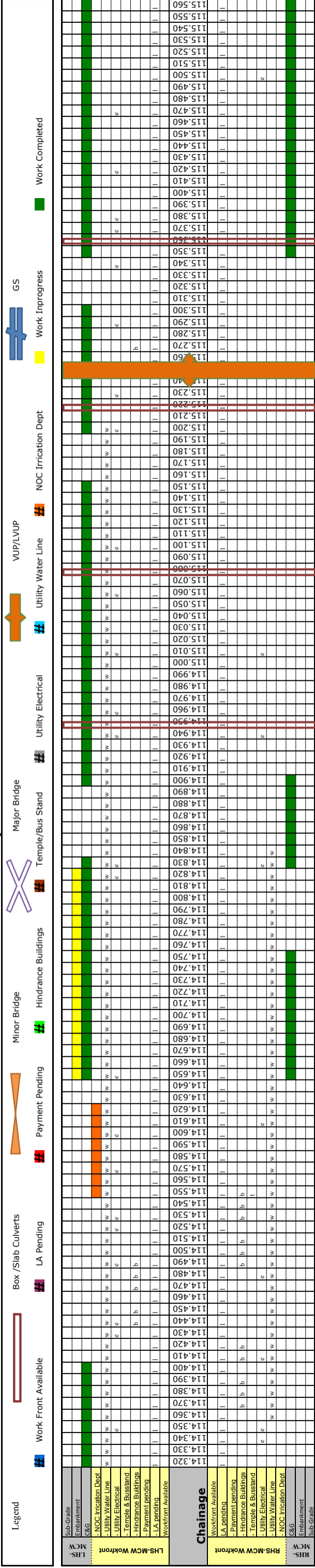
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Four Laning of Sethiyahopu - Cholopuram from Km.65.960 to Km.116.440 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode

Sethiyahopu - Cholopuram Road Projects

Strip Plan on 31-01-2019



**SETHIAHOPI CHOLOPURAM PROJECT -
STATUS OF BOX CULVERTS ON EXISTING ROAD**

Status Upto	Completed											In Progress									
	Sr. No.	As Approved by IE	Design Chainage As per CA	Number and Length of Spans (m)	Remarks	Type of Structure	Protection Work	Slab	Wall	Raft	PCC	Granular Filling	Excavation	Excavation	Granular Filling	PCC	Raft	Wall	Slab	Protection Work	
31.01.2019																					
	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+766	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	PIPE CULVERT														
	13	90+640	90.637	EXISTING	1 x 1.20m	Reconstruction	PIPE 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	PIPE 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	PIPE 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+851	101.851	EXISTING	1 x 1.5m x 1.5m	Repair & Reconstruction	BOX CULVERT														
	27	103+220	103.214	EXISTING	1 x 4.0m x 2.5m	Repair & Reconstruction	BOX CULVERT														
	28	104+197	104.190	EXISTING	1 x 1.0m	Repair & Reconstruction	PIPE CULVERT														
	29	104+215	104.208	EXISTING	1 x 1.0m	Reconstruction	PIPE CULVERT														
	30	109+786	109.779	EXISTING	1 x 1.0m	Repair & Reconstruction	PIPE CULVERT														
	31	109+975	109.967	EXISTING	1 x 2.0m x 1.7m	Repair & Reconstruction	BOX CULVERT														
	32	110+167	110.160	EXISTING	2 x 1.0m	Repair & Reconstruction	PIPE CULVERT														
	33	110+795	110.785	EXISTING	1 x 1.2m x 2.0m	Repair & Widening	BOX CULVERT														
	34	110+980	110.971	EXISTING	1 x 1.5m x 2.0m	Repair & Reconstruction	BOX CULVERT														
	35	113+897	113.885	EXISTING	1 x 1.0m	Repair & Widening	PIPE CULVERT														
	36	114+313	114.300	EXISTING	1 x 1.0m	Repair & Widening	PIPE CULVERT														
	37	114+703	114.703	EXISTING			PIPE CULVERT														
	38	114+954	114.952	EXISTING	1 x 1.0m	Repair & Reconstruction	PIPE CULVERT														
	39	115+097	115.087	EXISTING	2 x 1.0m	Repair & Reconstruction	PIPE CULVERT														
	40	115+232	115.221	EXISTING	1 x 2.0m x 2.0m	Repair & Reconstruction	BOX CULVERT														
	41	115+381	115.368	EXISTING	1 x 2.0m	Repair & Reconstruction	BOX CULVERT														
	42	115+884	115.872	EXISTING	2 x 1.0m	Repair & Widening	PIPE CULVERT														
	43	115+978	115.978	EXISTING	1 x 2.0m x 2.0m	Repair & Widening	BOX CULVERT														

SETHIAHOPI CHOLOPURAM PROJECT - STATUS OF BOX CULVERTS ON BYPASS																
Status Upto	31.01.2019	Completed					In Progress									
		Protection Work	Slab	Wall	Raft	PCC	Granular Filling	Excavation	Excavation	Granular Filling	Protection Work					
Sr. No.	As Approved by IE	Design Chainage As per CA	Number and Length of Spans (m)	Type of Structure	Slab	Wall	Raft	PCC	Granular Filling	Excavation	Slab	Wall	Raft	PCC	Granular Filling	Excavation
1	66+357	66.383	1 x 3.0m x 2.0m	BOX CULVERT												
2	67+068	67.068	1 x 3.0m x 2.0m	BOX CULVERT												
3	69+357	69.357	1 x 2.0m x 2.0m	BOX CULVERT												
4	72+570	72.578	1 x 3.0m x 2.0m	BOX CULVERT												
5	73+755	73.755	1x1.2.0mx2.0m	PIPE CULVERT												
6	104+622	104.618	1 x 2.0m x 2.0m	BOX CULVERT												
7	104+998	104.992	1 x 4.0m x 2.0m	BOX CULVERT												
8	105+440	105.440	1 x 2.0m x 2.0m	BOX CULVERT												
9	105+536	105.525	1 x 2.0m x 2.0m	BOX CULVERT												
10	106+442	106.432	1 x 2.0m x 2.0m	BOX CULVERT												
11	108+002	107.994	1 x 3.0m x 2.0m	BOX CULVERT												
12	108+080	108.070	1 x 4.0m x 2.0m	BOX CULVERT												
13	108+225	108.225	1 x 3.0m x 2.0m	BOX CULVERT												
14	108+345	108.334	1 x 3.0m x 2.0m	BOX CULVERT												
15	108+441	108.441	1 x 3.0m x 2.0m	BOX CULVERT												
16	108+540	108.500	1 x 2.0m x 2.0m	BOX CULVERT												
17	108+767	108.767	1 x 4.0m x 2.0m	BOX CULVERT												
18	111+205	111.196	1 x 1.0m	PIPE CULVERT												
19	111+452	111.452	BYPASS	PIPE CULVERT												

SETHIYAHOPU CHOLOPURAM PROJECT - STATUS OF MNB-BOX										Completed						In Progress					
Status Upto	31.01.2019									LHS						RHS					
Sr. No.	As Approved by IE	Design Chainage As per CA	Number and Length of Spans (m)	Type of Structure	Protection Work	Slab	Wall	Raft	PCC	Granular Filling	Excavation	Excavation	Granular Filling	PCC	Raft	Wall	Slab	Protection Work			
1	79+716	79.715	1 x 12.50m	MNBB	EXISTING																
2	79+795	79.795	2 x 12.50m	MNBB	EXISTING																
3	82+007	82.006	2 x 12.50m	MNBB	EXISTING																
4	85+144	85.144	2 x 12.50m	MNBB	EXISTING																
5	85+435	85.432	1 x 12.50m	MNBB	EXISTING																
6	88+513	88.513	1 x 12.50m	MNBB	EXISTING																
7	91+164	91.165	2 x 12.50m	MNBB	EXISTING																
8	92+343	92.342	1 x 12.50m	MNBB	EXISTING																
9	101+101	101.100		MNBB	EXISTING																
10	109+195	109.208	2 x 12.5m	MNBB	EXISTING																
11	66+757	66.730	2 x 12.5m	MNBB	BYPASS																
12	68+644	68.650	2 x 12.5m	MNBB	BYPASS																
13	74+173	74.175	2 x 12.5m	MNBB	BYPASS																
14	74+605	74.600	2 x 12.5m	MNBB	BYPASS																
15	105+915	105.915	2 x 12.5m	MNBB	BYPASS																
16	109+090	109.088	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	113+100	113.100	2 x 12.5m	MNBB	BYPASS																
21	113+505	113.505	2 x 12.5m	MNBB	BYPASS																

SETHIYAHOPU CHOLOPURAM PROJECT - STATUS OF LVUP							Completed					In Progress					
Status Upto 31.01.2019							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 + 650	1X10.5	LVUP	BYPASS													

SETHIAHOPU CHOLOPURAM PROJECT - STATUS OF MNB (> 15m Span)		Completed							In Progress															
Status upto	31.01.2019	LHS							RHS															
SR.NO.	MNB at Chainage	Span						Crash Barrier	Slab	Girder Launching	Girder Casting	Piercap /Abtcap	Pier/Abt	Pile Cap	Pile	Crash Barrier	Slab	Girder Launching	Girder Casting	Piercap /Abtcap	Pier/Abt	Pile Cap	Pile	
1	70+185	2 x 20	BYPASS	A1																				
2	73+815	1 x 15	BYPASS	P1																				
				A2																				
3	84+725	1 x 15	EXISTING	A1																				
				A2																				
4	84+987	2 x 15	EXISTING	A1																				
				P1																				
				A2																				
5	112+807	1 x 25	BYPASS	A1																				
				A2																				

SETHIYAHOPU CHOLOPURAM PROJECT - STATUS OF MJB													
MJB at Chainage 66+530 (8x30) - BYPASS													
LHS/LSR						RHS/LSR						Completed	
Crash Barrier	Slab	Girder Launc hing	Girder Castin g	Pier Cap/A bt Cap	Pier/A bt	Pile Cap	Crash Barrier	Slab	Girder Launc hing	Girder Castin g	Pier Cap/A bt Cap	Pier/A bt	Pile Cap
A1													
P1													
P2													
P3													
P4													
P5													
P6													
P7													
A2													
MJB at Chainage 73+340 (9x30) - BYPASS													
LHS/LSR						RHS/LSR						Completed	
Crash Barrier	Slab	Girder Launc hing	Girder Castin g	Pier Cap/A bt Cap	Pier/A bt	Pile Cap	Crash Barrier	Slab	Girder Launc hing	Girder Castin g	Pier Cap/A bt Cap	Pier/A bt	Pile Cap
A1													
P1													
P2													
P3													
P4													
P5													
P6													
P7													
P8													
A2													

MJB at Chainage 99 + 583 (3x25) - EXISTING ROAD													
										Completed			
										In Progress			
LHS/LSR					RHS/LSR								
Crash Barrier	Slab	Girder Launc hing	Girder Castin g	Pier Cap/A bt Cap	Pier/A bt	Pile Cap	Pile	Pier/A bt	Pier Cap/A bt Cap	Girder Castin g	Girder Launc hing	Slab	Crash Barrier
A1													
P1													
P2													
A2													

MJB at Chainage 107 + 400 - BYPASS													
										Completed			
										In Progress			
LHS/LSR					RHS/LSR								
Crash Barrier	Slab	Girder Launc hing	Girder Castin g	Pier Cap/A bt Cap	Pier/A bt	Pile Cap	Pile	Pier/A bt	Pier Cap/A bt Cap	Girder Castin g	Girder Launc hing	Slab	Crash Barrier
A1													
P1													
P2													
P3													
P4													
P5													
P6													
P7													
P8													
P9													
P10													
P11													
P12													
P13													
P14													
P15													
P16													
P17													
P18													
P19													
A2													

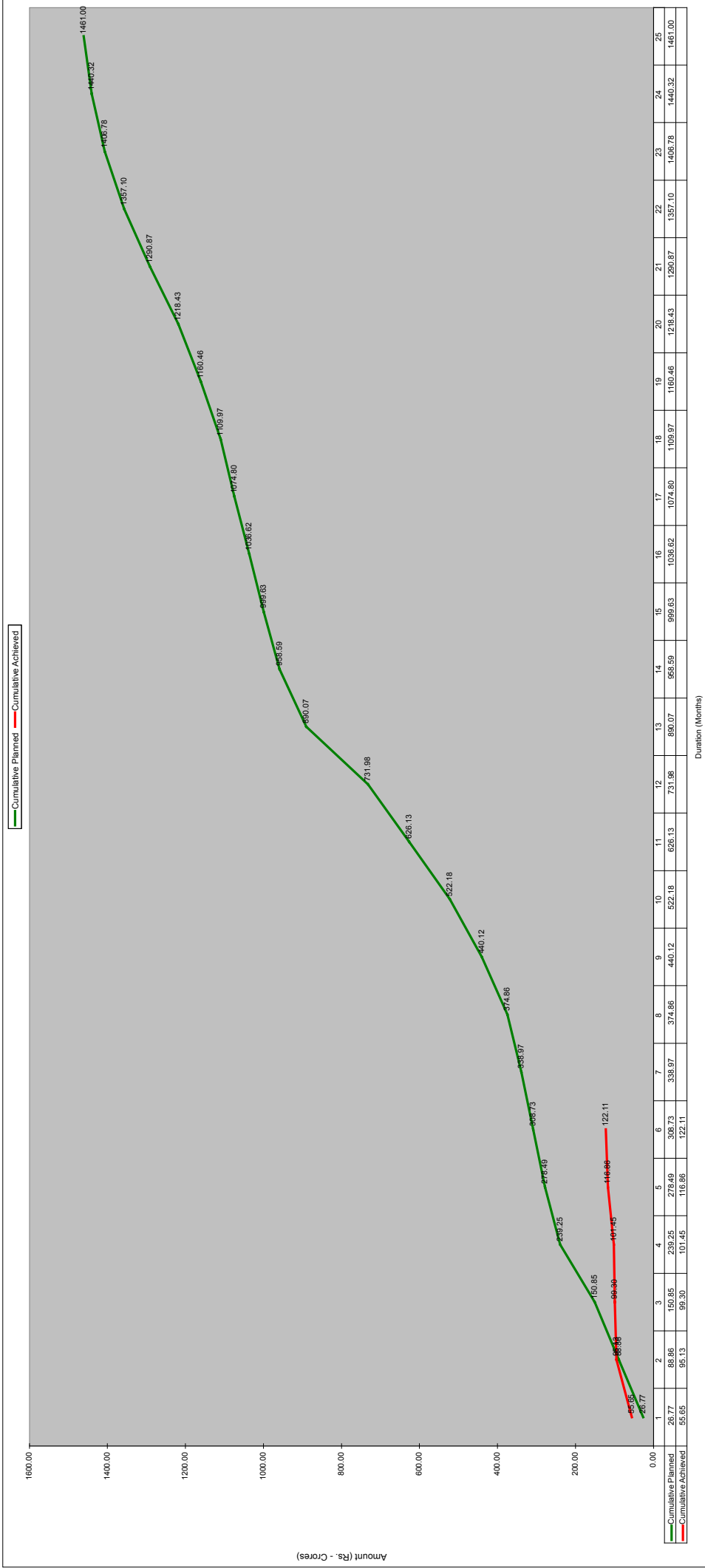
SETHIAHOPU CHOLOPURAM PROJECT - STATUS OF FLYOVER										Completed										In Progress									
Status upto 31.01.2019										LHS										RHS									
Sr.No.	FO at Chainage	Span				Crash	Slab	Girder	Launching	Girder	Castling	Piercap /Abtcap	Pier /Abt	Pile Cap	Pier /Abt	Piercap /Abtcap	Girder	Castling	Girder	Launching	Slab	Crash	Batter						
1	69+785	1x30	BYPASS	A1 A2																									
2	74+655	1x30	BYPASS+EXISTING	A1 A2																									
3	80+556	1x30	EXISTING	A1 A2																									
4	80+720	1x30	EXISTING	A1 A2																									
5	95+455	2x30	EXISTING	A1 P1 A2																									
6	98+950	2x30	EXISTING	A1 P1 A2																									
7	104+570	1x30	BYPASS	A1 A2																									
8	110+110	1x30	EXISTING	A1 A2																									

SETHYAHOPU CHOLOPURAM PROJECT - STATUS OF VUP										Completed								In Progress							
Status upto	31.01.2019									LHS								RHS							
SR.NO.	VUP at Chainage	Span				Crash Barrier	Slab	Girder Launching	Girder Casting	Piercap /Abcap	Pier /Abt	Pile Cap	PCC	Pile	Crash Barrier	Slab	Girder Launching	Girder Casting	Piercap /Abcap	Pier /Abt	Pile Cap	PCC	Pile		
1	72+545	1x25	BYPASS	A1																					
2	75+830	1x25	EXISTING	A1																					
3	86+677	1x25	EXISTING	A1																					
4	87+670	1x25	EXISTING	A1																					
5	90+580	1x25	EXISTING	A1																					
6	97+225	1x25	EXISTING	A1																					
7	101+910	1x25	EXISTING	A1																					
8	102+975	1x25	EXISTING	A1																					
9	106+318	1x25	BYPASS	A1																					
10	109+350	1x25	BYPASS	A1																					
11	111+235	1x25	BYPASS+EXIS TING	A1																					
12	113+550	1x25	BYPASS+EXIS TING	A1																					
13	115+258	1x25	EXISTING	A1																					

5. Financial Progress of Work

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

Four Laning of Sehiyahopu - Cholapuram from Km. 65.960 to 116.440 Section of NH45C in the state of Tamilnadu under NHDP-IV on Hybrid Annuity Mode
Fig. 03- Financial Progress (S-Curve)



Schedule	2019												2020												
	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Monthly Planned	26.77	62.10	61.99	88.40	39.24	30.24	30.24	35.88	65.26	82.06	103.95	105.85	158.09	68.52	41.04	36.99	38.18	35.17	50.49	57.96	72.45	66.23	49.67	33.54	20.68
Monthly Achieved	55.65	39.48	4.17	2.15	15.41	5.26																			
Cumulative Planned (%)	26.77	88.86	150.85	239.25	278.49	308.73	338.97	374.86	440.12	522.18	626.13	731.98	890.07	988.59	1036.62	1074.80	1109.97	1160.46	1218.43	1290.87	1357.10	1406.78	1440.32	1461.00	
Cumulative Achieved (%)	55.65	95.13	99.30	101.45	116.86	122.11																			
Monthly Planned (%)	1.8%	4.3%	4.2%	6.1%	2.7%	2.1%	2.1%	2.5%	4.5%	5.6%	7.1%	7.2%	10.8%	4.7%	2.8%	2.5%	2.6%	2.4%	3.5%	4.0%	5.0%	4.5%	3.4%	2.3%	1.4%
Monthly Achieved (%)	3.8%	2.7%	0.3%	0.1%	1.1%	0.4%																			
Cumulative Planned (%)	1.8%	6.1%	10.3%	16.4%	19.1%	21.1%	23.2%	25.7%	30.1%	35.7%	42.9%	50.1%	60.9%	65.6%	68.4%	71.0%	73.6%	76.0%	79.4%	83.4%	88.4%	92.9%	96.3%	98.6%	100.0%
Cumulative Achieved (%)	3.8%	6.5%	6.8%	6.9%	8.0%	8.4%																			
																									MPR - JANUARY 2019

6. Quality Control and Quality Assurance

6.1. List of Lab Equipment's

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

Table 6.1 - 1 QA/QC Lab Equipment at Annaikarai Lab		
Sl. NO	EQUIPEMENT LIST'S	QUANTITY
1	compression testing machine 2000 kN	1
2	cement mortar vibrating machine	1
3	AIV Apparatus	1
4	Electrronic weighing balance (50 kg)	1
5	Electrronic 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	spactula wooden handle	8
31	GI Tray ()	1
32	Iron tray	1
33	slump cone apparatus with tamping rod	2

Table 6.1 - 2 QA/QC Lab Equipment at Meensurity Lab		
Sl. NO	EQUIPEMENT LISTS	QUANTITY
1	Test Sieves Set 450mm internal diameter as per IS complete with lid & pan of hole sizes	
a	100mm	2 Nos
b	75mm	2 Nos
c	90mm	2 Nos
d	63mm	2 Nos
e	53mm	2 Nos
f	50mm	2 Nos
g	45mm	2 Nos
h	40mm	2 Nos
i	37.5mm	2 Nos
j	31.5mm	2 Nos
k	26.5mm	2 Nos
l	25mm	2 Nos
m	22.4mm	2 Nos
n	20.0mm	2 Nos
o	19.0mm	2 Nos
p	18mm	2 Nos
q	16mm	2 Nos
r	14mm	2 Nos
s	13.2mm	2 Nos
t	12.5mm	2 Nos
v	11.2mm	2 Nos
u	10mm	2 Nos
w	9.5mm	2 Nos
x	6.3mm	2 Nos
y	5.6mm	2 Nos
z	4.75mm	2 Nos
2	Test Sieves Set 200mm internal diameter (Brass frame & steel or brass wire cloth mesh) as per IS complete with lid & pan of sieve	
a	37.5mm	2 Nos
b	26.5mm	2 Nos
c	22.4mm	2 Nos
d	19mm	2 Nos
e	16mm	2 Nos
f	14mm	2 Nos
g	13.2mm	2 Nos
h	12.5	2 Nos
i	11.2mm	2 Nos
j	10mm	2 Nos
k	9.5mm	2 Nos
l	4.75mm	2 Nos
m	2.8mm	2 Nos
n	2.36mm	2 Nos
o	2.0mm	2 Nos

Sl. NO	EQUIPEMENT LIST'S	QUANTITY
p	1.80mm	2 Nos
q	1.7mm	2 Nos
r	1.4mm	2 Nos
s	1.18mm	2 Nos
t	1.0mm	3 Nos
v	0.600mm	2 Nos
u	0.425mm	2 Nos
w	0.355mm	2 Nos
x	0.300mm	2 Nos
y	0.180	2 Nos
z	0.090mm	2 Nos
aa	0.075mm	6 Nos
3	Measuring cylinder - Borosilicate glass - 100ML	40 Nos
4	Glass Thermometer 00c to 3000c	10 Nos
5	Flash filtering borosil glass - 2000ML	1 No
6	Flash filtering borosil glass - 5000ML	1 No
7	Round hot Plate	2 Nos
8	Measuring cylinder - Borosilicate glass - 1000ML	4 Nos
9	Measuring cylinder - Borosilicate glass - 250ML	4 Nos
10	Measuring cylinder- Borosilicate glass - 500ML	4 Nos
11	Beakers - glass borosil - low from cap 600ML	4 Nos
12	Compaction pedestal - 4"	4 Nos
13	Extractor plate - 6" dia for marshal test	1 No
14	Rammer marshal - 4"	4 Nos
15	Thermometer Infra red - MTX - 2	2 Nos
16	LE - Chatlier mould one set of six	2 Nos
17	Cone penetrometer	1 No
18	Los angeles abrasion testing machine	1 No
19	Marshal Mould - 4" dia	51 nos
20	G.I Tray - 1500*1500*100MM	4 Nos
21	Compaction pedestal - 6"	1 No
22	Marshal stability apparatus	1 No
23	Measuring cylinder- Plastic - 50ML	4 Nos
24	Measuring cylinder- Plastic - 250ML	2 Nos
25	Measuring cylinder- Plastic - 500ML	2 Nos
26	Measuring cylinder- Plastic - 1000ML	2 Nos
27	Vibrating machine with digital timer	1 No
28	Hot Air Oven - Thermostatic - NoN Digital - 45*45*45 CM	1 No
29	Hot Air Oven - Thermostatic - NoN Digital - 90*60*60 CM	1 No
30	Penetration cup - 55*70 MM	2 Nos
31	Penetration cup - 55*35MM	6 Nos
32	Standard Penetrometer - Automatic with digital timer	1 No
33	proctor compaction mould 100mm dia with 2.69kg Rammer mid steel	4 Nos
34	proctor compaction mould 150mm dia with 4.89kg Rammer mid steel	6 Nos
35	proving ring compression type 10kn	1 Nos

Sl. NO	EQUIPEMENT LIST'S	QUANTITY
36	proving ring compression type 2.5kn	1 Nos
37	proving ring compression type 25kn	1 Nos
38	proving ring compression type 50kn	1 Nos
39	pycnometer bottle	4 Nos
40	Rapid moisture meter-0-25%	4 Nos
41	Riffle sample divider -G.I-20mm , no of slot ;16	1 nos
42	Riffle sample divider -G.I-40mm , no of slot ;12	1 Nos
43	Pipette borosilicate glass - 10 ml	4 Nos
44	Sant equivalent value test apparuus with accessories	1 Nos
45	fileld density test app - sand replacement method small	2 Set
46	shrinkage limit set W/O mercury	1 Nos
47	Mercury 250 Gm	1 Nos
48	Buoyancy balance	1 Nos
49	Spatula 8"	10 Nos
50	Spatula 4"	10 Nos
51	Standard sand - grade III - Bag of 25 kg	2 Nos
52	Standard sand - grade I - Bag of 25 kg	2 Bag
53	Standard sand - grade II - Bag of 25 kg	2 Bag
54	stanard penetrometer - automatic with digital timer	1 Nos
55	Beaking head assembly - 6'	1 Nos
56	Bulk density 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 eith collar and base plate	60 Nos
62	Perforated plate - for CBR test AS per 1377	57 Nos
63	Spacer disc - for CBR test	4 nos
64	surcharge weight 2.5kg annular for cbr test	120 nos
65	cbr load frame electrical single speed	1 nos
66	chiesel 25mm wide *300mm long	20 nos
67	compression testing machine 2000kn digital manual pace	1 nos
68	cube moulds 7.06cm isi marked for cement	12
69	Concrete mixer - Tilting drum type	1 No
70	Constant temperature waterbath for marshal test with digital	2 Nos
71	Core drilling machine with disel engine	1 No
72	Electronic weighing balance - 10KG	1 No
73	Cube moulds - 10CM	18 Nos
74	Cube moulds - 5CM	12 Nos
75	Electronic weighing balance - 600Gms	2 Nos
76	Dial gauge 0.01*30mm	4 Nos
77	Electronic platform balance - 100KG	1 Nos
78	Electronic weighing balance - 30KG	2 Nos
79	Electronic weighing balance - 50KG	2 Nos
80	Electronic weighing balance - 5KG	1 No
81	Stop watch - digital	4 Nos

Sl. NO	EQUIPEMENT LIST'S	QUANTITY
82	Direct shear apparatus	1 No
83	Bottle wash plastic - 1000ML	4 Nos
84	Length gauge	1 No
85	Tray - G.I 300*300MM (12"*12")	6 Nos
86	Enamel tray -300*250*40 mm (10"*12")	9 Nos
87	Tray G.I -300*250*40 mm (10"*12")	9 Nos
88	Enamel tray -450*600*40 mm (18"*12")	12 Nos
89	Field density test app -sand replacement method medium	2 Set
90	Field density test app -sand replacement method Large	2 Set
91	Filter paper for marshal test 100mm dia	10 PKT
92	Filter paper for CBR test 15cm dia PKT of 100 circles	10 PKT
93	Flakiness gauge - M.S .Chrome / powder coated	1 Nos
94	Pensky marten flash piot apparatus	1 Nos
95	Flexural strength testing machine curve	1 Nos
96	French curve	2 Nos
97	Slump test aprpratus with tamping rod 16mm dia *600mm long	9 Nos
98	Thermometer dial 100mm dia * 300mm long 00 - 3000c	10 Nos
99	Tripod stand for CBR test	4 Nos
100	Gauging trowel 6" (150mm)	4 Nos
101	U tube glass viscometer	1 Nos
102	Saybolt viscometer with energy regulator	1 Nos
103	Vacuum pump -Singal Stage	1 Nos
104	Vibrating table -60*60 CM	1 Nos
105	Needle final setting time for vicat needle appratus	1 Nos
106	Needle Intial setting time for vicat needle appratus	1 Nos
107	Vicat Needle apparatus	2 Nos
108	Hammer with Handle - 1000 GM	4 Nos
109	Aggregate Impact testing machine	1 Nos
110	Beakers - glass borosil - low form cap ; 600ML	2 Nos
111	Beam mould -15*15*70 CM - Mild steel	17 Nos

6.2. Quality Control Test Summary

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

The detailed list of quality control test conducted up to the month of January - 2019 are tabulated below -

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

Monthly Progress Report : Summary of Quality Control Report : Month of January-2019

S. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month			Tests conducted during reporting month upto 31 st Jan-2019			Test conducted upto this month			
				No. of test Conducted EPC/Concessionaire	Passed	Failed	Nos. of test witnessed by IE	No. of test Conducted EPC/Concessionaire	Passed	Failed	Nos. of test witnessed by IE	No. of test Conducted EPC/Concessionaire	Passed
1.0 Tests on OGL													
1.1	Grain size analysis	IS:2720 (Part4)	1 test / 250 meters	289	289	0	71	0	0	0	289	0	71
1.2	Atterberg Limits	IS:2720 (Part5)	1 test / 250 meters	289	289	0	71	0	0	289	0	71	
1.3	Proctor	IS:2720 (Part8)	1 test / 250 meters	289	289	0	71	0	0	289	0	71	
1.4	Free Swell index	IS:2720 (Part40)	1 test / 250 meters	289	284	5	71	0	0	289	284	5	71
1.5	California bearing ratio	IS:2720 (Part16)	As required	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	104	104	0	71	17	17	121	0	88	
2.2	Atterberg Limits	IS:2720 (Part5)	1 test /1500 m ³	104	104	0	71	17	17	121	0	88	
2.3	Proctor	IS:2720 (Part8)	1 test /1500 m ³	104	104	0	71	17	17	121	0	88	
2.4	Free Swell index	IS:2720 (Part40)	1 test /1500 m ³	104	104	0	71	17	17	121	0	88	
2.5	California bearing ratio	IS:2720 (Part16)	1 test / 3000 m ³	0	0	0	0	0	0	0	0	0	
3.0 Cutting portion & Existing for EMB/SG (MoRT&H 305)													
3.1	Grain size analysis	IS:2720 (Part4)	1 test /1500 m ³	0	0	0	0	0	0	0	0	0	
3.2	Atterberg Limits	IS:2720 (Part5)	1 test /1500 m ³	0	0	0	0	0	0	0	0	0	
3.3	Proctor	IS:2720 (Part8)	1 test /1500 m ³	0	0	0	0	0	0	0	0	0	
3.4	Free Swell index	IS:2720 (Part40)	1 test /1500 m ³	0	0	0	0	0	0	0	0	0	
3.5	California bearing ratio	IS:2720 (Part16)	1 test / 3000 m ³	0	0	0	0	0	0	0	0	0	
4.0 FLYASH For Embankment													
4.1	Liquid Limit & Plastic limit	TABLE-1	1 test /1500 m ³	55	55	0	55	0	0	55	0	55	
4.2	Maximum Dry Density	Clause 5.2	1 test /1500 m ³	55	55	0	55	0	0	55	0	55	
5.0 Field Density Test MoRT&H 305													
5.1	Field density (OGL)	IS:2720 (Part28)	1 test /3000 sqm	481	469	12	112	36	36	517	505	12	130
5.2	EMB field density	IS:2720 (Part28)	1 test /3000 sqm	789	777	12	124	36	36	825	813	12	142
5.3	SG field density	IS:2720 (Part28)	1 test / 2000 sqm	0	0	0	0	0	0	0	0	0	0
5.4	Shoulder field density	IS:2720 (Part28)	1 test / 2000 sqm	0	0	0	0	0	0	0	0	0	0
6.0 Filter Media & Back filling MoRT&H 2500													
6.1	Gradation		As required	0	0	0	0	0	0	0	0	0	0
6.2	Backfilling field density		1 test /1000 m ³	0	0	0	0	0	0	0	0	0	0
6.3	RE Wall field density		As required	0	0	0	0	0	0	0	0	0	0

S. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month			Tests conducted during reporting month upto 31 st Jan-2019			Test conducted upto this month					
				No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos. of test witnessed by IE	No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos. of test witnessed by IE	No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos. of test witnessed by IE
7.0 Safe Bearing capacity of soil															
7.1	Free Swell index	IS:2720 (Part40)	As required	30	26	4	30	5	5	0	5	35	31	4	35
7.2	Grain size analysis	IS:2720 (Part4)	As required	30	30	0	30	5	5	0	5	35	35	0	35
7.3	Atterberg limits	IS:2720 (Part5)	As required	0	0	0	0	0	0	0	0	0	0	0	0
7.4	Proctor	IS:2720 (Part8)	As required	30	30	0	30	5	5	0	5	35	35	0	35
7.5	Direct shear Test	IS:2720 (Part13)	As required	30	23	7	30	5	5	0	5	35	28	7	35
7.6	Bearing Capacity / Plate Load Test	IS:6403 / IS 1888	As required	0	0	0	0	0	0	0	0	0	0	0	0
8.0 CTSB Mix Design/Site Frequency MoRT&H 403															
8.1	Gradation	Table 400-4	1 test/400m ³	0	0	0	0	0	0	0	0	0	0	0	0
8.2	Atterberg Limits	IS:2720 (Part5)	1 test/400m ³	0	0	0	0	0	0	0	0	0	0	0	0
8.3	Proctor	IS:2720 (Part8)	As required	0	0	0	0	0	0	0	0	0	0	0	0
8.4	CBR Test or unconfined compressive	IS:2720 (Part16)	As required	0	0	0	0	0	0	0	0	0	0	0	0
8.5	Quality of cement		Minimum 1 test/5 tons	0	0	0	0	0	0	0	0	0	0	0	0
8.6	Aggregate Impact value	IS:2386 Part-4	As required	0	0	0	0	0	0	0	0	0	0	0	0
8.7	Field Density	IS:2720 (Part28)	1 set of 2 Test per	0	0	0	0	0	0	0	0	0	0	0	0
9.0 Granular Bedding Material (For Structures-Ground Improvement)- Mix Design															
9.1	Gradation	Table 400-1	1 test/400m ³	0	0	0	0	0	0	0	0	0	0	0	0
9.2	Atterberg Limits	IS:2720 (Part5)	1 test/400 m ³	0	0	0	0	0	0	0	0	0	0	0	0
9.3	Proctor	IS:2720 (Part8)	As required	0	0	0	0	0	0	0	0	0	0	0	0
9.4	CBR Test	IS:2720 (Part16)	As required	0	0	0	0	0	0	0	0	0	0	0	0
9.5	Aggregate Impact value	IS:2386 Part-4	As required	0	0	0	0	0	0	0	0	0	0	0	0
9.6	Field Density	IS:2720 (Part28)	1 Test per 1000Sq.m	0	0	0	0	0	0	0	0	0	0	0	0
10.0 Granular Bedding Material (For Structures-Ground Improvement)- Site Frequency															
10.1	Gradation	Table 400-1	1 test/400m ³	0	3	0	3	0	0	0	0	0	3	0	3
10.2	Atterberg Limits	IS:2720 (Part5)	1 test/400 m ³	0	3	0	3	0	0	0	0	0	3	0	3
10.3	Proctor	IS:2720 (Part8)	As required	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
10.5	Aggregate Impact value	IS:2386 Part-4	As required	0	0	0	0	0	0	0	0	0	0	0	0
10.6	Field Density	IS:2720 (Part28)	1 Test per 1000Sq.m	90	90	0	21	0	0	0	0	90	90	0	21

S. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month			Tests conducted during reporting month upto 31 st Jan-2019			Test conducted upto this month			
				No. of test Conducted EPC/ Concessionaire	Passed	Failed	Nos. of test witnessed by IE	No. of test Conducted EPC/ Concessionaire	Passed	Failed	No. of test Conducted EPC/ Concessionaire	Passed	Failed
11.0 WMM Mix Design													
11.1	Combined Gradation	Table 400-3	1 test/200m ³	0	0	0	0	0	0	0	0	0	
11.2	Aggregate Impact Value	IS:2386 Part-4	1 test/ 1000 m ³	0	0	0	0	0	0	0	0	0	
11.3	Flakiness & Elongation index	IS:2386 Part1	1 test/ 500 m ³	0	0	0	0	0	0	0	0	0	
11.4	Atterberg Limits	IS:2720 (Part5)	1 test/200m ³	0	0	0	0	0	0	0	0	0	
11.5	Water absorption	IS:2386 Part2	As required	0	0	0	0	0	0	0	0	0	
11.6	Proctor	IS:2720 (Part8)	As required	0	0	0	0	0	0	0	0	0	
11.7	CBR	IS:2720 (Part16)	As required	0	0	0	0	0	0	0	0	0	
11.8	Field Density	IS:2720 (Part28)	1 set Test per 1000Sq.m / 3 pits	0	0	0	0	0	0	0	0	0	
12.0 WMM Site Frequency MoRT&H 406													
12.1	Combined Gradation	Table 400-3	1 test/200m ³	0	0	0	0	0	0	0	0	0	
12.2	Aggregate Impact Value	IS:2386 Part-4	1 test/ 1000 m ³	0	0	0	0	0	0	0	0	0	
12.3	Flakiness & Elongation index	IS:2386 Part1	1 test/ 500 m ³	0	0	0	0	0	0	0	0	0	
12.4	Atterberg Limits	IS:2720 (Part5)	1 test/200m ³	0	0	0	0	0	0	0	0	0	
12.5	Water absorption	IS:2386 Part2	As required	0	0	0	0	0	0	0	0	0	
12.6	Proctor	IS:2720 (Part8)	As required	0	0	0	0	0	0	0	0	0	
12.7	CBR	IS:2720 (Part16)	As required	0	0	0	0	0	0	0	0	0	
12.8	Field Density	IS:2720 (Part28)	1 set Test per 1000Sq.m	0	0	0	0	0	0	0	0	0	
13.0 Prime Coat													
13.1	Rate of Spread of Binder		Three tests per day	0	0	0	0	0	0	0	0	0	
14.0 Tack Coat													
14.1	Rate of Spread of Binder		Three tests per day	0	0	0	0	0	0	0	0	0	
15.0 Fine Aggregate MoRT&H 1008													
15.1	Grade / Sieve analysis	IS:2386 (Part1)	1 test per day	142	142	0	75	50	50	0	192	192	0
15.2	Specific gravity & Water absorption	IS:2386 (Part2)	As required	14	14	0	13	2	2	0	16	16	0
15.3	Fineness Modulus	MORT&H Sec. 1008&383	1 test per day	0	0	0	0	50	50	0	50	50	0
15.4	Alkali aggregate reactivity test	IS:2386 (Part-7)IS : 456	1 test per source	0	0	0	0	0	0	0	0	0	0
15.5	Deleterious material/silt	IS:2386 (Part2)	1 test per source	0	0	0	0	0	0	0	0	0	0

S. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month				Tests conducted during reporting month upto 31 st Jan-2019				Test conducted upto this month			
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16.0 Coarse Aggregate MoRT&H 1007															
16.1	Gradation	IS:2386 (Part2)	1 test per day	142	142	0	85	50	50	0	20	192	192	0	105
16.2	Specific gravity & Water absorption	IS:2386 (Part3)	As required	14	14	0	13	4	4	0	2	18	18	0	15
16.3	Aggregate Impact Value	IS:2386 (Part4)	1 test / each source	65	65	0	44	14	14	0	7	79	79	0	51
16.4	Flakiness index	IS:2386 (Part1)	1 test / each source	52	52	0	37	14	14	0	7	66	66	0	44
16.5	Soundness	IS:2386 (Part5)	As required	0	0	0	0	0	0	0	0	0	0	0	0
16.6	Alkali aggregate reactivity test	IS:2386 (Part-7)IS : 456	1 test per source	0	0	0	0	0	0	0	0	0	0	0	0
16.7	Deleterious constituents	IS:2386 (Part2)	1 test per source	0	0	0	0	0	0	0	0	0	0	0	0
16.8	Petrographic Examination	IS:2386 (Part8)	1 test per source	0	0	0	0	0	0	0	0	0	0	0	0
17.0 Cement MoRT&H 1006															
17.1	Chemical test / Physical test	IS:4031,4032	1 test per source	4	4	0	4	0	0	0	0	4	4	0	4
17.2	Fineness	IS:4031 (Part1)	Every batch	94	94	0	94	12	12	0	4	106	106	0	98
17.3	Normal Consistency	IS:4031 (Part4)	Every batch	94	94	0	94	12	12	0	4	106	106	0	98
17.4	Initial, Final setting time	IS:4031 (Part5)	Every batch	94	94	0	94	12	12	0	4	106	106	0	98
17.5	Soundness of Cement	IS:4031 (Part3)	Every batch	73	73	0	73	5	5	0	2	78	78	0	75
17.6	Compressive Strength-set	IS:4031 (Part6)													
	3 days		1 test per Lot	62	62	0	62	13	13	0	2	75	75	0	64
	7 days		1 test per Lot	59	59	0	59	13	13	0	3	72	72	0	62
	28 days		1 test per Lot	46	46	0	46	15	15	0	7	61	61	0	53
18.0 Water															
18.1	Chemical test	IS 2386	1 test per source	2	2	0	2	0	0	0	0	2	2	0	2
19.0 Admixture															
19.1	Physical Properties	IS 9103	1 test per Lot	1	1	0	1	1	1	0	1	2	2	0	2
19.2	Chemical Test	IS 9103	1 test per source	1	1	0	1	1	1	0	1	2	2	0	2
20.0 Steel															
20.1	8 mm Dia	IS 1786	Physical Properties & Chemical Test 2 test per Lot	2	2	0	2	0	0	0	0	2	2	0	2
20.2	10 mm Dia	IS 1786		2	2	0	2	3	3	0	3	5	5	0	5
20.3	12 mm Dia	IS 1786		2	2	0	2	3	3	0	3	5	5	0	5
20.4	16 mm Dia	IS 1786		2	2	0	2	3	3	0	3	5	5	0	5
20.5	20 mm Dia	IS 1786		2	2	0	2	3	3	0	3	5	5	0	5
20.6	25 mm Dia	IS 1786		1	1	0	1	0	0	0	0	1	1	0	1
20.7	32 mm Dia	IS 1786		2	2	0	2	0	0	0	0	2	2	0	2

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21.(A) Concrete Cube Strength															
M15 PCC															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700	74	74	0	74	14	11	0	2	88	85	0	76
	28Days Compressive Strength			115	115	0	115	21	21	0	11	136	136	0	126
M20 PCC															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700	0	0	0	0	0	0	0	0	0	0	0	0
	28Days Compressive Strength			0	0	0	0	0	0	0	0	0	0	0	0
M25 RCC															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700	0	0	0	0	0	0	0	0	0	0	0	0
	28Days Compressive Strength			0	0	0	0	0	0	0	0	0	0	0	0
M30 RCC															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700	47	47	0	47	17	17	0	5	64	64	0	52
	28Days Compressive Strength			58	58	0	58	69	69	0	28	127	127	0	86
M30 RCC PUMPABLE															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700	0	0	0	0	0	0	0	0	0	0	0	0
	28Days Compressive Strength			0	0	0	0	0	0	0	0	0	0	0	0
M35 RCC															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700	83	83	0	83	3	3	0	1	86	86	0	84
	28Days Compressive Strength			129	129	0	129	13	13	0	5	142	142	0	134
M35 RCC PILING															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700	134	134	0	134	28	28	0	18	162	162	0	152
	28Days Compressive Strength			278	278	0	278	51	45	0	26	329	323	0	304
M35 RCC PUMPABLE															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700	13	13	0	13	24	24	0	12	37	37	0	25
	28Days Compressive Strength			11	11	0	11	64	64	0	32	75	75	0	43
M35 RE BLOCK															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700	56	56	0	56	5	5	0	3	61	61	0	59
	28Days Compressive Strength			163	163	0	163	12	12	0	4	175	175	0	167
M40 RCC															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700	3	3	0	3	0	0	0	0	3	3	0	3
	28Days Compressive Strength			0	0	0	0	0	0	0	0	0	0	0	0
M40 PILE															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700	54	54	0	54	0	0	0	0	54	54	0	54
	28Days Compressive Strength			114	114	0	114	0	0	0	0	114	114	0	114
M45 RCC															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700	3	3	0	3	0	0	0	0	3	3	0	3
	28Days Compressive Strength			0	0	0	0	0	0	0	0	0	0	0	0

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	M50 RCC			3	3	0	3	0	0	0	0	0	3	0	0	3
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700	0	0	0	0	0	0	0	0	0	0	0	0	0
	28Days Compressive Strength															

7. Weather Report

DATE	Temperature (°C)		Rainfall in mm	Humidity in %		Remarks
	Min	Max		Min	Max	
01-01-2019	24.7	31.5	0.00	50	78	Sunny
02-01-2019	21.4	31.5	0.00	48	77	Sunny
03-01-2019	21.3	31.8	0.00	47	84	Sunny
04-01-2019	21.9	31.8	0.00	47	83	Sunny
05-01-2019	23.4	31.2	0.00	51	94	Sunny
06-01-2019	21.8	30.8	0.00	49	84	Sunny
07-01-2019	21.6	32.8	0.00	48	85	Sunny
08-01-2019	22.1	32.8	0.00	48	90	Sunny
09-01-2019	20.9	32.8	0.00	37	87	Sunny
10-01-2019	21	32.8	0.00	37	85	Sunny
11-01-2019	21.9	31.1	0.00	52	87	Sunny
12-01-2019	21.5	31.4	0.00	45	87	Sunny
13-01-2019	22.2	31.4	0.00	45	85	Sunny
14-01-2019	22.5	31.2	0.00	46	84	Sunny
15-01-2019	21.9	32.4	0.00	43	85	Sunny
16-01-2019	22.2	31.2	0.00	45	87	Sunny
17-01-2019	21	32.8	0.00	37	85	Sunny
18-01-2019	21.8	32.9	0.00	45	89	Sunny
19-01-2019	22.1	32.9	0.00	45	84	Sunny
20-01-2019	21.3	32.9	0.00	45	86	Sunny
21-01-2019	20.8	32.9	0.00	45	86	Sunny
22-01-2019	21.2	34	0.00	42	86	Sunny
23-01-2019	22.8	34.0	0.00	42	87	Sunny
24-01-2019	23	34.0	0.00	42	90	Sunny
25-01-2019	24.3	33.9	0.00	41	89	Sunny
26-01-2019	23.4	31.5	0.00	48	87	Sunny
27-01-2019	21.8	33.5	0.00	48	82	Sunny
28-01-2019	21.6	32.7	0.00	49	83	Sunny
29-01-2019	22.1	32.4	0.00	48	83	Sunny
30-01-2019	20.9	32.9	0.00	47	88	Sunny
31-01-2019	21	32.7	0.00	46	89	Sunny

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

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



9. Support required from NHAI

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

1. Pending Disbursement of Payment to the beneficiaries from CALA towards Land and Buildings.
2. Payment of Supervision charges for TNEB for relocation of Electrical lines in Thanjavur District and Ariyalur District.
3. Relocation of High Tension transmission tower lines.
4. Change of Scope notice required for relocation of VUP @ Km 113+500 due to existence of electrical substation of TANGENDCO at Km:113+700 to 113+800(RHS).
5. NOC from PWD/WRO for commencement construction activities of Irrigation Structures.
6. Permission from Local Authorities for procurement of Borrow Earth from Irrigation Tanks.
7. In sufficient Right of Way with respect to the land handed over as per Clause 10.3.1 of Concession Agreement at the time of Signing of Joint Memorandum.
8. Payment disbursement and necessary clearances required for removal of religious and Govt buildings.
9. Necessary permission required for removal or relocation of irrigation Sluices.
10. Permission required for rerouting of irrigation channels.

Table 10.1. Details of Important Events

Sl. No	Date of Events	Description of Events	Remarks
1)	01-01-2019 to 15-01-2019	Swachhtata Pakhwada activities	
2)	10-01-2019	Meeting Held at Regional office Madurai	
3)	26-01-2019	Republic day	

Organization Chart

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

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

Figure 4 - ORGANIZATION CHART - EPC Team

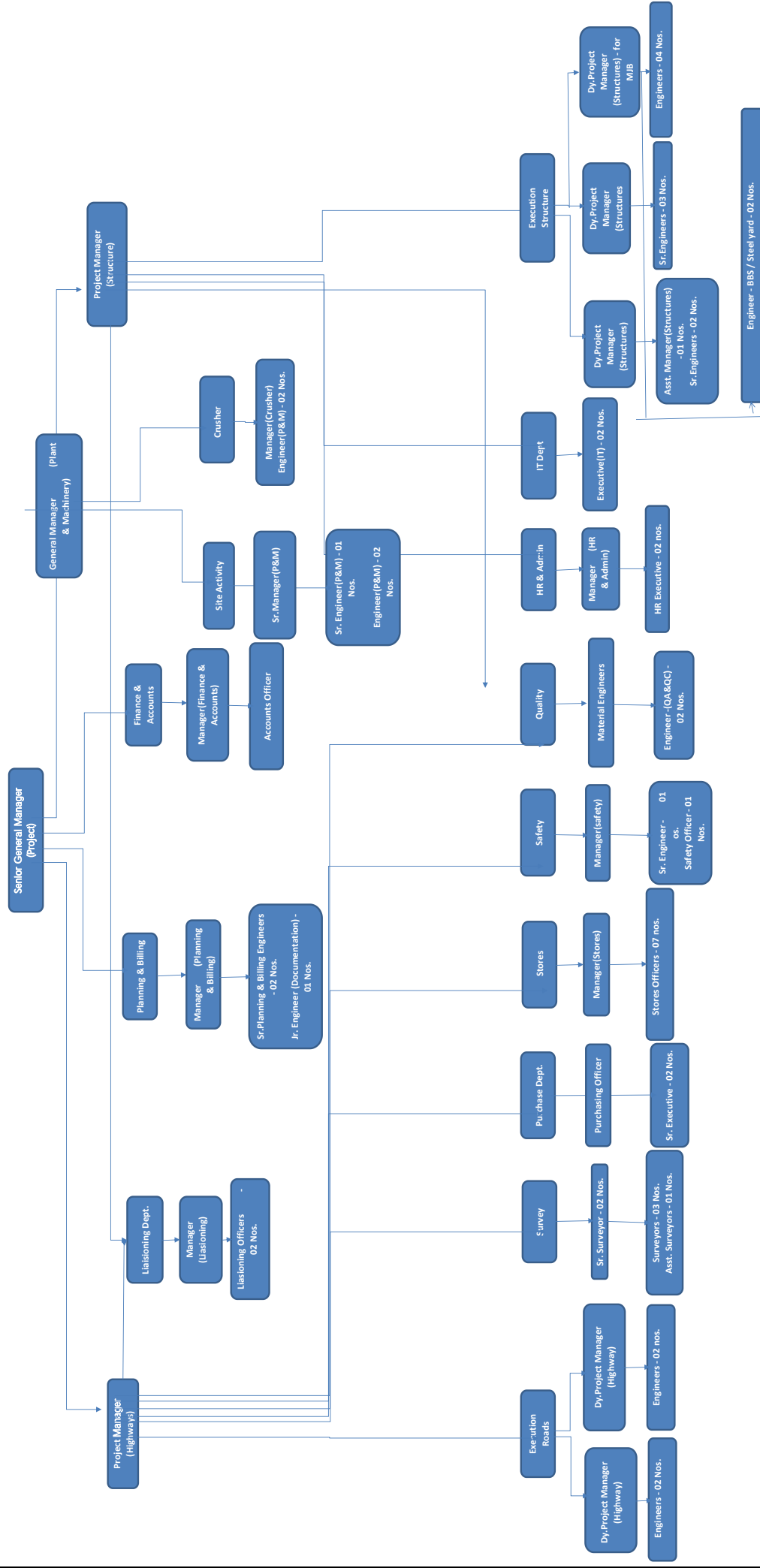
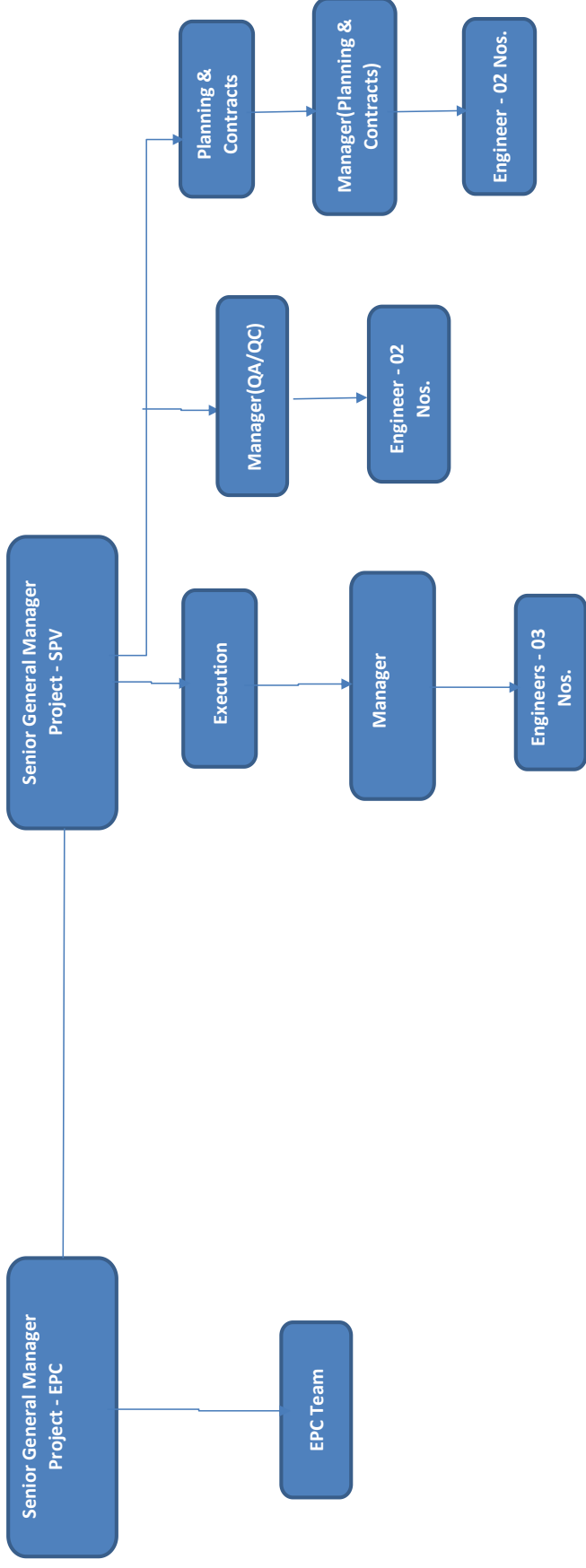


Figure 5 - ORGANIZATION CHART - SPV Team



12. List of Plants, Machinery and Equipment's

Table 12.1 - List of Plants, Machinery and Equipment's				
S.No	Name of the Machinery	Capacity / Model	Mobilized in Nos.	Remarks
1	Grader	120K2	9	
2	Excavator	JCB-220	9	
3	Dozer		3	
4	Soil Compactor	HAMM 311	8	
5	Backhoe Loader	JCB 3DX	7	
6	Tipper	Bharat Benz- 3128C	65	
7	Transit Mixture	2523C	8	
8	Loader	455 ZX	4	
9	Trailer		2	
10	Water Tanker		5	
11	Boom Placer	S-36	1	
12	Tractor	5036 D V-2	2	
13	Mobile Service Van		1	
14	Tower Light	AJASKY	3	
11	Hydra Crane		2	
12	Asphalt Batch Mix Plant		1	Erection in Progress
13	Wet Mix Plant	250 TPH	1	Erection in Progress
14	Concrete Batch Mix Plant	45 cum	1	
15	Concrete Batch Mix Plant	60 cum	1	
16	Crusher Plant (3 Stage)	250 TPH	1	
17	Weigh Bridge for Camp 100MT	100MT	3	
18	Weigh Bridge for Crusher 100MT	100MT	2	
19	Genset Base Camp	25KV	1	
20	Genset 63KVA Boiler	63KVA Boile	1	
21	Genset (H.M & B/P)	82.50KV	3	
22	Genset (B/P-CP-45)	125KV	2	
23	Genset Concrete Plant-180 KVA	180 KVA	1	
24	Genset (Crusher)	1010KVA	3	

13. Change of Scope Proposals

Table 13.1 - Status of Change of Scope Proposals

Sl. No	Proposal Details	Date of Proposal	Current Status	COS Amount	Actual Date of Approval
1	Replacement of Pipe Culvert with box Culvert	25.04.2018	Approved in-principle by Authority. Preparation of Details Quantities in proper order is in Progress.	NA	NA
2	Relocation of VUP from Km. 113+550 to Km. 113+273	13.11.2018	The proposal for Shifting of VUP at Km. 113+550 had been submitted to IE/Authority through letter no. PSCHPL/HO/IE/101/2018 dated 13.11.2018 and awaiting for the change of scope Notice from IE/ Authority.	NA	NA

14. Details of Correspondences

The following tables list out the correspondences between the parties.

Table 14.1. - Concessionaire to NHAI

Table 14.2. - NHAI to Concessionaire

Table 14.3. - Concessionaire to Independent Engineer

Table 14.4. - Independent Engineer to Concessionaire

TABLE 14.1 - CORRESPONDANCE - CONCESSIONAIRE TO NHAI

S.No	Date	Letter No	Subject	Remarks
1	08.01.2019	PSCHPL/SCP/NHAI/2019/242	Hindrance	Obstruction of Irrigation structures within the proposed carriageway
2	09.01.2019	PSCHPL/SCP/NHAI/2019/245	Submission of Video recording (Video No3)	as per clause 13.6 of CA
3	11.01.2019	PSCHPL/SCP/NHAI/2019/247	Submission of GST payment auditor certificate for the month of November 2018 and request for releasing of GST with held amount	
4	22.01.2019	PSCHPL/SCP/NHAI/2019/252	RA Bill NO-03 for shifting of Electrical Utility by M/s ARS Electrical - Payment released details	
5	29.01.2019	PSCHPL/SCP/NHAI/2019/260	Land Acquired	Handing over of Possession of Land

TABLE 14.2 - CORRESPONDANCE - NHAI TO CONCESSIONAIRE

S.No	Date	Letter No	Subject	Remarks
1	04.01.2019	NHAI/PIU/Thanj/11019/51/2017/041	Details of payment made for GST reimbursement	
2	09.01.2019	NHAI/PIU/Thanj/11019/52/2017/084	Independent Consultancy Services for the month of November 2018 50% Claim	
3	23.01.2019	NHAI/PIU/Thanj/11019/52/2017/169	Filing of Annual return by Contractor through shram Suvidha Portal	
4	25.01.2019	NHAI/PIU/Thanj/11019/52/2017/211	Execution of Change of Scope/Variation Works with prior approval of competent Authority	
5	28.01.2019	NHAI/PIU/Thanj/11019/51/2017/229	Details of Payment made for Utility Shifting	

TABLE 14.3 - CORRESPONDANCE - CONCESSIONAIRE TO INDEPENDENT ENGINEER

S.No	Date	Letter No	Subject	Remarks
1	02.01.2019	PSCHPL/SCP/IE/2019/238	Submission of Credential for conducting Third Party Tests from Ms Annoor Test Labs Engg.Services Pvt.Ltd and Ms Allumera Engg.Solutions Pvt.Ltd	
2	02.01.2019	PSCHPL/SCP/IE/2019/239	Submission of Concrete Mix Design Reports for M-40, M-45, M-50- Ultratech OPC 53 Grade	
3	03.01.2019	PSCHPL/SCP/IE/2019/240	Detailed design and shop drawing of POT/PTFE Bearing to be used in GSI	
4	03.01.2019	PSCHPL/SCP/IE/2019/241	Submission of Monthly Progress report for the month of December 2018	
5	08.01.2019	PSCHPL/SCP/IE/2019/243	Submission of design and drawings for Minor bridge at Km 70 +190	
6	12.01.2019	PSCHPL/SCP/IE/2019/248	Submission of GFC drawings of Major Bridge at Km 99 +595	
7	12.01.2019	PSCHPL/SCP/IE/2019/249	Submission of GFC Drawings of Minor Bridge at Km 92 +342	
8	18.01.2019	PSCHPL/SCP/IE/2019/250	Procurement of bitumen (VG-40) from Tiki Tar Industries (Baroda) Limited	
9	18.01.2019	PSCHPL/SCP/IE/2019/251	Procurement of bitumen Emulsion from Tiki Tar Industries (Baroda) Limited	
10	22.01.2019	PSCHPL/SCP/IE/2019/253	Procurement of HT Strands from Ms Kataria Industries Pvt Ltd	
11	22.01.2019	PSCHPL/SCP/IE/2019/254	Submission of Third Party Test Reports on Analysis of Water	
12	23.01.2019	PSCHPL/SCP/IE/2019/255	Submission of SBC Test Report for a Minor Bridge & Box Culvert	
13	25.01.2019	PSCHPL/SCP/IE/2019/256	Submission of drawings of 03 Nos. of Box Culverts	
14	25.01.2019	PSCHPL/SCP/IE/2019/258	Submission of Design and Drawings of Box culvert at Km. 110 + 795 - Request to issue the change of scope notice under Article 16 of Concession agreement	
15	25.01.2019	PSCHPL/SCP/IE/2019/259	Submission of GFC drawings of Box Culvert at Km72 + 565	
16	30.01.2019	PSCHPL/SCP/IE/2019/261	Submission of Drawings of 02 Nos. of Minor Bridges	

TABLE 14.4 - CORRESPONDANCE - INDEPENDENT ENGINEER TO CONCESSIONAIRE / NHAI

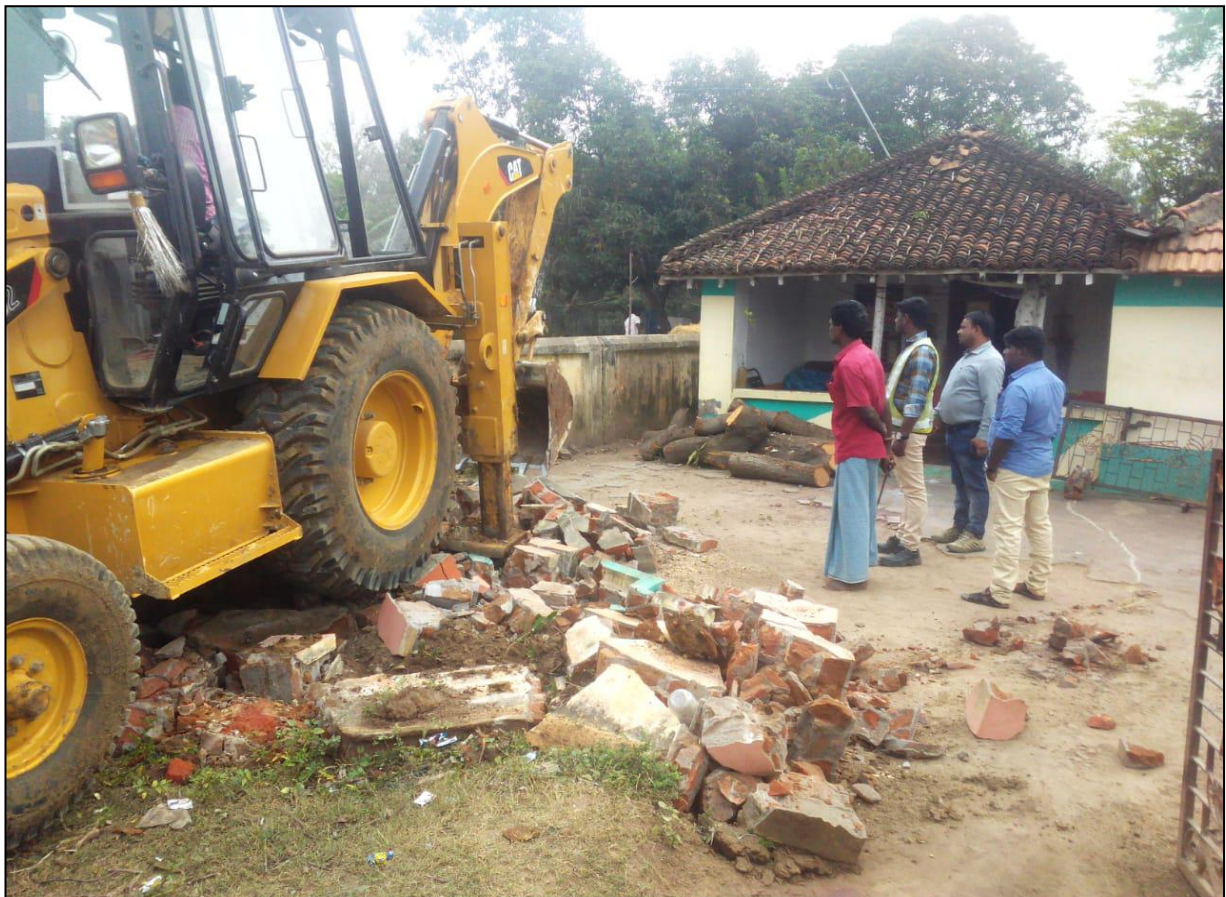
S.No	Date	Letter No	Subject	Remarks
1	02.01.2019	TES/IE/SCP/PIL/2019/190	Submission of Revised Structure Design and Drawing (R2) of Major Bridges at design Ch. 107 + 400.	
2	02.01.2019	TES/IE/SCP/PIL/2019/191	Source Approval for Ms Sanfield India LTD. Bhopal (POT-PTFE) Bearings	
3	07.01.2019	TES/IE/SCP/PIL/2019/196	Submission of Concrete Mix Design M-40 RCC (pumpable) & M-45 RCC (pumpable) with Ultratech OPC 53 Grade Cement	
4	09.01.2019	TES/IE/SCP/PIL/2019/197	Thirty party laboratory tests for all procured material	
5	12.01.2019	TES/IE/SCP/PIL/2019/200	Maintenance of Existing Project Highway	
6	12.01.2019	TES/IE/SCP/PIL/2019/200	Strengthening the incident management services-Change of Scope-Inprinciple approval accorded	
7	17.01.2019	TES/IE/SCP/PIL/2019/202	Submission of Monthly Progress Report for the month of December 2018	
8	18.01.2019	TES/IE/SCP/PIL/2019/205	Factory Inspection/Testing for M/s Sanfield India Ltd Bhopal (Elastomeric) Bearings	
9	19.01.2019	TES/IE/SCP/PIL/2019/206	Guidelines for Road/Pavement Marking	
10	19.01.2019	TES/IE/SCP/PIL/2019/207	Guide lines of Morth for Maintenance of Site records and Compliance of rules	
11	19.01.2019	TES/IE/SCP/PIL/2019/208	Submission of Staging Design and Drawings for Structures-Reminder-I	
12	25.01.2019	TES/IE/SCP/PIL/2019/209	Submission of GFC Drawings for Minor Bridge at Km 92 + 342	
13	25.01.2019	TES/IE/SCP/PIL/2019/210	Submission of GAD for 04 Nos of Proposed Minor Bridges for the concurrence of Tamilnadu PWD/WRO	
14	25.01.2019	TES/IE/SCP/PIL/2019/211	Workmanship of Structures	
15	25.01.2019	TES/IE/SCP/PIL/2019/212	Construction of Embankment using Fly Ash	
16	28.01.2019	TES/IE/SCP/PIL/2019/213	Source approval for HT Strands M/s Kataria Industries Pvt Ltd	
17	28.01.2019	TES/IE/SCP/PIL/2019/214	Pile Cap Concreting without conducting Test Pile and Working Pile Load Testing for Grade Separator at Km 98 + 950	
18	28.01.2019	TES/IE/SCP/PIL/2019/215	Source approval for Procurement of Bitumen from M/s Tikitar Industries	
19	30.01.2019	TES/IE/SCP/PIL/2019/216	Submission of GFC Drawings of Box Culverts at Km 72 + 565	
20	30.01.2019	TES/IE/SCP/PIL/2019/217	Submission of GFC Drawings of Major Bridge at Km 99 + 595	

15. Progress Photographs

Sl. No	Description	Location	Side	Remarks
1.	Dismantling of Existing Structures	93+320		



Sl. No	Description	Location	Side	Remarks
2.	Dismantling of Existing Structures	94+450	-	



Sl. No	Description	Location	Side	Remarks
3.	Box Culvert Slab Completed	95+794	RHS	



Sl. No	Description	Location	Side	Remarks
4.	Box Culvert Slab Completed	83+065	LHS	-



Sl. No	Description	Location	Side	Remarks
5.	Box Culvert Slab in Progress	105+536	BHS	



Sl. No	Description	Location	Side	Remarks
6.	Box Culvert PCC Completed	109+786	LHS	



Sl. No	Description	Location	Side	Remarks
7.	Minor Bridge Slab Completed and Retaining Wall in Progress	91+165	LHS	



Sl. No	Description	Location	Side	Remarks
8.	Minor Bridge Raft Completed	109+090	BHS	MCW Portion



Sl. No	Description	Location	Side	Remarks
9.	Minor Bridge Slab Completed	82+007	LHS	



Sl. No	Description	Location	Side	Remarks
10.	Minor Bridge Slab Completed and Retaining Wall in Progress	85+144	LHS	



Sl. No	Description	Location	Side	Remarks
11.	VUP Abutment Cap Completed	106+320	BHS	Abutment - 2



Sl. No	Description	Location	Side	Remarks
12.	VUP Abutment Completed	111+235	RHS	Abutment - 1



Sl. No	Description	Location	Side	Remarks
13.	GSI Pile Cap in Progress	98+950	LHS	Abutment - 1



Sl. No	Description	Location	Side	Remarks
14.	GSI Pile Cap Completed	104+570	RHS	Abutment - 2



Sl. No	Description	Location	Side	Remarks
15.	GSI Piling Work in Progress	110+110	LHS	Abutment - 1



Sl. No	Description	Location	Side	Remarks
16.	Swachhtata Pakhwada activities being held from 1st Jan - 15th Jan 2019 .			

