



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

PATEL CHOLOPURAM-THANJAVUR HIGHWAY PRIVATE LIMITED

Four laning of Cholopuram - Thanjavur from Km 116.440 to
Km.164.275 section of NH-45C in the state of Tamilnadu under
NHDP Phase-IV on Hybrid Annuity Mode.

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

MONTHLY PROGRESS REPORT
March 2019

Table of Content

Table of Content	02
List of Tables	03
List of Figures	03
Executive Summary	04
Project Synopsis	04
1. Background and Project Details	09
1.1. Project Overview.....	09
1.2. Salient Project Features	10
1.3. Contractual Project Milestones	11
1.4. Payment Milestones During Construction Period.....	11
1.5. Permits & Approvals.....	12
2. Right of Way Status	13
2.1. Land Acquisition	13
2.2. Removal of Religious Structures.....	60
2.3. Shifting of Utilities and Electrical HT/LT Lines	60
2.4. Tree felling.....	61
3. Progress Briefing – Contractor Activities	62
3.1. Pre-Construction Activities	62
4. Physical Progress of Work	63
4.1 Physical Progress of Work	63
5. Financial Progress of Work	87
6. Quality Control and Quality Assurance	89
6.1 List of Lab Equipment’s	89
6.2 Quality Control Test Summary	93
7. Weather Report.....	100
8. Safety	101
9. Support required from NHAI	102
10. Important Events.....	103
11. Organization Chart.....	104
12. List of Plants, Machinery and Equipments.....	107
13 Change of Scope Proposals	108
14 Details of Correspondences.....	109
15 Progress Photographs.....	114

List of Tables

Table 1.1: Details of Project Alignment	07
Table 2.1-1: Details of proposed ROW as per Schedule-A	13
Table 2.1-2: Status of Land Acquisition	13
Table 2.1-3: Compensation disbursement for land	14
Table 2.1-4: Compensation disbursement for Structures	14
Table 2.1-5: Details of Stretches under Hindrance	15
Table 2.1-6: Hindrance Photographs	22
Table 2.2-1: Status of Removal of Religious structures	60
Table 2.3-1: Status of sanction of Estimates - Relocation of RWS Pipe Line	60
Table 2.3-2: Status of sanction of Estimates- Electrical Lines Relocation	60
Table 2.3-3: Status of Utility Relocation	60
Table 2.4-1: Status of Tree Cutting	61
Table 3.1-1: Status of Design and Drawings -Highway	62
Table 3.1-2: Status of Design and Drawings - Structures	62
Table 4.1 : Physical Progress of Works	63
Table 4.2 : Strip Chart for Highway Works	65
Table 4.3 - 1 : Strip Chart for status of Box Culverts on Existing Road	78
Table 4.3 - 2 : Strip Chart for status of Box Culverts on Bypass	79
Table 4.3 - 3 : Strip Chart for status of MNB	80
Table 4.3 - 4 : Strip Chart for status of PUP	82
Table 4.3 - 5 : Strip Chart for status of MNB	83
Table 4.3 - 6 : Strip Chart for status of FLYOVER	84
Table 4.3 - 7 : Strip Chart for status of VUP	85
Table 4.3 - 8 : Strip Chart for status of ROB	86
Table 6.1 - 1 QA/QC Lab Equipment at Pateeswaram Lab	89
Table 6.2-1: Summary of Quality Control Tests	94
Table 10.1 : Details of Important Events	103
Table 12.1 - List of Plants, Machinery and Equipment's	107
Table 13.1 - Status of Change of Scope Proposals	108
Table 14.1. - Concessionaire to NHAI	110
Table 14.2. - NHAI to Concessionaire	111
Table 14.3. - Concessionaire to Independent Engineer	112
Table 14.4. - Independent Engineer to Concessionaire	113

List of Figures

Figure 1 : Project Location Map	05
Figure 2 : Project Alignment Map	06
Figure 3 : Financial Progress - Planned vs Achieved	88
Figure 4 : Organization Chart - EPC Team	105
Figure 5 : Organization Chart - SPV Team	106

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.

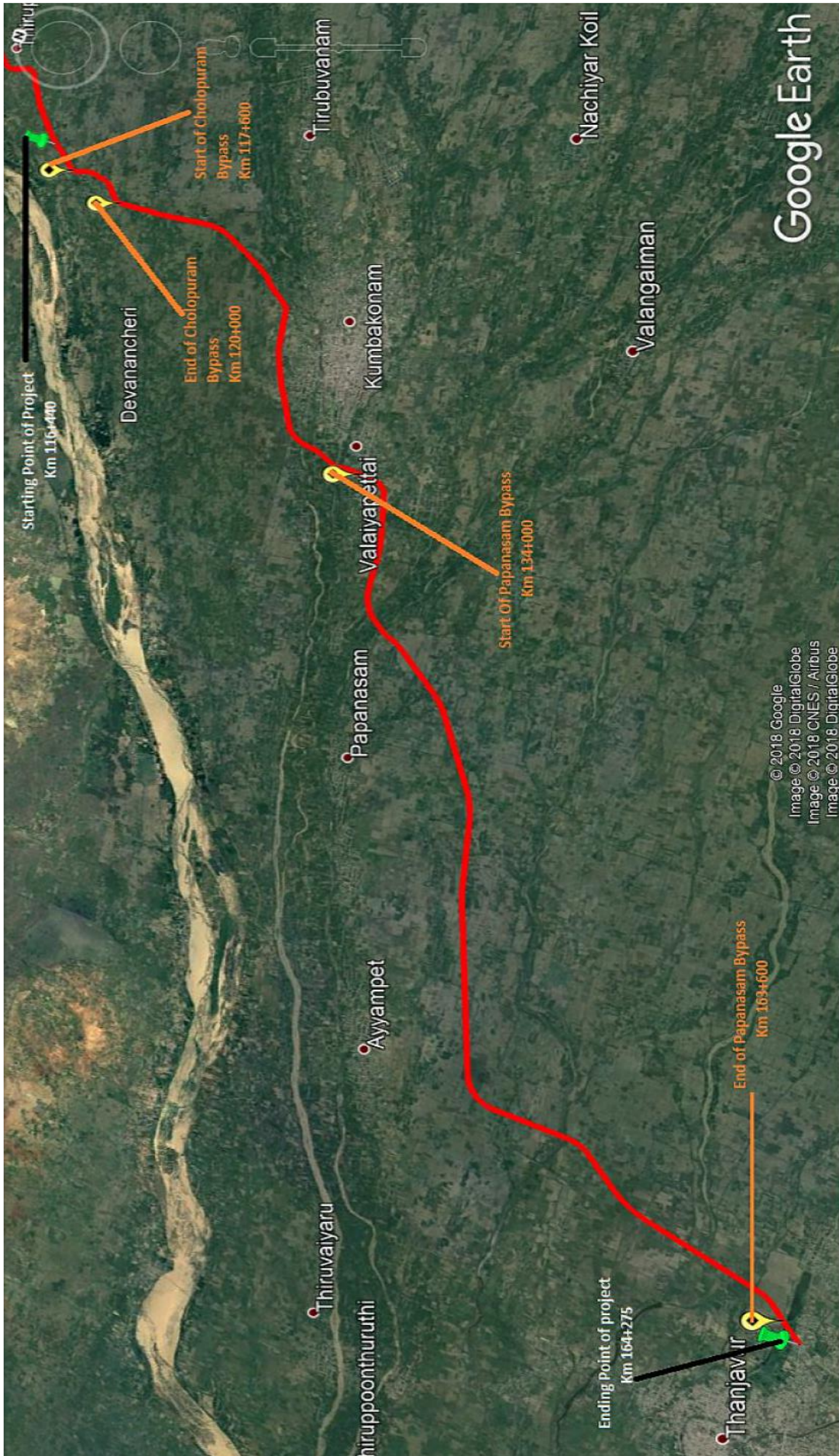
The Cholopuram to Thanjavur section of NH-45C is an important link to connect Metropolitan city of Chennai to religious and tourist places of Kumbakonam, Thanjavur, Tiruchirapalli. The project is also expected to provide improved connectivity to other religious places & other major cities like Thanjavur, Rameswaram, Madurai, Tiruchirappalli, etc.

Project Synopsis

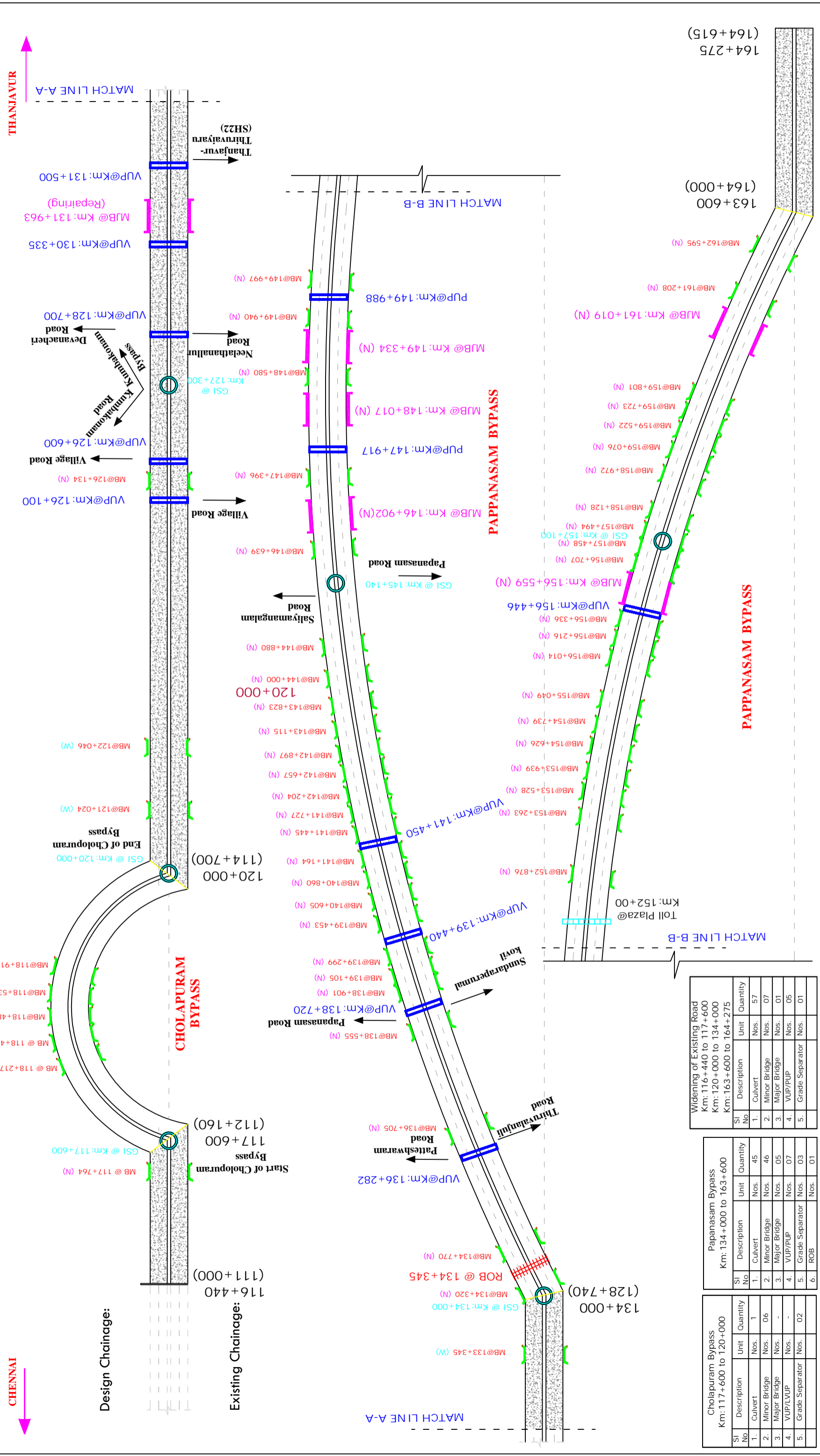
The Government of India had entrusted to the National Highway Authority of India (NHAI) the development, maintenance and management of National Highway No. 45C including the section from km 116.440 to Km 164.275 (approx. 47.835 Km). The Authority had resolved to augment for four Laning of Cholopuram - Thanjavur from Km 116.440 to Km 164.275 section of NH - 45C in the State of Tamilnadu under NHDP Phase-IV on "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



STRIP PLAN - CHOLAPURAM TO THANJAVUR HIGHWAY PROJECT OF NH45 C



CHENNAI

THANJAVUR

Design Chainage:

Existing Chainage:

SI No	Description	Unit	Quantity
1.	Culvert	Nos.	57
2.	Minor Bridge	Nos.	07
3.	Major Bridge	Nos.	01
4.	VUP/LVUP	Nos.	05
5.	Grade Separator	Nos.	01

Widening of Existing Road
 Km: 116+440 to 117+600
 Km: 120+000 to 134+000
 Km: 163+600 to 164+275

SI No	Description	Unit	Quantity
1.	Culvert	Nos.	45
2.	Minor Bridge	Nos.	46
3.	Major Bridge	Nos.	01
4.	VUP/LVUP	Nos.	07
5.	Grade Separator	Nos.	03
6.	ROB	Nos.	01

Pappanasam Bypass
 Km: 134+000 to 163+600

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

Cholapuram Bypass
 Km: 117+600 to 120+000

Drawing Title
 Strip Plan - Cholapuram to Thanjavur Highway Project

Date: 30-09-2018
Project No. PCTHP/NHAI/TN/001

Salient Features of Project:

SI No	Description	Unit	Scope
1.	Total Length of Project	Km	47.835
2.	Length of Widening Portion	Km	15.335
3.	Length of Bypass	Km	32.000
4.	Length of service/Ship Road	Km	27.100
5.	Culverts	Nos.	74
6.	Minor Bridge	Nos.	59
7.	Major Bridge	Nos.	06
8.	VUP/PUP	Nos.	12
9.	Grade Separated Structure	Nos.	06
10.	ROB	Nos.	01
11.	Minor Intersection	Nos.	22
12.	Major Intersection	Nos.	20
13.	Bus Bays and Shelters	Nos.	05
14.	Toll Plaza	Nos.	01

LEGEND:

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

Table- 01 : Details of Project Alignments

Sr. no.	Design Chainage (Km)		LENGTH (Km)	TCS Type	Remarks
	From	To			
1	116.440	117.200	0.760	Type-B (Fig 2.6 of the manual) without service road	Concentric widening
2	117.200	117.900	0.700	Figure 7.8- Grade separator and its approaches with RE wall and both side 7.5 m wide Slip road	
3	117.900	119.600	1.700	Type-A-3 (Fig 2.4 of the manual)	Bypass
4	119.600	120.420	0.820	Figure 7.8- Grade separator and its approaches with RE wall and both side 7.5 m wide Slip road	
5	120.420	122.000	1.580	Type-B (Fig 2.6 of the manual) without service road	Concentric widening
6	122.000	125.300	3.300	Type-A-3 (Fig 2.4 of the manual)	Eccentric widening
7	125.300	125.700	0.400	Type-B (Fig 2.6 of the manual) without service road	Concentric widening
8	125.700	127.700	2.000	Figure 7.8- Grade separator and its approaches with RE wall and both side 7.5 m wide Slip road	
9	127.700	128.300	0.600	Type-B (Fig 2.6 of the manual) without service road	Concentric widening
10	128.300	129.100	0.800	Figure 7.8- Grade separator and its approaches with RE wall and both side 7.5 m wide Slip road	
11	129.100	129.970	0.870	Type-B (Fig 2.6 of the manual) without service road	Concentric widening
12	129.970	130.700	0.730	Figure 7.8- Grade separator and its approaches with RE wall and both side 7.5 m wide Slip road	
13	130.700	131.050	0.350	Type-B (Fig 2.6 of the manual) without service road	Concentric widening
14	131.050	131.850	0.800	Figure 7.8- Grade separator and its approaches with RE wall and both side 7.5 m wide Slip road	
15	131.850	132.100	0.250	Type-A-3 (Fig 2.4 of the manual)	Eccentric widening
16	132.100	133.580	1.480	Type-B (Fig 2.6 of the manual) without service road	Concentric widening
17	133.580	134.800	1.220	Figure 7.8- Grade separator and its approaches with RE wall and both side 7.5 m wide Slip road	
18	134.800	136.000	1.200	Type-A-3 (Fig 2.4 of the manual)	Bypass
19	136.000	136.600	0.600	Figure 7.8- Grade separator and its approaches with RE wall and both side 7.5 m wide Slip road	
20	136.600	138.500	1.900	Type-A-3 (Fig 2.4 of the manual)	Bypass
21	138.500	139.750	1.250	Figure 7.8- Grade separator and its approaches with RE wall and both side 7.5 m wide Slip road	

Sr. no.	Design Chainage (Km)		LENGTH (Km)	TCS Type	Remarks
	From	To			
22	139.750	141.100	1.350	Type-A-3 (Fig 2.4 of the manual)	Bypass
23	141.100	141.800	0.700	Figure 7.8- Grade separator and its approaches with RE wall and both side 7.5 m wide Slip road	
24	141.800	144.450	2.650	Type-A-3 (Fig 2.4 of the manual)	Bypass
25	144.450	145.580	1.130	Figure 7.8- Grade separator and its approaches with RE wall and both side 7.5 m wide Slip road	
26	145.580	147.600	2.020	Type-A-3 (Fig 2.4 of the manual)	Bypass
27	147.600	148.320	0.720	Figure 7.8- Grade separator and its approaches with RE wall and both side 7.5 m wide Slip road	
28	148.320	149.720	1.400	Type-A-3 (Fig 2.4 of the manual)	Bypass
29	149.720	150.450	0.730	Figure 7.8- Grade separator and its approaches with RE wall and both side 7.5 m wide Slip road	
30	150.450	152.700	2.250	Type-A-3 (Fig 2.4 of the manual)	Bypass
31	152.700	153.300	0.600	Toll Plaza	
32	153.300	156.000	2.700	Type-A-3 (Fig 2.4 of the manual)	Bypass
33	156.000	157.350	1.350	Figure 7.8- Grade separator and its approaches with RE wall and both side 7.5 m wide Slip road	
34	157.350	164.275	6.925	Type-A-3 (Fig 2.4 of the manual)	Bypass
			47.835		

1. Background and Project Details

1.1. Project Overview

Name of Work	Four Laning of Cholopuram-Thanjavur from km. 116.440 to Km.164.275 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 Cholopuram-Thanjavur Highway Pvt Ltd, Patel House, Beside Prakruti Resorts, Chanani Road, Vadodara. Gujarat- 391740 Tel: +91-265 277 6678 Fax: +91-265 277 7878
Independent Engineer	M/s. Theme Engineering Services Pvt. Ltd, 8, Thomaiyammal Nagar, 6 th Street, R.S College (Post), Thanjavur-613005.
EPC Contractor	M/s. Patel Infrastructure Limited, Patel House, Beside Prakruti Resorts, Chanani Road,Vadodara Gujarat- 391740, Tel: +91-265 277 6678 Fax: +91-265 277 7878
Design Consultant	CTL Global Services Pvt. Ltd. 101, IST 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)	47.835 Kms.
Total Bid Cost	Rs. 1345.60 Crores (as per concession agreement)
Date of Concession Agreement	October 12, 2017
Concession Period	17 Years (Construction Period 2 Years from Appointed date, Operation period 15 years from COD)
Appointed Date	06.09.2018
Construction Period	02 years from Appointed date
Completion Date	05.09.2020
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	47.835 Kms
Service Road/ Slip Road	27.100 Kms
Major Bridge	06 Nos.
Minor Bridge	56 Nos.
Grade Separate Intersection	06 Nos.
Vehicular Underpass	10 Nos.
Pedestrian Underpass	02 Nos.
Rail-road Bridges	01 Nos
Box Culverts	74 Nos.
Slab Culverts	29 Nos.
Major Intersections	20 Nos.
Minor Intersections	22 Nos.
Bus Bays	05 Nos.
Rest Area	01 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.	07 th April 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	05 th August 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	11 th April 2020
Scheduled Completion	Concessionaire shall have completed Project on 730 th day from the Appointed Date	04 th September 2020

1.4. Payment milestone during Construction Period

Payment Milestone	Eligibility Criteria	Payment Amount (Rs.)
Milestone-I	On Achievement of 10% of Physical Progress	107.65 Crs.
Milestone-II	On Achievement of 30% of Physical Progress	107.65 Crs.
Milestone-III	On Achievement of 50% of Physical Progress	107.65 Crs.
Milestone-IV	On Achievement of 75% of Physical Progress	107.65 Crs.
Milestone-V	On Achievement of 90% of Physical Progress	107.65 Crs.

1.5. Permits & Approvals

Sr. No.	Details	Authority	Current Status	Remarks
1	Extraction of Boulders from Quarries	Distt. Mining Officer	Obtained	We have engaged Agate Infra Engineering for supply of boulders that is having a valid license for extraction of boulders and other required permission for the quarry at Kalpadi Village, Perambalur District.
2	Installation of Crusher	Village Panchayat Head	Obtained	
3	-----D O-----	Pollution Control Board	Obtained	
4	Use of Explosives	Distt. Collector	Obtained	
5	Labour License	Labour Commissioner	Obtained	
6	Environmental Clearance		NA	
7	Trees Cutting Permission	Forest department through NHAI	Obtained & work in progress	Work in Progress, Felling Permission issued except Teak wood trees
8	Electric Poles Shifting	Tamilnadu Electricity Board	Obtained & In progress	14 Nos. Estimates for shifting of electrical poles and transformers have been obtained from the concerned department in respect of Thanjavur District. All the 14 No of Estimates are approved by Competent Authority. Estimate for shifting of 03 towers has to be obtained from TANTRASCO. Joint inspection completed with filed officers.
9	Water Pipes Shifting	Tamilnadu Water Supply and Drainage Board	Obtained & In progress	30 Nos. Estimates have been received from Kumbakonam Union, 01 Estimate from Darasuram Municipality and 01 estimate from EE, TWAD Thanjavur has been received. All the estimates are approved by the RO, NHAI Madurai.
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.

Table 2.1-1: Details of proposed ROW as per Schedule-A				
	Design Chainage (Km)	Design Length (Km)	Width (m)	Remarks
(i) Full Right of Way (full width)				
Stretch	116.440 to 117.600	1.160	30	Within 15 (Fifteen) days from the date of Agreement.
Stretch	117.600 to 120.000	2.400	60	
Stretch	120.000 to 134.000	14.000	30	
Stretch	134.000 to 164.275	30.280	60	
Total Length		47.835		

Balance Right of way (width)				
	Design Chainage (Km)	Design Length (Km)	Width (m)	Remarks
Stretch	116.440 to 117.600	1.160	30	Within 90(Ninety) days of the Appointed date
Stretch	120.000 to 120.340	0.34	20	
Stretch	124.700to 126.100	1.40	20	
Stretch	126. 700 to 127 .655	0.95	20	
Stretch	130.600 to 134.000	3.40	20	
Total Length		7.250		

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

Table 2.1-2: Status of Land Acquisition as per Site Condition				
Sl. No.	Description	Unit	Present Status	Remarks
A)	Total Length of the Project Highway	Km	47.835	
i)	Use of Existing Road Portion	Km	15.835	
ii)	Proposed Bypass / Realignment portion	Km	32.000	
B)	Hindered Length			
i)	LA Issues	Km	8.190	
ii)	Existing Buildings	Km	2.515	
iii)	Pending for Disbursement of Payment	Km	4.815	
iv)	Electrical Lines	Km	6.510	
v)	Rural Water Supply lines	Km	11.200	
C)	Net Hindered Length (both Side)	Km	17.350	
D)	Total Project Length (both Side)	Km	47.835	
E)	% Hindered Length	%	36.27%	

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: -

Sr. No.	Name of the District	Total No. of Land cases	Amount paid (in Nos.)	Balance to be Paid (in Nos.)	Remarks
1	Thanjavur	1467	1039	428	
	Total in Nos.	1467	1039	428	
	Total in %		70.82%	29.17%	

Sr. No.	Name of the District	Total No. of structures	Amount paid (in Nos)	Balance to be Paid (in Nos)	Remarks
1	Thanjavur	723	541	182	
	Total in Nos	723	541	182	
	Total in %		74.82%	25.18%	

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 –

Sr. No.	From	To	Length	Side	Effective Hindered Length	Remarks
1	116+440	117+600	1160	BHS	2320	Land Acquisition pending
2	117+760	118+480	720	BHS	1440	Obstruction of Existing irrigation canal needs to be relocated, Religious structures
3	120+000	120+340	340	BHS	680	Land Acquisition pending
4	124+150	124+700	550	BHS	1100	Obstruction of Existing irrigation canal needs to be relocated.
5	124+700	126+100	1400	BHS	2800	Land Acquisition pending, Religious structures
6	126+700	127+655	955	BHS	1910	Land Acquisition pending
7	128+350	128+400	50	LHS	50	Religious Structures
8	129+500	130+100	600	BHS	1200	Compensation Disbursement balance - Not allowed to work by owner, Religious structures
9	130+600	134+000	3400	BHS	6800	Land Acquisition pending
10	138+200	138+600	400	BHS	800	Court Stay of Land owners Mr. Dharmalingam & Mr. Shanmugam

11	138+600	139+000	400	BHS	800	Court Stay and Payment issue of Land owners Mr. Dhahshnamoorthy, Mr. Rajini, Mr. nagaraj
12	139+100	139+600	500	BHS	1000	Payment Issue of Land owners Mrs.Valarmathi Kailasam
13	141+900	142+400	500	BHS	1000	Payment Issue of Land owners Mr.Pakir Mohammed
14	144+800	144+850	50	BHS	100	Obstruction of teak wood
15	146+600	148+100	1500	BHS	3000	Obstruction of Existing irrigation canal needs to be relocated. & Obstruction of teak wood
16	149+330	149+340	10	BHS	20	Obstruction of teak wood
17	150+600	150+900	300	BHS	600	Obstruction of existing irrigation sluices and teak wood
18	152+800	153+100	300	BHS	600	Obstruction of existing irrigation sluices
19	154+600	154+900	300	BHS	600	Obstruction of Existing irrigation canal needs to be relocated.
20	156+200	156+500	300	BHS	600	Obstruction of teak wood
21	158+500	158+700	200	BHS	400	Hindrances of High Tension Transmission Towers.
22	160+200	160+400	200	BHS	400	Compensation Disbursement balance - Not allowed to work by owner
23	161+000	162+000	1000	BHS	2000	LA issues - owner name Ms Tamilselvei
24	162+400	162+600	200	BHS	400	LA issues - owner name Mr. James P Raja

2.2. Removal of Religious Structures

The following structures coming within the ROW are to be demolished

Table 2.2-1: Status of Removal of Religious structures				
Sl. No.	Name of the District	Total No. of structures	Removed as on Date (in Nos.)	Balance (in Nos.)
1	Thanjavur	13	0	13
Valuation of Religious structures is in progress.				

2.3. Shifting of Utilities and Electrical HT/LT Lines

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

Table 2.3-1: Status of sanction of Estimates - Relocation of RWS Pipe line						
Sl. No	Name of the District	Chainages			Total Number of Estimates	Remarks
		From	To	Length in Km		
1	Thanjavur	116+440	164+275	47.835	32	Work is in Progress

Table 2.3-2: Status of sanction of Estimates - Electrical Lines Relocation							
Sl. No	Name of the District	Chainages			Number of Estimates	Present Status	Remarks
		From	To	Length in Km			
1	Thanjavur	116+440	164+275	47.835	16	Work in Progress	

Estimates for shifting of the above Electric lines have been prepared. The estimated cost is approximately Rs. 10.50 crores.

Estimates have been done for the shifting of the water supply pipeline & related items mentioned above. The estimated cost is approximately Rs. 6.8 crores.

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.	35.75	5.15	30.60	Work in Progress
2	BDO of Concern Union	Hand Pump/Pump Room with Bore well	Nos.	16	0	16	
3	BDO of Concern Union	Over Head Tank	Nos.	2	1	1	01 Nos. work in Progress
4	TNEB	Electrical Lines	Kms.	19.215	12.705	6.510	Work in Progress

2.4. Tree felling

Sl. No.	Name of the District	Chainages			Effectuated Length in Kms	Total No. of Trees	Felled/ Removed as on Date	Balance no. of Trees	Remarks
		From	To	Length in Km					
1	Thanjavur	116+440	164+275	47.837	15.310	1461	1405	56	Work in Progress
Total				47.835					

**CHOLOPURAM TO THANJAVUR HIGHWAY PROJECT
HINDRANCE STATEMENT**

Sr.No.	From	To	Length	Side	Effective Hindered Length	Remarks
1	116+440	117+600	1160	BHS	2320	Land Acquisition pending
2	117+760	118+480	720	BHS	1440	Obstruction of Existing irrigation canal needs to be relocated, Religious structures
3	120+000	120+340	340	BHS	680	Land Acquisition pending
4	124+150	124+700	550	BHS	1100	Obstruction of Existing irrigation canal needs to be relocated.
5	124+700	126+100	1400	BHS	2800	Land Acquisition pending, Religious structures
6	126+700	127+655	955	BHS	1910	Land Acquisition pending
7	128+350	128+400	50	LHS	50	Religious Structures
8	129+500	130+100	600	BHS	1200	Compensation Disbursement balance - Not allowed to work by owner, Religious structures
9	130+600	134+000	3400	BHS	6800	Land Acquisition pending
10	138+200	138+600	400	BHS	800	Court Stay of Land owners Mr.Dharmalingam & Mr.Shanmugam
11	138+600	139+000	400	BHS	800	Court Stay and Payment issue of Land owners Mr.Dhahshnamoorthy, Mr.Rajini, Mr.nagaraj
12	139+100	139+600	500	BHS	1000	Payment Issue of Land owners Mrs.Valarmathi Kailasam
13	141+900	142+400	500	BHS	1000	Payment Issue of Land owners Mr.Pakir Mohammed
14	144+800	144+850	50	BHS	100	Obstruction of teak wood
15	146+600	148+100	1500	BHS	3000	Obstruction of Existing irrigation canal needs to be relocated. & Obstruction of teak wood
16	149+330	149+340	10	BHS	20	Obstruction of teak wood
17	150+600	150+900	300	BHS	600	Obstruction of existing irrigation sluices and teak wood
18	152+800	153+100	300	BHS	600	Obstruction of existing irrigation sluices
19	154+600	154+900	300	BHS	600	Obstruction of Existing irrigation canal needs to be relocated.
20	156+200	156+500	300	BHS	600	Obstruction of teak wood
21	158+500	158+700	200	BHS	400	Hindrances of High Tension Transmission Towers.
22	160+200	160+400	200	BHS	400	Compensation Disbursement balance - Not allowed to work by owner
23	161+000	162+000	1000	BHS	2000	LA issues - owner name Ms Tamilselvei
24	162+400	162+600	200	BHS	400	LA issues - owner name Mr. James P Raja

Table 2.1.6 - Hindrance Photographs (25.03.2019)

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	30	Houses (2 nos)	116+440	116+470	Houses (6 nos), Mango farm, Cocunut farm	30		
	60	Houses (6 nos), Culvert & Trees	116+520	116+580				
			116+580	116+600	Canal crossing, culvert & Trees	20		
	50	Houses (4 nos), Electrical Pole & Trees	116+600	116+650	Canal crossing & Trees	50		
	50	Houses (2 nos), Electrical Pole & Trees	116+650	116+700	Bore Well, Pump set, Electrical Pole & Trees	50		
	50	Trees	116+700	116+750	Houses (7 nos), Electrical Pole & Trees	50		
	50	Houses (6 nos), Electrical Pole & Trees	116+750	116+800	Houses (4 nos) & Cocunut Trees	50		
	50	Vinayagar Temple, Houses (7 nos) & Electrical Pole (3 nos)	116+800	116+850	Houses (5 nos), & Cocunut Trees	50		
	50	Houses (7 nos), Electrical Poles & Trees	116+850	116+900	Houses (8 nos) & Cocunut Trees	50		
	50	Houses (5 nos), Culvert, Electrical Poles & Cocunut Trees	116+900	116+950	Houses (6 nos) & Cocunut Trees	50		
	30	Houses (2 nos), Electrical Pole (3 nos) & Trees	116+950	117+980	Cocunut Trees & Nala	30		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	20	Houses (2 nos), Electrical Poles & Trees	116+980	117+000	Cocunut Trees, Fencing & Electrical Pole	20		
	50	Houses (7 nos), Electrical Pole (4 nos) & Trees	117+000	117+050	Church & Shops (3 nos)	50		
	50	Houses (5 nos), Electrical Poles & Trees	117+050	117+100	Houses (7 nos), Electrical Poles & Trees	50		
	50	Houses (8 nos), Electrical Poles (3 nos) & Trees	117+150	117+200	Houses (6 nos), Ration Shop, Electrical Poles, Trees & Pond	50		
	50	Temple, Houses (2 nos) & Cocunut Trees	117+200	117+250	Houses (9 nos), Electrical Poles & Trees	50		
	50	Houses (3 nos), Electrical Poles & Trees	117+250	117+300	Houses (2 nos), Electrical Poles & Trees	50		
	50	Houses (3 nos), Electrical Poles & Trees	117+300	117+350	Houses (3 nos), Electrical Poles & Trees	50		
	50	Houses (4 nos), Electrical Poles & Trees	117+350	117+400	Houses (4 nos), Electrical Poles & Trees	50		
	50	Houses (5 nos), Electrical Poles & Trees	117+400	117+450	Houses (6 nos), Electrical Poles & Cocunut Trees	50		
	50	Houses (4 nos), Bus shelter, Water Tank, Electrical Poles & Trees	117+450	117+500	Houses (5 nos), Electrical Poles & Trees	50		
	50	Houses (4 nos), Electrical Poles & Trees	117+500	117+550	Trees & Electrical Poles	50		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	50	Trees & Electrical Poles	117+550	117+600	Houses (4 nos), Electrical Poles & Trees	50		
	50	Electrical Poles	117+600	117+650	Electrical Poles	50		
	20	House (1 no.) & Coconut Trees	120+000					
	50	House (3 nos), Teak wood Trees	120+050	120+100	Bus shelter, House (3 nos), Electrical Pole (3 nos) & Teak wood Trees	50		
	50	Coconut farm, Pond & Trees	120+200	120+250	Temple, Houses (2 nos) & Electrical Pole	50		
	30	Houses (2 nos), Electrical Pole, Culvert & Coconut farm	120+250	120+280	Houses (3 nos), Electrical Poles & Coconut farm	30		
	20	Houses (1 no.), Electrical Pole, Culvert, Nala & Coconut farm	120+280	120+300	Houses (2 nos), Electrical Poles & Coconut farm	20		
	50	Houses (4 nos), Electrical Poles & Coconut farm	120+300	120+350	Houses (3 nos), Electrical Poles, Culvert & Trees	50		
	50	Shops, Electrical Pole & Coconut farm	120+350	120+400	House, Electrical Pole & Teak wood Trees	50		
	50	Houses (2 nos), Electrical Poles & Coconut Trees	120+400	120+450	Houses (4 nos), Petrol Pump, Electrical Poles (2 nos) & Coconut Trees	50		
	50	Houses (2 nos), Shops, Coconut & Teak wood Trees	120+450	120+500	Houses (3 nos), Electrical Poles & Trees	50		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	50	Houses (8 nos), Electrical Poles, Coconut & Teak wood Trees	120+500	120+550	Houses (8 nos), Electrical Poles, Coconut & Teak wood Trees	50		
	50	Houses (4 nos) & Coconut farm	120+550	120+600	House (1 no.), Electrical Pole & Coconut Trees	50		
	50	Houses (6 nos), Fencing, Electrical Pole, Coconut & Teak wood Trees	120+600	120+650	Houses (5 nos), Fencing, Electrical Pole, Coconut, Mango Trees & Fish Pond	50		
	30	Houses, Coconut & Teak wood Trees	120+650	120+680	Pond & Trees	30		
	40	Shops, Coconut & Teak wood Trees	120+680	120+720	Next crop planted & Fencing	40		
	80	Next crop planted, Electrical Poles & Trees	120+720	120+800	House (1 no.), Transformer, Electrical Poles (4 nos) & Trees	80		
	50	Houses (3 nos), Culvert & Trees	120+800	120+850	Houses (2 nos), Electrical Poles (3 nos) & Trees	50		
	30	Houses (3 nos), Electrical Poles & Trees	120+900	121+930	Houses (1 no.), Fencing, Electrical Pole (4 nos) & Trees	30		
	20	Preparing for next crop, Electrical Pole & Trees	121+930	121+950	Houses (2 nos), Electrical Pole (2 nos) & Trees	20		
	50	Electrical Pole & Trees	121+950	121+000	Houses (2 nos), Electrical Pole (2 nos) & Trees	50		
	10	Electrical Pole & Trees	121+050		Transformer, Electrical Poles (3 nos) & Trees	20		












Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	-	-	121+100		Electrical Pole	10		
	50	Cocunut Trees, Teak wood Trees & Jungle	121+150		Electrical Pole & Trees	20		
	50	Bus shelter, Houses (3 nos), Electrical Poles (2 nos) & Trees	121+200	121+250	Bus shelter, Trees & Jungle	50		
	50	House (1 no.), Electrical Pole & Trees	121+250	121+300	House (3 no.), Electrical Poles (5 nos) & Trees	50		
	50	Electrical Pole, Trees & Jungle	121+300	121+350	House (2 nos), Electrical Pole & Trees	50		
	80	Electrical Pole, Trees & Jungle	121+350	121+430	Houses (9 nos), Electrical Poles (3 nos) & Trees	80		
	70	Electrical Poles, Trees & Jungle	121+430	121+500	Electrical Poles, Trees & Jungle	70		
	50	House (1 no.), Electrical Poles, Trees & Jungle	121+500	121+550	Electrical Poles, Culvert, Trees & Jungle	50		
	70	Temple, Houses (3 nos) & Cocunut Trees	121+550	121+620	Houses (2 nos), Electrical Pole, Mango Trees 7 Jungle	70		
	60	Shops, Houses, Electrical Poles, Cocunut Trees, Jungle & Culvert	121+620	121+680	Cocunut Trees (12 nos), Trees & Jungle	60		
	40	Pump set, Structure & Cocunut Trees (8 nos)	121+680	121+720	Electrical Pole & Trees	40		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	20	Trees & Jungle	121+720	121+800	Electrical Pole	10		
	50	Transformer, Electrical Poles & Trees	121+800	121+850	Church Gate, Boundary Wall	50		
	15	Transformer, Electrical Poles (4 nos)	121+930		Electrical Poles (2 nos)	15		
	20	Electrical Poles, existing bridge structure & Trees	122+020		Electrical Pole & Trees	10		
		River crossing & Trees	122+030		River crossing & Trees			
	-	-	122+080		Temple, Electrical Pole, Canal & Baniyan Trees	25		
	20	Electrical Pole & Trees	122+130		Trees (3 nos)	20		
	15	Electrical Poles, Canal, Banana farm & Teak wood Trees	122+200		Pump set & Electrical Poles	15		
	80	Banana farm, Canal, Teak wood Trees, Transformer & Electrical Poles	122+220	122+300	Teak wood Trees, Electrical Pole & Banana farm	80		
	100	Electrical Poles, Teak wood Trees & Canal	122+300	122+400	HP Petrol Bunk & Electrical Poles	100		
			122+900		Electrical Pole & Jungle	10		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
			122+900	123+000	Electrical Pole, Trees & Jungle	100		
			123+000	123+150	Electrical Poles (3 nos)	150		
	70	Canal, Teak wood Trees & Jungle	123+230	123+300	Transformer, Electrical Poles (3 nos) & Trees	70		
	50	Electrical Pole & line crossing	123+300	123+350	Electrical Poles	50		
			123+900		Electrical Poles	15		
	100	Electrical Pole & Trees	125+700	125+800	Compound Wall	100		
	50	Houses (3 nos), Electrical Poles & Trees	125+800	125+850	Houses (4 nos), Electrical Poles & Trees	50		
	50	Houses (4 nos), Electrical Poles & Trees	125+850	125+900	Houses (2 nos), Electrical Poles & Trees	50		
	50	Govt building, House (1 no), Electrical Poles & Trees	125+900	125+950	Houses (3 nos), Electrical Poles & Trees	50		
	100	House (1 no), Water tap & Trees	125+950	126+050	Houses (3 nos) & Trees	100		
	50	Building, Hut (2 nos) & Trees (21 nos)	126+050	126+100	Temple, Houses (5 nos), Electrical Pole (4 nos) & Trees (13 nos)	50		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	100	Pond & Trees	126+400	126+500	Pond & Trees	100		
	100	Bus shelter, Fencing, Houses (4 nos), Electrical Pole & Trees (7 nos)	126+700	126+800	Rice Mill, Houses (4 nos), Hut, Electrical Pole & Trees (13 nos)	100		
	100	Houses (4 nos), Hand pump, Transformer & Electrical Poles	126+800	126+900	Temple, Houses (4 nos), Electrical Pole (2 nos) & Trees (13 nos)	100		
	100	Bus shelter, Pump house, Electrical Pole (4 nos) & Trees (13 nos)	126+900	127+000	Electrical Pole (4 nos), Telephone Pole, Sign board & Trees (14 nos)	100		
	100	Building (4 nos), Electrical Pole (4 nos), Sign boards (4 nos) & Trees (14 nos)	127+100	127+200	Pump house, Electrical Poles (4 nos), Transformer, Sign boards & Trees (10 nos)	100		
	100	Building (2 nos), Electrical Pole (9 nos), Sign boards (4 nos) & Trees (10 nos)	127+200	127+300	Arch, Compound Wall, Electrical Pole (5 nos) & Trees (3 nos)	100		
	30	Commercial building (3 nos), Electrical Pole (6 nos) & Line crossing & Trees (3 nos)	127+650	127+800	Building Compound Wall, Electrical Pole (6 nos) & Trees (2nos)	30		
			128+000	128+120	Pump house, Bore well, Transformer & Electrical Pole (3 nos)	30		
	10	Electrical Pole (1 no.)	128+120	128+200	Electrical Pole (4 nos)	40		
	-	-	128+200	128+300	Electrical Pole (2 nos)	20		
	25	Small Temple with Gate	128+300	128+350	Electrical Pole (2 nos)	20		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
			128+350	128+400	Electrical Pole (2 nos)	20		
	15	Electrical Pole	128+400	128+500	Electrical Poles (3 nos)	30		
			128+500	128+550	Electrical Poles (2 nos)	20		
			128+550	128+600	Electrical Poles	10		
			128+600	128+700	Shops (6 nos) & Houses (2 nos), Electrical Poles (5 nos)	40		
	60	Fencing, Trees & Jungle	128+700	128+800	-	-		
	40	Indian Oil Petrol Bunk, Small Temple, steel pole & Trees	128+800	128+900	-	-		
	50	Shops (9 nos), Transformer & Electrical Poles (5 nos)	128+950	129+000	Electrical Pole & Trees	20		
	30	Electrical Pole (3 nos), Street light & Steel arch	129+120	129+200	Under construction house, Trees & Jungle	40		
	30	Electrical Pole	129+200	129+300				
	50	Wooden work factory, Electrical Pole (4 nos)	129+700	129+750	Electrical Pole	50		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	50	Building, Electrical Pole, Trees (4 nos)	129+900	129+950	Compound Wall, Electrical Pole & Trees	50		
			129+950	130+000	Transformer, Electrical Poles (2 nos)	20		
	20	Electrical Pole	130+000	130+120	Electrical Poles (5 nos), Arch	20		
	60	Electrical Pole (3 nos)	130+120	130+200	Houses (3 nos), Electrical Poles (4 nos) & Transformer	60		
	50	Houses (2 nos), Electrical Pole	130+200	130+250	Houses (6 nos), Electrical Poles (2 nos)	50		
	50	Shops, Electrical Pole	130+300	130+350	Compound Wall, Electrical Pole (3 nos)	50		
	50	Houses (3 nos), Electrical Poles (2 nos)	130+350	130+400	Houses (6 nos), Electrical Poles (2 nos)	50		
	50	Houses (7 nos), Electrical Poles (2 nos)	130+400	130+450	Houses (3 nos)	50		
			130+550	130+600	Fencing Pole preparation shop, Trees & Jungle	20		
			130+600	130+700	Shops (6 nos), Electrical Poles (2 nos) & Trees	40		
	30	House with Gate (1 no), Electrical Pole (3 nos),	130+700	130+780	Trees, Electrical Poles & Culvert structure	30		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	10	Electrical Pole & Line crossing	130+780	130+800	Electrical Pole & Line crossing	10		
			130+800	130+900	Electrical Pole	40		
	20	Electrical Pole (3 nos),	130+900	131+000	Arch, Existing culvert, Electrical Pole,	20		
	20	Electrical Pole	131+000	131+100	Building (4 nos), Shop & Electrical Pole	40		
	20	Electrical Pole	131+100	131+200	Temple (1 no.)	25		
			131+200	131+300	Electrical Pole	20		
	30	Carpenter Shop, Electrical Pole (4 nos) & Jungle	131+300	131+400	Under construction building, Electrical Pole, Pump set, Trees & Jungle	30		
	40	Electrical Poles (2 nos)	131+400	131+500	Electrical Pole,	35		
			131+500	131+600	Marble showroom, Electrical Poles & Line crossing (2 nos), Trees & Jungle	40		
	20	Electrical Poles (2 nos)	131+600	131+700	Electrical Pole	20		
	40	High mast light, Sign boards, Houses (4 nos), Electrical Poles (3 nos) & Trees (8 nos)	131+700	131+800	Advertisement board, Fencing, Houses (4 nos), Electrical Poles (2 nos) & Trees	40		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	40	Cocunut farm	132+000	132+100	Trees & Jungle	40		
	60	Banana farm & Trees (10 nos)	132+100	132+200	Trees & Jungle	40		
	50	Houses (3 nos), Shop (1 no. & Electrical Pole	132+200	132+250	Electrical Pole, Trees & Jungle	50		
	60	House, Teak wood Trees, Banana & Cocunut Trees	132+300	132+400	Teak wood Trees, Banana & Cocunut Trees, Electrical Pole & Jungle	60		
	30	Teak wood Trees & Trees (6 nos)	132+500	132+600	Compound wall, Trees (6 nos) & Jungle	30		
	30	Bore well, Pump set, Electrical Poles (9 nos) & Line crossing & Trees	132+600	132+730	Under construction House (1 no.), Electrical Poles (4 nos) & Line crossing & Trees	30		
	50	Electrical Pole	132+800	132+900	Cocunut farm, Electrical Poles (2 nos), Teak wood Trees & Jungle	50		
	100	Banana farm, Pump set & Trees	132+900	133+000	Pump set, Banana farm, Electrical Poles (2 nos) & Line crossing & Cocunut Trees	100		
	100	Motor garage shop, Electrical Pole (2 nos) & Banana farm	133+000	133+100	Cocunut Trees, Existing culvert & Jungle	100		
	45	Temple, Hand pump, 1 no. of buildings, Electrical Poles (2 nos) & Trees	133+100	133+150	Electrical Poles (2 nos) & line crossing & Trees	20		
	50	High mast light, 3 no. of buildings, Electrical Poles (4 nos) & Trees	133+150	133+200	Houses (3 nos), Street lighting pole, Electrical Poles (2 nos) & Trees	50		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	50	Cocunut farm, Pump set & Trees	133+350	133+400	Trees & Jungle	50		
	50	Compound wall, Electrical Pole & Trees (7 nos)	133+400	133+500	Trees, Existing culvert & Jungle	30		
	60	Hotels (2 nos), Electrical Poles (2 nos) & Trees	133+500	133+600				
	30	Houses (2 nos), Electrical Pole (1 no.), School compound wall fencing	133+600	133+700	Compound wall, Transformer, Electrical Poles (2 nos), Arch & Trees (10 nos)	60		
	40	Compound Wall, Electrical Pole, Trees & Jungle	133+700	133+750	House (1 no.), Pond, Compound wall, building & Electrical Poles & Trees	40		
	30	House, Electrical Pole, Trees & Jungle	133+750	133+800	House, Electrical Poles & Trees	30		
	50	Houses (3 nos), Trees & Jungle	133+800	133+900	House (1 no.), Electrical Poles (3 nos), Trees & Jungle	40		
	30	Sign boards, Houses (2 nos), Building, Electrical Poles (2 nos),	133+900	133+950	Shops, Lighting Poles (2 nos) & Electrical Poles (2 nos)	30		
	30	High mast light, Sign boards & Electrical Poles	133+950	134+000	High mast light, Sign boards & Electrical Poles	30		
	30	House & Trees	134+080		House & Trees	30		Encroachment
	-	Railway Crossing	134+380		Railway Crossing	-		ROB @ CH: 134+345

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	20	Regulator & Trees	134+710		-	-	-	water regulator sluice to be relocated
	40	HT Tower	135+400					
	10	Electrical Pole & Line Crossing	136+100		Electrical Pole & Line Crossing	10		
	10	Road crossing, Electrical pole & Trees	136+300		Pattaswaram to Swamimalai Road	10		VUP @ CH: 136+282
	10	Electrical Pole & Line crossing	137+040		Electrical Pole & Line crossing	10		
	20	Road crossing & Electrical pole	137+100		House & Trees	20		
	-	-	137+150		Electrical Pole	10		
	70	Standing crop, Transformer, Electrical Pole & Trees	137+550	137+620	Standing crop, Road crossing (Pattaswaram to Sundaraperumalkoil) & Trees	70		
	10	Electrical Pole & Line Crossing	137+850		Electrical Pole & Line Crossing	10		
	10	Electrical Pole	137+900		Electrical Pole	10		
	150	Mango farm & Teak wood Trees	138+300	138+450	Pump set, Mango farm & Teak wood Trees	150		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	100	Pump set, Banana farm, Coconut farm & Canal crossing	138+450	138+550	Pump set, Banana farm, Coconut farm & Canal crossing	100		
	50	Fish pond	138+620	138+670				
	10	Electrical Pole & Line Crossing & Trees	138+680		Electrical Pole & Line Crossing & Trees	10		
	20	Road Crossing, Trees & EB Pole	138+730					
	20	Cocunut farm, Electrical Pole & Trees	138+730	138+750	Cocunut farm, Electrical Pole & Trees	20		
	50	Houses (7 nos), Trees & Electrical Poles	138+750	138+800	Cocunut farm, Banana farm & Teak wood Trees	50		
	20	Electrical Poles & Line Crossing, Road crossing & Trees	139+450		Electrical Poles & Line Crossing, Road crossing & Trees	20		
	-	-	139+460		Sump, Pump house & Bore Well	30		
	20	Small Temple	140+900		EB Pole & Line Crossing	20		
	15	Road crossing & Trees	141+102		Nallur to Avuru Road	15		
	-	Electrical Pole & Line Crossing & Trees	141+330		Electrical Pole & Line Crossing & Trees	-		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	20	Bore well, Pump house & Trees	142+260		EB Pole & Line Crossing	10		
	20	Bore Well	142+500		Electrical Pole & Line Crossing	10		
	80	Bamboo, Mango trees & Sugarcane farm	142+570	142+650	Bamboo, Mango trees & Sugarcane farm	80		
	20	High Tension Tower	142+850		-	-		
	-	-	143+100		High Tension Tower	20		
	20	EB Pole	143+600		EB Pole	20		
			143+850		Electrical Pole & Line Crossing & Trees	15		
	50	Teak wood trees	144+750		Teak wood trees	50		
	20	Temple	145+500		-	-		
	-	-	145+520		Pump Set & Electrical Pole	20		
	10	Electrical Pole & Line Crossing	146+000		Electrical Pole & Line Crossing	10		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	20	Pump set	146+050		Electrical Pole & Line Crossing	10		
	10	Electrical Pole & Line Crossing	146+070					
	20	Pump set & Trees	146+130		Electrical Pole & Line Crossing	10		
	10	Electrical Pole	146+200		-	-		
	20	Electrical Pole	146+300		Electrical Pole	20		
	20	Electrical Pole & Line Crossing	146+700	146+720	Electrical Pole & Line Crossing & Trees	20		
	1500	Existing Canal	146+600	148+100	Existing Canal	1500		
	10	Nala Crossing, Trees & Electrical Pole	146+780		Nala Crossing, Trees & Electrical Pole	10		
	20	Pump set, River Crossing, Trees & Electrical Pole	146+830		River Crossing, Trees & Electrical Pole	20		
	20	Pump set	146+900		Trees & EB Pole	20		
	30	Nala Crossing & Trees	146+900		Nala Crossing & Trees	30		

















Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	15	Pump set	147+050		-	-		
			147+100		High Tension Tower	40		
	20	High Tension Tower	147+330		-	-		
	20	Bore well & Pump house	147+380		-	-		
	30	Nala Crossing & Trees	147+370	147+400	House	30		
	-	-	147+410	147+450	Houses, Trees & Electrical Line	40		
	20	Teak wood trees	147+520		Teak wood trees	20		
	30	Electrical Pole & Line Crossing	147+880		Electrical Pole & Line Crossing	30		
	20	Road Crossing, Trees & EB Pole	147+900		Road Crossing, Trees & EB Pole	20		
			147+900	148+020	EB Pole	50		
	250	Pump set & EB Pole	148+300	148+550	Pump set & EB Pole	250		











Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	10	EB Pole & trees (5 nos)	149+100		Pump set & EB Pole	20		
	10	EB Electrical Pole	149+150		EB Electrical Pole	10		
	20	Pump set	149+900		Pump set & Electrical Pole	20		
	20	Pump house	150+610		EB Pole & Line crossing & Trees (2 nos)	10		
	70	River Crossing, Trees & EB Pole	150+780		Regulator & trees	70		
		Existing Sluice	150+800		Existing Sluice			
			151+500	151+630	Electrical Pole	50		
	20	Pump set & Electrical Pole & line crossing	151+650		Electrical Pole	20		
	-	Road Crossing, Trees & EB Pole	152+350		Sulamangalam to Palasakudi Road existing culvert	-		
		Existing Sluice	152+900		Existing Sluice			
	20	Canal Crossing & Trees	152+900		Canal Crossing & Trees	20		




Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	10	EB Pole & Trees	153+500		EB Pole & Trees	10		
	15	Electrical Tower	153+720		Electrical Pole & Trees	15		
	40	Houses (6 nos), Electrical pole & Trees	154+590	154+630	Houses (6 nos), Electrical pole & Trees	40		
	120	Bamboo trees & trees & Canal crossing	154+630	154+750	Bamboo trees & trees & Canal crossing	120		
	10	Electrical Pole	154+650		Electrical Pole & Trees	15		
	90	Houses (4 nos) & Trees	154+680	154+770	Bamboo trees	90		
	50	Electrical poles	155+950	155+080	Electrical poles	50		
	10	Pump set & Electrical poles	155+760	155+770	Road crossing	10		
	20	Water tank & Trees	155+780					
	10	Canal crossing & Electrical Pole & Line crossing	156+000		Canal crossing & Electrical Pole & Line crossing	10		
	20	Electrical Pole	156+420	156+440	Teak wood trees	20		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	10	Road Crossing, Trees & EB Pole	156+470	156+480	Kondavattanthidal & Perunakkanallur	10		
	70	Road Crossing, Trees & EB Pole	156+480	156+550	Kondavattanthidal & Perunakkanallur	70		
	60	River crossing & Trees	156+700		River crossing & Trees	60		
	50	Electrical pole	157+150		Electrical pole	50		
	20	Canal crossing, Jungle & Trees	159+510		Canal crossing, Jungle & Trees	10		
	150	Agricultural Land (Court case)	161+050	161+200	Agricultural Land (Court case)	150		
			162+150	162+250	House, Trees (5 nos), Bore well & Pump Set	100		
	-	-	163+620	163+650	Houses (2 nos), Electrical pole, Road Crossing & Trees	30		
	400	River crossing, Jungle & Trees	163+700	164+100	River crossing, Jungle & Trees	400		
	25	Shops (6 nos)	164+250	164+275	Trees (7 nos)	25		

3.1. Pre-Construction Activities

Detailed Design & Drawings

The Plan and Profile, as well as the Pavement Designs for the entire 47.835 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	Design submitted	Drawing Approved
1	Pavement Design	Km	47.835	47.835	47.835
2	Plan & Profile	Km	47.835	47.835	47.835
3	Typical Cross Sections	Type	5	5	-
4	Major Intersections	No	20	-	-
5	Minor Intersections	No	22	-	-
6	Toll Plaza (Typical Details)	No	01	-	-
7	Rest Area	No	01	-	-
8	Bus Bay	No	05	-	-
9	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	06	0	-
2	Minor Bridges	No	56	44	44
3	Grade Separated Intersection	No	06	6	6
4	VUP/PUP	No	12	12	10
5	Box /Slab Culvert	No	103	75	75
6	ROB	No	01	0	GAD approved

4.1. Physical Progress of Work

The following table summarize the quantum of work achieved towards the construction of the various elements of the highway.

The Progress of the Major Works carried out at the Site in the Month of March 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	46.925	25.34	2.45	27.79	0	19.135	59.22%
	RHS	46.925	24.34	3.54	27.88	0	19.045	59.41%
2	Embankment							
	LHS	46.925	0	0	0	3.72	46.925	0.00%
	RHS	46.925	0	0	0	3.37	46.925	0.00%
3	Sub grade							
	LHS	46.925	0	0	0	0	46.925	0.00%
	RHS	46.925	0	0	0	0	46.925	0.00%
4	GSB/ Cement Treated Base							
	LHS	46.925	0	0	0	0	46.925	0.00%
	RHS	46.925	0	0	0	0	46.925	0.00%
5	Wet Mix Macadam							
	LHS	46.925	0	0	0	0	46.925	0.00%
	RHS	46.925	0	0	0	0	46.925	0.00%
6	Dense Bitumen Macadam							
	LHS	46.925	0	0	0	0	46.925	0.00%
	RHS	46.925	0	0	0	0	46.925	0.00%
7	Bituminous Concrete							
	LHS	46.925	0	0	0	0	46.925	0.00%
	RHS	46.925	0	0	0	0	46.925	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	27.1	0	0	0	0	27.1	0.00%
2	Sub grade	27.1	0	0	0	0	27.1	0.00%
3	GSB/ Cement Treated Base	27.1	0	0	0	0	27.1	0.00%
4	Wet Mix Macadam	27.1	0	0	0	0	27.1	0.00%
5	Dense Bitumen Macadam	27.1	0	0	0	0	27.1	0.00%
6	Bituminous Concrete	27.1	0	0	0	0	27.1	0.00%

Structure Work

Sr. No.	Type of Structure	Total No. of Structures	No. of Structures		
			Completed	In Progress	Balance
1	Culvert	103	10	17	76
2	Light Vehicular Underpass	2	0	0	2
3	Vehicular Underpass	10	0	4	6
4	Minor Bridges	56	0	18	38
5	Major Bridge	5	0	0	5
6	Flyover	6	0	2	4

Physical Progress of Project upto March 2019 as per approved Schedule G

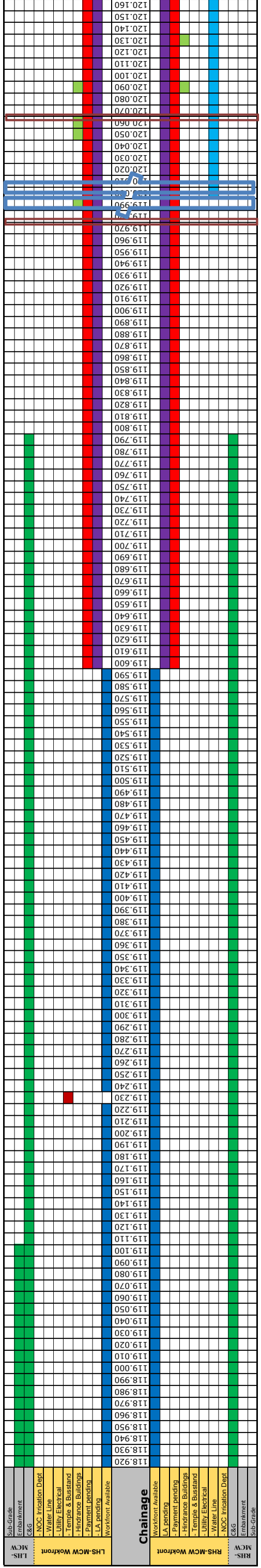
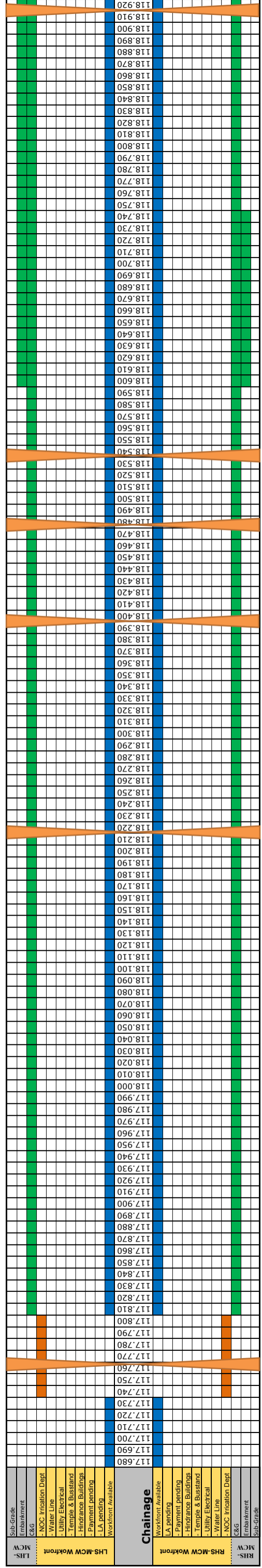
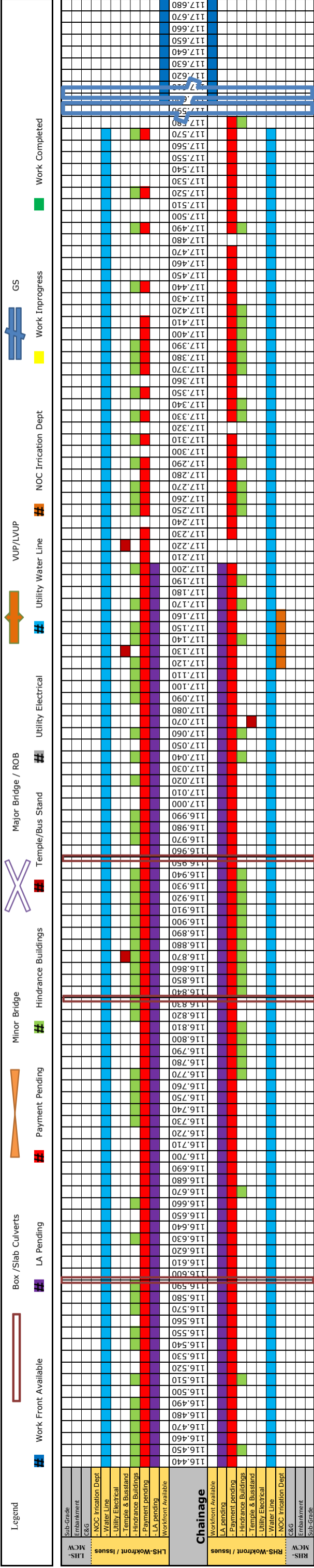
Item	Stage for Payment	Unit	Qty.	Weightage in % to Contract Price	EPC Cost	Completed upto March'19	% Physical Progress
Road works including culverts, minor bridges, underpasses, overpasses, approaches to ROB/RUB/ Major Bridges/ Structures (but excluding service roads)	A- Widening and strengthening of existing road						
	(1) Earthwork up to top of the sub-grade	Km	28.70	4.26%	519,272,303	0	0.000%
	(2) Granular work (sub-base, base, shoulders)						
	(a) GSB/ Cement Treated Base	Km	28.70	1.40%	170,936,391	0	0.000%
	(b) WMM/ Cement Treated Base	Km	28.70	2.10%	256,107,233	0	0.000%
	(3) Shoulders	Km	7.10	0.07%	8,542,507	0	0.000%
	(4) Bituminous work						
	(a) DBM	Km	28.70	2.58%	315,256,632	0	0.000%
	(b) BC	Km	28.70	1.23%	149,555,890	0	0.000%
	(5) Rigid Pavement						
	Concrete Work	Km					
	(6) Widening and Repair of Culverts	Nos.	33	0.57%	69,770,068	3	0.052%
	(7) Widening and Repair of Minor Bridges	Nos.	3	0.38%	46,459,360	0	0.000%
	B- New realignment/bypass						
	(1) Earthwork up to top of the sub-grade	Km	63.33	18.30%	2,233,067,313	0	0.000%
	(2) Granular work (sub-base, base, shoulders)						
	(a) GSB/ Cement Treated Base	Km	62.13	3.83%	466,990,320	0	0.000%
	(b) WMM/ Cement Treated Base	Km	62.13	3.39%	414,159,855	0	0.000%
	(3) Shoulders	Km	48.19	0.06%	7,437,622	0	0.000%
	(4) Bituminous work						
	(a) DBM	Km	62.13	4.08%	498,126,648	0	0.000%
	(b) BC	Km	62.13	1.89%	230,657,685	0	0.000%
	(5) Rigid Pavement						
Concrete Work	Km						
C- New culverts, minor bridges, underpasses, overpasses on existing road, realignments, bypasses:							

	(1) Culverts	Nos.	70	3.35%	408,104,075	7	0.335%
	(2) Minor bridges						
	(i) Foundation	Nos.	170	2.59%	315,918,116	25	0.381%
	(ii) Substructure	Nos.	270	4.23%	516,611,350	8	0.125%
	(iii) Superstructure (including crash barrier etc. complete)	Nos.	142	2.77%	337,964,999	3	0.059%
	(3) Cattle/Pedestrian underpasses						
	(i) Foundation	Nos.	4	0.04%	5,419,308	0	0.000%
	(ii) Substructure	Nos.	8	0.08%	10,259,833	0	0.000%
	(iii) Superstructure (including crash barrier etc. complete)	Nos.	4	0.06%	6,833,282	0	0.000%
	(4) Pedestrian overpasses						
	(i) Foundation	Nos.					
	(ii) Substructure	Nos.					
	(iii) Superstructure (including crash barrier etc. complete)	Nos.					
	(5) Grade separated structures						
	(a) Underpass (10 VUP)						
	(i) Foundation	Nos.	40	0.88%	107,231,174	0	0.000%
	(ii) Substructure	Nos.	40	0.45%	55,140,162	0	0.000%
	(iii) Superstructure (including crash barrier etc. complete)	Nos.	20	1.10%	133,601,879	0	0.000%
	(c) Vehicular Overpass (VOP)						
	(i) Foundation	Nos.					
	(ii) Substructure	Nos.					
	(iii) Superstructure (including crash barrier etc. complete)	Nos.					
	(c) Flyover						
	(i) Foundation	Nos.	24	0.53%	64,392,522	0	0.000%
	(ii) Substructure	Nos.	24	0.27%	32,724,417	0	0.000%
	(iii) Superstructure (including crash barrier etc. complete)	Nos.	12	0.99%	121,353,535	0	0.000%
Major Bridge works and ROB/RUB	Major Bridge works and ROB/RUB						
	A- Widening and Repair of Major Bridges						
	(1) Foundations						
	(a) Open Foundation	Nos.					
	(b) Pile foundation/ well foundation	Nos.					
	(2) Substructure	Nos.					
	(3) Superstructure (including crash barrier etc. complete)	Nos.					
	C- New Major Bridges						
	(1) Foundations						
	(a) Open Foundation	Nos.					
	(b) Pile foundation/ well foundation	Nos.	76	2.97%	362,948,697	0	0.000%
	(2) Substructure	Nos.	76	2.03%	247,891,439	0	0.000%
	(3) Superstructure (including crash barrier etc. complete)	Nos.	62	1.80%	220,134,715	0	0.000%
	D- New rail-road bridges						
	(a) ROB						
	(i) Foundation	Nos.	8	0.24%	29,661,791	0	0.000%

	(ii) Substructure	Nos.	8	0.10%	11,743,816	0	0.000%
	(iii) Superstructure (including crash barrier etc. complete)	Nos.	6	1.15%	140,521,840	0	0.000%
Structures (elevated sections, reinforced earth)	Structures (elevated sections, reinforced earth)						
	(1) Foundation	Nos.					
	(2) Substructure	Nos.					
	(3) Superstructure (including crash barrier etc. complete)	Nos.					
	(4) Reinforced earth Wall (includes Approaches of ROB, Underpasses, Overpasses, Flyover etc)		179469	8.52%	1,039,316,050	16030.6	0.761%
Other Works	Other Works						
	(i) Service roads/ Slip Roads	Km	27.1	3.86%	471,400,417	0	0.000%
	(ii) Toll Plaza	Nos.	1	1.88%	229,582,408	0	0.000%
	(iii) Road side drains	Km	12.08	1.64%	199,647,643	0	0.000%
	(iv) Road signs, markings, km stones, safety devices,						
	(a) Road signs, markings, km stones, ...	Km	95.67	2.02%	246,551,185	0	0.000%
	(b) Concrete Crash Barrier/ W-Beam Crash Barrier in Road work	Km					
	(i) Concrete Crash Barrier	Km	25.42	3.33%	406,225,063	0	0.000%
	(ii) W-Beam Crash Barrier	Km	32.75	0.70%	85,591,943	0	0.000%
	(v) Project facilities						
	(a) Bus Bays	No.	5	0.01%	634,269	0	0.000%
	(b) Truck Lay-byes	No.					
	(b) Rest areas	No.	1	0.22%	26,711,041	0	0.000%
	(vi) Repairs to bridges/structures	Nos.					
	(vii) Road side plantation	Km	22.54	0.60%	72,902,915	0	0.000%
	(viii) Protection works						
	(a) Boulder pitchin on slopes	Km	32.75	0.19%	22,967,180	0	0.000%
	(b) Toe/Retaining wall	Km					
	(x) Miscellaneous	Ls.	100%	7.24%	883,673,107	28%	2.036%
	Total			100.00%	12,200,000,000		3.748%

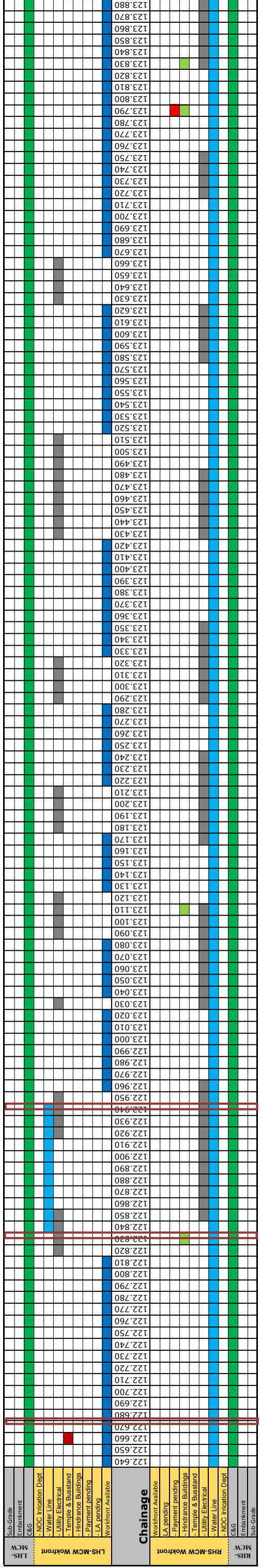
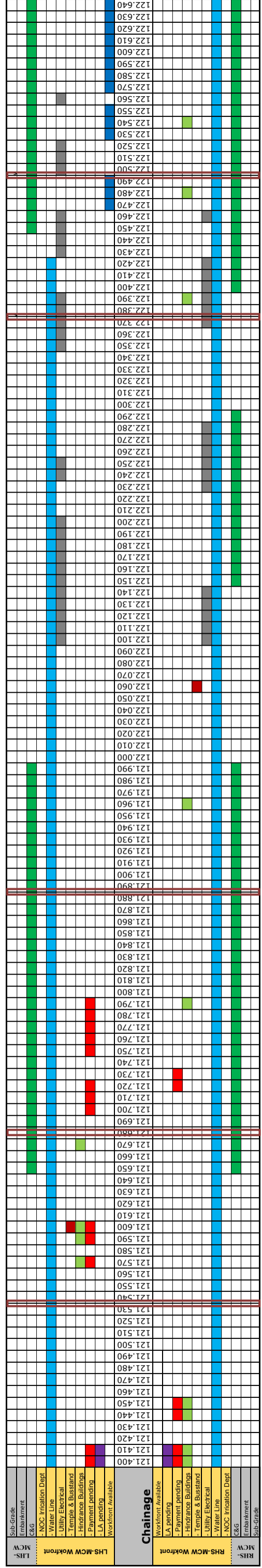
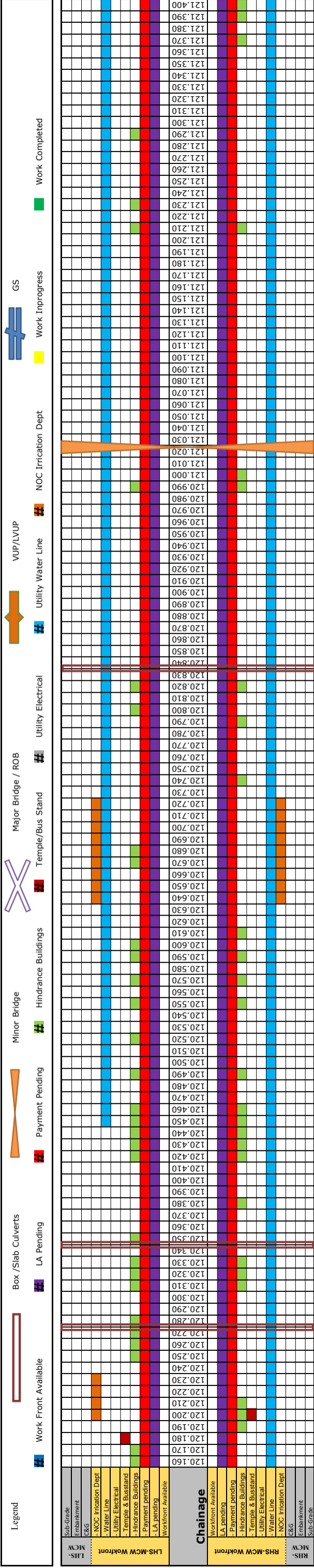
Four Laning of Cholopuram to Thanjavur from Km.116.440 to Km.164.275 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode
Cholopuram - Thanjavur Project

Strip Chart as on 31-03-2019



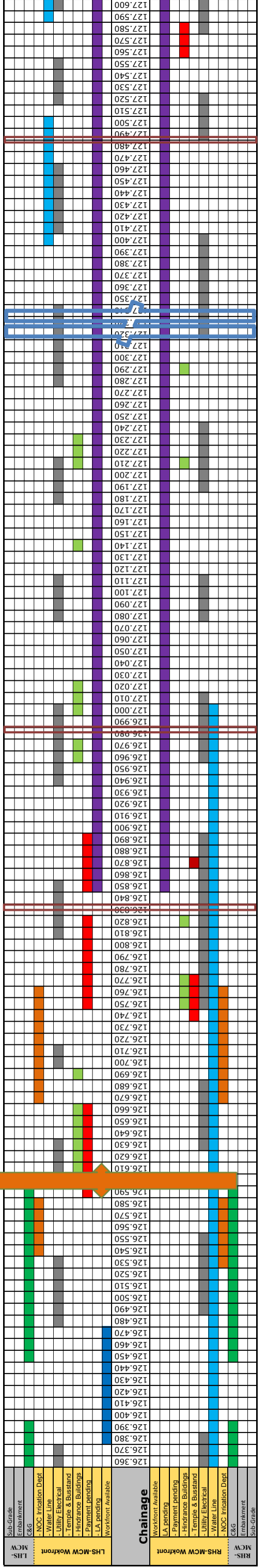
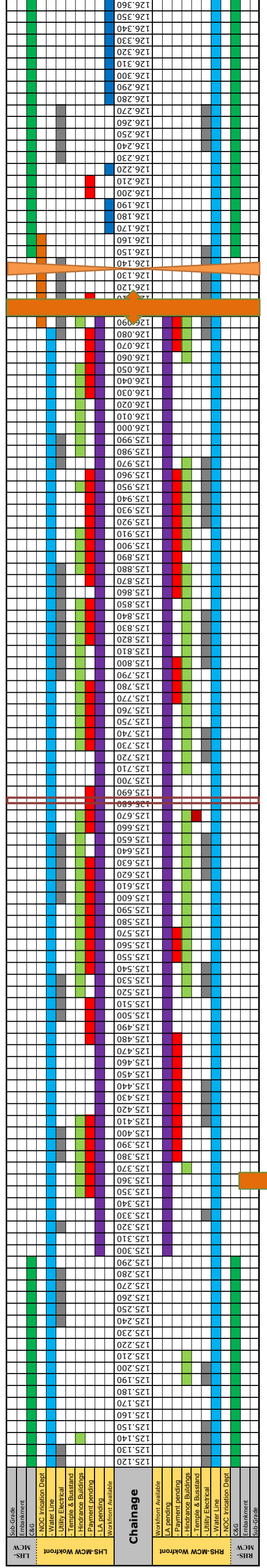
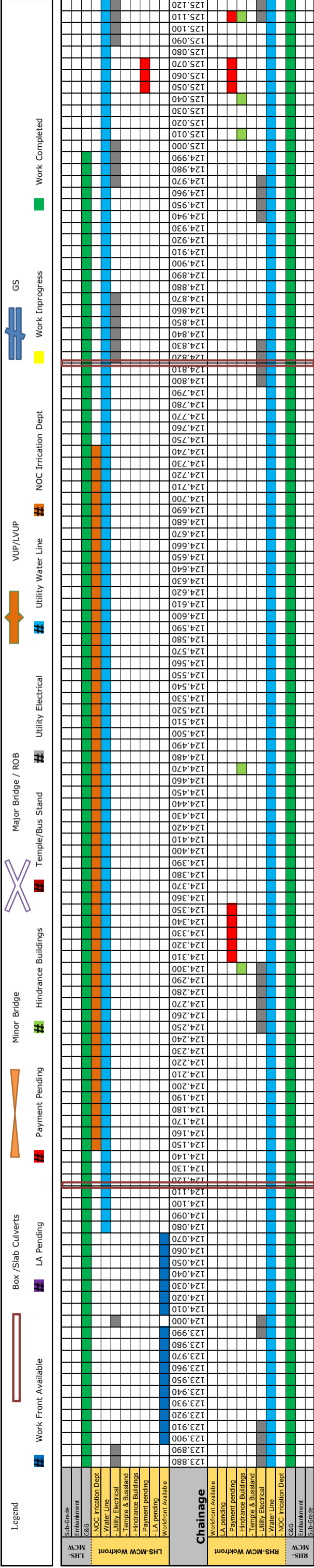
Four Laning of Cholopuram to Thanjavur from Km.116.440 to Km.164.275 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode
Cholopuram - Thanjavur Project

Strip Chart as on 31-03-2019



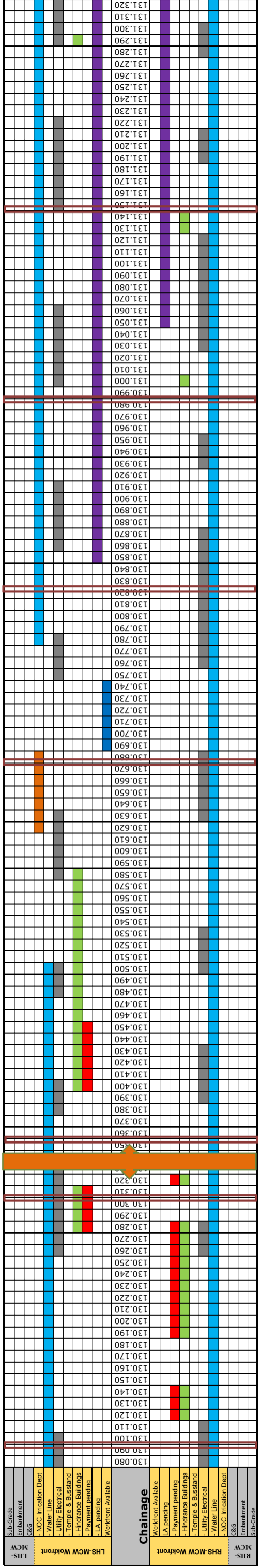
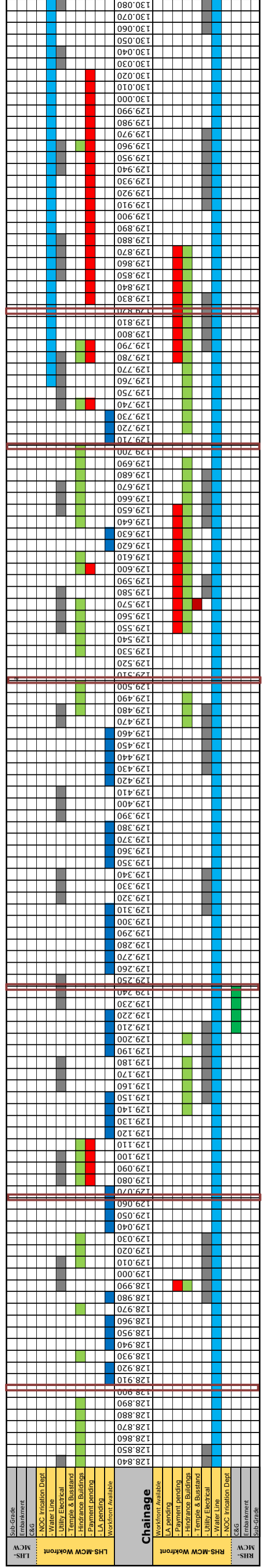
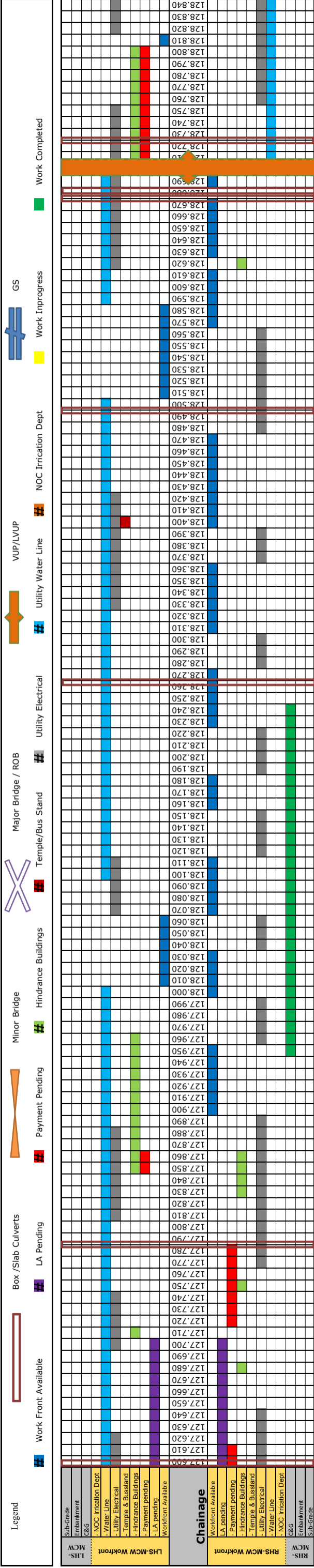
Four Laning of Cholopuram to Thanjavur from Km.116.440 to Km.164.275 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode
Cholopuram - Thanjavur Project

Strip Chart as on 31-03-2019



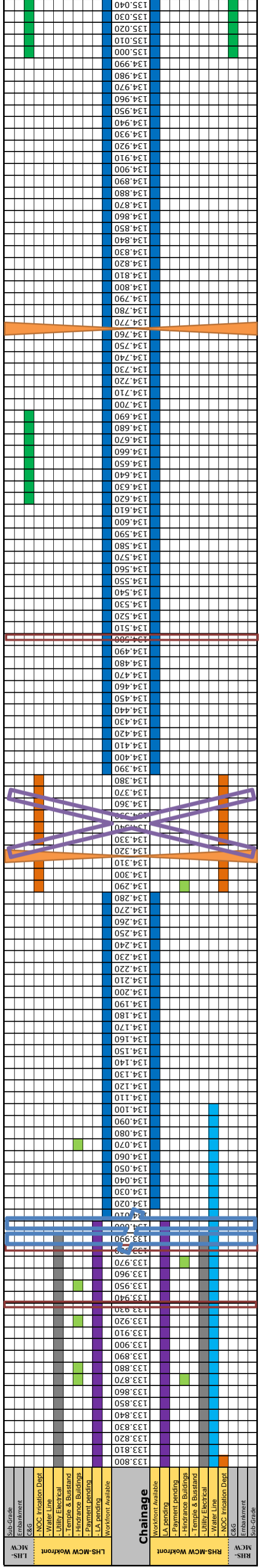
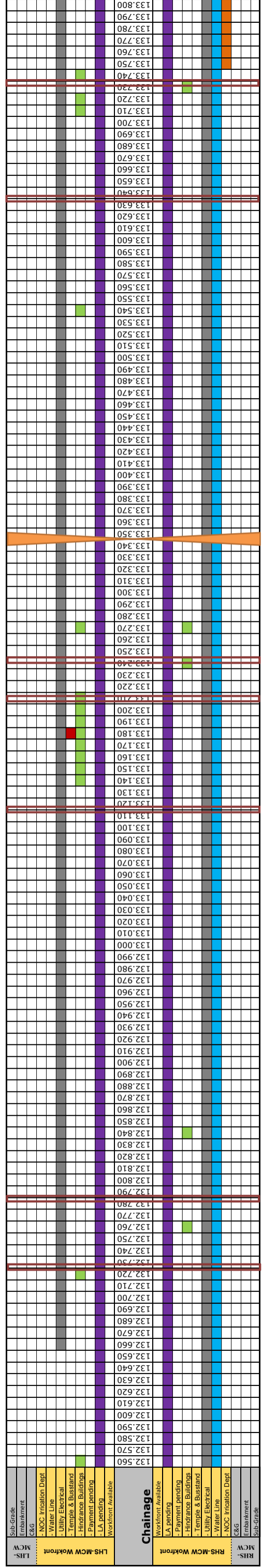
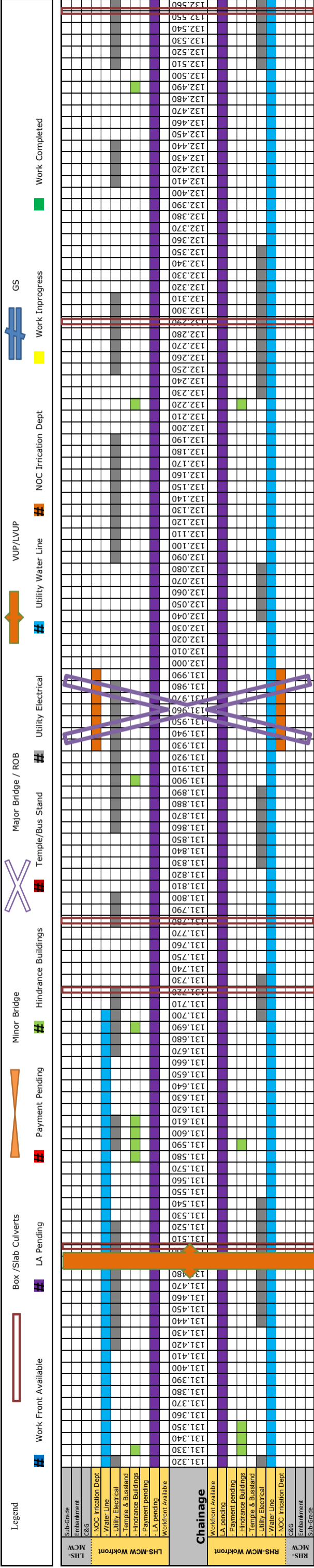
Four Laning of Cholopuram to Thanjavur from Km.116.440 to Km.164.275 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode
Cholopuram - Thanjavur Project

Strip Chart as on 31-03-2019



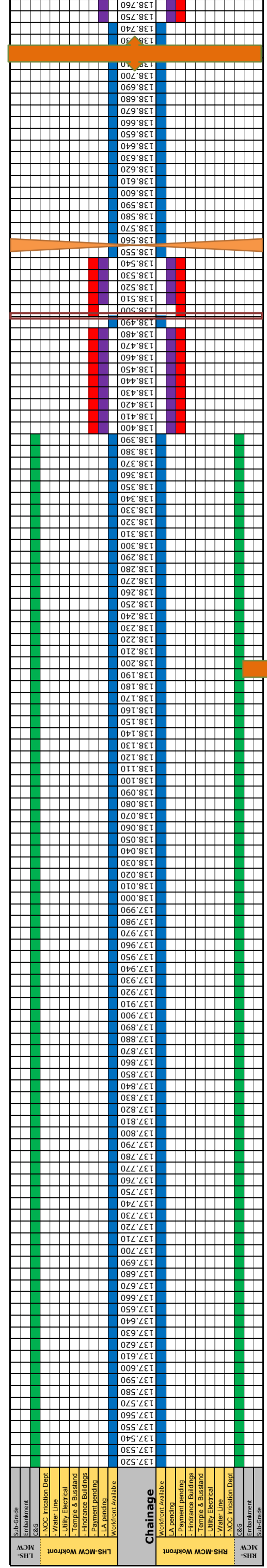
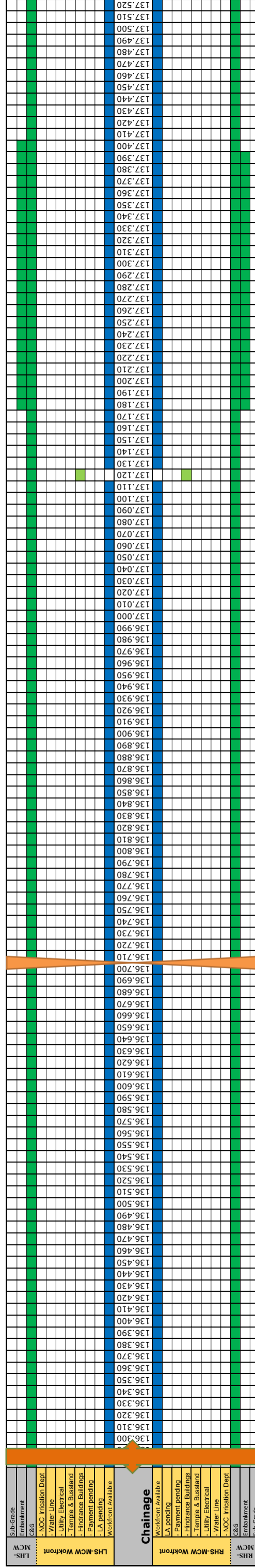
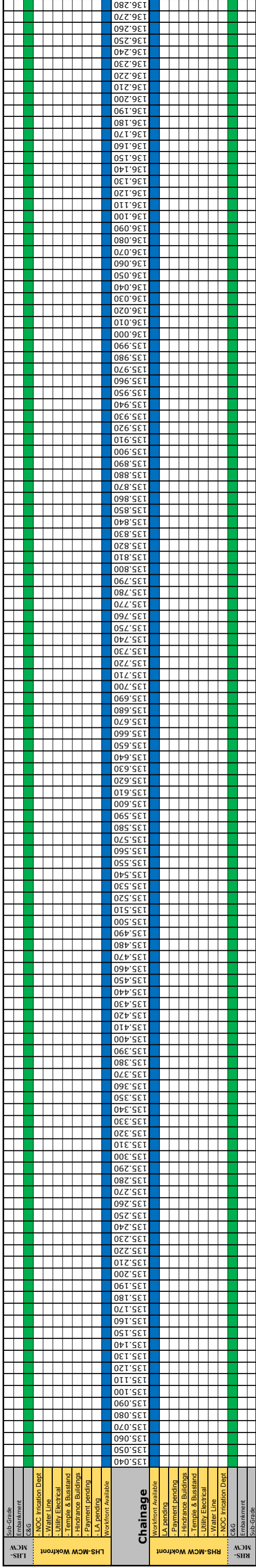
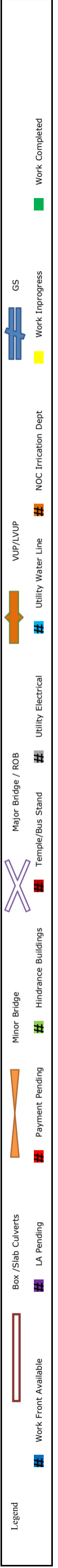
Four Lining of Cholopuram to Thanjavur from Km.116.440 to Km.164.275 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode
Cholopuram - Thanjavur Project

Strip Chart as on 31-03-2019



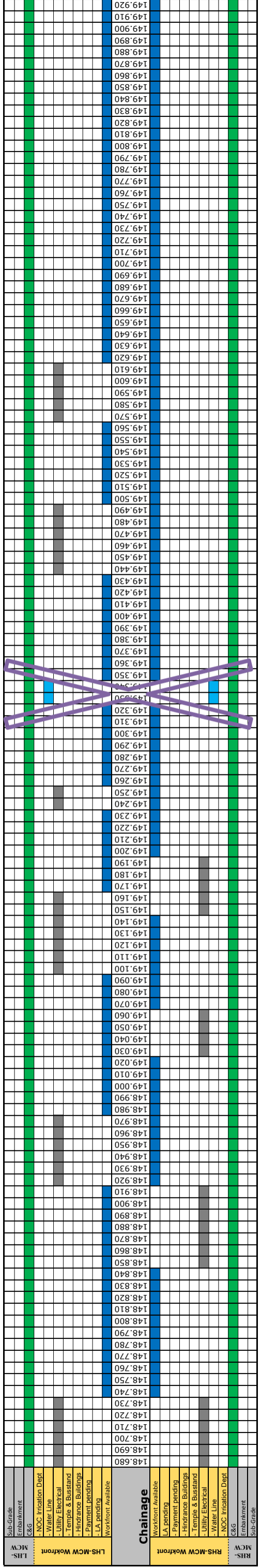
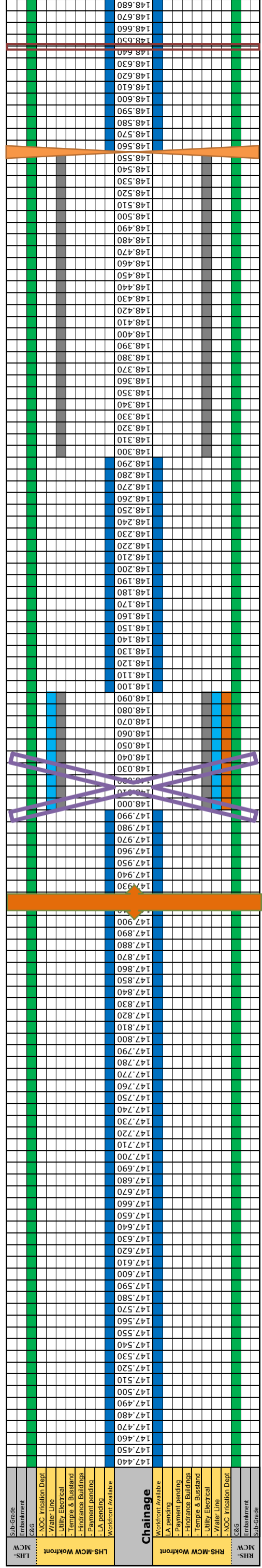
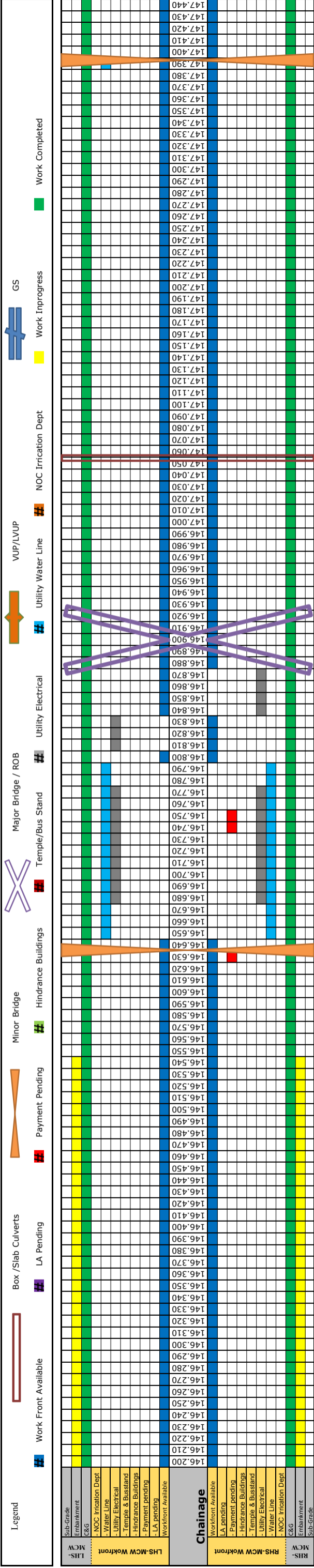
Four Laning of Cholopuram to Thanjavur from Km.116.440 to Km.164.275 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode
Cholopuram - Thanjavur Project

Strip Chart as on 31-03-2019



Four Laning of Cholopuram to Thanjavur from Km.116.440 to Km.164.275 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode
Cholopuram - Thanjavur Project

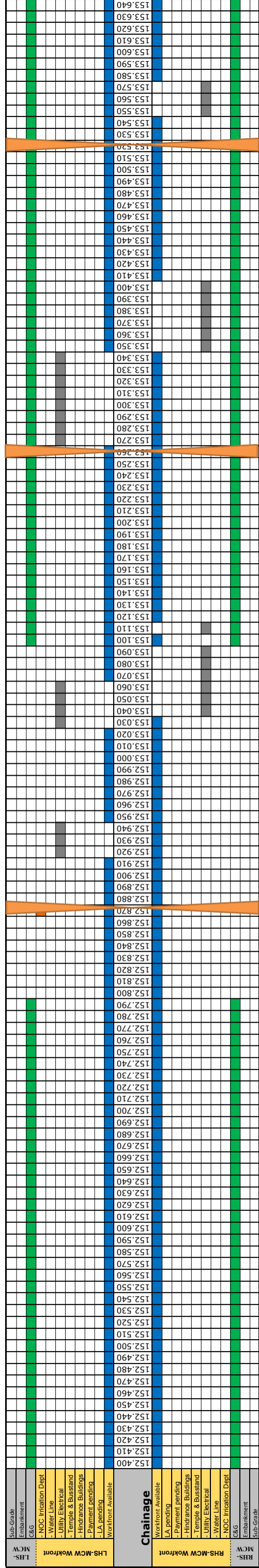
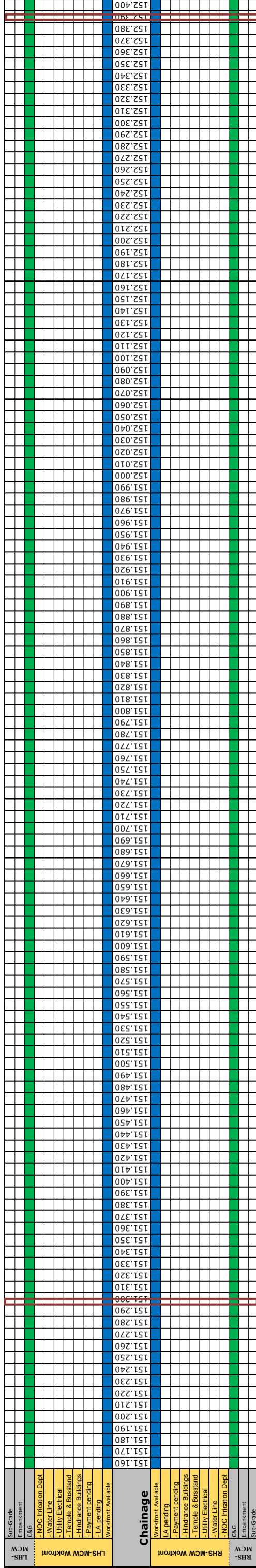
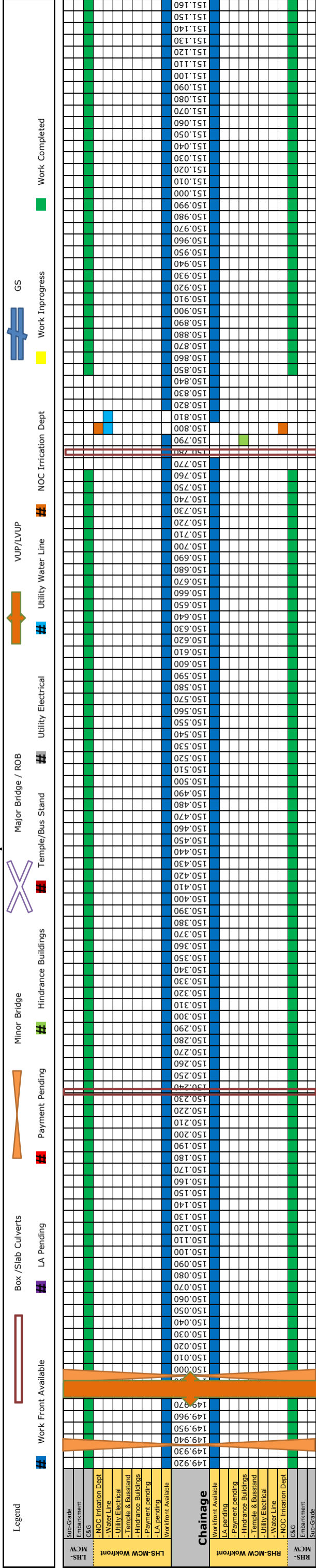
Strip Chart as on 31-03-2019



Four Lining of Cholopuram to Thanjavur from Km.116.440 to Km.164.275 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode

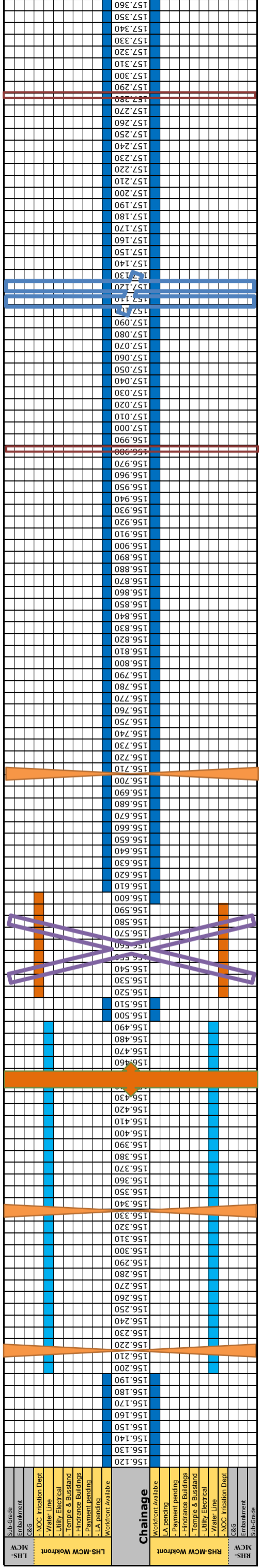
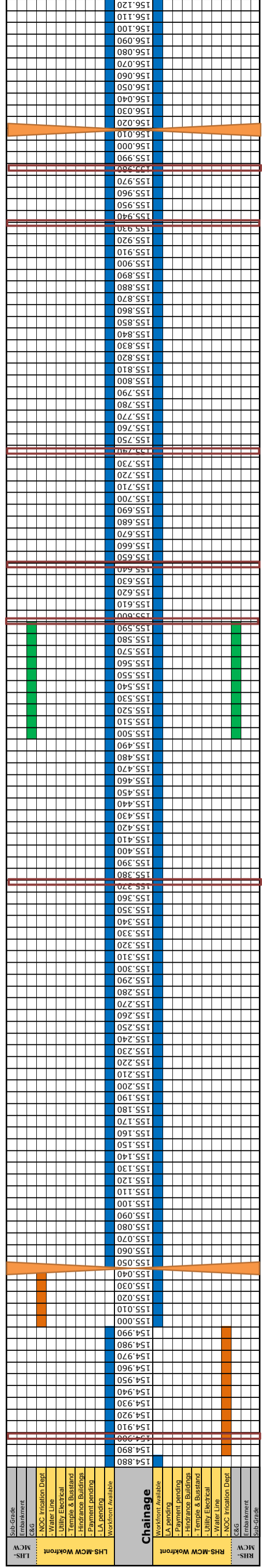
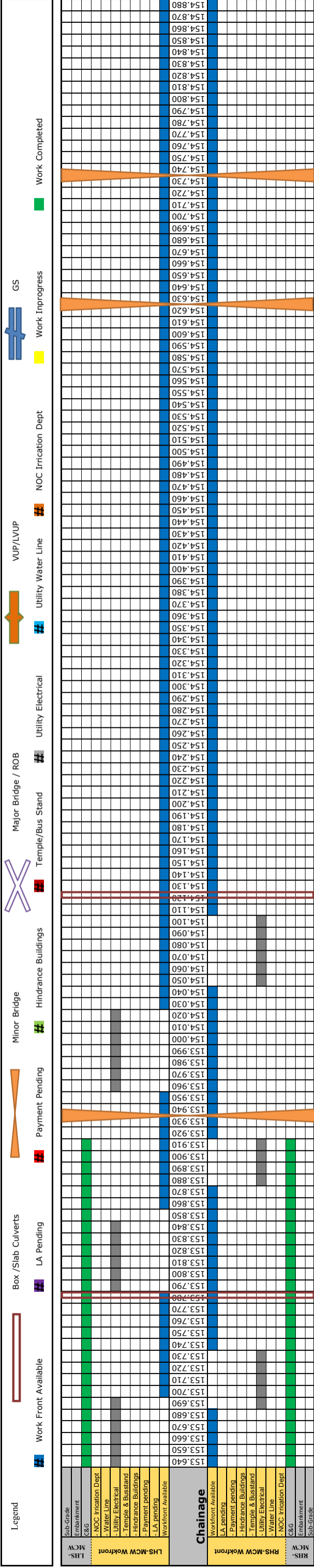
Cholopuram - Thanjavur Project

Strip Chart as on 31-03-2019



Four Laning of Cholopuram to Thanjavur from Km.116.440 to Km.164.275 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode
Cholopuram - Thanjavur Project

Strip Chart as on 31-03-2019



Four Lining of Cholopuram to Thanjavur from Km.116.440 to Km.164.275 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode

Table 4.2 - 1 : Strip Chart for status of Box Culverts on Existing Road

MPR		IN PROGRESS										COMPLETED											
MARCH 2019		LHS										RHS											
Sr. No.	Design Chainage As per CA	Revised Design Chainage	Number and Length of Spans (m)	Remarks (As per Schd B)	Type of Existing Structure	Protection Work	Return Wall & Forapet	Slab	Wall	Raft	PCC	Granular Filling	Excavtion	Excavtion	Granular Filling	PCC	Raft	Wall	Slab	Return Wall & Forapet	Protection Work		
1	116.602		1 x 2.0m	Widening	Slab Culvert																		
2	116.837		1 x 2.0m	Widening	Slab Culvert																		
3	116.954		1 x 1.6m	Widening	Slab Culvert																		
4	120.068		1 x 3.0	Reconstruction	Slab Culvert																		
5	120.280		1 x 1.5	Reconstruction	Slab Culvert																		
6	120.346		1 x 1.5	Reconstruction	Box Culvert																		
7	120.636		1 x 2.0m	Widening	Box Culvert																		
8	121.540		1 x 3.0m	Widening	Slab Culvert																		
9	121.683		1 x 1.5m	Widening	Slab Culvert																		
10	121.885		2 x 1.0m	Widening	Pipe Culvert																		
11	122.375	122.375	1 x 1.0m	Widening	Pipe Culvert																		
12	122.497	122.508	2 x 1.0m	Widening	Pipe Culvert																		
13	122.678	122.678	2 x 1.0m	Widening	Pipe Culvert																		
14	122.835	122.845	1 x 3.0m	Widening	Slab Culvert																		
15	122.943	122.952	2 x 1.0m	Widening	Pipe Culvert																		
16	124.118	124.120	1 x 1.5m	Widening	Slab Culvert																		
17	124.820	124.823	1 x 1.0m	Widening	Pipe Culvert																		
18	125.682		1 x 1.5m	Widening	Slab Culvert																		
19	126.836		1 x 3.0	Reconstruction	Slab Culvert																		
20	126.987		1 x 2.0	Reconstruction	Slab Culvert																		
21	127.488		1 x 1.2	Reconstruction	Pipe Culvert																		
22	127.600		3 x 1.2	Reconstruction	Pipe Culvert																		
23	127.788		1 x 0.9m	Widening	Pipe Culvert																		
24	128.267		1 x 0.9m	Widening	Pipe Culvert																		
25	128.494		1 x 1.2	Reconstruction	Pipe Culvert																		
26	128.675		1 x 2.0	Reconstruction	Box Culvert																		
27	128.682		1 x 2.0	Reconstruction	Slab Culvert																		
28	128.727		3 x 1.2	Reconstruction	Pipe Culvert																		
29	128.904		1 x 1.2	Reconstruction	Pipe Culvert																		
30	129.067		1 x 1.2	Reconstruction	Pipe Culvert																		
31	129.246		1 x 0.9m	Widening	Pipe Culvert																		
32	129.507		1 x 3.0m	Widening	Slab Culvert																		
33	129.707		1 x 2.5m	Widening	Slab Culvert																		
34	129.823		1 x 0.9m	Widening	Pipe Culvert																		
35	130.096		1 x 1.2	Reconstruction	Pipe Culvert																		
36	130.307	130.318	1 x 1.5	Reconstruction	Slab Culvert																		
37	130.357	130.368	1 x 1.5	Reconstruction	Slab Culvert																		
38	130.680		2 x 1.2	Reconstruction	Pipe Culvert																		
39	130.827		1 x 0.9m	Widening	Pipe Culvert																		
40	130.989		1 x 3.0m	Widening	Slab Culvert																		
41	131.146	131.159	1 x 0.9m	Widening	Pipe Culvert																		
42	131.505		1 x 3.0	Reconstruction	Slab Culvert																		
43	131.722		1 x 1.2	Reconstruction	Pipe Culvert																		
44	131.780		1 x 1.2	Reconstruction	Pipe Culvert																		
45	132.300		1 x 3.0m	Widening	Slab Culvert																		
46	132.557		1 x 3.0m	Widening	Slab Culvert																		
47	132.730		1 x 3.0m	Widening	Slab Culvert																		
48	132.789		1 x 2.0m	Widening	Slab Culvert																		
49	133.115		1 x 5.0m	Widening	Slab Culvert																		
50	133.210		1 x 2.0m	Widening	Slab Culvert																		
51	133.240		1 x 0.9m	Widening	Pipe Culvert																		
52	133.635		1 x 2.0	Reconstruction	Slab Culvert																		
53	133.734		1 x 2.0	Reconstruction	Slab Culvert																		
54	133.935		1 x 1.2	Reconstruction	Pipe Culvert																		
55	133.987		1 x 1.5	Reconstruction	Slab Culvert																		
56	163.700		2 x 0.9m	Widening	Pipe Culvert																		
57	163.793		1 x 0.9m	Widening	Pipe Culvert																		

Four Lining of Cholopuram to Thanjavur from Km.116.440 to Km.164.275 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode

Table 4.2 - 2 : Strip Chart for status of Box Culverts on Bypass										COMPLETED											
MPR MARCH 2019										IN PROGRESS						RHS					
Sr. No.	Design Chainage As per CA	Revised Design Chainage	Number and Length of Spans (m)	Remarks	Type of Structure	Protection Work	Return Wall & Parapet	Slab	Wall	Raft	PCC	Excavation	Granular Filling	PCC	Raft	Wall	Slab	Return Wall & Parapet	Protection Work		
1	119.971		1 x 1.5	Reconstruction	Slab Culvert																
2	134.500		1 x 2.0m x 2.0m	New Construction	Box Culvert																
3	138.492		1 x 4.0m x 2.0m	New Construction	Box Culvert																
4	139.827	139.856	1 x 2.0m x 2.0m	New Construction	Box Culvert																
5	140.010	140.040	1 x 2.0m x 2.0m	New Construction	Box Culvert																
6	140.292	140.322	1 x 3.0m x 2.0m	New Construction	Box Culvert																
7	140.911	140.945	1 x 4.0m x 2.0m	New Construction	Box Culvert																
8	142.189	142.048	1 x 4.0m x 2.0m	New Construction	Box Culvert																
9	142.776	142.812	1 x 4.0m x 2.0m	New Construction	Box Culvert																
10	144.426		1 x 4.0m x 2.0m	New Construction	Box Culvert																
11	146.049	146.079	1 x 3.0m x 2.0m	New Construction	Box Culvert																
12	147.060	147.093	1 x 4.0m x 2.0m	New Construction	Box Culvert																
13	148.650	148.650	1 x 4.0m x 2.0m	New Construction	Box Culvert																
14	150.237		1 x 4.0m x 2.0m	New Construction	Box Culvert																
15	150.780		1 x 4.0m x 2.0m	New Construction	Box Culvert																
16	152.390		1 x 4.0m x 2.0m	New Construction	Box Culvert																
17	153.781		1 x 2.0m x 2.0m	New Construction	Box Culvert																
18	154.129		1 x 4.0m x 2.0m	New Construction	Box Culvert																
19	154.900		1 x 3.0m x 2.0m	New Construction	Box Culvert																
20	155.381		1 x 3.0m x 2.0m	New Construction	Box Culvert																
21	155.601		1 x 4.0m x 2.0m	New Construction	Box Culvert																
22	155.645		1 x 3.0m x 2.0m	New Construction	Box Culvert																
23	155.743		1 x 2.0m x 2.0m	New Construction	Box Culvert																
24	155.938		1 x 4.0m x 2.0m	New Construction	Box Culvert																
25	156.984		1 x 3.0m x 2.0m	New Construction	Box Culvert																
26	157.283		1 x 4.0m x 2.0m	New Construction	Box Culvert																
27	157.678		1 x 4.0m x 2.0m	New Construction	Box Culvert																
28	158.283		1 x 2.0m x 2.0m	New Construction	Box Culvert																
29	158.531		1 x 2.0m x 2.0m	New Construction	Box Culvert																
30	158.639		1 x 2.0m x 2.0m	New Construction	Box Culvert																
31	158.852		1 x 5.0m x 2.0m	New Construction	Box Culvert																
32	159.282		1 x 4.0m x 2.0m	New Construction	Box Culvert																
33	159.361		1 x 3.0m x 2.0m	New Construction	Box Culvert																
34	160.157		1 x 4.0m x 2.0m	New Construction	Box Culvert																
35	160.326		1 x 3.0m x 2.0m	New Construction	Box Culvert																
36	160.420		1 x 2.0m x 2.0m	New Construction	Box Culvert																
37	160.572		1 x 2.0m x 2.0m	New Construction	Box Culvert																
38	160.635	160.658	1 x 2.0m x 2.0m	New Construction	Box Culvert																
39	160.733		1 x 2.0m x 2.0m	New Construction	Box Culvert																
40	160.798	160.850	1 x 2.0m x 2.0m	New Construction	Box Culvert																
41	161.288	161.310	1 x 4.0m x 2.0m	New Construction	Box Culvert																
42	161.499	161.501	1 x 2.0m x 2.0m	New Construction	Box Culvert																
43	161.573	161.595	1 x 4.0m x 2.0m	New Construction	Box Culvert																
44	161.693	161.717	1 x 2.0m x 2.0m	New Construction	Box Culvert																
45	161.757		1 x 2.0m x 2.0m	New Construction	Box Culvert																
46	162.243	162.255	1 x 4.0m x 2.0m	New Construction	Box Culvert																

Four Laning of Cholopuram to Thanjavur from Km.116.440 to Km.164.275 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode

Table 4.2 - 3 : Strip Chart for status of MNB - Deck Type		IN PROGRESS		COMPLETED										
SR.NO.	MNB at Chainage	Span	MARCH 2019		RHS		LHS		Pier/Abt	Piercap/Abtcap	Girder Casting	Girder Launching	Slab	Crash Barrier
			A1	A2	Pier/Abt	Piercap/Abtcap	Girder Casting	Girder Launching						
1	126+134	1x20.0m	A1	A2										
2	138+901	3x15.0m	A1	P1	P2									
3	139+105	2x15.0m	A2	A1										
4	139+299	2x15.0m	P1	A2										
5	143+115	3x15.0m	A1	P1	P2									
6	144+880	2x15.0m	A2	A1										
7	155+049	1x15.0m	P1	A2										
8	159+522	1x15.0m	A1	A2										
9	162+595	2x15.0m	A1	P1	A2									

Four Lining of Cholapuram to Thanjavur from Km.116.440 to Km.164.275 Section of NH45C in the state of Tamil Nadu Under NHDIP Phase-IV on Hybrid Annuity Mode

Table 4.2 - 3 : Strip Chart for status of MNB - Box										COMPLETED												
MPR MARCH 2019										IN PROGRESS												
Sr. No.	Design Chainage As per CA	Revised Chainage	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	RHS			
																			Excavation	Granular Filling	PCC	Raft
MNB IN EXISTING LENGTH																						
1	121.024		1 x 6.0m	MNBB	Existing																	
2	122.046		3 x 7.5m	MNBB	Existing																	
3	133.345		3 x 12.5m	MNBB	Existing																	
MNB IN BYPASS																						
1	117.764	117.764	2 x 10.0m	MNBB	Bypass																	
2	118.217	118.110	1 x 8.0m	MNBB	Bypass																	
3	118.400	119.570	1 x 6.0m	MNBB	Bypass																	
4	118.480	118.480	1 x 6.0m	MNBB	Bypass																	
5	118.539	118.548	1 x 8.0m	MNBB	Bypass																	
6	118.919	119.100	1 x 6.0m	MNBB	Bypass																	
7	134.320		2x 10.0m	MNBB	Bypass																	
8	134.770		1 x 10.0m	MNBB	Bypass																	
9	136.705	136.738	1 x 6.0m	MNBB	Bypass																	
10	138.555		1 x 6.0m	MNBB	Bypass																	
11	139.453		1 x 7.0m	MNBB	Bypass																	
12	140.605	140.637	1 x 6.0m	MNBB	Bypass																	
13	140.860	140.892	1 x 8.0m	MNBB	Bypass																	
14	141.164	141.145	1 x 10.0m	MNBB	Bypass																	
15	141.445		1 x 8.0m	MNBB	Bypass																	
16	141.727	141.760	1 x 8.0m	MNBB	Bypass																	
17	142.204	142.235	1 x 8.0m	MNBB	Bypass																	
18	142.657	142.687	1 x 6.0m	MNBB	Bypass																	
19	142.897	142.932	2 x 8.0m	MNBB	Bypass																	
20	143.823		2 x 8.0m	MNBB	Bypass																	
21	144.000		2 x 10.0m	MNBB	Bypass																	
22	146.639		2 x 10.0m	MNBB	Bypass																	
23	147.396	147.426	1 x 8.0m	MNBB	Bypass																	
24	148.560	148.592	1 x 8.0m	MNBB	Bypass																	
25	149.940	149.962	1 x 10.0m	MNBB	Bypass																	
26	149.997		1 x 6.0m	MNBB	Bypass																	
27	152.876		2 x 10.0m	MNBB	Bypass																	
28	153.263		1 x 10.0m	MNBB	Bypass																	
29	153.528		1 x 6.0m	MNBB	Bypass																	
30	153.939		1 x 10.0m	MNBB	Bypass																	
31	154.626		1 x 6.0m	MNBB	Bypass																	
32	154.739		1 x 10.0m	MNBB	Bypass																	
33	156.014		1 x 8.0m	MNBB	Bypass																	
34	156.216		1 x 6.0m	MNBB	Bypass																	
35	156.336		1 x 6.0m	MNBB	Bypass																	
36	156.707		1 x 10.0m	MNBB	Bypass																	
37	157.458		1 x 7.0m	MNBB	Bypass																	
38	157.494	157.517	1 x 8.0m	MNBB	Bypass																	
39	158.128	158.155	1 x 7.0m	MNBB	Bypass																	
40	158.972		1 x 6.0m	MNBB	Bypass																	
41	159.076		1 x 8.0m	MNBB	Bypass																	
42	159.723		1 x 6.0m	MNBB	Bypass																	
43	159.801		1 x 6.0m	MNBB	Bypass																	
44	161.208	161.227	1 x 8.0m	MNBB	Bypass																	

Four Laning of Cholopuram to Thanjavur from Km.116.440 to Km.164.275 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode														
Table 4.2 - 4 : Strip Chart for status of PUP		IN PROGRESS					COMPLETED							
		LHS					RHS							
Sr. No.	Design Chainage As per CA	Number and Length of Spans (m)	Protection Work	Slab	Wall	Raft	PCC	Excavation	Excavation	PCC	Raft	Wall	Slab	Protection Work
1	147.917	1 X 7 m												
2	149.988	1 X 7 m												

Four Laning of Cholapuram to Thanjavur from Km. 116.440 to Km. 164.275 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode

Table 4.2 - 5 : Strip Chart for status of MJB

MPR MARCH 2019

MPR MARCH 2019													IN PROGRESS	COMPLETED											
MJB at Chainage 146+902 (4x20) -BYPASS													RHS/LSR												
Crash Barrier	Slab	Girder Launching	Girder Casting	Pier Cap/Abt Cap	Pier/Abt	Pile Cap	Pile	Pier Cap	Pier/Abt	Pier Cap/Abt Cap	Girder Casting	Girder Launching	Crash Barrier	Slab	Girder Launching	Girder Casting	Pier Cap/Abt Cap	Pier/Abt	Pile Cap	Pile	Crash Barrier	Slab			
A1																									
P1																									
P2																									
P3																									
A2																									
MJB at Chainage 148+017 (3x20)- BYPASS													RHS/LSR												
Crash Barrier	Slab	Girder Launching	Girder Casting	Pier Cap/Abt Cap	Pier/Abt	Pile Cap	Pile	Pier Cap	Pier/Abt	Pier Cap/Abt Cap	Girder Casting	Girder Launching	Crash Barrier	Slab	Girder Launching	Girder Casting	Pier Cap/Abt Cap	Pier/Abt	Pile Cap	Pile	Crash Barrier	Slab			
A1																									
P1																									
P2																									
A2																									
MJB at Chainage 149+334 (3x20)- BYPASS													RHS/LSR												
Crash Barrier	Slab	Girder Launching	Girder Casting	Pier Cap/Abt Cap	Pier/Abt	Pile Cap	Pile	Pier Cap	Pier/Abt	Pier Cap/Abt Cap	Girder Casting	Girder Launching	Crash Barrier	Slab	Girder Launching	Girder Casting	Pier Cap/Abt Cap	Pier/Abt	Pile Cap	Pile	Crash Barrier	Slab			
A1																									
P1																									
P2																									
A2																									
MJB at Chainage 156+559 (6x20)- BYPASS													RHS/LSR												
Crash Barrier	Slab	Girder Launching	Girder Casting	Pier Cap/Abt Cap	Pier/Abt	Pile Cap	Pile	Pier Cap	Pier/Abt	Pier Cap/Abt Cap	Girder Casting	Girder Launching	Crash Barrier	Slab	Girder Launching	Girder Casting	Pier Cap/Abt Cap	Pier/Abt	Pile Cap	Pile	Crash Barrier	Slab			
A1																									
P1																									
P2																									
P3																									
P4																									
P5																									
A2																									
MJB at Chainage 161+019 (6x20)- BYPASS													RHS/LSR												
Crash Barrier	Slab	Girder Launching	Girder Casting	Pier Cap/Abt Cap	Pier/Abt	Pile Cap	Pile	Pier Cap	Pier/Abt	Pier Cap/Abt Cap	Girder Casting	Girder Launching	Crash Barrier	Slab	Girder Launching	Girder Casting	Pier Cap/Abt Cap	Pier/Abt	Pile Cap	Pile	Crash Barrier	Slab			
A1																									
P1																									
P2																									
P3																									
P4																									
P5																									
A2																									

Four Laning of Cholopuram to Thanjavur from Km.116.440 to Km.164.275 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode																					
Table 4.2 - 6 : Strip Chart for status of FLYOVER										COMPLETED											
MPR MARCH 2019										RHS											
Sr.No.	FO at Chainage	Span				Crash Barrier	Slab	Girder Launching	Girder Casting	Piercap/Abtc ap	Pier/Abt	Pile Cap	PCC	Pile	Piercap/Abtc ap	Pier/Abt	Pile Cap	PCC	Pile		
1	117+600	1 x 30 m	BYPASS+EX ISTING	A1 A2																	
2	120+000	1 x 30 m	BYPASS+EX ISTING	A1 A2																	
3	127+300	1 x 30 m	EXISTING	A1 A2																	
4	134+000	1 x 30 m	BYPASS+EX ISTING	A1 A2																	
5	145+140	1 x 30 m	BYPASS	A1 A2																	
6	157+100	1 x 30 m	BYPASS	A1 A2																	

Four Laning of Cholopuram to Thanjavur from Km.116.440 to Km.164.275 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode																							
Table 4.2 - 7 : Strip Chart for status of VUP		IN PROGRESS										COMPLETED											
SR.NO.	VUP at Chainage	Span																					
			MPR	MARCH 2019		Crash Barrier	Slab	Girder Launching	Girder Casting	Piercap/Abtcap	Pier/Abt	Pile Cap	PCC	Pile	Pier/Abt	Piercap/Abtcap	Girder Casting	Girder Launching	Slab	Crash Barrier			
1	126+100	1x25		EXISTING		A1 A2																	
2	126+600	1x25		EXISTING		A1 A2																	
3	128+700	1x25		EXISTING		A1 A2																	
4	130+335	1x25		EXISTING		A1 A2																	
5	131+500	1x25		EXISTING		A1 A2																	
6	136+282	1x25		BYPASS		A1 A2																	
7	138+720	1x25		BYPASS		A1 A2																	
8	139+440	1x25		BYPASS		A1 A2																	
9	141+450	1x25		BYPASS		A1 A2																	
10	156+446	1x25		BYPASS		A1 A2																	

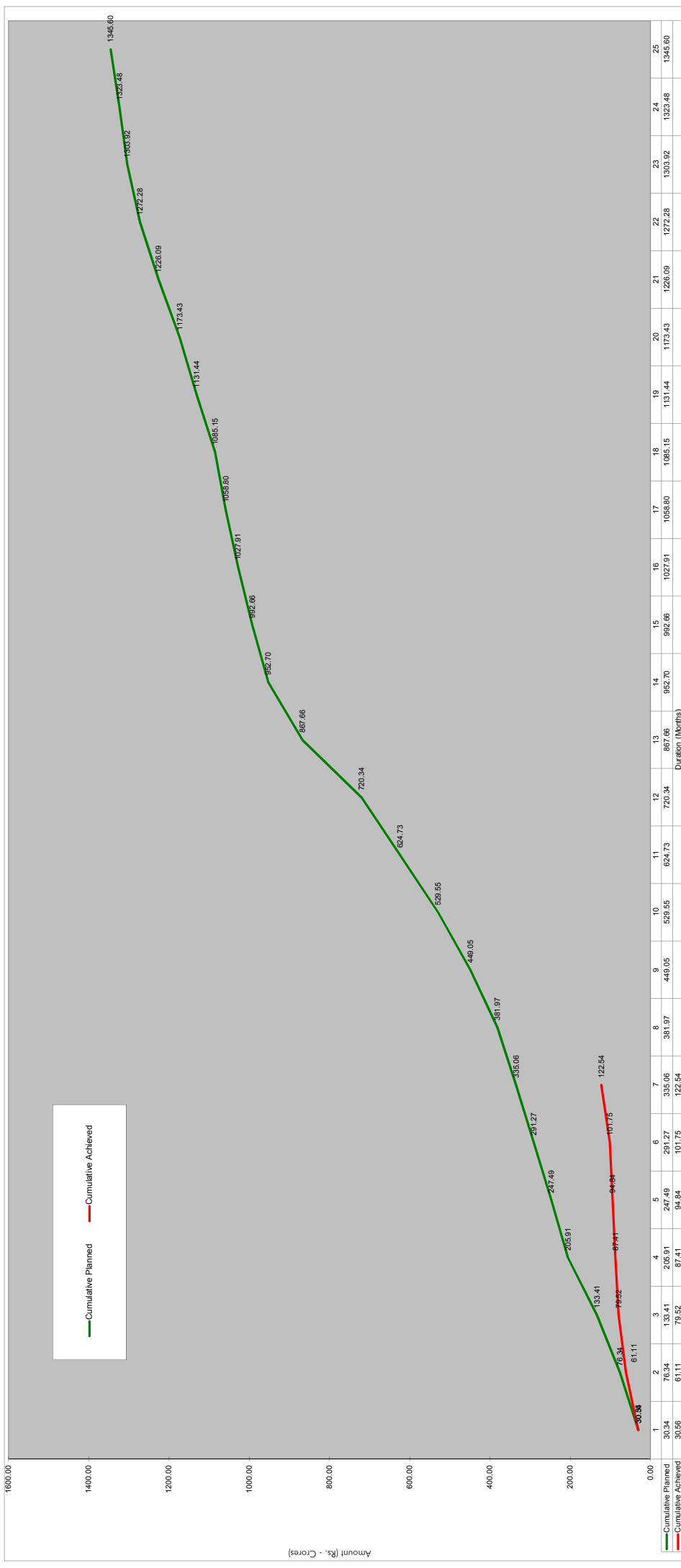
Four Laning of Cholopuram to Thanjavur from Km.116.440 to Km.164.275 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode																	
Table 4.2 - 8 : Strip Chart for status of ROB		IN PROGRESS								COMPLETED							
MPR MARCH 2019	ROB at Chainage 134+345 (1 x 20.285m+1 x 30.426m+1 x 20.285m (Skew 9.6 %))- EXISTING																
LHS/LSR								RHS/LSR									
	Crash Barrier	Slab	Steel Girder Launching	Steel Girder Erection	Girder Launching	Girder Casting	Pier Cap/Abt	Pier Cap	Pier/Abt	Pier Cap/Abt	Girder Casting	Girder Launching	Steel Girder Erection	Steel Girder Launching	Steel Girder	Slab	Crash Barrier
A1																	
P1																	
P2																	
A2																	

5. Financial Progress of Work

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

Four Laning of Cholopuram – Thanjavur from Km. 116.440 to 164.275 Section of NH45C in the state of Tamilnadu under NHDP-IV on Hybrid Annuity Mode

Fig. 03- Financial Progress (S-Curve)



Schedule	2019												2020														
	Sep 1	Oct 2	Nov 3	Dec 4	Jan 5	Feb 6	Mar 7	Apr 8	May 9	Jun 10	Jul 11	Aug 12	Sep 13	Oct 14	Nov 15	Dec 16	Jan 17	Feb 18	Mar 19	Apr 20	May 21	Jun 22	Jul 23	Aug 24	Sep 25		
Monthly Planned	30.34	46.00	57.07	72.50	41.58	43.78	43.78	46.91	67.08	80.50	95.17	95.61	147.32	85.04	39.97	35.24	30.90	26.34	46.29	41.99	52.67	46.19	31.64	19.56	22.12		
Monthly Achieved	30.56	30.56	18.41	7.89	7.43	6.90	20.79																				
Cumulative Planned	30.34	76.34	133.41	205.91	247.49	291.27	335.06	381.97	449.05	529.55	624.73	720.34	867.66	952.70	992.66	1027.91	1058.80	1085.15	1131.44	1173.43	1226.09	1272.28	1303.92	1323.48	1345.60		
Cumulative Achieved	30.56	61.11	79.52	87.41	94.84	101.75	122.54																				
Monthly Planned (%)	2.3%	3.4%	4.2%	5.4%	3.1%	3.3%	3.3%	3.5%	5.0%	6.0%	7.1%	7.1%	10.9%	6.3%	3.0%	2.6%	2.3%	2.0%	3.4%	3.1%	3.9%	3.4%	2.4%	1.5%	1.6%		
Monthly Achieved (%)	2.3%	2.3%	1.4%	0.6%	0.6%	0.5%	1.5%																				
Cumulative Planned (%)	2.3%	5.7%	9.9%	15.3%	18.4%	21.6%	24.9%	28.4%	33.4%	39.4%	46.4%	53.5%	64.5%	70.8%	73.8%	76.4%	78.7%	80.6%	84.1%	87.2%	91.1%	94.6%	96.9%	98.4%	100.0%		
Cumulative Achieved (%)	2.3%	4.5%	5.91%	6.50%	7.05%	7.56%	9.11%																				

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 Pateeswaram Lab.

Sl. No	Equipment List	Quantity
A) SOIL		
1	Proctor Moulds (Big) Collar or Base plate & Rammer 4.89 kg	6
2	Proctor Moulds (Small) Collar or Base plate & Rammer 2.6 kg	4
3	Atterberg Limits Test(Apparatus)	1
4	Soil Cone Penetrometer	1
5	CBR Moulds with collar or Base Plate	60
6	CBR Plunger	4
7	Proving Ring(25 KN)	1
8	Proving Ring(10 KN)	1
9	Proving Ring(2.5 KN)	1
10	FSI JARS BOROSIL -100 ml	40
11	Spacer Disc(with Handle)	4
12	CBR Testing Machine	1
13	CBR Surcharge Central Hole Weights 2.5 kg	60
14	CBR Surcharge Slotted Weights 2.5 kg	60
15	CBR Perorated Brass plates	60
16	Sand Pouring Cylinders (100 mm Dia) Complete with Calibrating Container with Trays	2
17	Sand Pouring Cylinders (150 mm Dia) Complete with Calibrating Container with Trays	2
18	Sand Pouring Cylinders (200 mm Dia) Complete with Calibrating Container with Trays	2
19	Rapid Moisture Meters	4
20	Calcium Carbide Bottles	10
21	Spatula Big	10
22	Spatula Small	10
23	Hammers big	4
24	Chisels big	20
25	Electronic Balance Capacity 100 kg (10 gram accuracy)	1
26	Electronic Balance Capacity 50 kg (1 gram accuracy)	2
27	Electronic Balance Capacity 30 kg (1 gram accuracy)	2
28	Electronic Balance Capacity 10 kg (1 gram accuracy)	1
29	Electronic Balance Capacity 5 kg (0.5 gram accuracy)	1
30	Electronic Balance Capacity 600gram(0.01 gram accuracy)	2
31	Hot Air Oven (Big)250°C	1
32	Hot Air Oven (Small)250°C	1
33	Direct Shear Test Apparatus	1

Sl. No	Equipment List	Quantity
34	Filter Paper Dia 100 mm	10
35	Filter Paper Dia 150 mm	10
36	Pipettes	4
37	Plastic Bottles	4
38	Enamel tray -450x300x40 mm	12
39	G.I tray-1500x1500x100mm	4
40	French Curves	2
B) CONCRETE WORKS		
41	Compressive Testing machine(2000KN)	1
42	Flextural strength testing machine digital	1
43	Concrete Cube Moulds With Base Plate(15cm)	200
44	Concrete Cube Moulds With Base Plate(10cm)	18
45	Motor Cube Moulds (7.06cm) with Base Plate	12
46	Motor Cube Vibrating Machine(12000 Rmp)	1
47	Concrete Mixer Electrically Operated	1
48	Cube Vibrating Machine (Big)	1
49	Slump Cone Testing Apparatus	10
50	Vicat Needle Apparatus , with dash pot complete with set of needles and brass mould	2
51	Soundness Testing Apparatus	2
52	Trowels With Wodden Handles	4
53	A I V Testing Machine	1
54	Loss Angels abrasion Testing Machine	1
55	Sand Equivalant Testing Apparatus	1
56	Flakiness Index Test Guage	1
57	Elongation Index Test Guage	1
58	Density Basket	2
59	Bulk Density Cylinder (5lt)	1
60	Bulk Density Cylinder (15lt)	1
61	Bulk Density Cylinder (30lt)	1
62	Gi trays -450x600x50mm	9
63	Enamel trays -300x250x40 mm	9
64	Trays for Samples Collections	12
65	Riffle Box (40 MM)	1
66	Riffle Box (20 MM)	1
67	PYcnometer Bottels (1000 ml)	4
68	Specific Gravity & water absorotion test apparatus with Electronic balance	1
69	DLC Compaction vibrating hammer	1
70	Cement mortar cube mould 5.0 cm	12
71	Sandard Sand Grade-1 bag of 25 kg	2
72	Sandard Sand Grade-2 bag of 25 kg	2
73	Sandard Sand Grade-3 bag of 25 kg	2
C) BITUMINOUS WORKS		
74	Specific Gravity Bottels (50 ml)	2
75	Specific Gravity Bottels (100 ml)	2

Sl. No	Equipment List	Quantity
76	Pen Sky- Martins closed Tester (Flash & Fire point)	2
77	Dial gauge 0.01x30 mm adis make	4
78	Ring & Ball Apparatus (Softening Point)	1
79	Bitumen Penetrometer (automatic)	1
80	Marshall Stability Apparatus (set)	1
81	Marshall Compaction Pedestal	2
82	Marshall Compaction Rammer 4.53 KG	4
83	Marshall Moulds (101.6 mm Dia)	30
84	Modified Marshall Compaction Pedestal	1
85	Modified Marshall Compaction Rammer 10.2 KG	4
86	viscometer u tub size no 12	2
87	Breaker - glass 600 ml for ring and ball apparatus	4
88	Bitumen Extraction Apparatus (centrifuge Type)	1
89	Proving Ring(50 KN)	1
90	Proving Ring(100 KN)	1
91	Digital Thermometers	10
92	Glass Thermometer	10
93	IR Thermometer	5
94	Core Cutting Machine With Apparatus (set)	1
95	Diamond Core Cutting Bit (100mm Dia)	1
96	Core Barrels for Core Cutting Machine	1
97	Vacuum Pump (specific Gravity of Bitumen Mix GMM)	1
98	Constant temperature Water bath (Digital)	2
99	Penetration cup 55x70 mm	2
100	penetration cup 55x35 mm	2
101	Specific Gravity Flask (2000 ml)	1
102	Specific Gravity Flask (5000 ml)	1
103	Specimen Extractor (Tikki, Goli & Rod)Marshall	1
104	Emulsion Trays	6
105	Viscometer viscosity of emulsified bitumen	1
106	Stop Watch	4
107	Hot Plates Electrical	2
108	Viscometer viscosity of bitumen	1
FOR I.S SIEVES 450 MM DIA		
109	100MM	2
110	90MM	2
111	75MM	2
112	63MM	2
113	53MM	2
114	50MM	2
115	45MM	2
116	40MM	2
117	37.5MM	2
118	31.5MM	2
119	26.5MM	2

Sl. No	Equipment List	Quantity
120	25MM	2
121	22.4MM	2
122	20MM	2
123	19MM	2
124	16 MM	2
125	14MM	2
126	13.2MM	2
127	12.5MM	2
128	11.2MM	2
129	10MM	2
130	9.5MM	2
131	6.3MM	2
132	5.6MM	2
133	4.75MM	2
134	2.36 MM	2
FOR I.S SIEVES 200 MM DIA		
135	37.5MM	2
136	26.5MM	2
137	22.4MM	2
138	19MM	2
139	16MM	2
140	14 MM	2
141	13.2MM	2
142	12.5MM	2
143	11.2MM	2
144	10MM	2
145	9.5MM	2
146	5.6MM	2
147	4.75MM	2
148	2.80MM	2
149	2.36MM	2
150	2.00MM	2
151	1.80MM	2
152	1.40MM	2
153	1.18MM	2
154	1.00MM	2
155	0.710 mc	1
156	0.600 mc	2
157	0.500 mc	1
158	0.45 mc	1
159	0.425 mc	2
160	0.355 mc	2
161	0.300 mc	2
162	0.150 mc	2
163	0.090 mc	2
164	0.075mc	6

Sl. No	Equipment List	Quantity
GENERAL & CONTROL OF PROFILE AND SURFACE EVENNESS		
165	Rain Guage	1
166	Vernier Calliper	1
167	Glass Measuring Cylinder -1000 ml	2
168	Glass Measuring Cylinder -500 ml	2
169	Glass Measuring Cylinder -250 ml	2
170	Glass Measuring Cylinder -250 ml	2
171	Plastic Measuring Cylinder- 1000 ml	2
172	Plastic Measuring Cylinder- 500 ml	2
173	Plastic Measuring Cylinder- 250 ml	2
174	Plastic Measuring Cylinder- 250 ml	2
175	Depth gauge	4
176	Digital thermo hygrometer	2
177	Sampling containers 100 gms	200
178	3 Meter straight edge and measuring wedge	1
179	Camber template board	2
180	5 mtr tape	2
181	10 mtr tape	2
182	30 mtr tape	4
183	50 mtr tape	4

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 March - 2019 are tabulated below -

Four Laning of Cholopuram – Thanjavur From km 116.440 to km 164.275 Section of NH-45C in the State of TamilNadu Under NHDP Phase-IV on Summary of Quality Control Report / Monthly Progress Report (QC) MONTH : MARCH-2019

S. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month			Tests conducted during reporting month upto 25 th MAR-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
1.0 Tests on OGL														
1.1	Grain size analysis	IS:2720 (Part4)	1 test / 250 meters	190	190	0	56	0	0	0	190	190	0	56
1.2	Atterberg Limits	IS:2720 (Part5)	1 test / 250 meters	190	190	0	56	0	0	0	190	190	0	56
1.3	Proctor	IS:2720 (Part8)	1 test / 250 meters	190	190	0	56	0	0	0	190	190	0	56
1.4	Free Swell index	IS:2720 (Part40)	1 test / 250 meters	190	190	0	56	0	0	0	190	190	0	56
1.5	California bearing ratio	IS:2720 (Part16)	As required	0	0	0	0	0	0	0	0	0	0	0
2.0 Borrow Area for EMB/Subgrade (MoRT&H 305)														
2.1	Grain size analysis	IS:2720 (Part4)	1 test /1500 m ³	192	192	0	31	40	40	0	232	232	0	43
2.2	Atterberg Limits	IS:2720 (Part5)	1 test /1500 m ³	192	192	0	31	40	40	0	232	232	0	43
2.3	Proctor	IS:2720 (Part8)	1 test /1500 m ³	192	192	0	31	40	40	0	232	232	0	43
2.4	Free Swell index	IS:2720 (Part40)	1 test /1500 m ³	192	192	0	31	40	40	0	232	232	0	43
2.5	California bearing ratio	IS:2720 (Part16)	1 test / 3000 m ³	0	0	0	0	0	0	0	0	0	0	0
3.0 Field Density Test MoRT&H 305														
3.1	Field density (OGL)	IS:2720 (Part28)	1 test /3000 sqm	1946	1946	0	1170	408	408	0	2354	2354	0	1200
3.2	Field density (EMB)	IS:2720 (Part28)	1 test /3000 sqm	1266	1266	6	392	290	290	0	1556	1550	6	452
3.3	Field density (SG)	IS:2720 (Part28)	1 test / 2000 sqm	0	0	0	0	0	0	0	0	0	0	0
3.4	Field density (Shoulder)	IS:2720 (Part28)	1 test / 2000 sqm	0	0	0	0	0	0	0	0	0	0	0
4.0 Safe Bearing capacity of soil														
4.1	Free Swell index	IS:2720 (Part40)	As required	82	82	0	19	23	23	0	105	105	0	24
4.2	Grain size analysis	IS:2720 (Part4)	As required	82	82	0	19	23	23	0	105	105	0	24
4.3	Atterberg limits	IS:2720 (Part5)	As required	82	82	0	19	23	23	0	105	105	0	24
4.4	Proctor	IS:2720 (Part8)	As required	82	82	0	19	23	23	0	105	105	0	24
4.5	Direct shear Test	IS:2720 (Part13)	As required	82	82	0	19	23	23	0	105	105	0	24
4.6	Bearing Capacity	IS:6403 / IS 1888	As required	82	1	81	19	23	0	23	5	105	1	104
4.7	Plate Load Test	IS:6403 / IS 1888	As required	2	2	0	2	2	2	0	4	4	0	4
5.0 Granular Bedding Material (For Structures-Ground Improvement)- Mix Design														
5.1	Gradation	Table 400-1	As required	5	5	0	5	0	0	0	5	5	0	5
5.2	Atterberg Limits	IS:2720 (Part5)	As required	3	3	0	3	0	0	0	3	3	0	3
5.3	Proctor	IS:2720 (Part8)	As required	3	3	0	3	0	0	0	3	3	0	3
5.4	CBR Test	IS:2720 (Part16)	As required	1	1	0	1	0	0	0	1	1	0	1
5.5	Aggregate Impact value	IS:2386 Part-4	As required	3	3	0	3	0	0	0	3	3	0	3
5.1 Granular Bedding Material (For Structures-Ground Improvement)- Site Frequency														
5.1	Gradation	Table 400-1	As required	38	38	0	20	14	14	0	52	52	0	26
5.2	Atterberg Limits	IS:2720 (Part5)	As required	38	38	0	20	14	14	0	52	52	0	26
5.3	Proctor	IS:2720 (Part8)	As required	4	4	0	4	1	1	0	5	5	0	5
5.4	CBR Test	IS:2720 (Part16)	As required	4	4	0	4	1	1	0	5	5	0	5

S. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month			Tests conducted during reporting month upto 25 th MAR-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
5.5	Aggregate Impact value	IS:2386 Part-4	As required	4	4	0	4	0	0	4	4	0	4
5.6	Field Density	IS:2720 (Part28)	As required	522	522	0	110	35	0	557	557	0	115
6.0 WMM Mix (Design)													
6.1	Individual / Combined Gradation	Table 400-3	1 test/200m ³	47	47	0	47	0	0	47	47	0	47
6.2	Aggregate Impact Value	IS:2386 Part-4	1 test/ 1000 m ³	8	8	0	8	0	0	8	8	0	8
6.3	Flakiness & Elongation index	IS:2386 Part1	1 test/ 500 m ³	8	8	0	8	0	0	8	8	0	8
6.4	Atterberg Limits	IS:2720 (Part5)	1 test/200m ³	6	6	0	6	0	0	6	6	0	6
6.5	Water absorption	IS:2386 Part2	As required	3	3	0	3	0	0	3	3	0	3
6.6	Proctor	IS:2720 (Part8)	As required	3	3	0	3	0	0	3	3	0	3
6.7	CBR	IS:2720 (Part16)	As required	3	3	0	3	0	0	3	3	0	3
6.8	Field Density(Trial stretch)	IS:2720 (Part28)	1 set Test per 1000Sq.m / 3 pits	0	0	0	0	0	0	0	0	0	0
6.1 WMM Site Frequency MoRT&H 406													
6.1	Individual / Combined Gradation	Table 400-3	1 test/200m ³	0	0	0	0	0	0	0	0	0	0
6.2	Aggregate Impact Value	IS:2386 Part-4	1 test/ 1000 m ³	0	0	0	0	0	0	0	0	0	0
6.3	Flakiness & Elongation index	IS:2386 Part1	1 test/ 500 m ³	0	0	0	0	0	0	0	0	0	0
6.4	Atterberg Limits	IS:2720 (Part5)	1 test/200m ³	0	0	0	0	0	0	0	0	0	0
6.5	Water absorption	IS:2386 Part2	As required	0	0	0	0	0	0	0	0	0	0
6.6	Proctor	IS:2720 (Part8)	As required	0	0	0	0	0	0	0	0	0	0
6.7	CBR	IS:2720 (Part16)	As required	0	0	0	0	0	0	0	0	0	0
7.0 Fine Aggregate MoRT&H 1008													
7.1	Grade / Sieve analysis	IS:2386 (Part1)	As required	85	85	0	37	40	0	125	125	0	49
7.2	Specific gravity & Water absorption	IS:2386 (Part2)	As required	5	5	0	2	1	0	6	6	0	3
7.3	Fineness Modulus	MORT&H Sec. 1008&8383	As required	85	85	0	37	40	0	125	125	0	49
7.4	Alkali aggregate reactivity test	IS:2386 (Part-7)IS : 456	1 test per source	2	2	0	0	0	0	2	2	0	0
7.5	Deleterious material/silt	IS:2386 (Part2)	1 test per source	2	2	0	0	0	0	2	2	0	0
8.0 Coarse Aggregate MoRT&H 1007													
8.1	Gradation	IS:2386 (Part2)	As required	102	102	0	47	40	0	142	142	0	59
8.2	Specific gravity & Water absorption	IS:2386 (Part3)	As required	6	6	0	3	2	0	8	8	0	5
8.3	Aggregate Impact Value	IS:2386 (Part4)	As required	28	28	0	12	5	0	33	33	0	15
8.4	Flakiness index	IS:2386 (Part1)	As required	28	28	0	12	5	0	33	33	0	15
8.5	Soundness	IS:2386 (Part5)	As required	1	1	0	1	0	0	1	1	0	1

S. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month			Tests conducted during reporting month upto 25 th MAR-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
8.6	Alkali aggregate reactivity test	IS:2386 (Part-7)IS : 456	1 test per source	1	1	0	1	0	0	0	0	1	0	1
8.7	Deleterious constituents	IS:2386 (Part2)	1 test per source	1	1	0	1	0	0	0	0	1	0	1
8.8	Petrographic Examination	IS:2386 (Part8)	1 test per source	1	1	0	1	0	0	0	0	1	0	1
9.0 Cement MoRT&H 1006														
9.1	Chemical test / Physical test	IS:4031,4032	1 test per source	4	4	0	4	8	8	0	3	12	0	7
9.2	Fineness	IS:4031 (Part1)	500mt (or) Every week	32	32	0	17	8	8	0	3	40	0	20
9.3	Normal Consistency	IS:4031 (Part4)	500mt (or) Every week	32	32	0	20	8	8	0	3	40	0	23
9.4	Initial,Final setting time	IS:4031 (Part5)	500mt (or) Every week	32	32	0	20	8	8	0	3	40	0	23
9.5	Soundness of Cement	IS:4031 (Part3)	500mt (or) Every week	32	32	0	20	8	8	0	3	40	0	23
9.6	Compressive Strength-set	IS:4031 (Part6)												
	3 days		500mt (or) Every week	33	33	0	24	6	6	0	3	39	0	27
	7 days		500mt (or) Every week	30	30	0	25	8	8	0	3	38	0	28
	28 days		500mt (or) Every week	31	31	0	0	6	6	0	3	37	0	3
10.0 Water														
10.1	Chemical test	IS 2386	1 test per source	6	6	0	2	0	0	0	0	6	0	2
11.0 Admixture														
11.1	Chemical Test	IS 9103	1 test per source	2	2	0	0	0	0	0	0	2	0	0
12.0 Steel														
12.1	8 mm Dia	IS 1786		4	4	0	3	0	0	0	0	4	0	3
12.2	10 mm Dia	IS 1786	Physical & Chemical Properties (1) Test on first lot.(2) Further supply will be provided with mtc. (3) As required by engineer.	6	6	0	5	0	0	0	0	6	0	5
12.3	12 mm Dia	IS 1786		5	5	0	4	0	0	0	0	5	0	4
12.4	16 mm Dia	IS 1786		4	4	0	3	0	0	0	0	4	0	3
12.5	20 mm Dia	IS 1786		5	5	0	5	0	0	0	0	5	0	5
12.6	25 mm Dia	IS 1786		4	4	0	3	0	0	0	0	4	0	3
12.7	32 mm Dia	IS 1786		1	1	0	1	0	0	0	0	1	0	1
13.(A) Concrete Cube Strength of Design Mix														
M15 PCC														
	7Days Compressive Strength			27	27	0	27	3	3	0	3	30	0	30
	28Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	27	27	0	21	0	0	0	0	27	0	21
M20 PCC														
	7Days Compressive Strength			24	24	0	24	3	3	0	3	27	0	27
	28Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	21	21	0	21	0	0	0	0	21	0	21
M25 RCC														
	7Days Compressive Strength			27	27	0	27	3	3	0	3	30	0	30
	28Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	24	24	0	24	0	0	0	0	24	0	24
M30 RCC														
	7Days Compressive Strength			30	30	0	30	3	3	0	3	33	0	33
	28Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	30	30	0	30	0	0	0	0	30	0	30

S. No.	Description	IS Specification Clause	Frequency of Tests	Tests conducted upto Previous month			Tests conducted during reporting month upto 25 th MAR-2019			Tests 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				
	M30 RCC PUMPABLE																		
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	12	12	0	12	3	3	0	3	15	15	0	15	0	15		
	28Days Compressive Strength			9	9	0	9	0	0	0	0	9	9	0	9	0	9		
	M35 RCC																		
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	27	27	0	27	3	3	0	3	30	30	0	30	0	30		
	28Days Compressive Strength			27	27	0	27	0	0	0	0	27	27	0	27	0	27		
	M35 RCC PILING																		
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	30	30	0	30	3	3	0	3	33	33	0	33	0	33		
	28Days Compressive Strength			30	30	0	30	0	0	0	0	30	30	0	30	0	30		
	M35 RCC PUMPABLE																		
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	12	12	0	12	3	3	0	3	15	15	0	15	0	15		
	28Days Compressive Strength			9	9	0	9	0	0	0	0	9	9	0	9	0	9		
	M35 RE BLOCK																		
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	33	33	0	33	0	0	0	0	33	33	0	33	0	33		
	28Days Compressive Strength			33	33	0	33	0	0	0	0	33	33	0	33	0	33		
	M40 RCC																		
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	21	21	0	21	0	0	0	0	21	21	0	21	0	21		
	28Days Compressive Strength			9	9	0	9	0	0	0	0	9	9	0	9	0	9		
	M40 RCC PUMPABLE																		
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	12	12	0	12	3	3	0	3	15	15	0	15	0	15		
	28Days Compressive Strength			24	24	0	24	0	0	0	0	24	24	0	24	0	24		
	M45 RCC PUMPABLE																		
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	6	6	0	6	3	3	0	3	9	9	0	9	0	9		
	28Days Compressive Strength			12	12	0	12	0	0	0	0	12	12	0	12	0	12		
	13(B) Concrete Cube Strength of Site Cubes																		
	M15 PCC																		
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	45	45	0	36	17	17	0	6	62	62	0	62	0	42		
	28Days Compressive Strength			91	91	0	79	29	29	0	8	120	120	0	120	0	87		
	M20 PCC																		
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	0	0	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	0	0		
	M25 RCC																		
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	1	0	0	0	0	0	0	0	1	0	0	0	0	0		
	28Days Compressive Strength			1	0	0	0	0	0	0	0	1	0	0	0	0	0		
	M30 RCC																		
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	67	67	0	32	33	33	0	8	100	100	0	100	0	40		
	28Days Compressive Strength			119	119	0	51	67	67	0	8	186	186	0	186	0	59		
	M30 RCC PUMPABLE																		
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	1	1	0	1	0	0	0	0	1	1	0	1	0	1		
	28Days Compressive Strength			0	0	0	0	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 25 th MAR-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
M35 RCC															
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	23	23	0	12	13	13	0	7	36	36	0	19
	28Days Compressive Strength			22	22	0	12	31	31	0	9	53	53	0	21
M35 RCC PILING															
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	33	33	0	12	48	48	0	12	81	81	0	24
	28Days Compressive Strength			18	18	0	8	69	69	0	12	87	87	0	20
M35 RCC PUMPABLE															
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	1	1	0	1	16	16	0	6	17	17	0	7
	28Days Compressive Strength			14	14	0	7	13	13	0	6	27	27	0	13
M35 RE BLOCK															
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	131	131	0	69	77	77	0	16	208	208	0	85
	28Days Compressive Strength			164	164	0	78	166	166	0	16	330	330	0	94
M40 RCC															
	7Days Compressive Strength	IS:516 / IS:456	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
14.0 BENTONITE															
14.1	Density			24	24	0	7	19	19	0	4	43	43	0	11
14.2	Marsh Cone Viscosity			24	24	0	7	19	19	0	4	43	43	0	11
14.3	pH Value	MORT&H Sec. 1115.2.3	As required	24	24	0	7	19	19	0	4	43	43	0	11
14.4	Silt Content			1	1	0	0	0	0	0	0	1	1	0	0
14.5	Liquid Limit			1	1	0	0	0	0	0	0	1	1	0	0
15.0 Fine Aggregate MoRT&H 1008-(RE-Block)															
15.1	Grade / Sieve analysis	IS:2386 (Part1)	As required	139	139	0	36	50	50	0	8	189	189	0	44
15.2	Specific gravity & Water absorption	IS:2386 (Part2)	As required	0	0	0	0	0	0	0	0	0	0	0	0
16.0 Coarse Aggregate MoRT&H 1007-(RE-Block)															
16.1	Gradation	IS:2386 (Part2)	As required	139	139	0	36	50	50	0	8	189	189	0	44
16.2	Specific gravity & Water absorption	IS:2386 (Part3)	As required	0	0	0	0	0	0	0	0	0	0	0	0
16.3	Aggregate Impact Value	IS:2386 (Part4)	1 test / each source	0	0	0	0	0	0	0	0	0	0	0	0
16.4	Flakiness Index	IS:2386 (Part1)	1 test / each source	0	0	0	0	0	0	0	0	0	0	0	0
EPC Contractor Representative				Concessionaire Representative				Independent Engineer Representative							

7. Weather Report

Date	Temperature (Celsius)		Humidity (%)		Rainfall (mm)	Remarks
	Min	Max	Min	Max		
01-03-19	27.9	28.8	71.0	76.0	0.00	Sunny
02-03-19	24.8	37.8	35.0	76.0	0.00	Sunny
03-03-19	24.2	41.2	32.0	87.0	0.00	Sunny
04-03-19	24.2	38.7	35.0	81.0	0.00	Sunny
05-03-19	24.2	40.1	30.0	81.0	0.00	Sunny
06-03-19	26.7	38.8	37.0	77.0	0.00	Sunny
07-03-19	27.2	40.3	31.0	77.0	0.00	Sunny
08-03-19	27.3	39.1	35.0	75.0	0.00	Sunny
09-03-19	26.3	41.5	30.0	76.0	0.00	Sunny
10-03-19	24.2	36.9	44.0	89.0	0.00	Sunny
11-03-19	23.9	39.1	30.0	80.0	0.00	Sunny
12-03-19	23.9	39.2	23.0	80.0	0.00	Sunny
13-03-19	23.5	39.0	24.0	75.0	0.00	Sunny
14-03-19	22.3	39.1	20.0	76.0	0.00	Sunny
15-03-19	23.1	37.8	25.0	80.0	0.00	Sunny
16-03-19	24	36.9	30.0	79.0	0.00	Sunny
17-03-19	23.9	39.4	24.0	79.0	0.00	Sunny
18-03-19	25.4	39.2	31.0	87.0	0.00	Sunny
19-03-19	24.9	39.1	35.0	79.0	0.00	Sunny
20-03-19	23.3	39.00	38.0	75.0	0.00	Sunny
21-03-19	23.2	42.00	30.0	76.0	0.00	Sunny
22-03-19	23.2	42.00	30.0	79.0	0.00	Sunny
23-03-19	25.6	40.20	32.0	77.0	0.00	Sunny
24-03-19	25.2	40.60	32.0	83.0	0.00	Sunny
25-03-19	24.6	40.10	25.0	79.0	0.00	Sunny
26-03-19	23.2	41.80	23.0	82.0	0.00	Sunny
27-03-19	24.1	39.80	29.0	77.0	0.00	Sunny
28-03-19	24.2	39.80	26.0	78.0	0.00	Sunny
29-03-19	24.4	39.60	27.0	74.0	0.00	Sunny
30-03-19	24.1	39.80	29.0	77.0	0.00	Sunny
31-03-19	25.6	40.20	32.0	77.0	0.00	Sunny

Various issues related to environment and safety, such as traffic management, safety signage's, 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 phonographs for the same along with action taken are as below.

1. Safety TBT Organized for Labour's & Drivers at 119+400.



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 in Thanjavur District. – Request Authority to advise/instruct the Competent Authority of Land Acquisition to speed up the process of disbursement of pending payment.
2. Approval of Estimate for Relocation of High Tension transmission tower lines at Km: 147+300 and Km: 142+931.
3. Permission from Local Authorities for procurement of Borrow Earth for Irrigation Tanks.

Sl. No.	District	Taluk	Location/ Villages	Date of Applied	Present Status	
1	Ariyalur	Sripuranthan	Periya Eri, Udayarpalayam	19.02.2019	Application submitted to District Collector, Ariyalur	
2	Ariyalur	Karaikurichi	Ukkadai Periya Eri, Udayarpalayam	19.02.2019		
3	Ariyalur	Karaikurichi	Kovathattai Eri, Udayarpalayam	19.02.2019	Waiting for EC Clearance	
4	Ariyalur	Udayarpalayam	Karaikurichi	19.02.2019	Application submitted to District Collector, Ariyalur, Under NOC Permission	
5	Ariyalur	Udayarpalayam	Karaikurichi	19.02.2019		
6	Ariyalur	Udayarpalayam	Sripuranthan	18.02.2019		
1	Thanjavur	Papanasam	Sikkapattu, Puliyakudi-02	12.10.2018	a) Gazette notified on 05.05.2017 and application submitted to District Collector, Thanjavur for NOC Process. B) The temporary permission received for Rajan eri/Nanjikottai on 19.02.2019	
2	Thanjavur	Papanasam	Puliyakudi-01	12.10.2018		
3	Thanjavur	Thanjavur	Vudayaneri, Pachamada eri, Kumaravodi Eri./Nanjikottai	12.10.2018		
4	Thanjavur	Thanjavur	Rajan eri/Nanjikottai	12.10.2018		
5	Thanjavur	Thanjavur	Poneri/ Kulichapattu	12.10.2018		
6	Thanjavur	Thanjavur	Kallapuli eri/Valamarkottai	12.10.2018		Gazette to be notified.
7	Thanjavur	Thanjavur	Kollankarai/Annuvaththi Eri	13.02.2019		Application submitted to District Collector, Thanjavur, for NOC Process

4. Rerouting of existing canal between Km: 124+150 to 124+750 Km: 117+760 to 118+480 and Km.146+600 to 148+100, Km:154+600 to 154+900.
5. NOC from PWD/WRO, Govt of Tamilnadu for construction of Minor Bridge(17 Nos) and Major Bridge (05 Nos)
6. NOC from PWD/WRO, Govt of Tamilnadu for construction of project highways in the existing ponds (in a length of 1.667 Kms).

7. Removal/relocation of existing irrigation sluice and regulator in the locations of Km:150+800, Km:152+900 & Km:134+770.
8. Additional land acquisition for Toll plaza location, Bus bays. Turning radius at Major junctions.
9. Permission for Removal of Teak wood trees from the Project Highway in length of 680m.
10. Removal of Religious structures of 13 Nos. and Bus stand from the proposed ROW.
11. Removal of Government Buildings like VAO office, School, Post Office & Ration Shop etc. in 15 nos. of locations.
12. Removal of unauthorized occupations in 25 nos. of locations in the project highways.
13. Hindrances/Occupations/Land Acquisition issues in the following locations due to various reasons,

Sl. No	From	To	Effected Legth in M	Nature of Hindrance	Survey No	Name of Village	Name of Land Owner
1	138+400	138+480	520 m	Court Stay	4/4A	Thiruvalanzuli	Mr.Dharmalingam
2	138+500	138+540		Court Stay	-	Thiruvalanzuli	Mr.Shanmugam
3	138+750	138+850	500 m	Court Stay		Thiruvalanzuli	Mr.Dhahshnamoorthy , Mr.Rajini, Mr.nagaraj
4	139+180	139+450	670 m	Payment Issue	15A,15/1, 15/2	Nallur	Mrs.Valarmathi Kailasam
5	142+100	142+200	500 m	Payment Issue	326/1, 326/2, 326/3, 326/4, 326/5, 326/ 6	Gopurajapuram	Mr.Pakir Mohammed 9566541123
6	160+200	160+400	600 m	Payment for coconut tree is pending	128/7, 131/10B, 131/14, 132/6	Kurangalur	Mr.Elango
6	161+100	161+200	1000 m	LA issues	3/1A,3/1B	Kadakadapai	Ms Tamilselvi
7	162+400	162+600	600 m	LA issues	70/3, 71/2 & 71/3	Kadakadapai	Mr.James P Raja
Total Effected Length in M			4390				

Table 10.1. Details of Important Events			
Sl. No	Date of Events	Description of Events	Remarks
1)	04.03.2019 to 10.03.2019	48 th National Safety Week 2019	
2)	05.03.2019	Medical Eye Check Up in Executive Block at Pateeswaram Camp	
3)	07.03.2019	Kamachi Industries Limited - Joint Factory Inspection done by PIL - SPV Personals	
4)	13.03.2019	Site Inspection by the Team Leader	

11. Organization Chart

The following figures represent 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

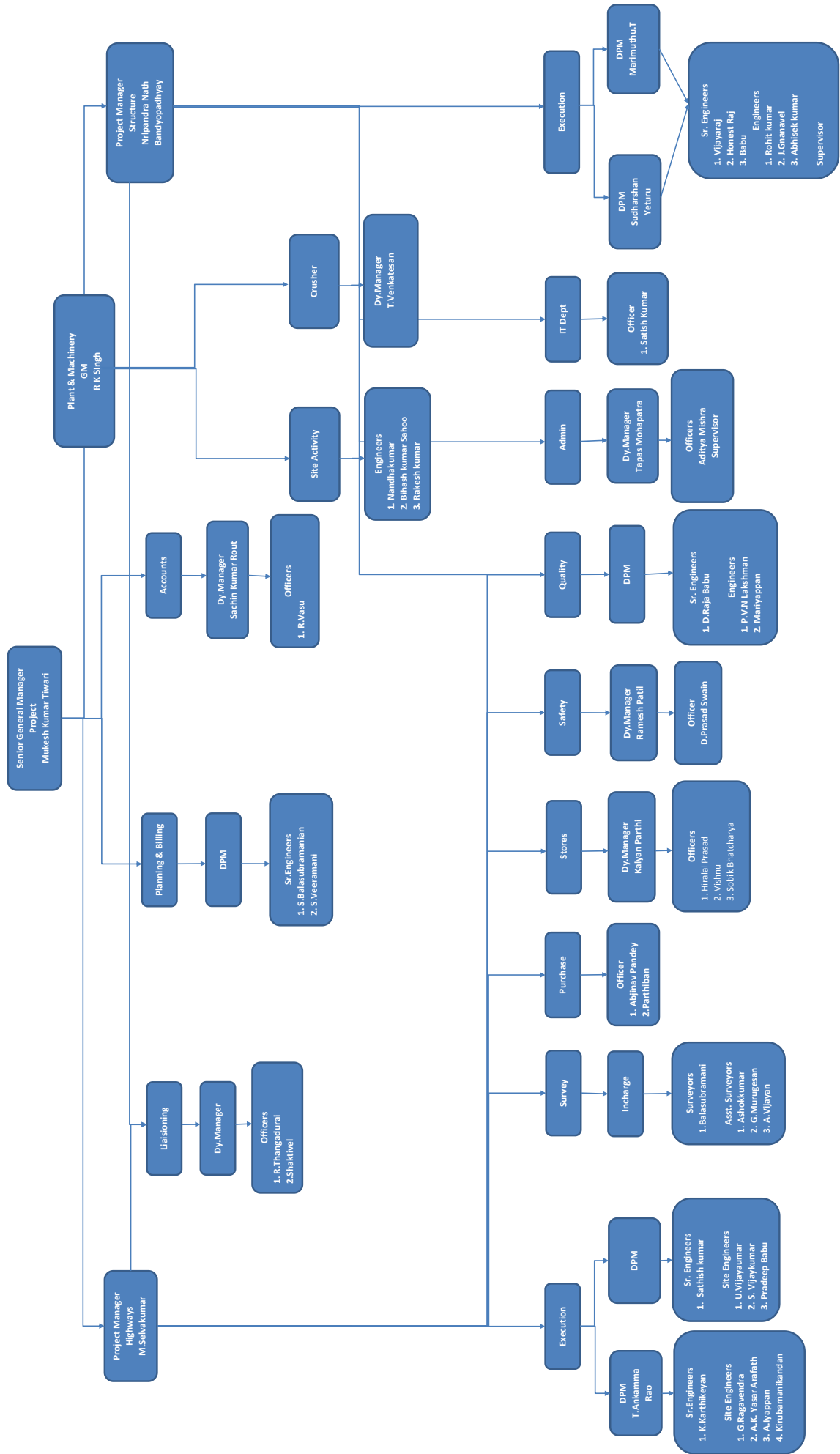
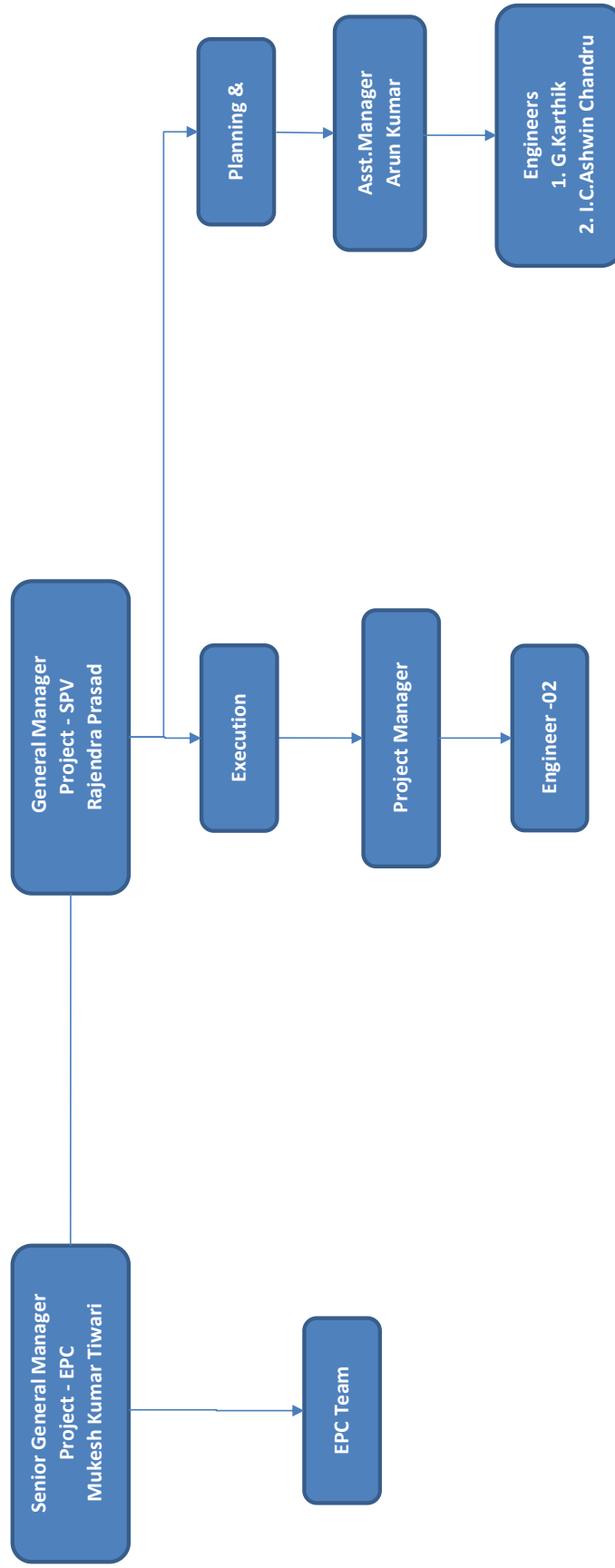


Figure 5 - ORGANAIZATION CHART - SPV TEAM



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	4	
2	Excavator	JCB-220	2	
3	Dozer			
4	Soil Compactor	HAMM 311	4	
5	Backhoe Loader	JCB 3DX	2	
6	Tipper	Bharat Benz- 3128C	21	
7	Transit Mixer	2523C		
8	Loader	455 ZX	6	
9	Trailer		1	
10	Water Tanker		6	
11	Boom Placer	S-36	1	
12	Tractor	5036 D V-2	4	
13	Mobile Service Van		1	
14	Tower Light	AJASKY	1	
11	Hydra Crane		1	
12	Asphalt Batch Mix Plant		1	
13	Wet Mix Plant	250 TPH	1	
14	Concrete Batch Mix Plant 45 cum	45 cum	1	
15	Concrete Batch Mix Plant 60 cum	60 cum	1	
16	Crusher Plant (3 Stage)	250 TPH	2	
17	Weigh Bridge for Camp 100MT	100MT	2	
18	Weigh Bridge for Crusher 100MT	100MT	1	
19	Genset Base Camp	25KV	3	
20	Genset 63KVA Boiler	63KVA Boile	1	
21	Genset (H.M & B/P)	82.50KV	1	
22	Genset (B/P-CP-45)	125KV	1	
23	Genset Concrete Plant-180 KVA	180 KVA	1	
24	Genset (Structure)		3	
25	Genset (Gantry)		1	
26	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

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	3/1/2019	PCTHPL/CTP/NHAI/2019/270	R.A.Bill No.03 - Shifting of Electrical Utility as per Cl.11.2.1 of Concession Agreement	
2	3/7/2019	PCTHPL/CTP/NHAI/2019/281	Submission of Design and drawings of proposed ROB@ Km 134+355	
3	3/8/2019	PCTHPL/CTP/NHAI/2019/282	R.A.Bill No.04 - Shifting of Electrical Utility as per Cl.11.2.1 of Concession Agreement	
4	3/16/2019	PCTHPL/CTP/NHAI/2019/291	Submission of our GST payment auditor certificate for TWAD RA Bill No-01 of Pipe Line Utility shifting works	
5	3/29/2019	PCTHPL/CTP/NHAI/2019/305	RA.Bill No.02 - Shifting of water supply utilities as per Cl.11.2.1 of Concession Agreement	

TABLE 14.2 - CORRESPONDANCE - NHAI TO CONCESSIONAIRE

S.No	Date	Letter No	Subject	Remarks
1	3/2/2019	NHAI/PIU/Thani/11026/15/2018/442	Shifting of Electrical Utilities like HT LT Lines & Structures in Thanjavur Division	
2	3/4/2019	NHAI/PIU/Thani/11019/51/2017/447	Independent Consultancy Services for the months of Dec'2018 - 50% Claim	
3	3/7/2019	NHAI/PIU/Thani/11026/21/2018/476	Maintenance of existing road of NH-45C Compliance report called for	
4	3/7/2019	NHAI/PIU/Thani/11026/22/2018/463	Submission of GADs for 5 Nos of proposed Minor Bridges for the concurrences of Tamil Nadu PWD WRO	
5	3/7/2019	NHAI/PIU/Thani/11026/22/2018/474	Submission of GAD for 1 No of proposed Minor Bridge for the concurrence of Tamil Nadu PWD WRO - NOC issued Communicated	
6	3/7/2019	NHAI/PIU/Thani/11026/12/2018/461	Details of payment made for Electrical Utility Shifting RA Bill No.3	
7	3/7/2019	NHAI/PIU/Thani/11099/00/2009/477	Availability of Crash Barrier set from SAIL	
8	3/8/2019	NHAI/PIU/Thani/11026/12/2018/518	Shifting of Electrical Utilities like HT LT Lines & Structures in Kumbakonam Division	
9	3/7/2019	NHAI/PIU/Thani/11026/22/2018/503	Submission of GAD for 1 No of proposed Minor Bridge for the concurrence of Tamil Nadu PWD WRO-NOC issued Communicated	
10	3/7/2019	NHAI/PIU/Thani/11026/22/2018/504	Submission of GAD for 1 No of proposed Minor Bridge for the concurrence of Tamil Nadu PWD WRO-NOC issued Communicated	
11	3/7/2019	NHAI/PIU/Thani/11026/22/2018/505	Submission of GAD for 1 No of proposed Minor Bridge for the concurrence of Tamil Nadu PWD WRO-NOC issued Communicated	
12	3/7/2019	NHAI/PIU/Thani/11026/22/2018/506	Submission of GAD for 3 Nos of proposed Minor Bridge for the concurrence of Tamil Nadu PWD WRO-NOC issued Communicated	
13	3/8/2019	NHAI/PIU/Thani/11026/24/2018/520	Submission of Design and Drawing of Proposed ROB@ Km 134+355	
14	3/11/2019	NHAI/PIU/Thani/11026/22/2018/527	Submission of GADs for 5 Nos of proposed Minor Bridges for the concurrences of Tamil Nadu PWD WRO	
15	3/11/2019	NHAI/PIU/Thani/11023/01/2009/529	Identification of test Sections for field trials on Neology based geocell Technology	
16	3/19/2019	NHAI/PIU/Thani/11026/12/2018/588	Shifting of HT Line & Tower at Km 158.860 – Estimate prepared by Chief Engineer (Operation), Trichy - Work Order issued	
17	3/19/2019	NHAI/PIU/Thani/11026/12/2018/589	Shifting of Electrical Utilities like HT LT Lines & Structures Work Order Issued	
18	3/20/2019	NHAI/PIU/Thani/11019/51/2017/597	Independent Consultancy Services for the months of Jan'2019 - 50% Claim	
19	3/22/2019	NHAI/PIU/Thani/11013/01/2019/614	Submission of Annual Accounts for the year 2018-19 - Value of work done till 31.03.2019	
20	3/23/2019	NHAI/PIU/Thani/11020/00/2009/620	Minutes of meeting held regarding the Details of Retail Outlet Private Properties along National Highways in the State of Tamil Nadu	
21	3/25/2019	NHAI/PIU/Thani/11020/00/2009/622	Identification of Trial section for research project on performance of Geogrid and Geocell Reinforced pavement (CBR-5 or below)- Compliance report called for	

TABLE 14.3 - CORRESPONDANCE - CONCESSIONAIRE TO INDEPENDENT ENGINEER

S.No	Date	Letter No	Subject	Remarks
1	3/2/2019	PCTHPL/CTP/IE/2019/271	Procurement of Bitumen from HPCL	
2	3/2/2019	PCTHPL/CTP/IE/2019/272	Submission of method Statement for Production of M-Sand	
3	3/4/2019	PCTHPL/CTP/IE/2019/273	Submission of Drawings of Proposed Irrigation channel as Utility Duct for farmers	
4	3/4/2019	PCTHPL/CTP/IE/2019/274	Submission of Monthly Progress Report for the Month of February 2019	
5	3/5/2019	PCTHPL/CTP/IE/2019/275	Submission of Checking of Traverse Points and TBMs	
6	3/6/2019	PCTHPL/CTP/IE/2019/276	Submission of SBC Test Reports for 14 MNBs	
7	3/7/2019	PCTHPL/CTP/IE/2019/277	Permission for commencing of Regular piling works for the proposed VUP & GSI	
8	3/7/2019	PCTHPL/CTP/IE/2019/278	Procurement of GGBS from Ms JSW Cements Ltd	
9	3/7/2019	PCTHPL/CTP/IE/2019/279	Submission of Soil Test Reports for the Borrow Area No.9 (A)	
10	3/7/2019	PCTHPL/CTP/IE/2019/280	Source approval for Steel from Ms Kamachi Industries Limited - Joint Factory inspection Requested	
11	3/8/2019	PCTHPL/CTP/IE/2019/283	Submission of GFC Drawings for 10 Nos of VUPs & 6 Nos of Grade Separators	
12	3/9/2019	PCTHPL/CTP/IE/2019/284	Submission of Contract Price Weightages as per clause 23.4 Concession Agreement	
13	3/11/2019	PCTHPL/CTP/IE/2019/285	Request for Smooth Implementation of the Project Highway	
14	3/12/2019	PCTHPL/CTP/IE/2019/286	Submission of Center Line Co-ordinates	
15	3/12/2019	PCTHPL/CTP/IE/2019/287	Submission of Typical Cross Section of Project Highway	
16	3/15/2019	PCTHPL/CTP/IE/2019/290	Submission of Design and Drawings of PUP at Km 147+951 & Km 150+023	
18	3/16/2019	PCTHPL/CTP/IE/2019/292	Procurement of Bitumen Emulsion (SS1 & RS1) from Ms Ooms Polymer Modified Bitumen Pvt. Ltd, Chennai	
19	3/18/2019	PCTHPL/CTP/IE/2019/293	Shifting Relocation of Existing Electrical Utilities - Notice regarding the site observations	
20	3/18/2019	PCTHPL/CTP/IE/2019/294	Shifting Relocation of Existing Electrical Utilities - Notice regarding the site observations	
21	3/18/2019	PCTHPL/CTP/IE/2019/295	Submission of Design of Staging and Form work for Minor Bridge	
22	3/18/2019	PCTHPL/CTP/IE/2019/296	Submission of Initial Pile Load Test Report for a GSI	
23	3/18/2019	PCTHPL/CTP/IE/2019/297	Submission of Third Party Test Report on Properties of Cement	
24	3/18/2019	PCTHPL/CTP/IE/2019/298	Submission of Plan & Profile Drawings for Slip Road of the Project Highway (R1)	
25	3/19/2019	PCTHPL/CTP/IE/2019/299	Submission of Plan and Profile Drawings of the Project Highway (Revision 3)	
26	3/26/2019	PCTHPL/CTP/IE/2019/300	Submission of Soil Test Reports for the Borrow Area No.16	
27	3/29/2019	PCTHPL/CTP/IE/2019/301	Submission of Initial Pile Load Test Report for a GSI at Ch. 120+009 Km	
28	3/29/2019	PCTHPL/CTP/IE/2019/302	Compliance Report - Identification of Trail section for research project on performance of Geogrid and Geocell Reinforced pavement (CBR-5 or below)	
29	3/29/2019	PCTHPL/CTP/IE/2019/303	Permission of vehicle movement in the village road existing culvert between Km 161+110 to 161+200	
30	3/29/2019	PCTHPL/CTP/IE/2019/304	Submission of SBC Test Reports for 16 Box Culverts	

TABLE 14.4 - CORRESPONDANCE - INDEPENDENT ENGINEER TO CONCESSIONAIRE / NHAI

S.No	Date	Letter No	Subject	Remarks
1	3/1/2019	THEME/NHAI/CHO-TNJR/CON/0319/207	Review of plan and profile drawings for slip road of Project Highway	
2	3/5/2019	THEME/NHAI/CHO-TNJR/CON/0319/208	Identification of test sections for field trials on Neology based Geocell Technology	
3	3/7/2019	THEME/NHAI/CHO-TNJR/CON/0319/209	Source Approval for Procurement of Bitumen from Ms. HPCL (VG-40)	
4	3/7/2019	THEME/NHAI/CHO-TNJR/ATH/0319/088	Slow progress in achieving the Project targets of Milestone-I - Para wise comments	
5	3/11/2019	THEME/NHAI/CHO-TNJR/CON/0319/210	Maintenance of existing road of NH45C – compliance report called for	
6	3/11/2019	THEME/NHAI/CHO-TNJR/CON/0319/211	Removal of flagpoles erected by any political parties or organizations – WP No. 17768 of 2016 – Hon'ble High Court of Madras orders issued dated 03.12.2018-Compliance report called for	
7	3/12/2019	THEME/NHAI/CHO-TNJR/CON/0319/212	Contract price Weightages as per clause 23.04 of Concession agreement	
8	3/13/2019	THEME/NHAI/CHO-TNJR/CON/0319/213	Minutes of Project Review Meeting No.5	
9	3/14/2019	THEME/NHAI/CHO-TNJR/ATH/0319/093	Inspection report for the Month of February 2019	
10	3/13/2019	THEME/NHAI/CHO-TNJR/CON/0319/214	Review of Drawings of Proposed Irrigation Channel as Utility Duct Farmers	
11	3/13/2019	THEME/NHAI/CHO-TNJR/CON/0319/215	Notice for Milestone-I as per Clause 13.4	
12	3/18/2019	THEME/NHAI/CHO-TNJR/CON/0319/216	Provisional Approval of Soil Test Reports for the Borrow Area No.9 (A)	
13	3/18/2019	THEME/NHAI/CHO-TNJR/ATH/0319/096	Notice for Occurrence of Force Majeure political event under Article 28, 28-4{(c) of the Concession Agreement	
14	3/19/2019	THEME/NHAI/CHO-TNJR/CON/0319/217	Hindrance obstructions along the Project Highway- work fronts affected	
15	3/19/2019	THEME/NHAI/CHO-TNJR/CON/0319/218	GFC Drawings of 10 VUPs & 6 GSIs	
16	3/22/2019	THEME/NHAI/CHO-TNJR/CON/0319/219	Review Ground Granulated Blast Furnace Slag (GGBS) from Ms. JSW Ltd.	
17	3/21/2019	THEME/NHAI/CHO-TNJR/CON/0319/220	Proposed Merger of Kumbakonam with VUP	
18	3/26/2019	THEME/NHAI/CHO-TNJR/CON/0319/222	Identification of Trial section for research project on performance of Geogrid and Geocell Reinforced pavement (CBR-5 or below)- Compliance report called for	
19	3/27/2019	THEME/NHAI/CHO-TNJR/CON/0319/224	Bitumen Emulsion (SS1 & RS1) from Ms. Ooms Polymer Modified Bitumen Pvt Ltd., Chennai, Source verification	
20	3/27/2019	THEME/NHAI/CHO-TNJR/CON/0319/225	Review of Plan and Profile Drawings for Slip Road of the Project Highway (R1)	
21	3/27/2019	THEME/NHAI/CHO-TNJR/CON/0319/226	Recommendation of the Expert Committee for effective utilization of Fly-ash for NHAI Projects	
22	3/27/2019	THEME/NHAI/CHO-TNJR/CON/0319/227	Review of MOU with NHAI bearing transportation cost of Pond Ash for NHAI Project	

15. Progress Photographs

Sl. No	Description	Location	Side	Remarks
1.	Patteeswaram Base Camp	138+200	RHS	



Sl. No	Description	Location	Side	Remarks
2	Patteeswaram Base camp with RMC Plant and Aggregate Stockyard	138+200	RHS	



Sl. No	Description	Location	Side	Remarks
3.	Mobilized Machineries	138+200	RHS	



Sl. No	Description	Location	Side	Remarks
4.	Mobilized Machineries	138+200	RHS	



Sl. No	Description	Location	Side	Remarks
5.	RMC plant in operation at Base camp	138+200	RHS	



Sl. No	Description	Location	Side	Remarks
6.	HM Plant erection in progress	138+200	LHS	



Sl. No	Description	Location	Side	Remarks
7.	Dismantling of Existing Structures	131+340	LHS	



Sl. No	Description	Location	Side	Remarks
8.	Dismantling of Existing Structures	129+210	LHS	



Sl. No	Description	Location	Side	Remarks
9.	Pipeline Utility 250mm DI Pipe Laying			



Sl. No	Description	Location	Side	Remarks
10.	Embankment is in Progress	161+300		



Sl. No	Description	Location	Side	Remarks
11.	Dumping is in Progress	160+860	RHS	



Sl. No	Description	Location	Side	Remarks
12.	Minor Bridge Wall In Progress	140+637		



Sl. No	Description	Location	Side	Remarks
13.	Minor Bridge PCC Completed	148+592		



Sl. No	Description	Location	Side	Remarks
14.	MNB Granular Filling is in Progress	149+962		



Sl. No	Description	Location	Side	Remarks
15.	Box Culvert Slab Completed	140+322		



Sl. No	Description	Location	Side	Remarks
16.	VU-Piling In Progress	128+715		



Sl. No	Description	Location	Side	Remarks
17.	Box Culvert Raft Work Completed	146+079	LHS	



Sl. No	Description	Location	Side	Remarks
18.	Box Culvert Return Wall and Parapet wall completed	142+048	BHS	



Sl. No	Description	Location	Side	Remarks
19.	Defacement of Political Advertisements	134+020		



Sl. No	Description	Location	Side	Remarks
20	Political Flag Poles Removed	120+170		



Sl. No	Description	Location	Side	Remarks
21.	Existing Road Maintenance	129+450		



Sl. No	Description	Location	Side	Remarks
22	Electrical Utility Shifting HT Work is in Progress	131+670		



Sl. No	Description	Location	Side	Remarks
23.	Existing Major Bridge Pier Maintenance	154+900		



Sl. No	Description	Location	Side	Remarks
24.	MNB Plate Load Test is in Progress	143+852		



Sl. No	Description	Location	Side	Remarks
25.	Eye Check Camp at Pateeswaram Base Camp	138+200		



Sl. No	Description	Location	Side	Remarks
26.	Road Safety Week Celebrations	144+500		



Sl. No	Description	Location	Side	Remarks
27.	Road Safety Week Celebrations	Base Camp		

