



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.



**MONTHLY PROGRESS REPORT**  
**JULY 2020**

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## Executive Summary

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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, Tiruchirappalli. 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

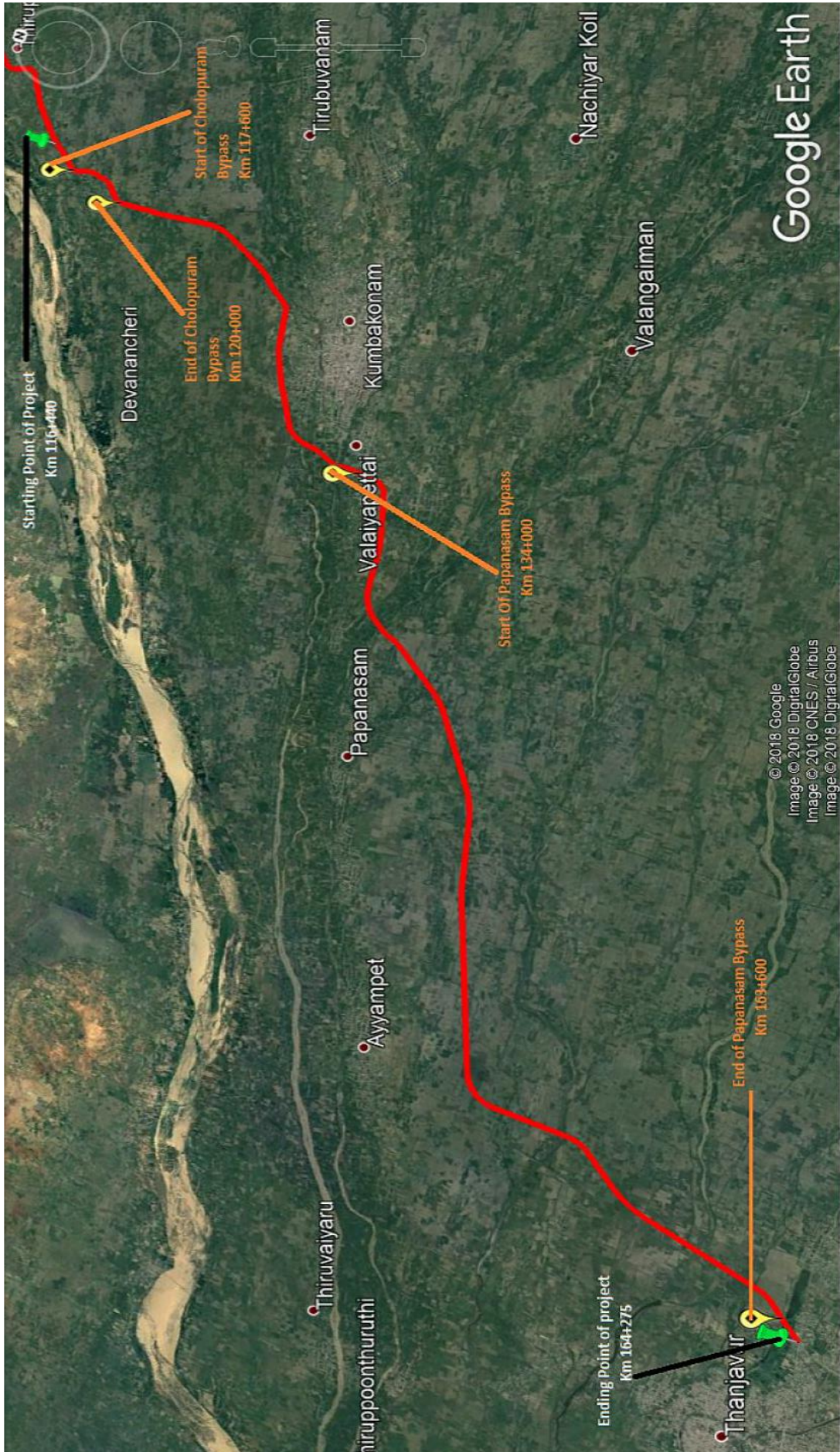
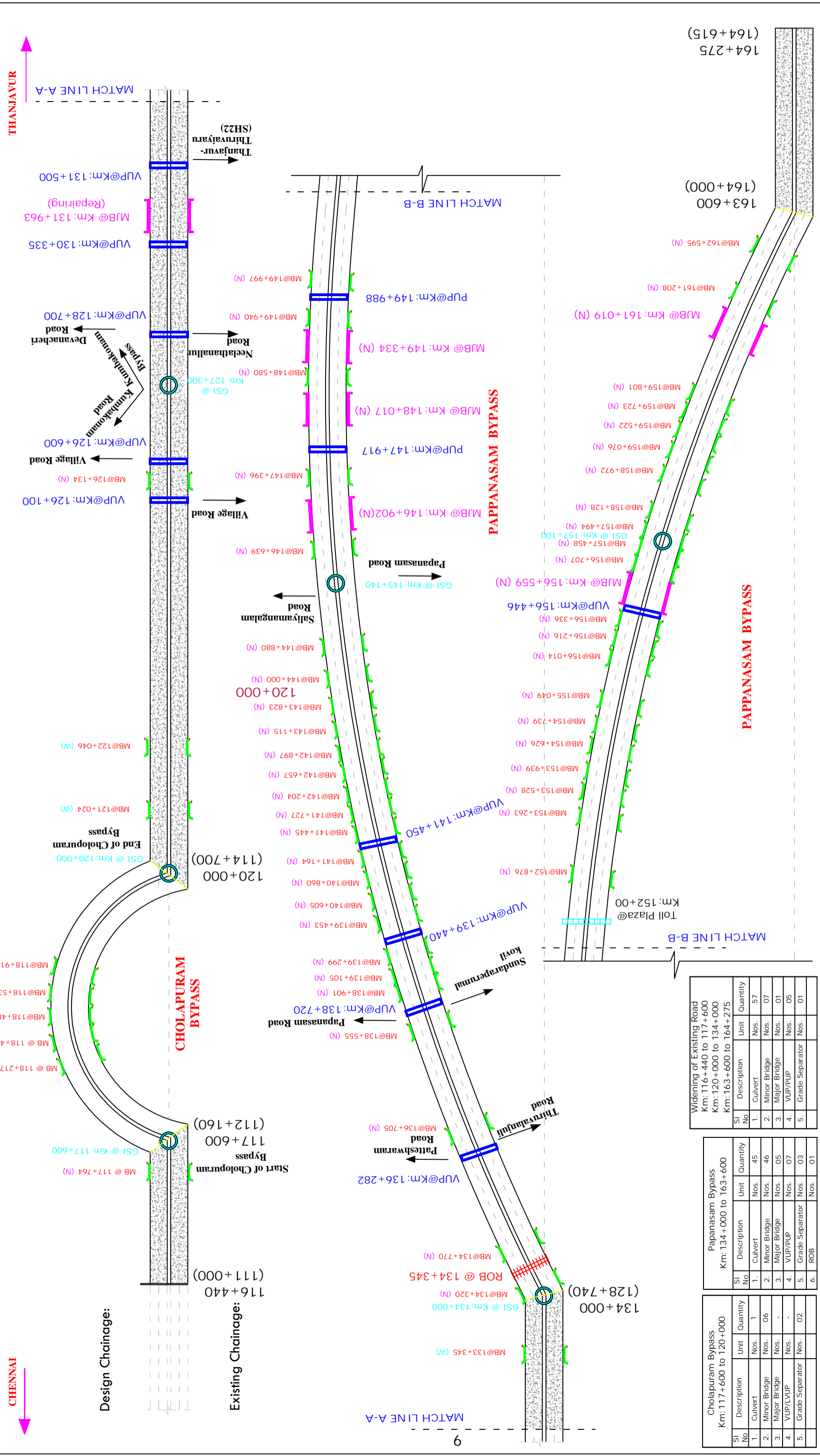


Table- 01: Details of Project Alignments

# STRIP PLAN - CHOLAPURAM TO THANJAVUR HIGHWAY PROJECT OF NH45 C



CHENNAI

THANJAVUR

Design Chainage:

Existing Chainage:

SI No	Description	Unit	Quantity
1.	Widening of Existing Road Km: 116+440 to 117+600	Culvert	Nos. 57
2.	Km: 120+000 to 134+000	Minor Bridge	Nos. 07
3.	Km: 163+600 to 164+275	Major Bridge	Nos. 01
4.	VUP/LVUP	VUP/PJP	Nos. 05
5.	Grade Separator	Nos.	01

SI No	Description	Unit	Quantity
1.	Pappanasam Bypass Km: 134+000 to 163+600	Culvert	Nos. 45
2.	Minor Bridge	Nos.	46
3.	Major Bridge	Nos.	01
4.	VUP/LVUP	VUP/PJP	Nos. 07
5.	Grade Separator	Nos.	03
6.	ROB	Nos.	01

SI No	Description	Unit	Quantity
1.	Cholapuram Bypass Km: 117+600 to 120+000	Culvert	Nos. 1
2.	Minor Bridge	Nos.	06
3.	Major Bridge	Nos.	-
4.	VUP/LVUP	VUP/PJP	Nos. -
5.	Grade Separator	Nos.	02

**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.	Slab Culvert	Nos.	29
7.	Minor Bridge	Nos.	59
8.	Major Bridge	Nos.	06
9.	VUP/PJP	Nos.	12
10.	Grade Separated Structure	Nos.	06
11.	Minor Intersection	Nos.	22
12.	Major Intersection	Nos.	20
13.	Bus Bays and Shelters	Nos.	05
14.	Toll Plaza	Nos.	01
15.	ROB	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

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
		<b>Total Length</b>	<b>47.835</b>		



## 1.1. Project Overview

<b>Name of Work</b>	Four Laning of Cholopuram-Thanjavur from km. 116.440 to Km.164.275 of NH-45C under NHDP-IV on Hybrid Annuity Mode Basis
<b>Name of Employer</b>	National Highways Authority of India (NHAI) G-5 & 6, Sector-10, Dwarka, New Delhi -110075
<b>Name of Concessionaire</b>	Patel 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
<b>Independent Engineer</b>	M/s. Theme Engineering Services Pvt. Ltd, 8, Thomaiyammal Nagar, 6 <sup>th</sup> Street, R.S College (Post), Thanjavur-613005.
<b>EPC Contractor</b>	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
<b>Design Consultant</b>	CTL Global Services Pvt. Ltd. 101, IST Floor, Krishna Chambers, HAL, Airport Road, Bangalore-560017
<b>Senior Lender</b>	Punjab National Bank, Large Corporate Branch, Neelkamal Building, Opp. Sales India, Ashram Road, Ahmedabad - 380009
<b>Lenders Independent Engineers</b>	Sharul Techno-Financial Consultancy Services Pvt. Ltd., 403, Aspire Tower 5, Amanora Park Town, Hadapsar, Pune - 411028.
<b>Length of Road (Design Length)</b>	47.835 Kms.
<b>Total Bid Cost</b>	Rs. 1345.60 Crores (as per concession agreement)
<b>Date of Concession Agreement</b>	October 12, 2017
<b>Concession Period</b>	17 Years ( Construction Period 2 Years from Appointed date, Operation period 15 years from COD)
<b>Appointed Date</b>	06.09.2018
<b>Construction Period</b>	02 years from Appointed date
<b>Completion Date</b>	04.09.2020
<b>Completion Date as per 1<sup>st</sup> IEOT</b>	04.04.2021
<b>Maintenance Period</b>	15 years from COD

## 1.2. Salient Project Features

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

4 - Lane Divided Carriage Way	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	Revised Target date as per recommended EOT
Mile Stone-I	Concessionaire shall expended not less than 20 % of the Total capital cost and shall have commenced construction of the project and achieved 20% of physical progress on 214 <sup>th</sup> day from the Appointed Date.	07 <sup>th</sup> April 2019	11 <sup>th</sup> January 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 <sup>th</sup> day from the Appointed Date	05 <sup>th</sup> August 2019	10 <sup>th</sup> May 2020
Mile Stone-III	Concessionaire shall expended not less than 75 % of the Total capital cost and shall have commenced construction of the project and achieved 75% of physical progress on 584 <sup>th</sup> day from the Appointed Date	11 <sup>th</sup> April 2020	15 <sup>th</sup> January 2021
Scheduled Completion	Concessionaire shall have completed Project on 730 <sup>th</sup> day from the Appointed Date	04 <sup>th</sup> September 2020	10 <sup>th</sup> June 2021

### 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 &amp; Approvals

Sr. No.	Details	Authority	Current Status	Remarks
1	Extraction of Boulders from Quarries	Dist. Mining Officer	Obtained	PIL (EPC Contractor) 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	Dist. Collector	Obtained	
5	Labour License	Labour Commissioner	Obtained	
6	Environmental Clearance		NA	
7	Trees Cutting Permission	Forest department through NHAI	Obtained	Work in Progress ( Permission for removal of Teak wood trees is awaited )
8	Electric Poles Shifting	Tamil Nadu Electricity Board	Obtained	Work in Progress
9	Water Pipes Shifting	Tamil Nadu Water Supply and Drainage Board	Obtained	Work in Progress
10	Drawing Water from river/ reservoir	-	NA	-

### 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
<b>(i) Full Right of Way (full width)</b>				
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	
<b>Total Length</b>		<b>47.835</b>		

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	124.700 to 126.100	1.40	20	
Stretch	126.700 to 127.655	0.95	20	
Stretch	130.600 to 134.000	3.40	20	
<b>Total Length</b>		<b>7.250</b>		

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
<b>A )</b>	<b>Total Length of the Project Highway</b>	<b>Km</b>	<b>47.835</b>	
<b>i)</b>	Use of Existing Road Portion	Km	15.835	
<b>ii)</b>	Proposed Bypass / Realignment portion	Km	32.000	
<b>B )</b>	Hindered Length			
<b>i)</b>	LA Pending/Land under disputes	Km	7.540	
<b>ii)</b>	Existing Buildings	Km	2.480	
<b>iii)</b>	Pending for Disbursement of Payment	Km	4.735	
<b>iv)</b>	Electrical Lines	Km	3.610	
<b>v)</b>	Rural Water Supply lines	Km	10.580	
<b>C )</b>	Net Hindered Length (both Side)	Km	7.975	
<b>D )</b>	Total Project Length (both Side)	Km	47.835	
<b>E )</b>	<b>% Hindered Length</b>	<b>%</b>	<b>16.67%</b>	

There has been increase in the Hindered length due to Diversion not possible at RE Wall stretches as Land not yet made available. 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	1074	393	
	<b>Total in Nos.</b>	<b>1467</b>	<b>1074</b>	<b>393</b>	
	<b>Total in %</b>		<b>73.21%</b>	<b>26.79%</b>	

Sr. No.	Name of the District	Total No. of structures	Amount paid (in Nos)	Balance to be Paid (in Nos)	Remarks
1	Thanjavur	813	662	151	
	<b>Total in Nos</b>	<b>813</b>	<b>662</b>	<b>151</b>	
	<b>Total in %</b>		<b>81.43%</b>	<b>18.57%</b>	

The details of Chainage under hindrance due to such balance compensation issues to their land owners, structure payment issues, standing crops, water pipe lines etc. which are jointly inspected by the Independent Engineer and Authority are as below –

Table 2.1-5 - Details of Stretches Under Hindrance

1) Details of Stretches Under Hindrance (LHS):-

Sl.No	From	To	Length	Side	Effective Hindered Length	Remarks
1	116+400	117+230	830	LHS	830	Buildup area, payment not made by the authority and not handed over to the concessionaire.
2	117+230	117+600	370	LHS	370	Buildup area, payment not made by the authority and not handed over to the concessionaire. No sufficient land for service road construction to take up the RE wall in main carriageway. As diversion of traffic is not possible for the running traffic.
3	120+000	120+420	420	LHS	420	Compensation not yet Paid for Existing Buildings due to internal court case – document problem. A2 RE Wall approach cannot be done.

4	120+450	120+710	260	LHS	260	(i) Compensation for Existing building on LHS side is yet to be paid due to court case and document issues. (ii) In LHS Existing pond is not available in mentioned chainages. (iii) Utility work could not be taken up due to the hindrances, to complete the network (PVC & DI pipes on both sides of the road) (iv) Petrol Bunk could not be dismantled due to electrical shifting
5	121+250	121+350	100	LHS	100	Compensation for Land and Fencing on LHS side is yet to be paid. Utility work could not be taken up due to the hindrances, to complete the network (PVC & DI pipes on both sides of the road) Payment to the paddy fields is yet to be paid.
6	121+550	121+650	100	LHS	100	Compensation for Dhroupathiamman temple is yet to be paid. Utility work could not be taken up due to the hindrances, to complete the network (PVC & DI pipes on both sides of the road) Compensation for Existing building on LHS side is yet to be paid due to document issues.
7	122+000	122+100	100	LHS	100	One temple & tree to be removed
8	125+370	125+450	80	LHS	80	Compensation to Sundareswara Swami Devasthanam is pending with HR & CE.
9	125+580	125+600	20	LHS	20	Unpaid Empty Land, Compensation for Existing building is yet to be paid.
10	125+820	125+840	20	LHS	20	School Building, A1 RE Wall approach
11	125+950	126+010	60	LHS	400	Compensation for Existing building is yet to be paid due to court case and document issues.
12	128+400	128+415	15	LHS	800	(i) Km 128+400 Temple to be removed (ii) Petrol bunk & Land Compensation are yet to be paid. (iii) Devar Statue yet to be removed
	128+780	128+910	130			
	129+010	129+020	10			
13	130+290	130+310	20	LHS	360	Compensation for Existing building is yet to be paid due to document issues- Revaluation is given.
14	131+790	131+850	60	LHS	350	Compensation not yet paid for land.
15	133+610	133+645	35	LHS	420	Compensation not yet paid for land & Structures, Existing irrigation sluices at km 134+770 to be relocated.
	134+750	134+790	40			

16	138+300	138+530	230	LHS	230	Land on dispute court issue (Mr. Dharmalingam & Mr. Shanmugam)
17	138+770	138+820	50	LHS	500	Land on dispute court case Mr. Dhaeshinamoorthy , Mr. Rajini Mr. Nagaraj)
18	145+480	145+530	50	LHS	50	Teak wood trees to be removed
19	147+400	147+450	50	LHS	50	Teak wood trees to be removed
20	147+850	148+150	300	LHS	340	Obstruction of existing irrigation canal needs to be relocated.
21	149+330	149+340	10	LHS	10	Teak wood trees to be removed
22	150+800	150+850	50	LHS	100	Existing Irrigation sluice to be relocated
23	152+900	152+930	30	LHS	100	Existing Irrigation sluice to be relocated
24	154+500	154+900	400	LHS	400	Vaiyacheri Village land on Dispute
25	156+420	156+500	80	LHS	80	Teak wood trees to be removed
26	161+100	161+220	120	LHS	120	Land on dispute court issue Ms Tamilselvi
Total Hindered Length LHS (m.)					6610	

2) Details of Stretches Under Hindrance (RHS):-

Details of Stretches Under Hindrance (RHS)						
Sl.No	From	To	Length	Side	Effective Hindered Length	Remarks
1	116+400	117+230	830	RHS	1200	Buildup area, payment not made by the authority and not handed over to the concessionaire.
	117+230	117+600	370			No land for construction of service road for taking up the RE wall construction.
2	120+000	120+390	390	RHS	390	"Compensation not yet Paid for the Lands, Existing Buildings, ponds & temples. Utility work can't be completed due to hindrance so, can't building service road and RE wall work. A2 RE Wall Approach of 120+000 GSI cannot be taken up
3	120+465	120+650	185	RHS	275	(i)Compensation not yet Paid for the Existing Buildings because of court case & Ponds is located in mentioned chain ages.
	120+650	120+740	90			(ii)Tank has to be dismantled
4	120+900	121+000	100	RHS	100	Paddy Field
5	122+080	122+120	40	RHS	40	Vanakaliamman temple (km 122+080) on RHS side with banyan tree compensation to be paid, water pipeline.





6	125+050	125+150	100	RHS	100	Toyoto showroom yard on RHS Side with fencing compensation to be paid
7	125+580	125+680	100	RHS	100	Compensation not yet Paid for the Existing Buildings due to document issues. Temple (Km 125+670) Compensation not yet paid & Existing building are in Dismantling progress.
8	125+810	125+830	20	RHS	400	(i)Compensation not yet paid Existing Building. (ii) Compensation are paid & Dismantling in progress (Including Toyota showroom).
9	130+210	130+300	90	RHS	365	Compensation pending for Structures due to LPS issues. RE wall can't be taken up due to non availability of land for service road portion.
10	131+790	131+850	60	RHS	350	(i)Compensation not yet paid Existing Building.
11	132+770	132+790	20	RHS	20	Compensation pending for Structures due to LPS issues.
12	138+400	138+480	80	RHS	80	Land on dispute court issue (Mr. Dharmalingam & Mr. Shanmugam)
13	138+770	138+820	50	RHS	550	Land on dispute court case Mr. Dhaeshinamoorthy , Mr. Rajini Mr. Nagaraj)
14	139+450	139+470	20	RHS	20	Existing (TWAD) Pump house to be shifted
15	146+600	147+000	400	RHS	400	Obstruction of Existing Irrigation canals and teak wood trees.
16	147+400	147+450	50	RHS	50	Teak wood trees to be removed
17	147+850	148+150	300	RHS	300	Teak wood trees to be removed. RE wall work can't be taken up between 147+850 to 148+150 due to hindrance.
18	149+330	149+340	10	RHS	10	Teak wood trees to be removed
19	150+800	150+850	50	RHS	100	Existing Irrigation sluice to be relocated
20	152+900	152+930	30	RHS	100	Existing Irrigation sluice to be relocated
21	154+500	154+800	300	RHS	300	Vaiyacheri Village land on Dispute
22	156+420	156+500	80	RHS	80	Teak wood trees to be removed
23	161+100	161+220	120	RHS	120	Land on dispute court issue Ms Tamilselvi
<b>Total Hindered Length RHS (m.)</b>					<b>5450</b>	






The available physical possession of land in RHS Side is 42.385 km and in LHS Side is 41.225 km

**HINDRANCES-CHOLAPURAM THANJAVUR ROAD PROJECT**








S.No	CHAINAGE		Effectd Length	SIDE	Name of the Village	Type of Hindrances	Total No of Structures	Name of the Owner	Survey No	Payment Status	Type of Issue	Photos	Remarks
	FROM	TO											
1	116+440	116+475	35	LHS	Manambadi	HUT - 3	3	CHINNAPILLAI, DHARMARAJ,SAROJA, ELANGO VAN	43/9B (Saroja), 43/10B (D Raj)	Paid	VERIFICATION IN PROCESS		Owners are not satisfied with the payment and are not allowing to dismantle
2	116+440	116+450	10	RHS	Manambadi			KARTHIK, KUNJAMAL	58/7B 8B	Not Paid	COURT CASE		
3	116+490	116+510	20	LHS	Manambadi	HUT-4 GI SHEET-1	2	CHINNAPONNU	48	Not Paid			
4	116+510	116+515	5	LHS	Manambadi	HUT SHOP ,GI SHEET HOUSE	2	MURUGAN,PALANIAMMAL	48/24	Not Paid	GOVT.P		
5	116+515	116+525	10	LHS	Manambadi	RCC, HUT, GI SHEET	3	NEHRU, KAYALVILZHI	48	Not Paid	GOVT.P		
6	116+520	116+540	20	RHS	Manambadi	HUT	3	SETTU SONS	57/7A	Not Paid	JOINT PATT A PROBLEM		
7	116+525	116+540	15	LHS	Manambadi	RCC, GI SHEET	2		48	Not Paid	GOVT.P		
8	116+540	116+560	20	LHS	Manambadi	GI SHED, RCC HOUSE	2	MALLIGA	48/4	Not Paid	GOVT.P		
9	116+570	116+575	5	LHS	Manambadi	GI SHED	1	PITCHA PILLAI	48	Not Paid	GOVT.P		
10	116+580	116+590	10	LHS	Manambadi	RCC HOUSE	1	VALARMATHI ,THIYAGARAJAN	48	Not Paid	GOVT.P		
11	116+590	116+595	5	LHS	Manambadi	HUT , WIRE FENCING	2	ARUMUGAM, SARASU	48/2A2	Not Paid	GOVT.P		
12	116+595	116+610	15	LHS	Manambadi	G+1 RCC,	1	HEMALATHA, VENMANI	48/2A2	Not Paid	GOVT.P		
13	116+615	116+625	10	LHS	Manambadi	GI SHEET	1	HEMALATHA, VENMANI	48/2A2	Not Paid	GOVT.P		
14	116+645	116+655	10	LHS	Manambadi	HUT & GI SHEET	2	CHELLAMMAL, PONNAMMAL, SATHYAMOORTHY	49/11A,49/11B	Not Paid	JOINT PATT A PROBLEM & DOCUMENT PROBLEM		
15	116+655	116+660	5	LHS	Manambadi			UTHAMAN	49/7	Not Paid	DOCUMENT PROBLEM & TO BE SUB DIVIDED		
16	116+660	116+680	20	LHS	Manambadi	LAND & FLOORING TEMPLE	2	UTHAMAN	49/9	Not Paid	DOCUMENT PROBLEM & TO BE SUB DIVIDED		
17	116+682	116+690	8	LHS	Manambadi	GI SHEET	1	CHANRAKALA, KAVIARASU	49/7A2B	Not Paid	DOCUMENT PROBLEM & TO BE SUB DIVIDED		
18	116+690	116+710	20	LHS	Manambadi	LAND WITH TREES, HUT	1	GUNABAL	49/7A2B	Not Paid	HOUSE ONLY PAID		NEED TO MEET LA SURVEYOR
19	116+690	116+695	5	RHS	Manambadi	MOTOR SHED	1	MOHAMMED SULTAN		Paid	PAID & NO OBJECTION		EB Connection to shifted
20	116+710	116+720	10	LHS	Manambadi	RCC GREEN HOUSE	1						
21	116+720	116+725	5	LHS	Manambadi	TILE HOUSE	1	SELVADURAI	127/13,14,15,16,17	Not Paid	PARTIALLY PAID		
22	116+725	116+735	10	LHS	Manambadi	RCC G+1	1	MURUGESAN S/O GUNNDU	49/112	Paid	PAID UNDER NOTICE PERIOD		Need Police Support for Dismantling
23	116+735	116+740	5	LHS	Manambadi	RCC G+1	1	MINUKACHI	49/1H2	Paid	PAID UNDER NOTICE PERIOD		Need Police Support for Dismantling
24	116+750	116+760	10	LHS	Manambadi	RCC PARTIALLY CONSTRUCTION	1	L.GANASAN	49/1G	Paid	PAID, REVALUATION APPLIED		Need Police Support for Dismantling
25	116+760	116+770	10	LHS	Manambadi	TILED & RCC HOUSE	2	MUTHAMMAL	49/1F	Paid	PAID UNDER NOTICE PERIOD		Need Police Support for Dismantling
26	116+770	116+785	15	LHS	Manambadi	GI SHED, RCC HOUSE	2	BALAKRISHNAN	49/1D2B,49/1E2	Paid	PAID UNDER NOTICE PERIOD		Need Police Support for Dismantling
27	116+785	116+805	20	LHS	Manambadi	HUT & TILED HOUSE	2	GOVINDASAMY, SAMIKANNU, CHANDRAN, SEIGAMANI	491D2B	Not Paid	UNPAID & ENQUIRED PROPOSAL IN PROCESS		
28	116+785	116+795	10	RHS	Manambadi	HUT	1	THANGAMANI, DEVI	53/10	Not Paid	GOVT.P		
29	116+795	116+810	15	RHS	Manambadi	HUT	1	KANNAIYAN	53/10	Not Paid	GOVT.P		
30	116+805	116+825	20	LHS	Manambadi	GI SHED	1	PANNERSELVAM, SAKTHI	49/1C2	Paid	PAID UNDER NOTICE PERIOD		Need Police Support for Dismantling
31	116+810	116+815	5	RHS	Manambadi	HUT	1			Not Paid	GOVT.P UNPAID		
32	116+810	116+815	5	RHS	Manambadi	RCC	1	MARIMUTHU	53/10	Not Paid	PATTA UNPAID		
33	116+815	116+820	5	RHS	Manambadi	HUT	1			Not Paid	GOVT.P UNPAID		
34	116+815	116+820	5	RHS	Manambadi	RCC	1	BABY	53/10	Not Paid	PATTA UNPAID		
35	116+825	116+850	25	LHS	Manambadi	2NO.S STR.	2	CHINNATHAMBI, CHINNADURAI	49/11	Not Paid	UNPAID & RECENTLY SURVEY		Need Documents
36	116+825	116+840	15	RHS	Manambadi			REVATHI, PANDIYAN, SELVI, VELU	53/10	Not Paid	2ND PAYMENT UNPAID		Proposed to DRO

S.No	CHAINAGE		Effectd Length	SIDE	Name of the Village	Type of Hindrances	Total No of Structures	Name of the Owner	Survey No	Payment Status	Type of Issue	Photos	Remarks
	FROM	TO											
37	116+860	116+880	20	LHS	Manambadi	PRIMARY SCHOOL, MAHAMARIYAMMAN TEMPLE	2	RATHNAM( NATTAMAI)	129/B2	Paid	GOVT.P		BDO FUND TRANSFER TO PANCHAYET
38	116+875	116+885	10	RHS	Manambadi	SMALL CHURUCH WITH GRILL GATE	1	THOMAS ALWA EDISON	127/19	Not Paid	2ND PAYMENT UNPAID		
39	116+880	116+890	10	LHS	Manambadi	HUT-2	2	MURUGAN , KAMARAJ	129/1E2,129/2A2	Paid	PAID UNDER NOTICE PERIOD		Need Police Support for Dismantling
40	116+885	116+895	10	RHS	Manambadi	GI SHEET	1	DEIVASAGAYAM, LOUIS	127/15A	Not Paid	2ND PAYMENT UNPAID		Court Case
41	116+890	116+900	10	LHS	Manambadi	LAND ONLY	1	L.GANASAN	129/6	Paid	PAID UNDER NOTICE PERIOD		Need Police Support for Dismantling
42	116+895	116+905	10	RHS	Manambadi	GI SHEET	1	JOSHPI ANTHONIAMMAL, SEKAR	127/11A	Not Paid	2ND PAYMENT UNPAID		Court Case
43	116+900	116+910	10	LHS	Manambadi	HUT, RCC, TILE	3			Not Paid	2ND PAYMENT UNPAID		Court Case
44	116+905	116+915	10	RHS	Manambadi	GI SHEET	1	JOSHPI ANTHONIAMMAL, SEKAR	127	Not Paid	2ND PAYMENT UNPAID		Court Case
45	116+910	116+920	10	LHS	Manambadi	RCC	1	PITCHA PILLAI	130/1	Not Paid	2ND PAYMENT UNPAID		Proposal Processing
46	116+920	116+925	5	LHS	Manambadi	GI SHEET	1	BASKAR	130/1A,130/1B	Not Paid	2ND PAYMENT UNPAID		Proposal Processing
47	116+920	116+930	10	RHS	Manambadi	RCC	1		117/5C1B	Paid	PAID UNDER NOTICE PERIOD		Need Police Support for Dismantling
48	116+925	116+940	15	LHS	Manambadi	RCC	1	YESUDOSS	130/1A1, 130/1B1	Not Paid	2ND PAYMENT UNPAID		Proposal sent to DRO
49	116+935	116+940	5	RHS	Manambadi	HUT	1	RAJAKUMAR		Not Paid	UNKNOWN STATUS		Proposal sent to DRO
50	116+940	116+955	15	LHS	Manambadi	TILED HOUSE	1	PRAKASAM	130/1	Not Paid	2ND PAYMENT UNPAID		Proposal sent to DRO
52	116+955	116+960	5	LHS	Manambadi	RCC	1	THANGARAJU	130/1	Not Paid	2ND PAYMENT UNPAID		STATEMENT TO LA
53	116+955	116+965	10	RHS	Manambadi	RCC	1	BHARATHI W/O TAMILSELVAN	53/11A1, 27/9B2A	Paid	PAID UNDER NOTICE PERIOD		Need Police Support for Dismantling
54	117+005	117+010	5	LHS	Manambadi	TNPC TEMPORARY GODOWN	1	BALASUBRAMANIAN	121/18		UNKNOWN STATUS		Poramboke Land
55	117+010	117+020	10	LHS	Manambadi	HUT		SUSAIAMMAL	121/13	Not Paid	DOCUMENT PROBLEM		IN TAHSILDAR TABLE
56	117+020	117+025	5	LHS	Manambadi	RCC HOUSE	1	CHINNATHAMBI	121/12B	Not Paid	2ND PAYMENT UNPAID		CHITTA PENDING
57	117+020	117+080	60	RHS	Manambadi	FENCING WITH AC SHEET, MARRIAGE HALL WITH G+1 AC SHEET, G+1 TILE CHRUCH	3		127/10D2A, 127/10C1	Paid	DOCUMENT PENDING		Not Dismantled
58	117+025	117+030	5	LHS	Manambadi	HUT	1	RAJAPPAN	121/12A2	Not Paid	2ND PAYMENT UNPAID		
59	117+035	117+045	10	LHS	Manambadi	TILED HOUSE	1	GNANAPRAKASAM	121/10	Not Paid	DOCUMENT PROBLEM		Court Case
60	117+045	117+055	10	LHS	Manambadi	GI SHED	1	BHAKIYASAMY	121/12	Paid	PAID		Need Police Support for Dismantling
61	117+045	117+055	10	LHS	Manambadi	LAND	1	BHAKIYASAMY	121/12	Not Paid	UNPAID		
62	117+060	117+070	10	LHS	Manambadi	RCC	1	VASUDEVAN	121/7A2	Paid	REVALUTION APPLIED UNDER NOTICE PERIOD		
63	117+070	117+095	25	LHS	Manambadi	RCC	1	VASUDEVAN , VAIRAM	121/6A2	Paid	PAID UNDER NOTICE PERIOD /NO OBJECTION		Estimate Problem ( DE Visit)
64	117+110	117+125	15	RHS	Manambadi	TILE,RCC	2		123	Not Paid	JOINT PATTI PROBLEM		LA PROCESS
65	117+150	117+155	5	LHS	Manambadi	NEW CONSTRUCTION BUILDING	1			Paid	PAID /NO OBJECTION / UNDER DISMANTLING		Will be Dismantled Shortly
66	117+175	117+185	10	LHS	Manambadi	TILE TEA SHOP	1	ANARKALI	120/20	Not Paid	2ND PAYMENT UNPAID		
68	117+185	117+195	10	RHS	Manambadi	LAND				Not Paid	UNPAID / DOCUMENT PROBLEM		PENDING WITH LA
<b>117+200 TO 117+900-GSI-(117+600)</b>													
69	117+190	117+205	15	LHS	Manambadi	HOUSE + 2 SHOPS	3			Not Paid	2ND PAYMENT UNPAID		
70	117+190	117+215	25	RHS	Manambadi	VAO OFFICE , RATION SHOP	2			Paid	UNPAID / GOVT. STR.		Payment yet to be received from BDO to the concerned.Informed BDO july first week will be dismantled
71	117+215	117+225	10	RHS	Manambadi	House-Shop	2	KAMARAJ S/O.RAMASAMY	117/15	Not Paid	UNPAID / DOCUMENT PROBLEM		
72	117+225	117+235	10	RHS	Manambadi	MANGLORE TILE HOUSE-4 NO.S . HUT	5	RAMASAMY	117/6H	Not Paid	2ND PAYMENT UNPAID / TEMPLE LAND ISSUE		
73	117+235	117+240	5	RHS	Manambadi	RCC	1	SETHURAMAN, RASU	117	Paid	PAID / TEMPLE LAND ISSUE		Only Structure Payment is done Temple EO visited for Land Payment

S.No	CHAINAGE		Effectd Length	SIDE	Name of the Village	Type of Hindrances	Total No of Structures	Name of the Owner	Survey No	Payment Status	Type of Issue	Photos	Remarks
	FROM	TO											
74	117+245	117+250	5	RHS	Manambadi	RCC , AC SHHET	2	PERUMAL, SIVALINGAM		Paid	PAID / TEMPLE LAND ISSUE		Only Structure Payment is done Temple EO visited for Land Payment
75	117+250	117+260	10	RHS	Manambadi	HUT & TILED HOUSE	2			Not Paid	2ND PAYMENT UNPAID		
76	117+260	117+265	5	RHS	Manambadi	HUT & TILED HOUSE	2	JOSEPH	117/6B	Not Paid	2ND PAYMENT UNPAID		
77	117+270	117+280	10	RHS	Manambadi	HUT & TILED HOUSE	1	SUBRAMANI		Not Paid	2ND PAYMENT UNPAID		
78	117+280	117+305	25	RHS	Manambadi	RCC HOUSE	1	PAULRAJ	117/5C2A	Not Paid	DOCUMENT PROBLEM & REVIEW IN LA		
79	117+310	117+325	15	RHS	Manambadi	HUT - 2	2	PANNERSELVAM	116/7B1	Not Paid	2ND PAYMENT UNPAID/ PASSBOOK PROBLEM		
80	117+345	117+355	10	RHS	Manambadi	RCC HOUSE	1	STANISDAS S/O.RATHNASAMY	116/4	Not Paid	2ND PAYMENT UNPAID		
81	117+360	117+375	15	RHS	Manambadi	ROOF & RCC HOUSE	1	JOSHAB S/O. AROKIYASAMY	116/3B	Not Paid	2ND PAYMENT UNPAID		
82	117+390	117+405	15	RHS	Manambadi	House	1	RAMAMOORTHY	116/2A	Not Paid	PAID / REVALUATION APPLIED		
83	117+545	117+555	10	RHS	Manambadi	RCC G+1	1	JESI W/O PAULRAJ	115/4C1B	Paid	PARTIALLY DISMANTLED		Dismantling is in Progress
86	117+590	117+600	10	RHS	Manambadi	TILE, RCC	2	KULOTHUNGAN		Paid	PAID / UNDER NOTICE / REVALUATION APPLIED		Will be Dismantled Shortly
		<b>Effectd Length</b>	<b>988</b>			<b>Total</b>	<b>114</b>						
						<b>Paid</b>	<b>34</b>						
						<b>Not Paid</b>	<b>80</b>						
<b>CH 119+600 TO 120+420 -GSI</b>													
87	120+000	120+010	10	LHS	Vilanthakandam	RCC	1	Venkatesh		Paid			Need Police Support for Dismantling
88	120+090	120+100	10	LHS	Vilanthakandam	HUT , 3 NOS RCC BUILDING , TILE HOUSE	3	KASINATHAN, RAMALINGAM, RANJITH KUMAR	134/1B , 134/1A	Not Paid	INTERNAL-COUR CASE - DOUMENT PROBLEM		

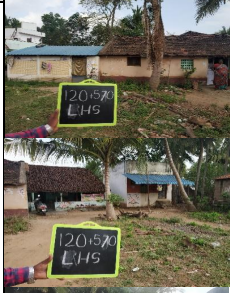





S.No	CHAINAGE		Effectd Length	SIDE	Name of the Village	Type of Hindrances	Total No of Structures	Name of the Owner	Survey No	Payment Status	Type of Issue	Photos	Remarks
	FROM	TO											
89	120+100	120+115	15	LHS	Vilanthakandam	G+1 RCC WITH SHOP	1	PONNIYIN SELVAN	134/1B2	Not Paid	REVALUATION- D.E VISIT BENDING		House paid, Shop Not Paid- Dismantling in Progress
90	120+150	120+160	10	RHS	Vilanthakandam	WOODSHOP & HOUSE	1	PARAMESWARAN	29/4A1B	Not Paid			NOT DISMANTLED
91	120+150	120+166	16	RHS	Vilanthakandam	RCC BUILDING WITH COMPOUND WALL	1	KUMAR , KASINATHAN	29/4A1B1	Not Paid	JOINT PATTI PROBLEM		
92	120+175	120+195	20	LHS	Vilanthakandam	TILE, HUT, GI SHEET	3	MAHALINGAM, RAMACHANDRAN PAKKIRI	134/4	Paid			Need Police Support for Dismantling
93	120+195	120+200	5	LHS	Vilanthakandam	VINAYAGA TEMPLE WITH ARASAN TREE	1			Paid			Dismantling in progress

S.No	CHAINAGE		Effectd Length	SIDE	Name of the Village	Type of Hindrances	Total No of Structures	Name of the Owner	Survey No	Payment Status	Type of Issue	Photos	Remarks
	FROM	TO											
94	120+200	120+220	20	RHS	Vilanthakandam	RCC WITH COMPOUND WALL	1	KALIYAMOORTHY	29/4A1 E	Not Paid			Cheque Issued
95	120+200	120+221	21	RHS	Vilanthakandam	RCC WITH TWO SHOPS	1	JEYARAMAN	29/4A1A	Not Paid	Paid to 2 shops Only and not paying RCC		NOT DISMANTLED-D.E VISIT BENDING
96	120+210	120+222	12	RHS	Vilanthakandam	AYYANAR TEMPLE	1			Paid			Dismantling in Progress
97	120+210	120+220	10	RHS	Vilanthakandam	AC SHEET, GI SHEET	2	RAJENDRAN		Paid	JOINT PATTI PROBLEM		
98	120+225	120+240	15	RHS	Vilanthakandam	RCC WITH COMPOUND WALL	1	PARVATHY-RAMALINGAM	29/4 B3	Paid	PATTI PAID REVALUATION APPLIED & GOVT. AREA UNPAID		
99	120+240	120+250	10	RHS	Vilanthakandam	RCC, MANGALORE TILE BUILDING	2	K RAJU	130/2	Paid			Need Police Support for Dismantling

S.No	CHAINAGE		Effectd Length	SIDE	Name of the Village	Type of Hindrances	Total No of Structures	Name of the Owner	Survey No	Payment Status	Type of Issue	Photos	Remarks
	FROM	TO											
100	120+250	120+260	10	LHS	Vilanthakandam	RCC	1	KANNAN		Paid			Need Police Support for Dismantling
101	120+250	120+260	10	RHS	Vilanthakandam	RCC BUILDING	1	NATARAJAN	28/4D1,28/4 D2	Not Paid	2ND PAYMENT		Document Correction between ilayaraja & Natrajan Pending
102	120+265	120+275	10	LHS	Vilanthakandam	RCC	1	THACHINA MURTHY		Paid			Dismantling is in Progress
103	120+340	120+356	16	RHS	Vilanthakandam	RCC COMPLEX WITH HOUSE	1	SETHALADEVI NARASIMMAN (Complex)	26/3A	2nd paymet Not Paid	REVALUATION APPLIED		Waiting for 2nd payment
		<b>Effectd Length</b>	<b>220</b>			<b>Total</b>	<b>23</b>						
						<b>Paid</b>	<b>12</b>						
						<b>Not Paid</b>	<b>11</b>						
<b>120.420 TO 122+000- TYPE -B</b>													
104	120+465	120+500	35	RHS	Kovilacheri	3 HUT & RCC BUILDING-1NOS	4	SUBRAMANIYAN PATTA - Thangathammal	32/7A	Not Paid	PATTA COURT CASE	   	Court Statement required

S.No	CHAINAGE		Effectd Length	SIDE	Name of the Village	Type of Hindrances	Total No of Structures	Name of the Owner	Survey No	Payment Status	Type of Issue	Photos	Remarks
	FROM	TO											
105	120+535	120+540	5	RHS	Kovilacheri	RCC BUILDING WOODEN SHOP -1 NOS	1	RAVICHANDRAN	32/9A	Not Paid	PATTA NOT-PAID		RI is Processing
106	120+575	120+595	20	RHS	Kovilacheri	RCC BUILDING	1	PANEER SELVAM	325/5E	Not Paid	Death certificate required		Awaiting Regular Tahsildar Certificate
107	120+630	120+655	25	RHS	Kovilacheri	RCC BUILDING-3 NOS, MANGALORE TILE BUILDING-1 NOS	4	KALAICHELVI CHAKRAVARTHY, PALANIVEL, KANNAINYAN, PAVADAI	26/2B 26/2B1	Paid - 1 Not Paid - 3	PATTA NOT-PAID	  	Proposal sent to DRO
109	120+450	120+490	40	LHS	Kovilacheri	PETROL BUNK	1	EZHILSELVAN		Paid			Need EB Pole Connection required before dsmantling
110	120+515	120+520	5	LHS	Kovilacheri	HUT HOTEL -1 NOS & HUT- 1 NOS	2	THANGAVEL CHANDRAKASI	48/1B	Not Paid	Documet Issue -COURT CASE		In process with LA



S.No	CHAINAGE		Effectd Length	SIDE	Name of the Village	Type of Hindrances	Total No of Structures	Name of the Owner	Survey No	Payment Status	Type of Issue	Photos	Remarks
	FROM	TO											
111	120+560	120+600	40	LHS	Kovilacheri	1 SHEET, 2 MANGALORE TILE, 1- RCC BUILDING	4	KULANCHIAPPAN SUSILA PANEERSELVAM RAJENDRAN	48/3A2	Not Paid	JOINT PATT A PROBLEM		Pending with RI (LA)
112	120+610	120+625	15	LHS	Kovilacheri	RCC BUILDING WITH TILE ROOF	1	RAJU- AASARIE, MAHALINGAM, SHANMUGAM	48/3B,2B	Not Paid			Document Unregistered
113	120+685	120+695	10	LHS	Kovilacheri	RCC BUILDING	1	SANTHOSH KUMAR	48/7	Not Paid			Processing
114	120+685	120+710	25	LHS	Kovilacheri	AC SHEET WITH WELDING SHOP	1	SAGUR MAN BOY	48/7A	Not Paid			Documentation Process
115	120+850	120+860	10	LHS	Kovilacheri	FRONT WALL	1	SANTHOSH KUMAR		Paid			WALL only NOT DISMANTLED- EB LINE SHIFTED
116	120+880	120+885	5	LHS	Kovilacheri	WALL WITH EB LINE	1	PERUMAL	51/10B	Paid			Dismantled and EB line removed


S.No	CHAINAGE		Effectd Length	SIDE	Name of the Village	Type of Hindrances	Total No of Structures	Name of the Owner	Survey No	Payment Status	Type of Issue	Photos	Remarks
	FROM	TO											
117	120+995	121+000	5	LHS	Kovilacheri	HUT	2	SELVI, SUSEELA		Paid	Under Notice Period		Dismantling
118	121+260	121+290	30	LHS	Kovilacheri	FENCING & LAND	1			Paid			
119	121+560	121+570	10	LHS	Kovilacheri	FENCING WITH EMPTY LAND	1	VIJAYA	159/3A	Not Paid			Document Issue
120	121+590	121+600	10	LHS	Kovilacheri	HUT	1	PADMANABAN		Paid			Need Police Support for Dismantling (Partially Dismantled)
121	121+615	121+655	40	LHS	Kovilacheri	DHROUPATHIAMMAN TEMPLE	1	MANOHARAN		Not Paid	Paid to CALA - Committee not formed by the concerns		Sudhai Estimate Pending
	<b>Effectd Length</b>		<b>330</b>			<b>Total</b>	<b>28</b>						
						<b>Paid</b>	<b>7</b>						
						<b>Not Paid</b>	<b>21</b>						
<b>122+000 TO 125+300- TYPE -A3</b>													
122	122+080	122+100	20	RHS	Bagavathapuram	BIG BANIYAN TREE WITH VANAKALIAMMAN TEMPLE	1	MANOHARAN		Not Paid			Letter issued to RDO kumbakonam from Tasildhar LA
123	124+320	124+325	5	RHS	Koranattukarupur-l	EICHER HOLDING	1	PLA GROUP OF COMPAINIES		Paid			Will be dismantled shortly

S.No	CHAINAGE		Effectd Length	SIDE	Name of the Village	Type of Hindrances	Total No of Structures	Name of the Owner	Survey No	Payment Status	Type of Issue	Photos	Remarks
	FROM	TO											
124	125+025	125+035	10	LHS	Koranattukarupur-I	RCC BULIDING, AND BORE WELL	2			Paid	TEMPLE LAND PAID		Not Dismantled (BDO - DISCUSSION)
<b>125.300 TO 125.700- TYPE -B</b>													
125	125+400	125+420	20	LHS	Koranattukarupur-I	HUT, RCC, HUT, RCC	4	KADALMANI RAMU, SAMIAYYA PITHCHAIAMMAL, MAHALINGAM	136/2B2, 159/1A1B, 159/1R1B, 159/1R2B	Not Paid		  	Sundareswara swami devasthanam Pending with HR&CE
126	125+530	125+580	50	LHS	Koranattukarupur-I	HUT	1	SHANMUGAM	452/48, 50	Paid		    	Will be Dismantled Shortly
127						TILE HOUSE=2NOS&HUT=2 NOS	4	RAJAMANIKKAM		Paid			
128						TILE HOUSE=1NO & HUT= 1 NO	2	SAMY AYYA		Paid			
129						HUT= 1 NO	1	RAJASEKAR		Paid			
130						HUT= 1 NO	1	SEKAR PERIYASAMY		Paid			
131						TILE HOUSE=1 NO	1	MANIVANNAN, SEKAR		Paid			

S.No	CHAINAGE		Effectd Length	SIDE	Name of the Village	Type of Hindrances	Total No of Structures	Name of the Owner	Survey No	Payment Status	Type of Issue	Photos	Remarks
	FROM	TO											
132	125+580	125+600	20	LHS	Koranattukarupur-I	TILE HOUSE=1NO	1	KRISHNAN	160/9,161/18	PAID			Need Police Support for Dismantling
133	125+580	125+585	5	LHS	Koranattukarupur-I	HUT= 1 NO	1	AMSU (KAARI)	161/12	NOT PAID			Disbursement Pending.Proposal sent to DRO
134	125+590	125+610	20	LHS	Koranattukarupur-I	RCC BUILDING=1 NO	1	MOTTAYANDI	161/1B	NOT PAID	1 ST PAYMENT PAID & 2ND PAYMENT PENDING		
135	125+600	125+605	5	LHS	Koranattukarupur-I	RCC BUILDING=1 NO	1	THANGAYAN	161/10B	NOT PAID	1 ST PAYMENT PAID & 2ND PAYMENT PENDING		
136	125+600	125+605	5	LHS	Koranattukarupur-I	HUT= 1 NO	1	THANGAYAN		NOT PAID	LPS NOT DONE		DOCUMENT PROBLEM
137	125+600	125+610	10	LHS	Koranattukarupur-I	RCC BUILDING=1 NO	1	KALIYAMOORTHY,KALIAMMAL		PAID			Need Police Support for Dismantling
138	125+600	125+610	10	LHS	Koranattukarupur-I	EMPTY LAND	1	KARUNANITHI,VASANTHA		NOT PAID			
139	125+560	125+570	10	RHS	Koranattukarupur-I	HUT= 1 NO	1	SELVAM,KARUPPAIYA	164/4A	PAID			NOT DISMANTLING (EB POLE SHIFTED AFTER THEN ONLY DISMANTLED)







S.No	CHAINAGE		Effectd Length	SIDE	Name of the Village	Type of Hindrances	Total No of Structures	Name of the Owner	Survey No	Payment Status	Type of Issue	Photos	Remarks
	FROM	TO											
140	125+570	125+580	10	RHS	Koranattukarupur-I	RCC BUILDING= 1 NO	1	SHANGILI KARUPPAIYAN	164/4	PAID			Need Police Support for Dismantling
141	125+580	125+585	5	RHS	Koranattukarupur-I	TILE HOUSE= 1 NO	1	SAMYAPPAN	163	PAID			Need Police Support for Dismantling
142					Koranattukarupur-I	TILE HOUSE= 1 NO	1	KALIYAMOORTHY & MOTTAYANDI	164	NOT PAID	1 ST PAYMENT PAID & 2ND PAYMENT PENDING		DOCUMENT SUMITTED
143	125+580	125+600	20	RHS	Koranattukarupur-I	TILE HOUSE= 1 NO	1	RAMA MIRUTHAM(VEERAMANI)		NOT PAID	1 ST PAYMENT PAID & 2ND PAYMENT PENDING		PATTA-NOT DISMANTLING
144					Koranattukarupur-I	HUT= 1 NO	1	RAMA MIRUTHAM(BAKKIYARAJ& UTHHARAPATHY)		PAID	PATTA NOT PAID		
145	125+670	125+680	10	RHS	Koranattukarupur-I	AMMAN TEMPLE	1			PAID	PAID TO CALA - EXCESS AMOUNT DISBURSED SO CALA INSTRUCTED BANK TO HOLD		
146	125+680	125+700			Koranattukarupur-I	BUILDING CONSTRUCTION IN BASEMENT LEVEL	1			PAID			Need Police Support for Dismantling
147			20	RHS	Koranattukarupur-I	HUT= 1 NO	1	KASINATHAN		PAID			Need Police Support for Dismantling







S.No	CHAINAGE		Effectd Length	SIDE	Name of the Village	Type of Hindrances	Total No of Structures	Name of the Owner	Survey No	Payment Status	Type of Issue	Photos	Remarks
	FROM	TO											
148					Koranattukarupur-I	RCC BUILDING(G+1)	1	JAYARAMAN		PAID			Need Police Support for Dismantling
<b>CH125+700 TO 127+700 -GSI &amp; VUP</b>													
149	125+785	125+805	20	RHS	Koranattukarupur-I	RCC ROOF HOUSE	1	RAGUNATHAN,CHANDRA		PAID			Need Police Support for Dismantling.Next week will be dismantled
150	125+800	125+805	5	RHS	Koranattukarupur-I	1 HUT	1	BHASKAR RAJAM		PAID			Will be dismantled shortly
151	125+820	125+825	5	RHS	Koranattukarupur-I	RCC ROOF HOUSE	1	KALIMUTHU	454/9, 454/15	NOT PAID			Cheque Peding
152	125+830	125+840	10	RHS	Koranattukarupur-I	RCC ROOF HOUSE	1	MURUGAN		PAID			Dismantling in Progress
153	125+840	125+850	10	RHS	Koranattukarupur-I	RCC ROOF HOUSE	1	CHANDRAKASI		PAID			Need Police Support for Dismantling
154	125+840	125+850	10	RHS	Koranattukarupur-I	RCC ROOF HOUSE	1	MADAN		PAID			Need Police Support for Dismantling.Next week will be dismantled
155	125+840	125+850	10	RHS	Koranattukarupur-I	RCC ROOF (CORNER ONLY)	1	RAJENDRAN		PAID			NOT DISMANTLING

S.No	CHAINAGE		Effectd Length	SIDE	Name of the Village	Type of Hindrances	Total No of Structures	Name of the Owner	Survey No	Payment Status	Type of Issue	Photos	Remarks
	FROM	TO											
156	125+860	125+870	10	RHS	Koranattukarupur-I	TILE ROOF HOUSE	1	PUGUAL MURUGAN		PAID	1 ST PAYMENT PAID & 2ND PAYMENT PENDING		NOT DISMANTLING
157	125+870	125+880	10	RHS	Koranattukarupur-I	TILE ROOF HOUSE	1	PUGHALENTHI		PAID			
158	125+880	125+890	10	RHS	Koranattukarupur-I	TILE ROOF HOUSE	1	KANAGAMMAL		PAID			
159	125+890	125+900	10	RHS	Koranattukarupur-I	1 HUT, 1 BATH ROOM & COMPOUNDWALL	3	CHELLAMMAL		PAID		NOT DISMANTLING	
160	126+790	126+800	10	RHS	Koranattukarupur-II	(Temple = 1 No, Tiles House = 1 No, Ac Sheet House = 1 No) -PATTA, 1 HUT	4	BALASUBRAMANIYAN, KRISHNAVENI, MARRIAMMAL		PAID	  	Need Police Support for Dismantling, Row point to be marked for temple. Houses will be dismantled this week	

S.No	CHAINAGE		Effectd Length	SIDE	Name of the Village	Type of Hindrances	Total No of Structures	Name of the Owner	Survey No	Payment Status	Type of Issue	Photos	Remarks
	FROM	TO											
161	127+120	127+125	5	RHS	Koranattukarupur-II	Borewell	1	SALEEM		PAID			
162	127+300	127+380	80	RHS	Koranattukarupur-II	ANUJ TILES	1			PAID			Dismantling In Progress
163	125+790	125+800	10	LHS	Koranattukarupur-I	TILE ROOF HOUSE-1 NO, RCC 1 NO	2	JAYAPANDI, CHINNASAMI		PAID		 	Tile House Dismantled RCC yet to be dismantled
164	125+800	125+805	5	LHS	Koranattukarupur-I	HUT	1	SELVI		PAID			Need Police Support for Dismantling
165	125+830	125+840	10	LHS	Koranattukarupur-I	SAMUTHAYAKUDAM RCC	1			Paid	Paid to BDO only,not yet paid to panchayat		
166	125+840	125+850	10	LHS	Koranattukarupur-I	HUT	1	JAYARAJ		PAID			Need Police Support for Dismantling
167	125+940	125+950	10	LHS	Koranattukarupur-I	1 HUT	1	BALU		PAID			Need Police Support for Dismantling



S.No	CHAINAGE		Effectd Length	SIDE	Name of the Village	Type of Hindrances	Total No of Structures	Name of the Owner	Survey No	Payment Status	Type of Issue	Photos	Remarks
	FROM	TO											
168	125+950	125+960	10	LHS	Koranattukarupur-I	HUT 3 NOS	3	ALAGUMUTHU	174/12	NOT PAID			Account person died, legal heir certificate required
169	125+990	126+000	10	LHS	Koranattukarupur-I	TILE ROOF BUILDING	1	VAIRAM	174/9	NOT PAID			COUSIN COURT CASE
170	127+620	127+665	45	LHS	Koranattukarupur-II	MADANAM INN HOTEL	1			Paid			PATTA EB Cable shifting REQUIRED
	<b>Effectd Length</b>		<b>550</b>			<b>Total</b>	<b>64</b>						
						<b>Paid</b>	<b>45</b>						
						<b>Not Paid</b>	<b>19</b>						
<b>127.700 TO 128.300- TYPE -B</b>													
<b>CH 128+300 TO 129+100-GSI</b>													
171	128+810	128+910	100	LHS	Perumandi	PETROL BUNK AREAS	1			Paid	PATTA		Internal Dispute with Owners Case has been filed
172	128+990	129+000	10	LHS	Asoor	WATER SERVICE CENTRE	1			Paid	PATTA		Need Police Support for Dismantling
173	129+030	129+040	10	LHS	Asoor	DEVAR STATUE	1			Paid	PATTA		Need Police Support for Dismantling
174	<b>Effectd Length</b>		<b>120</b>			<b>Total</b>	<b>3</b>						
						<b>Paid</b>	<b>3</b>						
						<b>Not Paid</b>	<b>0</b>						
<b>129+100 TO 129+970- TYPE-B</b>													
<b>CH 129+970 TO 130+700 -VUP-LOC</b>													

S.No	CHAINAGE		Effectd Length	SIDE	Name of the Village	Type of Hindrances	Total No of Structures	Name of the Owner	Survey No	Payment Status	Type of Issue	Photos	Remarks
	FROM	TO											
175	129+970	129+980	10	LHS	MOOPA KOVIL	BUILDING-RCC(G+1)	1	MUMTHAJ BEGUM		PAID	PATTA		Survey confirmation required for Land
176	130+310	130+320	10	LHS	MOOPA KOVIL	BUILDING-RCC(G+1)	1	RAJA MOHAMMED	.9/7B,9/8B1	PAID	PATTA		police force required
177	130+220	130+230	10	RHS	MOOPA KOVIL	HUT	1	CHINNAYAN	.9/17	NOT -PAID	58000/- PAID		DE approval pending-In process
178	130+280	130+290	10	RHS	MOOPA KOVIL	HUT	1	KANNAYAN	.9/34	NOT -PAID	PATTA		NO LPS
179	130+290	130+300	10	RHS	MOOPA KOVIL	HUT	1	MAHENDRAN-CHITRA	.9/4	NOT -PAID	LPS NOT DONE		NO LPS EB LINE CROSSING AREA PORAM POKKU
Effectd Length		50				Total	5						
						Paid	2						
						Not Paid	3						
<b>CH 131+050 TO 131+850 -VUP-LOC</b>													
180	131+120	131+130	10	RHS	Baburajapuram	BUILDING	1	EASWARI(SON OF SASI)	284/3A1	PAID	PATTA		Not Dismantled

S.No	CHAINAGE		Effectd Length	SIDE	Name of the Village	Type of Hindrances	Total No of Structures	Name of the Owner	Survey No	Payment Status	Type of Issue	Photos	Remarks
	FROM	TO											
181	131+790	131+860	70	LHS	Baburajapuram	COMPOUND WALL & BUILDING -5 NOS	5	TAMILARASI, SELIATHURAI, SAMPATH, GOVINDRAJ, RANGARAJAN	-	NOT-PAID	PATTA		LPS NOT DONE Additional area required for Service road
Effectd Length		80											
							Total	6					
							Paid	1					
							Not Paid	5					
1													
182	132+770	132+780	10	RHS	Valayapettai	TILE ROOF,HUT & BATH ROOM	2	PANNER SELVAM,GANDHI MATHI	115/3	NOT PAID			Kundrakudimadam processing.Informed to madam
183	132+570	132+590	20	LHS	Valayapettai	AC SHEET , WALL	1	SAKTHIVEL	148/3	NOT PAID			3D gazzate notification awaited.Processing

S.No	CHAINAGE		Effectd Length	SIDE	Name of the Village	Type of Hindrances	Total No of Structures	Name of the Owner	Survey No	Payment Status	Type of Issue	Photos	Remarks
	FROM	TO											
184	133+050	133+060	10	LHS	Valayapettai	BOREWELL	1			Paid	28		Will be dismantled shortly
185	133+130	133+150	20	LHS	Valayapettai	CAR SHED	1			Paid			Need Police Support for Dismantling
186	133+210	133+230	20	LHS	Valayapettai	EQUITIOS BULIDING	1			Paid			NOT DISMANTLIED (RENTAL PROBLEM TO OWNERS)
187	133+260	133+300	40	LHS	Valayapettai	FENCING	1			Paid			Need LA Surveyor for ROW Marking-Will be marked shortly
188	133+580	133+590	10	LHS	Valayapettai	HUT	1	KAMATCHI	185	NOT PAID	KALAM PORAMBOKU		
<b>CH 133.580 TO 134.800 -VUP-LOC</b>													
189	133+585	133+645	60	LHS	Valayapettai	ANANDHA HOTEL	1		187/B,C	Not Paid	(SECOND PAYMENT PENDING)		Not Dismantled
190	133+740	133+820	80	LHS	Valayapettai	PRECAST COMPOUND PILLER AND GATE	1			Paid			Will be dismantled shortly
191	134+350	134+355	5	RHS	Valayapettai	ROB-A1 SIDE open temple-trees	1			Not Paid			requested us to support for the constructin of temple in nearer location

S.No	CHAINAGE		Effectd Length	SIDE	Name of the Village	Type of Hindrances	Total No of Structures	Name of the Owner	Survey No	Payment Status	Type of Issue	Photos	Remarks
	FROM	TO											
192	134+750	134+790	40	LHS	Valayapettai	IRRIGATION SLUICE					TO BE SHIFTED		TO BE SHIFTED
	<b>Effectd Length</b>		<b>475</b>			<b>Total</b>	<b>11</b>						
						<b>Paid</b>	<b>5</b>						
						<b>Not Paid</b>	<b>6</b>						
<b>CH138.500 TO 139.750 -TYPE-B</b>													
193	138+500	138+540	40	LHS	Pateeswaram	RCC & Tile Roof	1	SHANMUGAM		Not Paid			COURT CASE
194	138+750	138+850	100	LHS	Thiruvalanzuli	Hut	1	RAJINI		Not Paid			
195	138+400	138+480	80	RHS	Pateeswaram		1	DHARMALINGAM	4/4A	Not Paid			
196	138+500	138+540	40	RHS	Pateeswaram		1	SHANMUGAM		Not Paid			
197	138+750	138+850	100	RHS	Thiruvalanzuli		1	RAJINI, Thakshina Murthy, Naagaraj		Not Paid			
198	139+439	139+450	11	LHS	Thiruvalanzuli	LOCAL TEMPLE , RCC GOVT BUILDING WITH TANK	1			Not Paid			
	<b>Effectd Length</b>		<b>371</b>			<b>Total</b>	<b>6</b>						
						<b>Paid</b>	<b>0</b>						
						<b>Not Paid</b>	<b>6</b>						

## 2.2. Removal of Religious Structures

The following structures coming within the ROW are to be demolished

Table 2.2-1: Status of Removal of Religious structures				
Sl. No.	Name of the District	Total No. of structures	Removed as on Date (in Nos.)	Balance (in Nos.)
1	Thanjavur	13	3	10

Note: Pending for disbursement of payment to the Religious structures.

## 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.

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 (including DI and PVC lines)	Kms.	35.750	7.960	27.79	Work in Progress
2	BDO of Concern Union	Hand Pump/Pump Room with Bore well	Nos.	16	3	13	
3	BDO of Concern Union	Over Head Tank	Nos.	2	2	0	Completed
4	TNEB	Electrical Lines	Kms.	19.215	15.605	3.610	Work in Progress

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.

## 2.4. Tree felling

Sl. No.	Name of the District	Chainages			Effected 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	1448	13	Work in Progress
2	Thanjavur	116+440	164+275	47.837	-	508	508	0	Teak Wood trees
<b>Total</b>				<b>47.835</b>					

## 3.1. Pre-Construction Activities

## Detailed Design &amp; 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/ Drawings submitted	Design/ Drawings 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 (a) Toll Plaza Layout, (b) Toll Building, (c) Toll Booth, (d) Toll Canopy, (e) Toll Tunnel,	No	05	03	-
7	Rest Area	No	01	-	
8	Bus Bay	No	05	-	
9	Service Roads	No	27.10	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/ Drawings Submitted	Design/ Drawings Approved
1	Major Bridges	No	06	04	02
2	Minor Bridges	No	56	56	45
3	Grade Separated Intersection	No	06	06	06
4	VUP/PUP	No	12	12	12
5	Box /Slab Culvert	No	103	103	103
6	ROB	No	01	01	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 July 2020 is as follows.

**CUMMULATIVE STATEMENT****For Main Carriageway**

Sr. No.	Description	Total Length of Highway Excluding Toll Plaza (in. Km.)	Progress up to Previous Report (in Km)	Progress during this Report (In Km.)	Cumulative Progress Achieved up to this Report (In Km)	In Progress (In Km.)	Balance Length to be Completed	Cumulative % of Progress Achieved
1	<b>Clearing and Grubbing</b>							
	LHS	46.925	34.780	6.510	41.29	0	5.635	87.99%
	RHS	46.925	33.060	7.200	40.26	0	6.665	85.80%
2	<b>Embankment</b>							
	LHS	46.925	13.965	2.420	16.385	5.100	30.540	34.92%
	RHS	46.925	14.510	2.650	17.160	3.800	29.765	36.57%
3	<b>Sub grade</b>							
	LHS	46.925	12.430	1.475	13.905	1.200	33.020	29.63%
	RHS	46.925	13.880	0.905	14.785	0.700	32.140	31.51%
4	<b>GSB/ Cement Treated Sub-Base</b>							
	LHS	46.925	5.060	1.130	6.190	2.100	40.735	13.19%
	RHS	46.925	6.810	1.750	8.560	1.300	38.365	18.24%
5	<b>Wet Mix Macadam</b>							
	LHS	46.925	3.978	1.455	5.433	0.800	41.492	11.58%
	RHS	46.925	5.750	2.110	7.860	0.900	39.065	16.75%
6	<b>Dense Bitumen Macadam</b>							
	LHS	46.925	2.580	2.185	4.765	0.500	42.160	10.15%
	RHS	46.925	4.700	1.595	6.295	0.600	40.630	13.42%
7	<b>Bituminous Concrete</b>							
	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	0.58	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%

**For Structure Works**

Sr. No.	Type of Structure	Total No. of Structures	No. of Structures				
			Completed up to previous Report	Completed during this Report	Completed up to this Month	In Progress	Balance
1	Culvert	103	57.5	1.5	59	16	26.5
2	Light Vehicular Underpass	2	1	0	1	1	0
3	Vehicular Underpass	10	0	0	0	10	0
4	Minor Bridges	56	20	0.5	20.5	20	15
5	Major Bridge	5	0	0	0	3	2
6	Flyover	6	0	0	0	6	0
7	ROB	1	0	0	0	1	0

Physical Progress of Project up to July 2020 as per approved Schedule G:

**Table 4.1 : Physical Progress of Works**

Item	Stage for Payment	Unit	Qty.	Weightage in % to Contract Price	Completed up to July'2020	% Physical Progress
Road works including culverts, minor bridges, underpasses, overpasses, approaches to ROB/RUB/ Major Bridges/ Structures (but excluding service roads)	<b>A- Widening and strengthening of existing road</b>					
	(1) Earthwork up to top of the sub-grade	Km.	28.70	4.26%	9.91	1.470%
	(2) Granular work (sub-base, base, shoulders)	Km.				
	(a) GSB/ Cement Treated Base	Km.	28.70	1.40%	4.26	0.208%
	(b) WMM/ Cement Treated Base	Km.	28.70	2.10%	3.75	0.274%
	(3) Shoulders	Km.	7.10	0.03%		0.000%
	(4) Bituminous work					
	(a) DBM	Km.	28.70	1.61%	3.17	0.178%
	(b) BC	Km.	28.70	1.48%		0.000%
	(5) Rigid Pavement					
	Concrete Work	Km.				
	(6) Widening and Repair of Culverts	Nos.	33	0.57%	19.55	0.339%
	(7) Widening and Repair of Minor Bridges	Nos.	3	0.38%	0.40	0.051%
	<b>B- New realignment/bypass</b>					
(1) Earthwork up to top of the sub-grade	Km.	63.33	16.30%	18.78	4.835%	
(2) Granular work (sub-base, base, shoulders)	Km.					

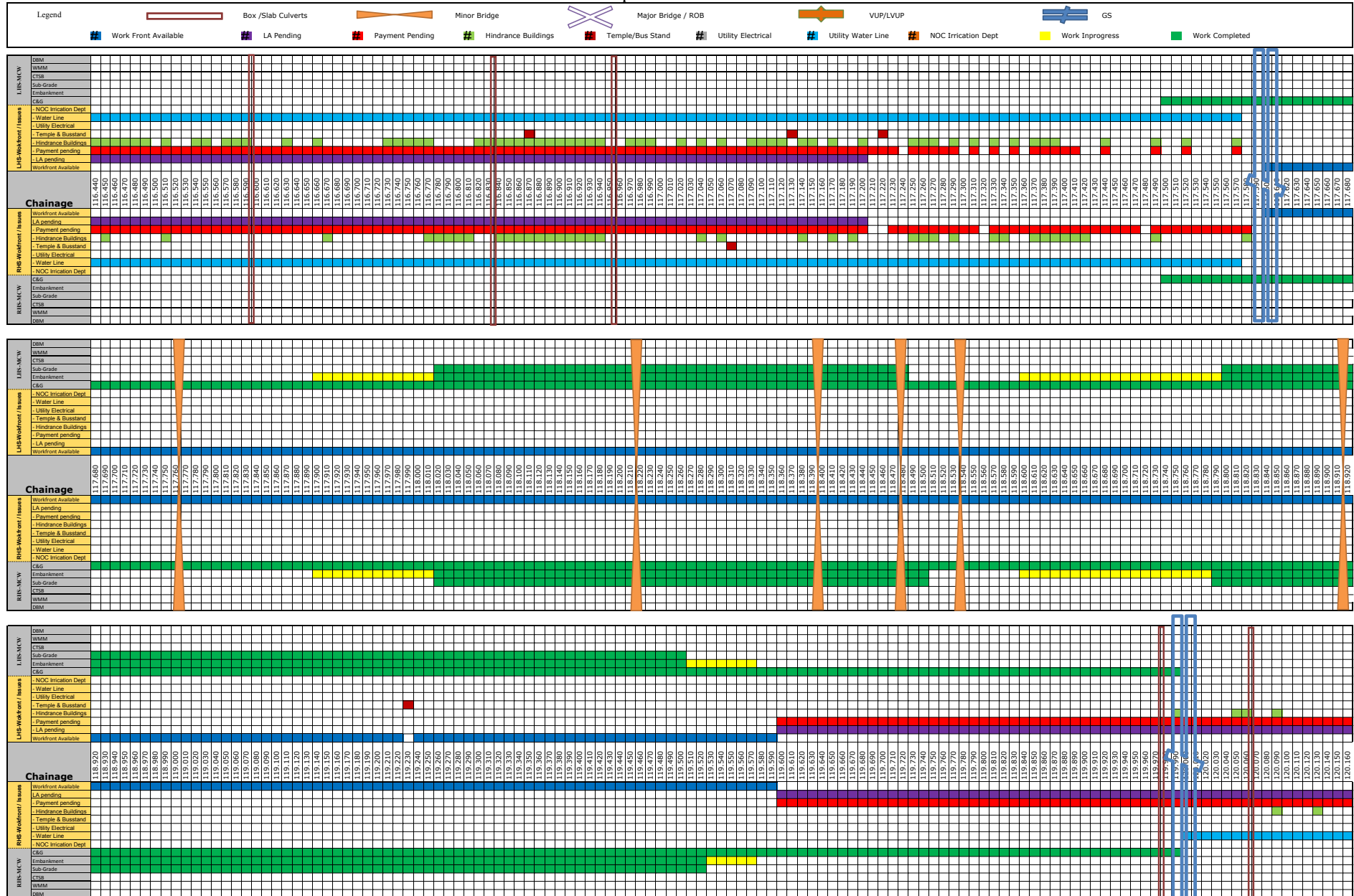
Road works including culverts, minor bridges, underpasses, overpasses, approaches to ROB/RUB/ Major Bridges/ Structures (but excluding service roads)	(a) GSB/ Cement Treated Base	Km.	62.13	3.39%	10.49	0.573%
	(b) WMM/ Cement Treated Base	Km.	62.13	3.83%	9.55	0.588%
	(3) Shoulders	Km.	48.19	0.10%		0.000%
	(4) Bituminous work					
	(a) DBM	Km.	62.13	3.48%	7.89	0.442%
	(b) BC	Km.	62.13	3.21%		0.000%
	(5) Rigid Pavement					
	Concrete Work	Km				
	<b>C- New culverts, minor bridges, underpasses, overpasses on existing road, realignments, bypasses:</b>					
	<b>(1) Culverts</b>	Nos.	70	5.95%	36.55	3.104%
	<b>(2) Minor bridges</b>					
	(i) Foundation	Nos.	170	6.71%	82.00	3.237%
	(ii) Substructure	Nos.	270	3.50%	102.50	1.327%
	(iii) Superstructure (including crash barrier etc. complete)	Nos.	142	3.78%	37.90	1.008%
	<b>(3) Cattle/Pedestrian underpasses</b>					
	(i) Foundation	Nos.	4	0.15%	4.00	0.150%
	(ii) Substructure	Nos.	8	0.08%	8.00	0.084%
	(iii) Superstructure (including crash barrier etc. complete)	Nos.	4	0.06%	2.00	0.028%
	<b>(4) Pedestrian overpasses</b>					
	(i) Foundation	Nos.				
	(ii) Substructure	Nos.				
	(iii) Superstructure (including crash barrier etc. complete)	Nos.				
	<b>(5) Grade separated structures</b>					
	<b>(a) Underpass (10 VUP)</b>					
	(i) Foundation	Nos.	40	2.50%	31.00	1.937%
	(ii) Substructure	Nos.	40	0.91%	25.00	0.568%
	(iii) Superstructure (including crash barrier etc. complete)	Nos.	20	1.14%		0.000%
	<b>(c) Vehicular Overpass (VOP)</b>					
	(i) Foundation	Nos.				
	(ii) Substructure	Nos.				
	(iii) Superstructure (including crash barrier etc. complete)	Nos.				
	<b>(c) Flyover</b>					
	(i) Foundation	Nos.	24	2.25%	20.00	1.875%
(ii) Substructure	Nos.	24	0.82%	10.00	0.341%	
(iii) Superstructure (including crash barrier etc. complete)	Nos.	12	1.02%	0.00	0.000%	
Major Bridge	<b>Major Bridge works and ROB/RUB</b>					
	<b>A- Widening and Repair of Minor Bridges</b>					
	(1) Foundations					
	(a) Open Foundation	Nos.				
	(b) Pile foundation/ well foundation	Nos.				
(2) Substructure	Nos.					

works and ROB/RUB	(3) Superstructure (including crash barrier etc. complete)	Nos.				
	<b>C- New Major Bridges</b>					
	(1) Foundations					
	(a) Open Foundation	Nos.				
	(b) Pile foundation/ well foundation	Nos.	76	2.17%	0.00	0.000%
	(2) Substructure	Nos.	76	1.23%	0.00	0.000%
	(3) Superstructure (including crash barrier etc. complete)	Nos.	62	1.50%	0.00	0.000%
	<b>D- New rail-road bridges</b>					
	<b>(a) ROB</b>					
	(i) Foundation	Nos.	8	1.50%	4.00	0.750%
(ii) Substructure	Nos.	8	0.80%	0.00	0.000%	
(iii) Superstructure (including crash barrier etc. complete)	Nos.	6	1.49%	0.00	0.000%	
Structures (elevated sections, reinforced earth)	<b>Structures (elevated sections, reinforced earth)</b>					
	(1) Foundation	Nos.				
	(2) Substructure	Nos.				
	(3) Superstructure (including crash barrier etc. complete)	Nos.				
	<b>(4) Reinforced earth Wall (includes Approaches of ROB, Underpasses, Overpasses, Flyover etc)</b>					
(a) Casting of RS Wall Facia		179469	7.52%	37,612.79	1.576%	
Other Works	<b>Other Works</b>					
	<b>(i) Service roads/ Slip Roads</b>	Km	27.1	3.86%		0.000%
	<b>(ii) Toll Plaza</b>	Nos.	1	1.38%		0.000%
	<b>(iii) Road side drains</b>	Km	12.08	1.64%	1.04	0.141%
	<b>(iv) Road signs, markings, km stones, safety devices, ....</b>					
	(a) Road signs, markings, km stones, ...	Km	95.67	2.02%		0.000%
	(b) Concrete Crash Barrier/ W-Beam Crash Barrier in Road work	Km				
	(i) Concrete Crash Barrier	Km	25.42	2.01%		0.000%
	(ii) W-Beam Crash Barrier	Km	32.75	0.70%		0.000%
	<b>(v) Project facilities</b>					
	(a) Bus Bays	No.	20	0.01%		0.000%
	(b) Truck Lay-byes	No.				
	(b) Rest areas	No.	2	0.22%		0.000%
	(vi) Repairs to bridges/structures	Nos.	4	0.01%		
	(vii) Road side plantation	Km	22.54	0.60%		0.000%
	(viii) Protection works					
	(a) Boulder pitchin on slopes	Km	32.75	0.19%		0.000%
	(b) Toe/Retaining wall	Km				
(x) Miscellaneous	Ls.	100%	0.150%	51%	0.076%	
<b>Total</b>			<b>100.00%</b>		<b>25.160%</b>	

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 31-07-2020

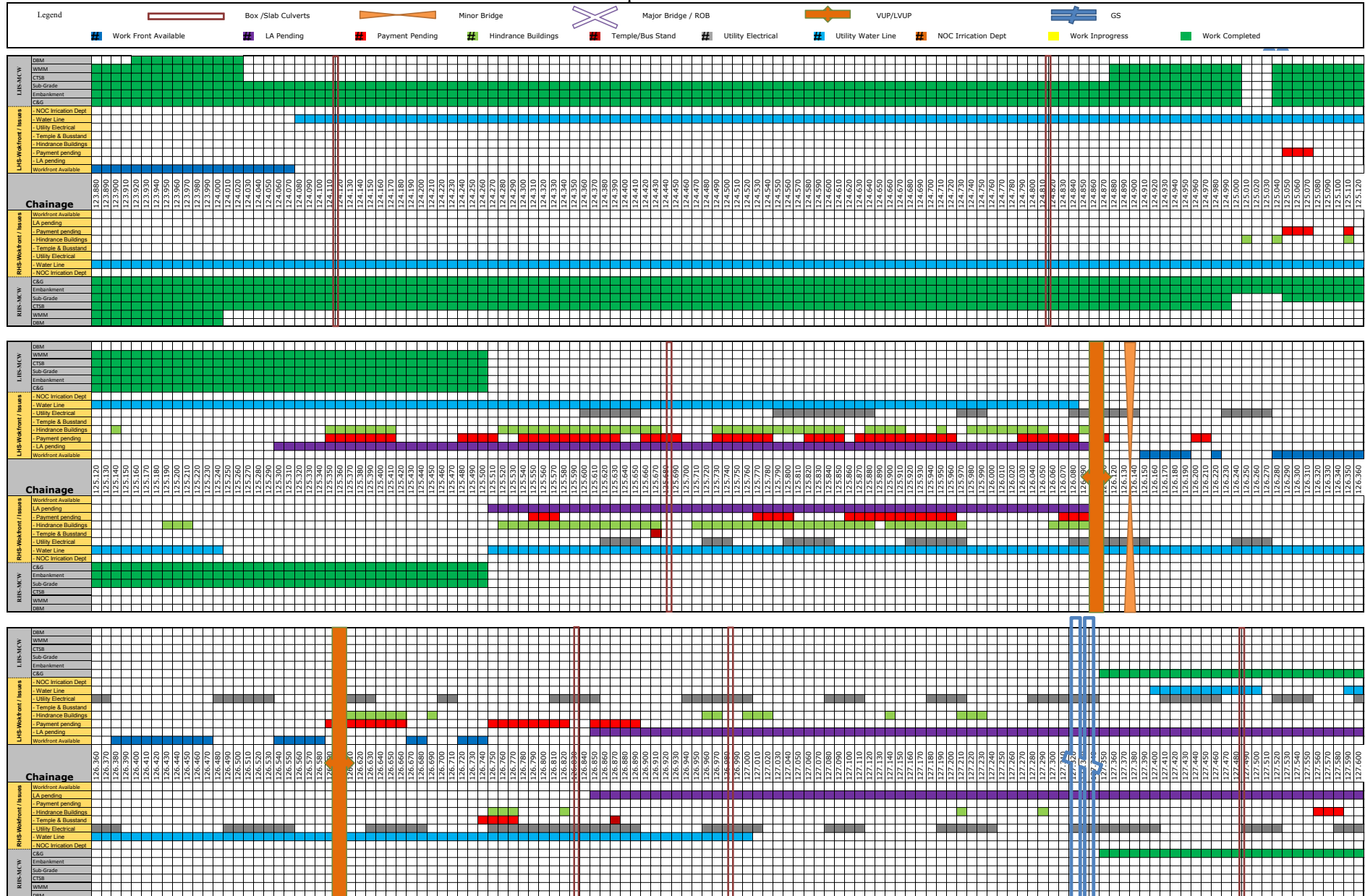




Four Laning of Cholopuram to Thanjavur from Km.116.440 to Km.164.275 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode

Cholopuram - Thanjavur Project

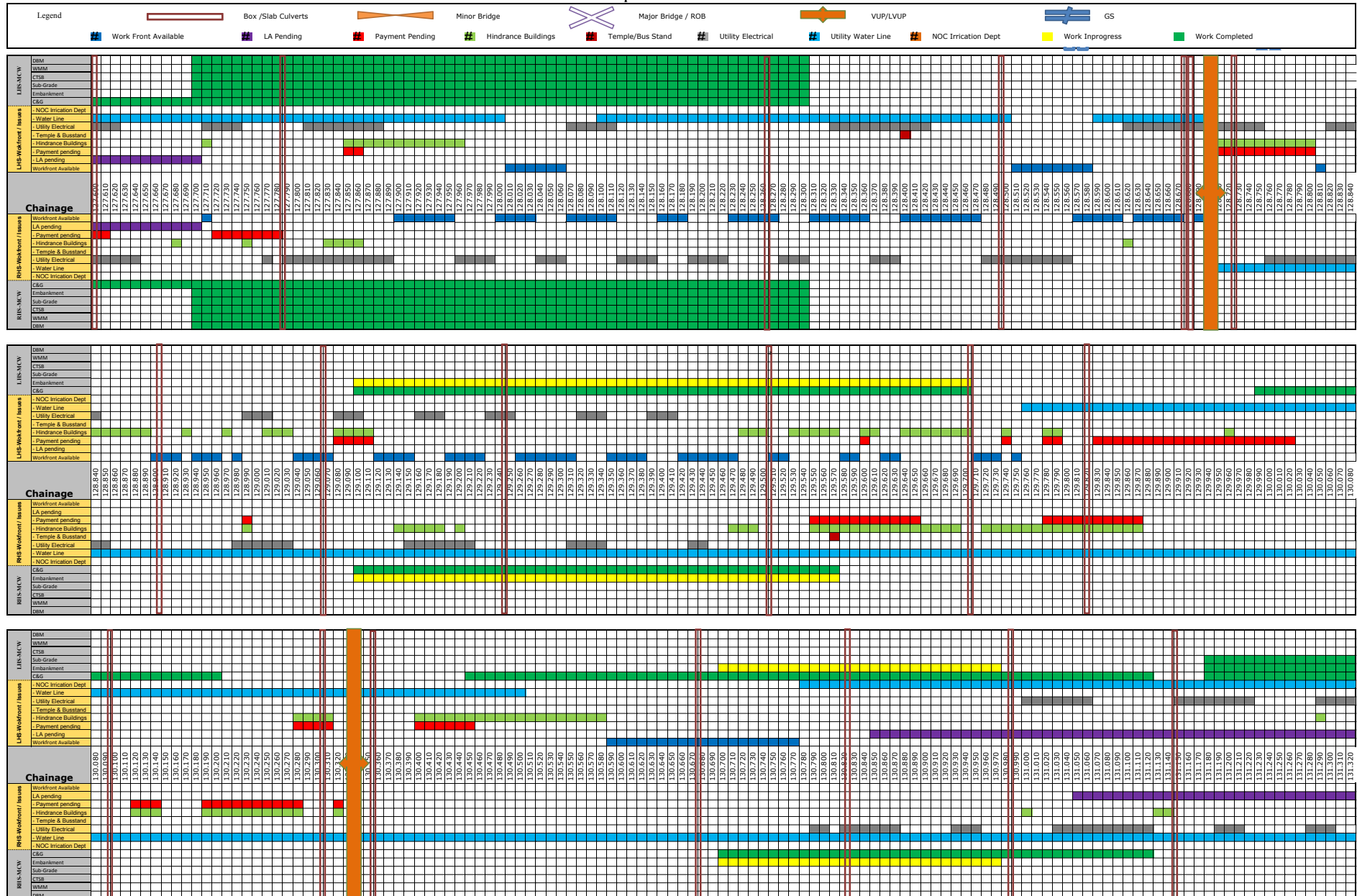
Strip Chart as on 31-07-2020



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 31-07-2020

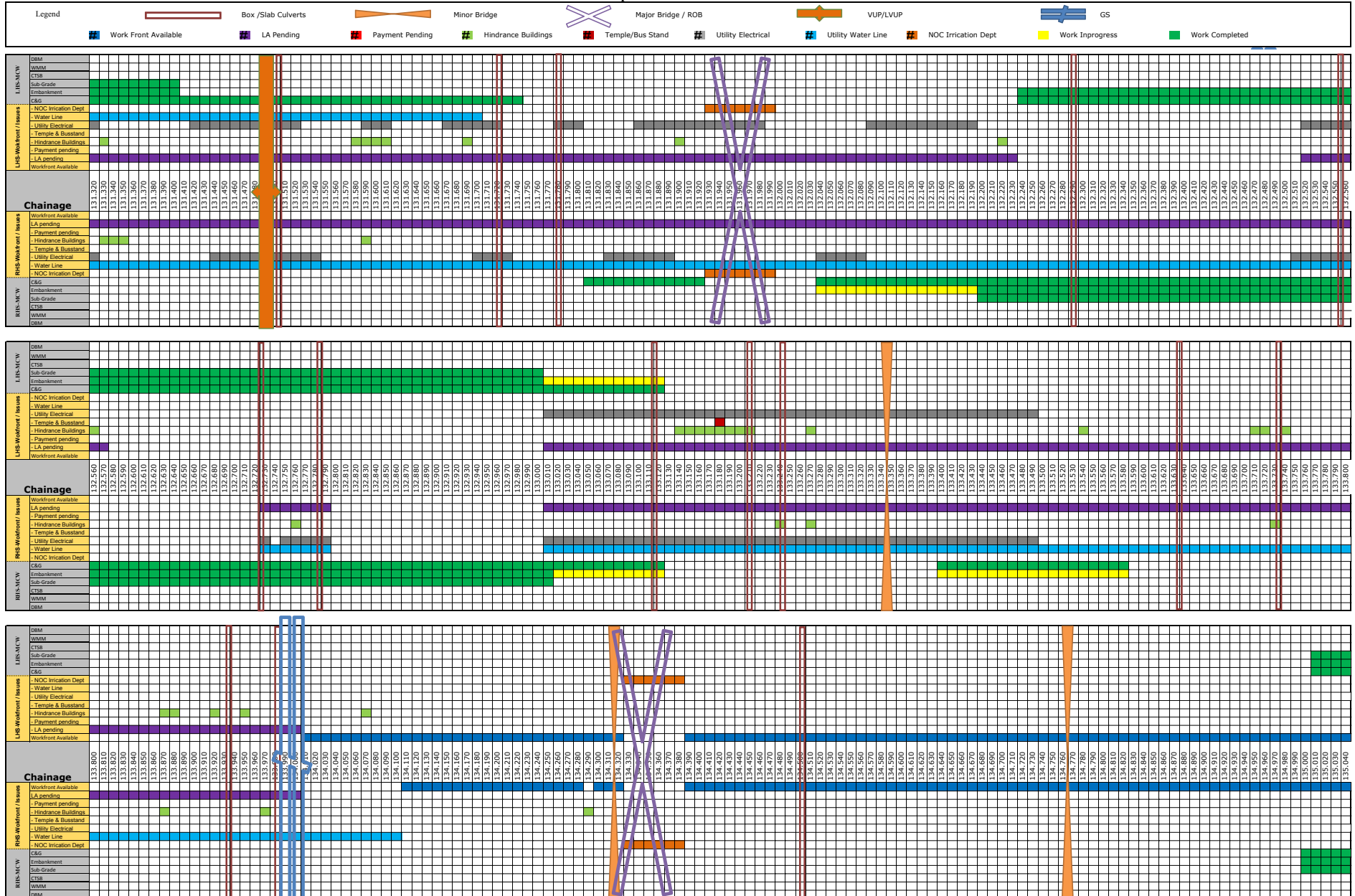




Four Laning of Cholopuram to Thanjavur from Km.116.440 to Km.164.275 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode

Cholopuram - Thanjavur Project

Strip Chart as on 31-07-2020

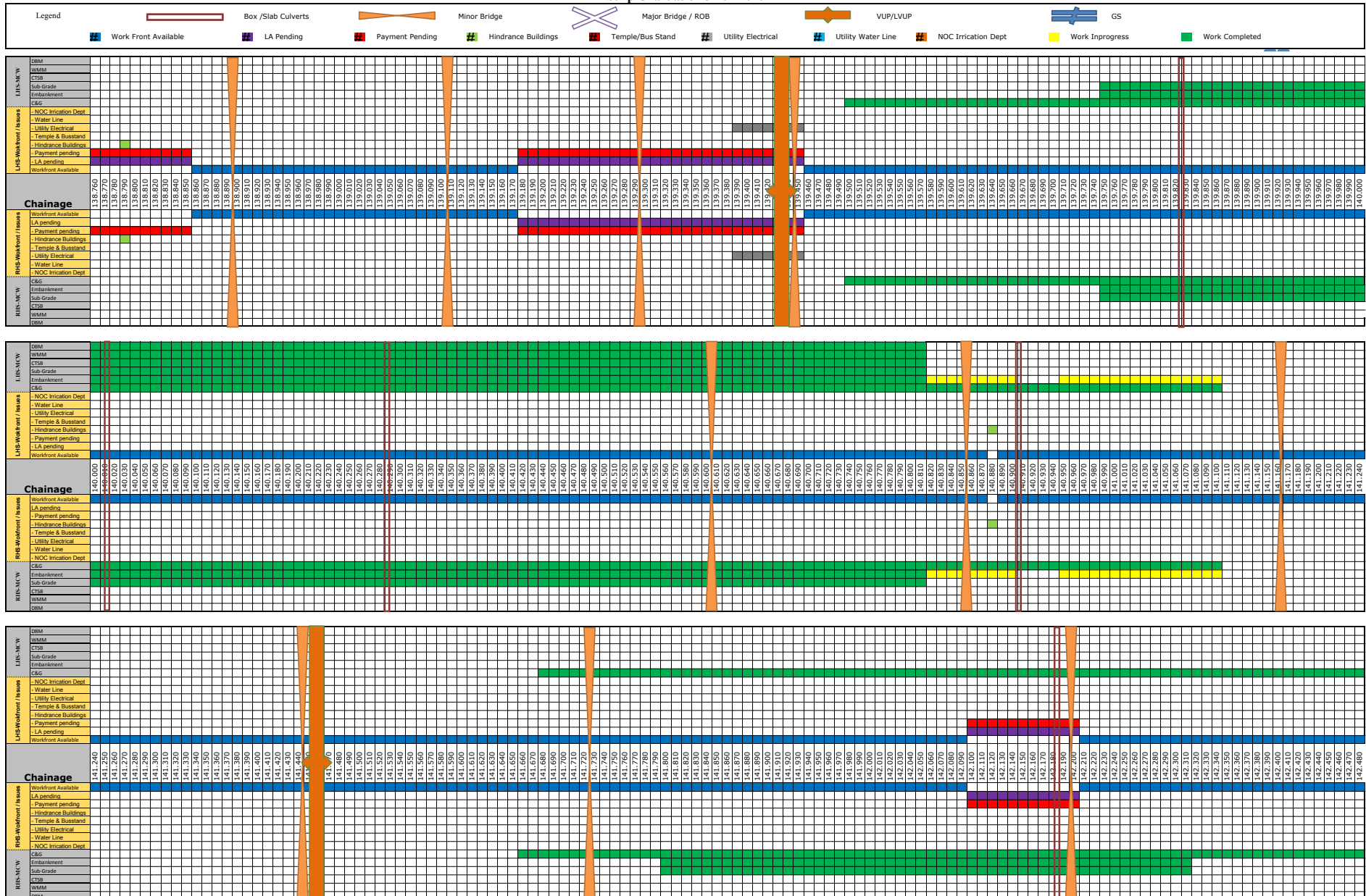




Four Laning of Cholopuram to Thanjavur from Km.116.440 to Km.164.275 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode

Cholopuram - Thanjavur Project

Strip Chart as on 31-07-2020



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

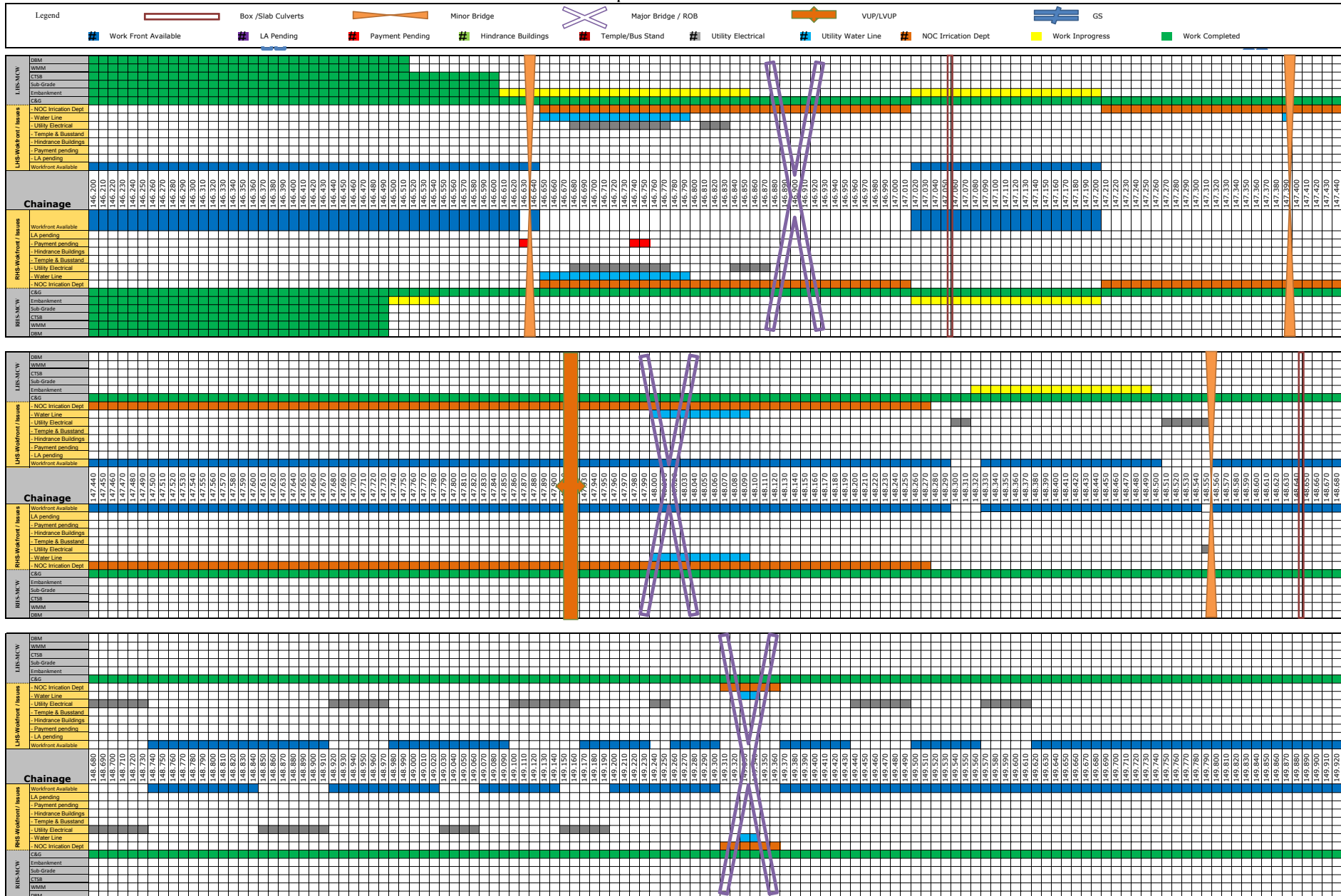
Strip Chart as on 31-07-2020



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 31-07-2020



**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

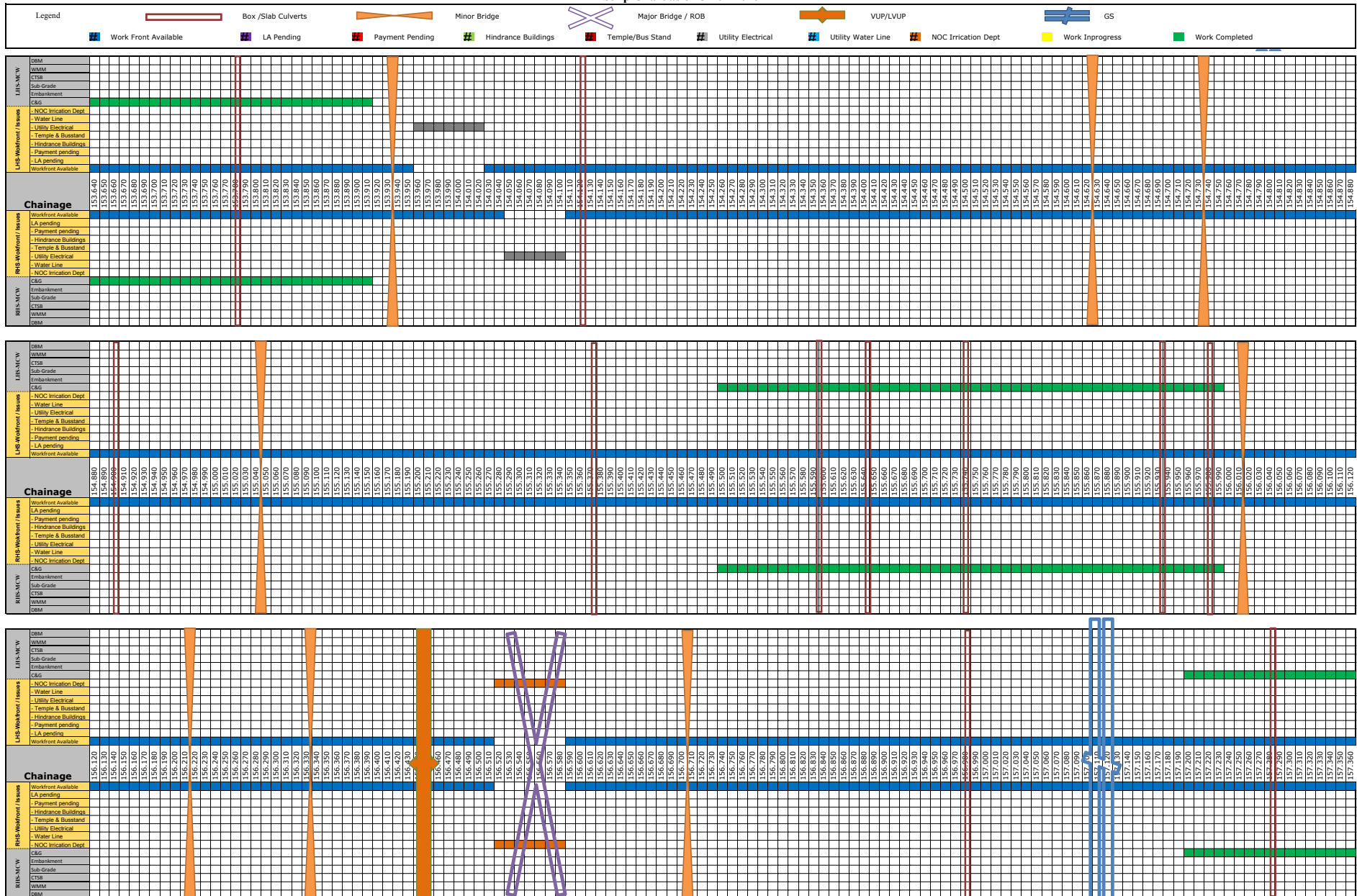
**Strip Chart as on 31-07-2020**



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

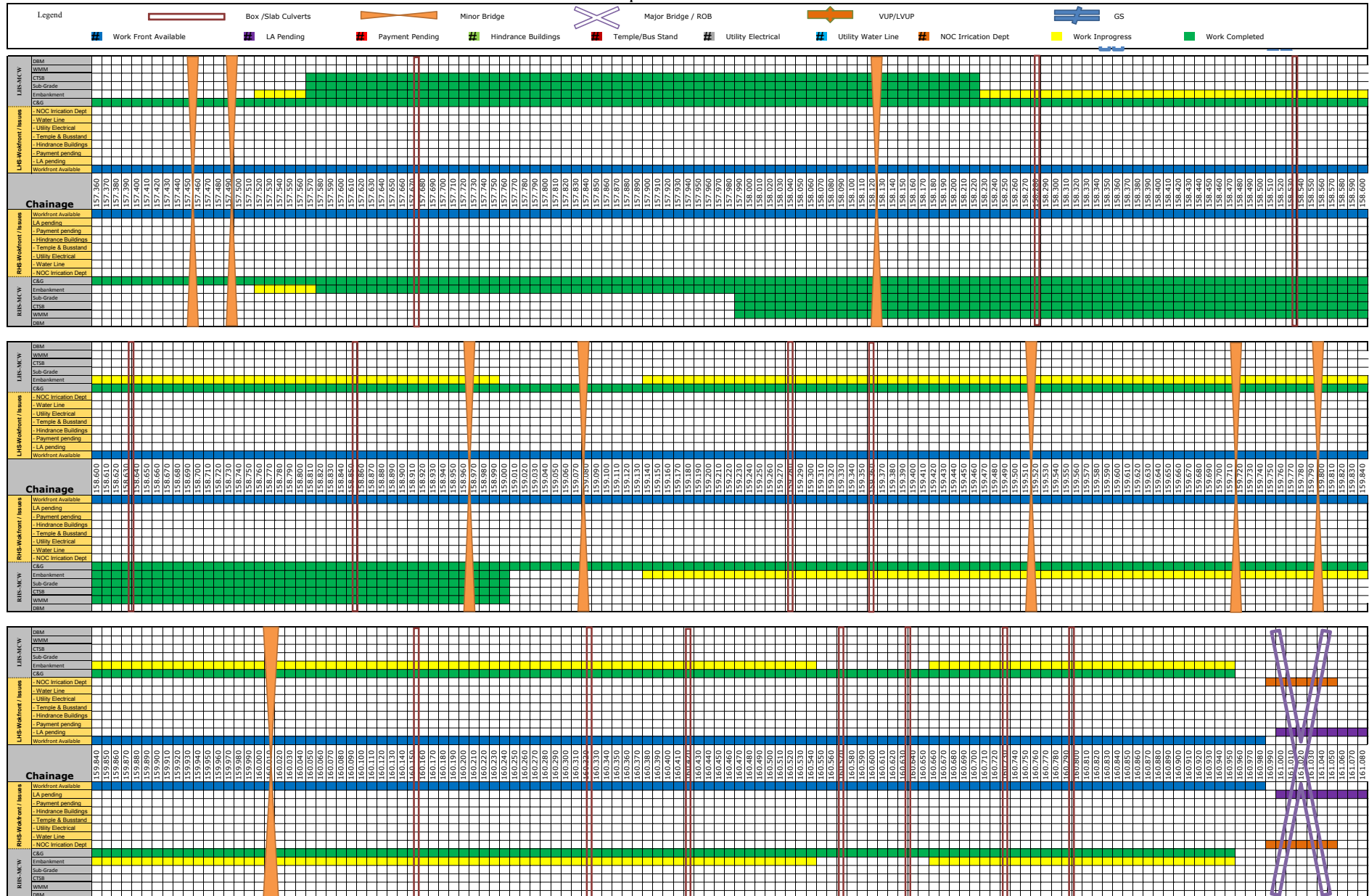
Strip Chart as on 31-07-2020



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 31-07-2020

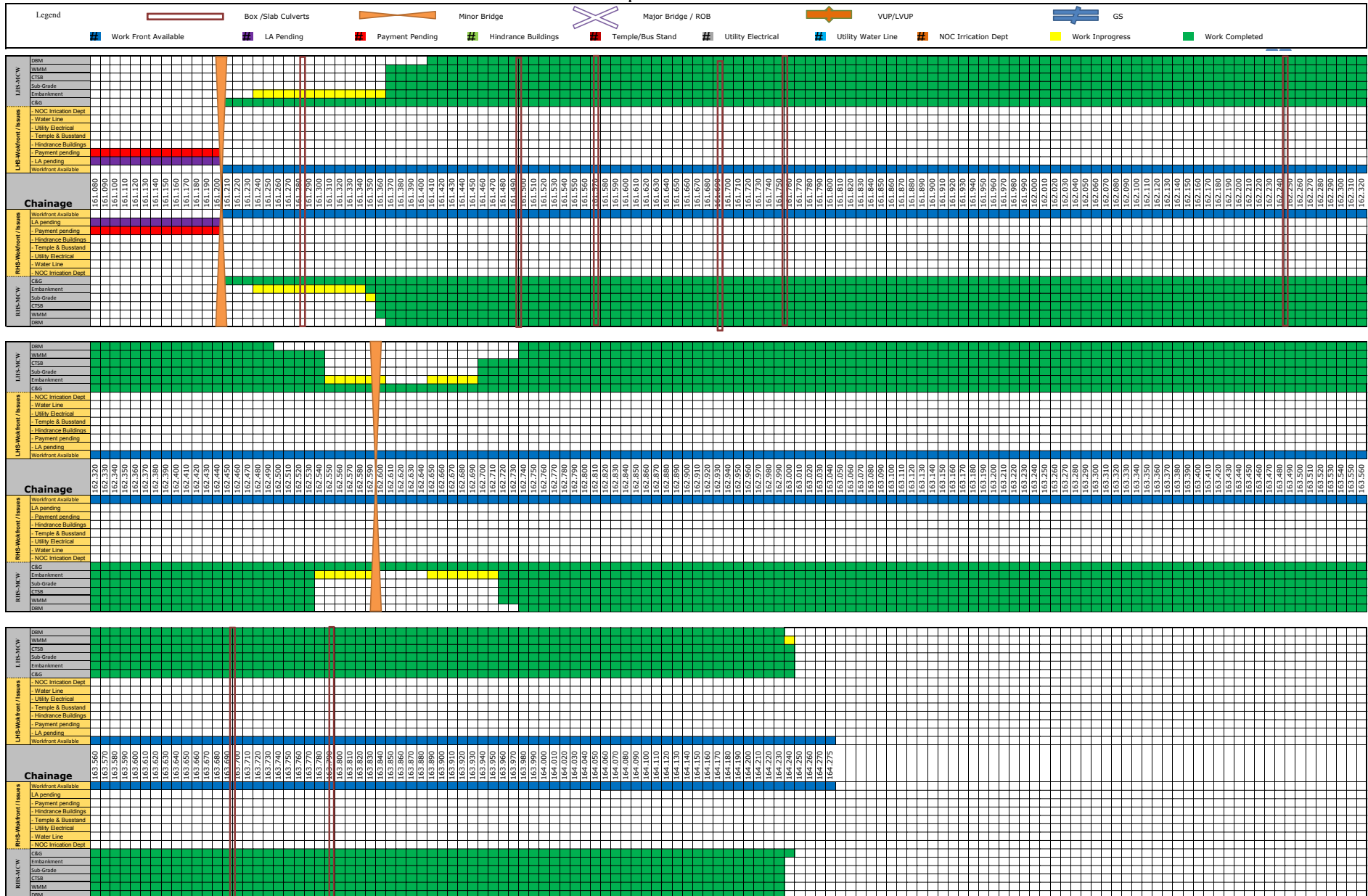




Four Laning of Cholopuram to Thanjavur from Km.116.440 to Km.164.275 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode

Cholopuram - Thanjavur Project

Strip Chart as on 31-07-2020





**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 4.3 - 1 : Strip Chart for status of Box Culverts on Existing Road ( Service Road )						IN PROGRESS								COMPLETED								
MPR		July	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 & Parapet	Slab	Wall	Raft	PCC	Granular Filling	Excavation	Excavation	Granular Filling	PCC	Raft	Wall	Slab	Return Wall & Parapet	Protection Work	
1	120.068	120.068	1 x 3.0	Reconstruction	Slab Culvert																	
2	120.280	120.288	1 x 1.5	Reconstruction	Slab Culvert																	
3	120.346	120.356	1 x 1.5	Reconstruction	Box Culvert																	
4	126.836	126.829	1 x 3.0	Reconstruction	Slab Culvert																	
5	126.987	127.007	1 x 2.0	Reconstruction	Slab Culvert																	
6	127.488	127.433	1 x 1.2	Reconstruction	Pipe Culvert																	
7	127.600	127.612	3 x 1.2	Reconstruction	Pipe Culvert																	
8	128.494	128.504	1 x 1.2	Reconstruction	Pipe Culvert																	
9	128.675	128.667	1 x 2.0	Reconstruction	Box Culvert																	
10	128.682	128.674	1 x 2.0	Reconstruction	Slab Culvert																	
11	128.727	128.738	3 x 1.2	Reconstruction	Pipe Culvert																	
12	128.904	128.916	1 x 1.2	Reconstruction	Pipe Culvert																	
13	129.067	129.079	1 x 1.2	Reconstruction	Pipe Culvert																	
14	130.096	130.109	1 x 1.2	Reconstruction	Pipe Culvert																	
15	130.307	130.318	1 x 1.5	Reconstruction	Slab Culvert																	
16	130.357	130.369	1 x 1.5	Reconstruction	Slab Culvert																	
17	130.680	130.692	2 x 1.2	Reconstruction	Pipe Culvert																	
18	131.146	131.159	1 X 0.9	Widening	Pipe Culvert																	
19	131.505	131.516	1 x 3.0	Reconstruction	Slab Culvert																	
20	131.722	131.732	1 x 1.2	Reconstruction	Pipe Culvert																	
21	131.780	131.791	1 x 1.2	Reconstruction	Pipe Culvert																	
22	133.635	133.579	1 x 2.0	Reconstruction	Slab Culvert																	
23	133.734	133.747	1 x 2.0	Reconstruction	Slab Culvert																	
24	133.935	133.938	1 x 1.2	Reconstruction	Pipe Culvert																	
25	133.987	133.979	1 x 1.2	Reconstruction	Pipe 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 4.3 - 2 : Strip Chart for status of Box Culverts on Bypass ( Service Road )						IN PROGRESS								COMPLETED																	
MPR		July		2020		LHS													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	Granular Filling	Excavation	Excavation	Granular Filling	PCC	Raft	Wall	Slab	Return Wall & Parapet	Protection Work										
1	119.971	119.978	1 x 1.5	Reconstruction	Slab Culvert																										
2	134.500	134.515	1 x 2.0m x 2.0m	New Costruction	Box Culvert																										
3	138.492	138.503	1 x 4.0m x 2.0m	New Costruction	Box Culvert																										
4	144.426	144.500	1 x 4.0m x 2.0m	New Costruction	Box Culvert																										
5	150.237	150.268	1 x 4.0m x 2.0m	New Costruction	Box Culvert																										
6	156.984	156.991	1 x 3.0m x 2.0m	New Costruction	Box Culvert																										
7	157.283	157.289	1 x 4.0m x 2.0m	New Costruction	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 4.3 - 3 : Strip Chart for status of MNB - Deck Type ( Main Carriageway )				IN PROGRESS								COMPLETED															
	MPR	July	2020	LHS								RHS															
SR.NO.	MNB at Chainage	Span	Pier/ Abutment	Crash Barrier	Slab	Girder Launching	Girder Casting	Piercap/Abtc ap	Pier/Abt	Open Foundation	PCC For foundation	PCC For foundation	Open Foundation	Pier/Abt	Piercap/Abtc ap	Girder Casting	Girder Launching	Slab	Crash Barrier								
1	133+345	3x12.5m	A1	EXISTING STRUCTURE																							
			P1																								
			A2																								
2	159+522	1x15.0m	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 4.3 - 3 : Strip Chart for status of MNB - Box (Service Road )						IN PROGRESS							COMPLETED							
MPR	July	2020				LHS							RHS							
Sr. No.	Design Chainage As per CA	Revised Chainage	Number and Length of Spans (m)	Type of Structure	Stretch	Protection Work	Slab	Wall	Reff	PCC	Granular Filling	Excavation	Excavation	Granular Filling	PCC	Reff	Wall	Slab	Protection Work	
<b>MNB SERVICE ROAD IN BYPASS</b>																				
1	117.764	117.764	2 x 10.0m	MNBB	Bypass															
2	126.134	126.134	2 X 10.0m	MNBB	Realign															
3	134.320	134.320	2x 10.0m	MNBB	Bypass															
4	134.770	134.774	1 x 10.0m	MNBB	Bypass															
5	138.555	138.585	1 x 6.0m	MNBB	Bypass															
6	138.901	138.935	6 x 7.5m	MNBB	Bypass															
7	139.453	139.485	1 x 7.0m	MNBB	Bypass															
8	139.105	139.138	2 x 15m	MNBB	Bypass															
9	139.299	139.335	4 x 7.5m	MNBB	Bypass															
10	139.453	139.485	1 x 7.0m	MNBB	Bypass															
11	141.164	141.145	1 x 10.0m	MNBB	Bypass															
12	141.445	141.466	1 x 8.0m	MNBB	Bypass															
13	141.727	141.760	1 x 8.0m	MNBB	Bypass															
14	144.880	144.916	4 x 7.5m	MNBB	Bypass															
15	149.940	149.962	1 x 10.0m	MNBB	Bypass															
16	149.997	150.028	1 x 6.0m	MNBB	Bypass															
17	156.014	156.040	1 x 8.0m	MNBB	Bypass															
18	156.216	156.244	1 x 6.0m	MNBB	Bypass															
19	156.336	156.366	1 x 6.0m	MNBB	Bypass															
20	156.707	156.734	1 x 10.0m	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 4.3 - 4 : Strip Chart for status of PUP					IN PROGRESS						COMPLETED					
MPR	July	2020			LHS						RHS					
Sr. No.	Design Chainage As per CA	Chainage as Per Site	Number and Length of Spans (m)		Protection Work	Slab	Wall	Raft	PCC	Excavation	Excavation	PCC	Raft	Wall	Slab	Protection Work
1	147.917	147.951	1 X 7 m	BYPASS												
2	149.988	150.023	1 X 7 m	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 4.3- 5 : Strip Chart for status of MJB ( Main Carriageway )									IN PROGRESS								COMPLETED							
MPR July 2020																								
<b>MJB at Chainage 131+980 (3x20) -WIDENING RHS</b>																								
LHS/LSR									RHS/LSR															
	Crash Barrier	Slab	Girder Launching	Girder Casting	Pier Cap/Abt Cap	Pier/Abt	Pile Cap	Pile	Pile	Pile Cap	Pier/Abt	Pier Cap/Abt Cap	Girder Casting	Girder Launching	Slab	Crash Barrier								
A1																								
P1																								
P2																								
A2																								
<b>MJB at Chainage 146+902 (4x20) -BYPASS</b>																								
LHS/LSR									RHS/LSR															
	Crash Barrier	Slab	Girder Launching	Girder Casting	Pier Cap/Abt Cap	Pier/Abt	Pile Cap	Pile	Pile	Pile Cap	Pier/Abt	Pier Cap/Abt Cap	Girder Casting	Girder Launching	Slab	Crash Barrier								
A1																								
P1																								
P2																								
P3																								
A2																								
<b>MJB at Chainage 148+017 (3x20)- BYPASS</b>																								
LHS/LSR									RHS/LSR															
	Crash Barrier	Slab	Girder Launching	Girder Casting	Pier Cap/Abt Cap	Pier/Abt	Pile Cap	Pile	Pile	Pile Cap	Pier/Abt	Pier Cap/Abt Cap	Girder Casting	Girder Launching	Slab	Crash Barrier								
A1																								
P1																								
P2																								
A2																								
<b>MJB at Chainage 149+334 (3x20)- BYPASS</b>																								
LHS/LSR									RHS/LSR															
	Crash Barrier	Slab	Girder Launching	Girder Casting	Pier Cap/Abt Cap	Pier/Abt	Pile Cap	Pile	Pile	Pile Cap	Pier/Abt	Pier Cap/Abt Cap	Girder Casting	Girder Launching	Slab	Crash Barrier								
A1																								
P1																								
P2																								
A2																								
<b>MJB at Chainage 156+559 (6x20)- BYPASS</b>																								
LHS/LSR									RHS/LSR															
	Crash Barrier	Slab	Girder Launching	Girder Casting	Pier Cap/Abt Cap	Pier/Abt	Pile Cap	Pile	Pile	Pile Cap	Pier/Abt	Pier Cap/Abt Cap	Girder Casting	Girder Launching	Slab	Crash Barrier								
A1																								
P1																								
P2																								
P3																								
P4																								
P5																								
P6																								
A2																								
<b>MJB at Chainage 161+019 (6x20)- BYPASS</b>																								
LHS/LSR									RHS/LSR															
	Crash Barrier	Slab	Girder Launching	Girder Casting	Pier Cap/Abt Cap	Pier/Abt	Pile Cap	Pile	Pile	Pile Cap	Pier/Abt	Pier Cap/Abt Cap	Girder Casting	Girder Launching	Slab	Crash Barrier								
A1																								
P1																								
P2																								
P3																								
P4																								
P5																								
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 4.3 - 6 : Strip Chart for status of FLYOVER				IN PROGRESS										COMPLETED								
MPR July 2020				LHS										RHS								
Sr.No.	FO at Chainage	Span		Crash Barrier	Slab	Girder Launching	Girder Casting	Piercap/Abtc ap	Pier/Abt	Pile Cap	PCC	Pile	Pile	PCC	Pile Cap	Pier/Abt	Piercap/Abtc ap	Girder Casting	Girder Launching	Slab	Crash Barrier	
1	117+600	1 x 30 m	BYPASS+ EXISTING	A1																		
				A2																		
2	120+000	1 x 30 m	BYPASS+ EXISTING	A1																		
				A2																		
3	127+300	1 x 30 m	EXISTING	A1																		
				A2																		
4	134+000	1 x 30 m	BYPASS+ EXISTING	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  
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Table 4.3 - 7 : Strip Chart for status of VUP				IN PROGRESS										COMPLETED								
MPR July 2020				LHS										RHS								
SR.NO.	VUP at Chainage	Span		Crash Barrier	Slab	Girder Launching	Girder Casting	Piercap/Abtc ap	Pier/Abt	Pile Cap	PCC	Pile	Pile	PCC	Pile Cap	Pier/Abt	Piercap/Abtc ap	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  
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Table 4.3 - 8 : Strip Chart for status of ROB

IN PROGRESS

COMPLETED

MPR July 2020

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 Cap	Pier/Abt	Pile Cap	Pile	Pile	Pile Cap	Pier/Abt	Pier Cap/Abt Cap	Girder Casting	Girder Launching	Steel Girder Erection	Steel Girder Launching	Slab	Crash Barrier	
A1																					
P1																					
P2																					
A2																					

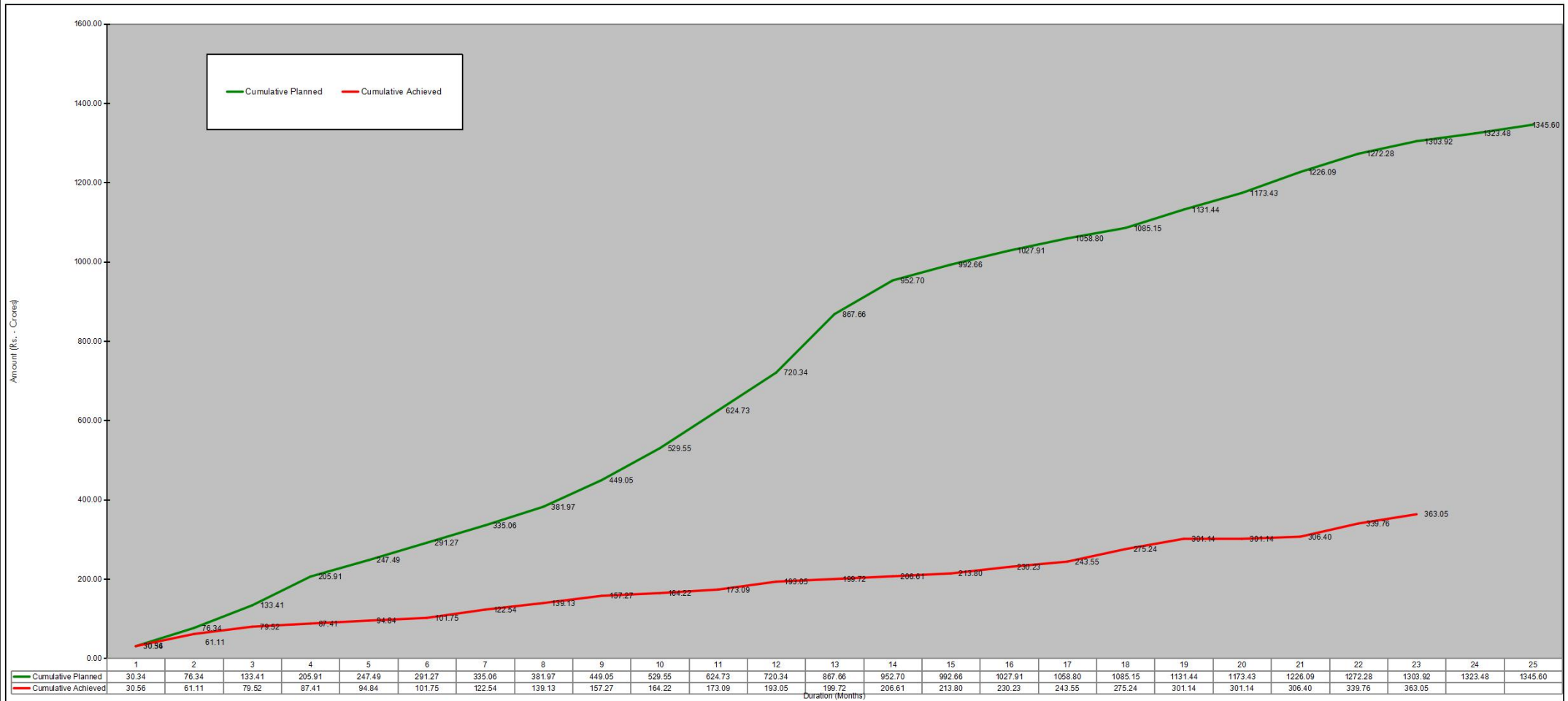
## 5. Financial & Physical Progress of Work

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

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

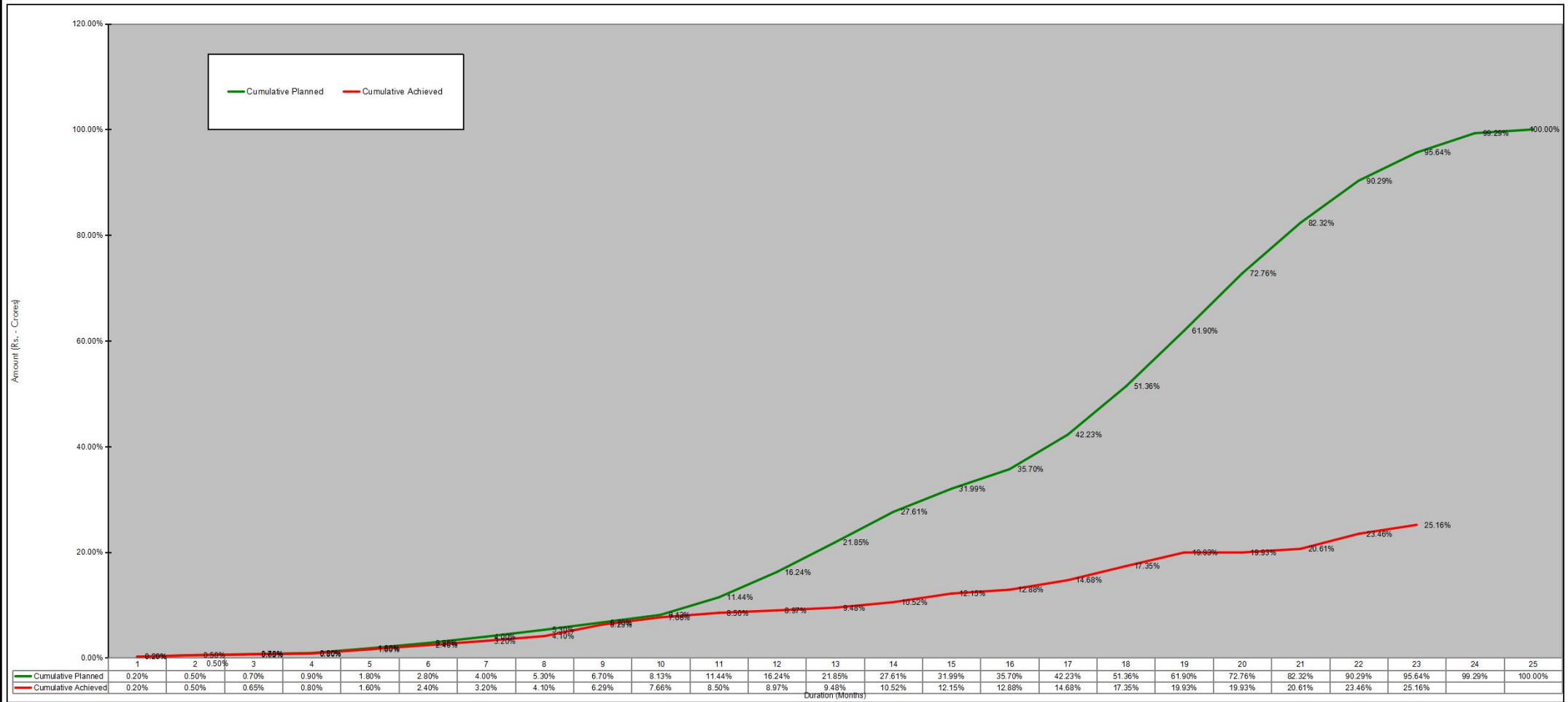
## Fig. 03a- Financial Progress (S-Curve)



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
Monthly Achieved	30.56	30.56	18.41	7.89	7.43	6.90	20.79	16.59	18.14	6.95	8.87	19.96	6.67	6.89	7.18	16.43	13.33	31.69	25.90	0.00	5.26	33.36	23.29		
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	139.13	157.27	164.22	173.09	193.05	199.72	206.61	213.80	230.23	243.55	275.24	301.14	301.14	306.40	339.76	363.05		
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%	1.2%	1.3%	0.5%	0.7%	1.5%	0.5%	0.5%	0.5%	1.2%	1.0%	2.4%	1.9%	0.0%	0.4%	2.5%	1.7%		
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%	10.3%	11.7%	12.2%	12.9%	14.3%	14.8%	15.4%	15.9%	17.1%	18.1%	20.5%	22.4%	22.4%	22.8%	25.2%	27.0%		

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. 03b- Physical 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	0.20%	0.30%	0.20%	0.20%	0.90%	1.00%	1.20%	1.30%	1.40%	1.43%	3.31%	4.80%	5.61%	5.76%	4.38%	3.71%	6.53%	9.13%	10.54%	10.86%	9.56%	7.97%	5.35%	3.65%
Monthly Achieved	0.20%	0.30%	0.15%	0.15%	0.80%	0.80%	0.80%	0.90%	2.19%	1.37%	0.85%	0.46%	0.51%	1.04%	1.63%	0.73%	1.80%	2.67%	2.58%	0.00%	0.69%	2.85%	1.70%		
Cumulative Planned	0.20%	0.50%	0.70%	0.90%	1.80%	2.80%	4.00%	5.30%	6.70%	8.13%	11.44%	16.24%	21.85%	27.61%	31.99%	35.70%	42.23%	51.36%	61.90%	72.76%	82.32%	90.29%	95.64%	99.29%	100.00%
Cumulative Achieved	0.20%	0.50%	0.65%	0.80%	1.60%	2.40%	3.20%	4.10%	6.29%	7.66%	8.50%	8.97%	9.48%	10.52%	12.15%	12.88%	14.68%	17.35%	19.93%	19.93%	20.61%	23.46%	25.16%		



## 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.

Table 6.1 - 2 QA/QC Lab Equipment 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)250oC	1
32	Hot Air Oven (Small)250oC	1

33	Direct Shear Test Apparatus	1
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>B) CONCRETE WORKS</b>		
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 absorotio 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
<b>C) BITUMINOUS WORKS</b>		
74	Specific Gravity Bottels ( 50 ml )	2

75	Specific Gravity Bottels ( 100 ml )	2
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
<b>FOR I.S SIEVES 450 MM DIA</b>		
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
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
<b>FOR I.S SIEVES 200 MM DIA</b>		
135	37.5MM	2
136	6.5MM	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	0.075 mc	6
<b>GENERAL &amp; CONTROL OF PROFILE AND SURFACE EVENNESS</b>		
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 July - 2020 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 Hybrid Annuity Mode.

Summary of Quality Control Report / Monthly Progress Report (QC) - MONTH : July-2020

S. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month				Tests conducted during reporting month upto 25 <sup>th</sup> June-2020				Test conducted upto this month			
				No. of test Conducted (1 Test =35sets)	Passed	Failed	Nos.of test witnessed by IE	No. of test Conducted	Passed	Failed	Nos.of test witnessed by IE	No. of test Conducted	Passed	Failed	Nos.of test witnessed by IE
<b>1.0 Tests on OGL</b>															
1.1	Grain size analysis	IS:2720 (Part4)	1 test / 250 meters	421	421	0	224	0	0	0	0	421	421	0	224
1.2	Atterberg Limits	IS:2720 (Part5)	1 test / 250 meters	421	421	0	224	0	0	0	0	421	421	0	224
1.3	Proctor	IS:2720 (Part8)	1 test / 250 meters	233	233	0	68	0	0	0	0	233	233	0	68
1.4	Free Swell index	IS:2720 (Part40)	1 test / 250 meters	421	403	18	224	0	0	0	0	421	403	18	224
1.5	California bearing ratio	IS:2720 (Part16)	As required	0	0	0	0	0	0	0	0	0	0	0	0
<b>2.0 Cutting portion &amp; Existing for EMB/SG (MoRT&amp;H 305)</b>															
2.1	Grain size analysis	IS:2720 (Part4)	1 test /1500 m <sup>3</sup>	84	84	0	41	0	0	0	0	84	84	0	41
2.2	Atterberg Limits	IS:2720 (Part5)	1 test /1500 m <sup>3</sup>	84	84	0	41	0	0	0	0	84	84	0	41
2.3	Proctor	IS:2720 (Part8)	1 test /1500 m <sup>3</sup>	84	84	0	41	0	0	0	0	84	84	0	41
2.4	Free Swell index	IS:2720 (Part40)	1 test /1500 m <sup>3</sup>	84	84	0	41	0	0	0	0	84	84	0	41
2.5	California bearing ratio	IS:2720 (Part16)	1 test / 3000 m <sup>3</sup>	77	77	0	43	0	0	0	0	77	77	0	43
<b>3.0 Borrow Area for EMB/Subgrade (MoRT&amp;H 305)</b>															
3.1	Grain size analysis	IS:2720 (Part4)	1 test /1500 m <sup>3</sup>	885	885	0	277	68	68	0	12	953	953	0	289
3.2	Atterberg Limits	IS:2720 (Part5)	1 test /1500 m <sup>3</sup>	885	885	0	277	68	68	0	12	953	953	0	289
3.3	Proctor	IS:2720 (Part8)	1 test /1500 m <sup>3</sup>	885	885	0	277	68	68	0	12	953	953	0	289
3.4	Free Swell index	IS:2720 (Part40)	1 test /1500 m <sup>3</sup>	885	885	0	277	68	68	0	12	953	953	0	289
3.5	California bearing ratio	IS:2720 (Part16)	1 test / 3000 m <sup>3</sup>	159	159	0	85	2	2	0	6	161	161	0	91
3.6	Water Soluble Sulphate	IS:2720 (Part27)	As required	2	2	0	0	0	0	0	0	2	2	0	0
3.7	Angle of Internal Friction( $\phi$ )	IS:2720 (Part13)	As required	5	5	0	5	0	0	0	0	5	5	0	5
<b>4.0 Field Density Test (MORT&amp;H 305)</b>															
4.1	Field density (OGL)	IS:2720 (Part28)	10 test /3000 sqm	5531	5531	15	2065	240	240	0	25	5771	5771	15	2090
4.2	Field density (EMB)	IS:2720 (Part28)	10 test /3000 sqm	25591	25591	36	4916	1452	1440	12	571	27043	27031	48	5487
4.3	Field density (SG)	IS:2720 (Part28)	10 test / 2000 sqm	3869	3869	3	406	30	30	0	153	3899	3899	3	559
4.4	Field density (Shoulder)	IS:2720 (Part28)	10 test / 2000 sqm	0	0	0	0	0	0	0	0	0	0	0	0
<b>5.0 Safe Bearing capacity of soil</b>															
5.1	Grain size analysis	IS:2720 (Part40)	As required	152	152	0	40	0	0	0	0	152	152	0	40
5.2	Atterberg Limits	IS:2720 (Part4)	As required	152	152	0	40	0	0	0	0	152	152	0	40
5.3	Proctor	IS:2720 (Part5)	As required	152	152	0	39	0	0	0	0	152	152	0	39
5.4	Free Swell index	IS:2720 (Part8)	As required	152	152	1	40	0	0	0	0	152	152	1	40
5.5	Bearing Capacity	IS:6403 / IS 1888	As required	152	152	151	40	0	0	0	0	152	152	151	40
5.6	Plate Load Test	IS:6403 / IS 1888	As required	29	29	0	24	0	0	0	0	29	29	0	24
<b>6.0 Filter Media &amp; Back filling MoRT&amp;H 2500 (Design)</b>															
6.1	Gradation		As required	114	114	0	55	0	0	0	4	114	114	0	59
6.2	Backfilling field density		1 test /1000 m <sup>3</sup>	45	45	0	35	0	0	0	0	45	45	0	35
<b>7.0 Granular Bedding Material (For Structures-Ground Improvement)-Design Approval</b>															
7.1	Gradation	Table 400-1	As required	15	15	0	15	0	0	0	0	15	15	0	15
7.2	Atterberg Limits	IS:2720 (Part5)	As required	13	13	0	7	0	0	0	0	13	13	0	7
7.3	Proctor	IS:2720 (Part8)	As required	9	9	0	9	0	0	0	0	9	9	0	9
7.4	CBR Test	IS:2720 (Part16)	As required	3	3	0	3	0	0	0	0	3	3	0	3
7.5	Aggregate Impact value	IS:2386 Part-4	As required	9	9	0	9	0	0	0	0	9	9	0	9

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.

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S. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month				Tests conducted during reporting month upto 25 <sup>th</sup> June-2020				Test conducted upto this month			
				No. of test Conducted (1 Test =3Sets)	Passed	Failed	Nos.of test witnessed by IE	No. of test Conducted	Passed	Failed	Nos.of test witnessed by IE	No. of test Conducted	Passed	Failed	Nos.of test witnessed by IE
<b>8.0 Granular Bedding Material (For Structures-Ground Improvement)- Stock &amp; Site Testing</b>															
8.1	Gradation	Table 400-1	As required	127	127	39	20	1	1	0	2	128	128	39	22
8.2	Atterberg Limits	IS:2720 (Part5)	As required	127	127	39	20	1	1	0	2	128	128	39	22
8.3	Proctor	IS:2720 (Part8)	As required	118	118	10	11	1	1	0	0	119	119	10	11
8.4	CBR Test	IS:2720 (Part16)	As required	14	14	10	11	1	1	0	0	15	15	10	11
8.5	Aggregate Impact value	IS:2386 Part-4	As required	18	18	8	10	1	1	0	1	19	19	8	11
8.6	Field Density	IS:2720 (Part28)	As required	1319	1319	295	295	2	2	0	0	1321	1321	295	295
<b>9.0 CTSB Mix Design MoRT&amp;H 403</b>															
9.1	Gradation	Table 400-4	1 test/400m <sup>3</sup>	63	63	0	52	0	0	0	0	63	63	0	52
9.2	Atterberg Limits	IS:2720 (Part5)	1 test/400m <sup>3</sup>	24	24	0	15	0	0	0	0	24	24	0	15
9.3	Proctor	IS:2720 (Part8)	As required	29	29	0	21	0	0	0	0	29	29	0	21
9.4	Aggregate Impact value	IS:2386 Part-4	As required	24	24	0	14	0	0	0	0	24	24	0	14
9.5	Field Density	IS:2720 (Part28)	1 set of 2 Test per 500Sq.m	0	0	0	0	0	0	0	0	0	0	0	0
9.6	Specific gravity & Water absorption	IS:2386 (Part2)	As required	14	14	0	5	0	0	0	0	14	14	0	5
9.7	Cubes casting & Testing(Sets)	IRC SP 89 (2010)	Minimum 5 Cubes	42	42	0	32	0	0	0	0	42	42	0	32
9.8	CBR Test(Set)	IS:2720 (Part16)	As required	6	6	0	6	0	0	0	0	6	6	0	6
9.9	Organic Content	IRC SP 89 (2010)	As required	2	2	0	0	0	0	0	0	2	2	0	0
9.10	Total SO4 Content	IRC SP 89 (2010)	As required	2	2	0	0	0	0	0	0	2	2	0	0
9.11	Chloride Content	IRC SP 89 (2010)	As required	1	1	0	0	0	0	0	0	1	1	0	0
9.12	10% Fines Value	BS:812 (111)	As required	2	2	0	0	0	0	0	0	2	2	0	0
9.13	Durability Test	IRC SP 89 (2010)	As required	6	6	0	6	0	0	0	0	6	6	0	6
9.14	Permeability Test	IS 2720 (Part 36)	As required	1	1	0	0	0	0	0	0	1	1	0	0
<b>10.0 CTSB Site Frequency</b>															
10.1	Gradation	Table 400-4	1 test/400m <sup>3</sup>	97	97	0	45	25	25	0	5	122	122	0	50
10.2	Atterberg Limits	IS:2720 (Part5)	1 test/400m <sup>3</sup>	95	95	0	43	25	25	0	5	120	120	0	48
10.3	Proctor	IS:2720 (Part8)	As required	6	6	0	5	0	0	0	0	6	6	0	5
10.4	Aggregate Impact value	IS:2386 Part-4	As required	90	90	0	54	3	3	0	1	93	93	0	55
10.5	Field Density	IS:2720 (Part28)	1 set of 2 Test per 500Sq.m	879	879	12	354	291	291	0	26	1170	1170	12	380
10.6	Specific gravity & Water absorption	IS:2386 (Part2)	As required	4	4	0	4	0	0	0	0	4	4	0	4
10.7	Cubes casting & Testing(Sets)	IRC SP 89 (2010)	a set of 3 specimens	163	163	0	79	52	52	0	15	215	215	0	94
10.8	CBR Test	IS:2720 (Part16)	As required	4	4	0	4	0	0	0	0	4	4	0	4
<b>11.0 WMM Mix (Design)</b>															
11.1	Individual / Combined Gradation	Table 400-3	1 test/200m <sup>3</sup>	88	88	0	67	0	0	0	0	88	88	0	67
11.2	Aggregate Impact Value	IS:2386 Part-4	1 test/ 1000 m <sup>3</sup>	13	13	0	11	0	0	0	0	13	13	0	11
11.3	Flakiness & Elagation index	IS:2386 Part1	1 test/ 500 m <sup>3</sup>	13	13	0	11	0	0	0	0	13	13	0	11
11.4	Atterberg Limits	IS:2720 (Part5)	1 test/200m <sup>3</sup>	11	11	0	9	0	0	0	0	11	11	0	9
11.5	Water absorption	IS:2386 Part2	As required	8	8	0	8	0	0	0	0	8	8	0	8
11.6	Proctor	IS:2720 (Part8)	As required	6	6	0	6	0	0	0	0	6	6	0	6
11.7	CBR	IS:2720 (Part16)	As required	6	6	0	6	0	0	0	0	6	6	0	6
11.8	Field Density(Trial stretch)	IS:2720 (Part28)	1 set Test per 1000Sq.m / 3	0	0	0	0	0	0	0	0	0	0	0	0

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S. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month				Tests conducted during reporting month upto 25 <sup>th</sup> June-2020				Test conducted upto this month			
				No. of test Conducted (1 Test =3Sets)	Passed	Failed	Nos.of test witnessed by IE	No. of test Conducted	Passed	Failed	Nos.of test witnessed by IE	No. of test Conducted	Passed	Failed	Nos.of test witnessed by IE
<b>12.0 WMM Site Frequency MoRT&amp;H 406</b>															
12.1	Individual / Combined Gradation	Table 400-3	1 test/200m <sup>3</sup>	53	53	0	19	31	31	0	2	84	84	0	21
12.2	Aggregate Impact Value	IS:2386 Part-4	1 test/ 1000 m <sup>3</sup>	42	42	0	17	31	31	0	2	73	73	0	19
12.3	Flakiness & Elagation index	IS:2386 Part1	1 test/ 500 m <sup>3</sup>	35	35	0	22	13	13	0	1	48	48	0	23
12.4	Atterberg Limits	IS:2720 (Part5)	1 test/200m <sup>3</sup>	53	53	0	19	17	17	0	1	70	70	0	20
12.5	Proctor	IS:2720 (Part8)	As required	3	3	0	3	0	0	0	0	3	3	0	3
12.6	CBR	IS:2720 (Part16)	As required	2	2	0	2	0	0	0	0	2	2	0	2
12.7	Field Density	IS:2720 (Part28)	1 set Test per 1000Sq.m / 3 pits	294	294	0	147	102	102	0	10	396	396	0	157
<b>13.0 Dense Bituminous Macadam (Grade - II)</b>															
13.1	Gradation	MORTH Section-500/Clause-507 & Table 500-10	One set for individual constituent and mixed aggregate from dryer for each 400 tonnes of mix subject to minimum of two Tests per day per plant	78	78	0	63	6	6	0	1	84	84	0	64
13.2	Flakiness & Elongation Index	IS: 2386 (Part 1)1963	1 Test for 350 m <sup>3</sup>	23	23	0	17	2	2	0	1	25	25	0	18
13.3	Aggregate Impact Value Test	IS: 2386 (Part 4)1963	1 Test for 350 m <sup>3</sup>	23	23	0	17	2	2	0	1	25	25	0	18
13.4	Binder content and grading of mix	IRC: SP 11-1988(APP-5)	One Test for each 400 tonnes of mix produced	37	37	0	21	4	4	0	0	41	41	0	21
13.5	Marshall Stability of mix	ASTM D 2726/1188	3 Tests for stability flow value density and void contents for each 400 tonnes of mix subject to minimum of two Tests per plant per day	46	46	0	27	12	12	0	2	58	58	0	29
13.6	Core Cutting and Density Of Compacted Layer	Table 900-4 of Morth	1 set Test per 700 Sq.m / 1 pits	95	95	0	76	25	25	0	10	120	120	0	86
13.7	Sand Equivalent Test	IS: 2720 Part 37)1963	One Test for each each source	12	12	0	12	0	0	0	0	12	12	0	12
13.8	Los Angeles Abrasion Value	IS: 2386 (Part 3)1963	1 Test for 350 m <sup>3</sup>	9	9	0	9	0	0	0	0	9	9	0	9
13.9	Stripping	IS : 6241	One Test for each each source	3	3	0	3	0	0	0	0	3	3	0	3
14	Retained Satlaility	AASHTO 283	One Test for each each source	8	8	0	8	0	0	0	0	8	8	0	8
14.1	Retained Tensile Strength	AASHTO 284	One Test for each each source	8	8	0	8	0	0	0	0	8	8	0	8
14.2	Refusal	AASHTO 285	One Test for each each source	10	10	0	5	0	0	0	0	10	10	0	5
14.3	Plasticity Index	IS: 2720( Part 5)	One Test for each each source	3	3	0	3	0	0	0	0	3	3	0	3
14.4	Cleanliness (Dust)	IS: 2386 (Part 1)	One Test for each each source	3	3	0	3	0	0	0	0	3	3	0	3



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S. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month				Tests conducted during reporting month upto 25 <sup>th</sup> June-2020				Test conducted upto this month			
				No. of test Conducted (1 Test =3Sets)	Passed	Failed	Nos.of test witnessed by IE	No. of test Conducted	Passed	Failed	Nos.of test witnessed by IE	No. of test Conducted	Passed	Failed	Nos.of test witnessed by IE
<b>15.0 Bitumen test</b>															
15.1	Absolute Viscosity at 60° C poise,Minimum	IS: 1206-1978 part-2	As per table 2 of IS 73-2013	18	18	0	11	3	3	0	1	21	21	0	12
15.2	Penetration Test at 25° C, 100gr,0.1mm,5sec	IS: 1203-1978	As per table 2 of IS 73-2013	18	18	0	11	3	3	0	1	21	21	0	12
15.3	Softening point(R&B) Min	IS: 1205-1978	As per table 2 of IS 73-2013	18	18	0	11	3	3	0	1	21	21	0	12
15.4	Flash point(Cleveland open cup)° C,Min	IS: 1209-1978	1 Test per Lot	3	3	0	3	0	0	0	1	3	3	0	4
15.5	<b>Test on Residue from TFOT</b>														
15.6	Viscosity ratio at 60° C max	IS: 1206-1978 part-2	1 Test per Lot	5	5	0	5	2	2	0	1	7	7	0	6
15.7	Ductility at 25° C ,cm,Min	IS: 1208-1978	1 Test per Lot	5	5	0	5	2	2	0	1	7	7	0	6
<b>16.0 EMULSION SS1&amp;RS1</b>															
16.1	Saybolt furool Viscosity	IS: 13117	1 Test per Lot	7	7	0	4	1	1	0	1	8	8	0	5
16.2	Residue on 600 micron is sive	IS: 8887	1 Test per Lot	7	7	0	4	1	1	0	1	8	8	0	5
16.3	Water Content ,Percent by mass	IS: 8887	1 Test per Lot	7	7	0	4	1	1	0	1	8	8	0	5
<b>17.0 EMULSION Prime coat &amp;Tack Coat</b>															
17.1	Rate of Spread of Binder	IRC: SP 16	Three test per Day	51	51	0	38	9	9	0	3	60	60	0	41
<b>18.0 Coarse Aggregate MoRT&amp;H 1007</b>															
18.1	Gradation	IS:2386 (Part2)	As required	774	774	0	278	8	8	0	4	782	782	0	282
18.2	Specific gravity& Water absorption	IS:2386 (Part3)	As required	31	31	0	16	1	1	0	1	32	32	0	17
18.3	Aggregate Impact Value	IS:2386 (Part4)	As required	106	106	0	37	4	4	0	1	110	110	0	38
18.4	Flakiness index	IS:2386 (Part1)	As required	104	104	0	35	4	2	0	1	108	106	0	36
18.5	Soundness	IS:2386 (Part5)	As required	1	1	0	1	0	0	0	0	1	1	0	1
18.6	Alkali aggregate reactivity test	IS:2386 (Part-7)IS : 456	1 test per source	1	1	0	1	0	0	0	0	1	1	0	1
18.7	Deleterious constituents	IS:2386 (Part2)	1 test per source	1	1	0	1	0	0	0	0	1	1	0	1
18.8	Petrographic Examination	IS:2386 (Part8)	1 test per source	1	1	0	1	0	0	0	0	1	1	0	1
<b>19.0 Cement MoRT&amp;H 1006</b>															
19.1	Chemical test	IS:4031,4032	1 test per source	16	16	0	11	0	0	0	0	16	16	0	11
19.2	Fineness	IS:4031 (Part1)	500mt (or) Every week	131	131	0	60	5	5	0	2	136	136	0	62
19.3	Normal Consistency	IS:4031 (Part4)	500mt (or) Every week	131	131	0	60	5	5	0	2	136	136	0	62
19.4	Initial,Final setting time	IS:4031 (Part5)	500mt (or) Every week	131	131	0	60	5	5	0	2	136	136	0	62
19.5	Soundness of Cement	IS:4031 (Part3)	500mt (or) Every week	131	131	0	60	5	5	0	2	136	136	0	62
19.6	Compressive Strength-set	IS:4031 (Part6)													
	3 days		500mt (or) Every week	147	147	0	68	7	7	0	2	154	154	0	70
	7 days		500mt (or) Every week	141	141	0	65	6	6	0	2	147	147	0	67
	28 days		500mt (or) Every week	130	130	0	42	9	9	0	1	139	139	0	43
20	Chemical test	IS 2386	1 test per source	7	7	0	3	0	0	0	0	7	7	0	3

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S. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month				Tests conducted during reporting month upto 25 <sup>th</sup> June-2020				Test conducted upto this month				
				No. of test Conducted (1 Test =35sets)	Passed	Failed	Nos.of test witnessed by IE	No. of test Conducted	Passed	Failed	Nos.of test witnessed by IE	No. of test Conducted	Passed	Failed	Nos.of test witnessed by IE	
<b>21.0 Admixture</b>																
21.1	Chemical Test	IS 9103	1 test per source	4	4	0	2	0	0	0	0	4	4	0	2	
<b>22.0 Steel</b>																
22.1	8 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.	16	16	0	7	0	0	0	0	16	16	0	7	
22.2	10 mm Dia	IS 1786		16	16	0	8	0	0	0	0	16	16	0	8	
22.3	12 mm Dia	IS 1786		21	21	0	10	0	0	0	0	21	21	0	10	
22.4	16 mm Dia	IS 1786		22	22	0	10	0	0	0	0	22	22	0	10	
22.5	20 mm Dia	IS 1786		21	21	0	9	0	0	0	0	21	21	0	9	
22.6	25 mm Dia	IS 1786		24	24	0	13	0	0	0	0	24	24	0	13	
22.7	32 mm Dia	IS 1786		10	10	0	5	0	0	0	0	10	10	0	5	
<b>23.(A) Concrete Cube Strength of Design Mix</b>																
<b>M15 PCC</b>																
7Days Compressive Strength		IS:516 / IS:456	MORT&H Sec. 1700	69	69	0	58	0	0	0	0	69	69	0	58	
28Days Compressive Strength				62	63	0	55	0	0	0	0	62	63	0	55	
<b>M20 PCC</b>																
7Days Compressive Strength		IS:516 / IS:456	MORT&H Sec. 1700	66	66	0	53	0	0	0	0	66	66	0	53	
28Days Compressive Strength				59	59	0	55	0	0	0	0	59	59	0	55	
<b>M20 DRAIN</b>																
7Days Compressive Strength		IS:516 / IS:456	MORT&H Sec. 1700	3	3	0	3	0	0	0	0	3	3	0	3	
28Days Compressive Strength				0	0	0	0	0	0	0	0	0	0	0	0	
<b>M20 KERB</b>																
7Days Compressive Strength		IS:516 / IS:456	MORT&H Sec. 1700	8	8	0	8	0	0	0	0	8	8	0	8	
28Days Compressive Strength				8	8	0	8	0	0	0	0	8	8	0	8	
<b>M25 RCC</b>																
7Days Compressive Strength		IS:516 / IS:456	MORT&H Sec. 1700	66	66	0	6	0	0	0	0	66	66	0	6	
28Days Compressive Strength				59	56	0	55	0	0	0	0	59	56	0	55	
<b>M30 RCC</b>																
7Days Compressive Strength		IS:516 / IS:456	MORT&H Sec. 1700	60	60	0	56	0	0	0	0	60	60	0	56	
28Days Compressive Strength				63	59	0	59	0	0	0	0	63	59	0	59	
<b>M30 RCC PUMPABLE</b>																
7Days Compressive Strength		IS:516 / IS:456	MORT&H Sec. 1700	47	47	0	43	0	0	0	0	47	47	0	43	
28Days Compressive Strength				37	35	0	33	0	0	0	0	37	35	0	33	
<b>M35 RCC</b>																
7Days Compressive Strength		IS:516 / IS:456	MORT&H Sec. 1700	56	56	0	52	0	0	0	0	56	56	0	52	
28Days Compressive Strength				58	56	0	54	0	0	0	0	58	56	0	54	
<b>M35 RCC PILING</b>																
7Days Compressive Strength		IS:516 / IS:456	MORT&H Sec. 1700	65	65	0	61	0	0	0	0	65	65	0	61	
28Days Compressive Strength				58	58	0	54	0	0	0	0	58	58	0	54	
<b>M35 RCC PUMPABLE</b>																
7Days Compressive Strength		IS:516 / IS:456	MORT&H Sec. 1700	47	47	0	43	0	0	0	0	47	47	0	43	
28Days Compressive Strength				37	35	0	33	0	0	0	0	37	35	0	33	
<b>M35 RE BLOCK</b>																
7Days Compressive Strength		IS:516 / IS:456	MORT&H Sec. 1700	60	60	0	54	0	0	0	0	60	60	0	54	
28Days Compressive Strength				55	55	0	55	0	0	0	0	55	55	0	55	

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S. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month				Tests conducted during reporting month upto 25 <sup>th</sup> June-2020				Test conducted upto this month			
				No. of test Conducted (1 Test =35sets)	Passed	Failed	Nos.of test witnessed by IE	No. of test Conducted	Passed	Failed	Nos.of test witnessed by IE	No. of test Conducted	Passed	Failed	Nos.of test witnessed by IE
<b>M40 RCC</b>															
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	35	35	0	26	0	0	0	0	35	35	0	26
	28Days Compressive Strength			22	18	0	22	0	0	0	0	22	18	0	22
<b>M45 RCC</b>															
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	36	36	0	37	0	0	0	0	36	36	0	37
	28Days Compressive Strength			43	43	0	40	0	0	0	0	43	43	0	40
<b>M45 RCC PUMPABLE</b>															
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	23	15	0	20	1	1	0	0	24	16	0	20
	28Days Compressive Strength			26	22	0	23	0	0	0	0	26	22	0	23
<b>23.(B) Concrete Cube Strength of Site Cubes</b>															
<b>M15 PCC</b>															
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	326	326	0	141	21	21	0	13	347	347	0	154
	28Days Compressive Strength			569	569	0	262	55	55	0	0	624	624	0	262
<b>M20 PCC</b>															
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	6	6	0	4	0	0	0	1	6	6	0	5
	28Days Compressive Strength			12	12	0	5	0	0	0	0	12	12	0	5
<b>M20 RCC</b>															
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	57	57	0	8	26	26	0	6	83	83	0	14
	28Days Compressive Strength			85	85	0	17	62	62	0	0	147	147	0	17
<b>M20 KERB</b>															
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	34	34	0	15	15	15	0	3	49	49	0	18
	28Days Compressive Strength			58	58	0	38	11	11	0	0	69	69	0	38
<b>M25 RCC</b>															
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	23	23	0	13	0	0	0	0	23	23	0	13
	28Days Compressive Strength			32	32	0	18	0	0	0	2	32	32	0	20
<b>M30 RCC</b>															
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	566	566	0	210	58	58	0	2	624	624	0	212
	28Days Compressive Strength			1095	1095	0	410	143	143	0	17	1238	1238	0	427
<b>M30 RCC PUMPABLE</b>															
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	40	40	0	181	7	7	0	1	47	47	0	182
	28Days Compressive Strength			94	94	0	50	7	7	0	11	101	101	0	61
<b>M35 RCC</b>															
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	334	334	0	145	23	23	0	1	357	357	0	146
	28Days Compressive Strength			700	683	17	301	18	18	0	12	718	701	17	313
<b>M35 RCC PILING</b>															
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	553	553	0	191	12	12	0	0	565	565	0	191
	28Days Compressive Strength			1758	1758	0	793	61	61	0	24	1819	1819	0	817
<b>M35 RCC PUMPABLE</b>															
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	399	399	0	205	27	27	0	0	426	426	0	205
	28Days Compressive Strength			1325	1325	0	773	45	45	0	15	1370	1370	0	788
<b>M35 RE BLOCK</b>															
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	886	886	0	314	20	20	0	0	906	906	0	314
	28Days Compressive Strength			1559	1559	0	525	40	40	0	12	1599	1599	0	537

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.

Summary of Quality Control Report / Monthly Progress Report (QC) - MONTH : July-2020

S. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month				Tests conducted during reporting month upto 25 <sup>th</sup> June-2020				Test conducted upto this month			
				No. of test Conducted (1 Test =3Sets)	Passed	Failed	Nos.of test witnessed by IE	No. of test Conducted	Passed	Failed	Nos.of test witnessed by IE	No. of test Conducted	Passed	Failed	Nos.of test witnessed by IE
<b>M40 RCC</b>															
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	5	5	0	5	0	0	0	0	5	5	0	5
	28Days Compressive Strength			5	5	0	5	0	0	0	0	5	5	0	5
<b>M45 PUMP</b>															
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	46	46	0	16	5	5	0	2	51	51	0	18
	28Days Compressive Strength			108	108	0	32	9	9	0	16	117	117	0	48
<b>24.0 BENTONITE</b>															
20.1	Density	MORT&H Sec. 1115.2.3	As required	293	293	0	111	4	4	0	4	297	297	0	115
20.2	Marsh Cone Viscosity			293	293	0	111	4	4	0	4	297	297	0	115
20.3	pH Value			293	293	0	111	4	4	0	0	297	297	0	111
20.4	Silt Content			15	15	0	6	0	0	0	0	15	15	0	6
20.5	Liquid Limit			18	18	0	7	0	0	0	0	18	18	0	7
<b>25.0 Fine Aggregate MoRT&amp;H 1008-(RE-Block)</b>															
21.1	Grade / Sieve analysis	IS:2386 (Part1)	As required	560	560	0	181	8	8	0	4	568	568	0	185
21.2	Fineness Modulus	MORT&H Sec. 1008&383	As required	560	560	0	181	8	8	0	4	568	568	0	185
21.3	Specific gravity & Water absorption	IS:2386 (Part2)	As required	12	12	0	6	0	0	0	0	12	12	0	6
<b>26.0 Coarse Aggregate MoRT&amp;H 1007-(RE-Block)</b>															
22.1	Gradation	IS:2386 (Part2)	As required	516	516	0	146	8	8	0	4	524	524	0	150
22.2	Specific gravity & Water absorption	IS:2386 (Part3)	As required	18	18	0	12	0	0	0	1	18	18	0	13
22.3	Aggregate Impact Value	IS:2386 (Part4)	1 test / each source &	33	33	0	17	3	3	0	0	36	36	0	17

Date	Temperature (Celsius)		Humidity (%)		Rainfall (mm)	Remarks
	Min	Max	Min	Max		
01-07-2020	28.8	35.0	47	69	0.00	Sunny
02-07-2020	29.2	36.0	45	70	0.00	Sunny
03-07-2020	29.0	35.5	44	75	28.00	Rainy
04-07-2020	27.8	36.0	45	74	0.00	Sunny
05-07-2020	27.7	35.5	44	76	0.00	Sunny
06-07-2020	29.5	35.8	44	67	0.00	Sunny
07-07-2020	30.1	36.8	42	65	8.80	Sunny
08-07-2020	28.1	36.8	42	74	0.00	Sunny
09-07-2020	27.1	35.0	49	79	0.00	Sunny
10-07-2020	27.1	35.0	49	79	0.00	Sunny
11-07-2020	27.4	35.5	49	77	4.00	Sunny
12-07-2020	27.6	36.6	47	74	0.00	Sunny
13-07-2020	28.7	33.6	55	76	0.00	Sunny
14-06-2020	28.0	36.2	48	81	15.40	Rainy
15-07-2020	28.6	34.2	51	83	0.00	Sunny
16-07-2020	28.7	33.1	54	73	0.00	Sunny
17-07-2020	28.4	32.8	53	69	0.00	Sunny
18-07-2020	28.5	33.0	53	70	0.00	Sunny
19-07-2020	28.0	35.0	50	79	0.00	Sunny
20-07-2020	27.8	33.8	50	79	2.00	Rainy
21-07-2020	28.6	35.1	44	75	0.00	Sunny
22-07-2020	28.8	35.9	48	73	0.00	Sunny
23-07-2020	27.8	34.4	50	77	0.00	Sunny
24-07-2020	28.1	33.5	50	76	0.00	Sunny
25-07-2020	27.9	34.5	49	75	4.00	Rainy
26-07-2020	27.7	36.1	41	76	7.70	Rainy
27-07-2020	25.4	35.8	45	89	35.20	Rainy
28-07-2020	26.9	32.7	60	90	25.00	Rainy
29-07-2020	24.9	28.1	67	71	0.00	Sunny
30-07-2020	28.5	34.4	49	80	0.00	Sunny
31-07-2020	27.1	35.1	52	80	12.00	Rainy

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 photographs for the same along with action taken are as below.



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

1. Pending Disbursement of Payment to the beneficiaries from CALA towards Land and Buildings in Thanjavur District. – Request Authority to advise/instruct the Competent Authority of Land Acquisition to speed up the process of disbursement of pending payment.
2. Permission from Local Authorities for procurement of Borrow Earth for Irrigation Tanks.
3. Rerouting of existing canal between Km.146+600 to 148+100
4. NOC from PWD/WRO, Govt. of Tamil Nadu for construction of Major Bridge (02 Nos)
5. NOC from PWD/WRO, Govt. of Tamil Nadu for construction of project highways in the existing ponds (in a length of 1.667 Kms).
6. Removal/relocation of existing irrigation sluice and regulator in the locations of Km: 150+800, Km: 152+900 & Km: 134+770.
7. Additional land acquisition for Toll plaza location, Bus bays. Turning radius at Major junctions.
8. Removal of Religious structures of 10 Nos. and Bus stand from the proposed ROW.
9. Removal of Government Buildings like VAO office, School, Post Office & Ration Shop etc. in 15 nos. of locations.
10. Removal of unauthorized occupations in 25 nos. of locations in the project highways.
11. Required State Support Agreement between NHAI & Govt. of Tamil Nadu as due priority will be given to NH Projects by the State Govt. officials.
12. Removal of Fuel Stations at Km: 120+400, Km: 128+850 and Km: 122+450.
13. Revised Estimates for Electrical Shifting due to non-available of vertical clearance – Request Authority for earlier Approval.
14. Removal of Existing Motor Rooms of 22 nos. from the project highway. – Request Authority to advise/instruct the competent department to take the possession of land.
15. With reference to our several correspondence time to time vide which we intimated the matter of enforced nationwide lockdown as well as its impact on the Project Highway, the World Health Organization (WHO) on 11th March' 2020 had characterized the Novel Coronavirus Disease (COVID-19) outbreak as a global Pandemic. In view of the WHO's announcement and over all prevailing condition of the nation, the Union Government of India (GOI) had invoked section 2 of Epidemic Disease Act 1897 on 12.03.2020 to prevent the spread of novel coronavirus in India. Accordingly, the State Government of Tamilnadu has enforced complete lockdown of the entire state from 24.03.2020 to 31.03.2020 to avoid the spread of COVID-19. Subsequently, The Ministry of Home Affairs (MHA) vide Order No. 40-3/2020-DM-I(A), dated 24.03.2020 directed to enforce complete nationwide lockdown for the period of 21 days from 25.03.2020 to 14.04.2020.

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

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Management Act 2005, has issued an Order bearing no. 40-3/2020-DM-I(A), dated 15.04.2020 that the nationwide lockdown will remain continue till 3rd May' 2020 to contain the spread of COVID-19 in the country. However, to mitigate hardship of the public select additional activities will be allowed with effect from 20th April' 2020 including Road Construction Activities as per sr. no. 16 of Consolidated Revised Guidelines on the measures to be taken by Ministries / Departments of GOI, State/ UT Govt. and State/ UT Authorities incorporating these guidelines are enclosed with the MHA order.

Accordingly, we have submitted the detailed work program during the extended lock down period up to 03.05.2020 along with the list of Manpower & Machineries to be involved in the Construction work to take suitable action for the issuance of necessary permission from District Administration in this regard.

Further, vide our letter no. 12 dated 23.04.2020 we informed that Press released no. 280 dated 20.04.2020 issued by Government of Tamilnadu that Government of Tamilnadu had instructed to continue to enforce all the existing restrictions issued by MHA order dated 24.03.2020 during extended lock down period i.e. up to 03.05.2020.

After that, a notification issued by Revenue and Disaster Management (D-II) Department, Govt. of Tamilnadu bearing no. 203 dated 23.04.2020 vide which it is informed that resumption of construction of road & bridge project can be done with taking all precaution as per Standard Operating Procedure (SOPs) for social distancing and obtain permission from District Administration.

Further, vide our letter no. 16 dated 08.05.2020 & 19 dated 20.05.2020 we informed that Government of Tamilnadu had instructed to continue to enforce all the existing restrictions issued by MHA order dated 24.03.2020 during extended lock down period i.e. up to 31.05.2020.

Furthermore, we also notified in our earlier correspondence that Ministry of Home Affairs, Govt. of India vide their order dated 29.04.2020 allowed the movement of stranded migrant workers to their home town and subsequently, Local officials of District Administration are now approaching to our staff/ labours directly & taking their willingness for movement to their home town; Due to this and havoc of spreading of coronavirus, our workers and labours are putting their voice/desire for roaming to their home town. Based on prevailing situation and circumstances thereto & on human ground we could not restrict them from going to their home town and many migrant labours/ staffs have registered their name for the movement to their home town.

This movement of migrant labours/ staffs to their home town are continuing. The comparison statement for details of staff/workers/labours availability between before lockdown and current status as listed below for your ready reference.



Description	Available before lockdown	Available in the month of July 2020 (in Nos)																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Availability of staff/workers/labours	931	411	424	424	424	0	424	448	452	452	452	452	0	452	452	452	452	452	452	0	452	452	452	452	452	452	0	452	452	452	452	452

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

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

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

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

16. Hindrances/Occupations/Land Acquisition issues in the following locations due to various reasons,

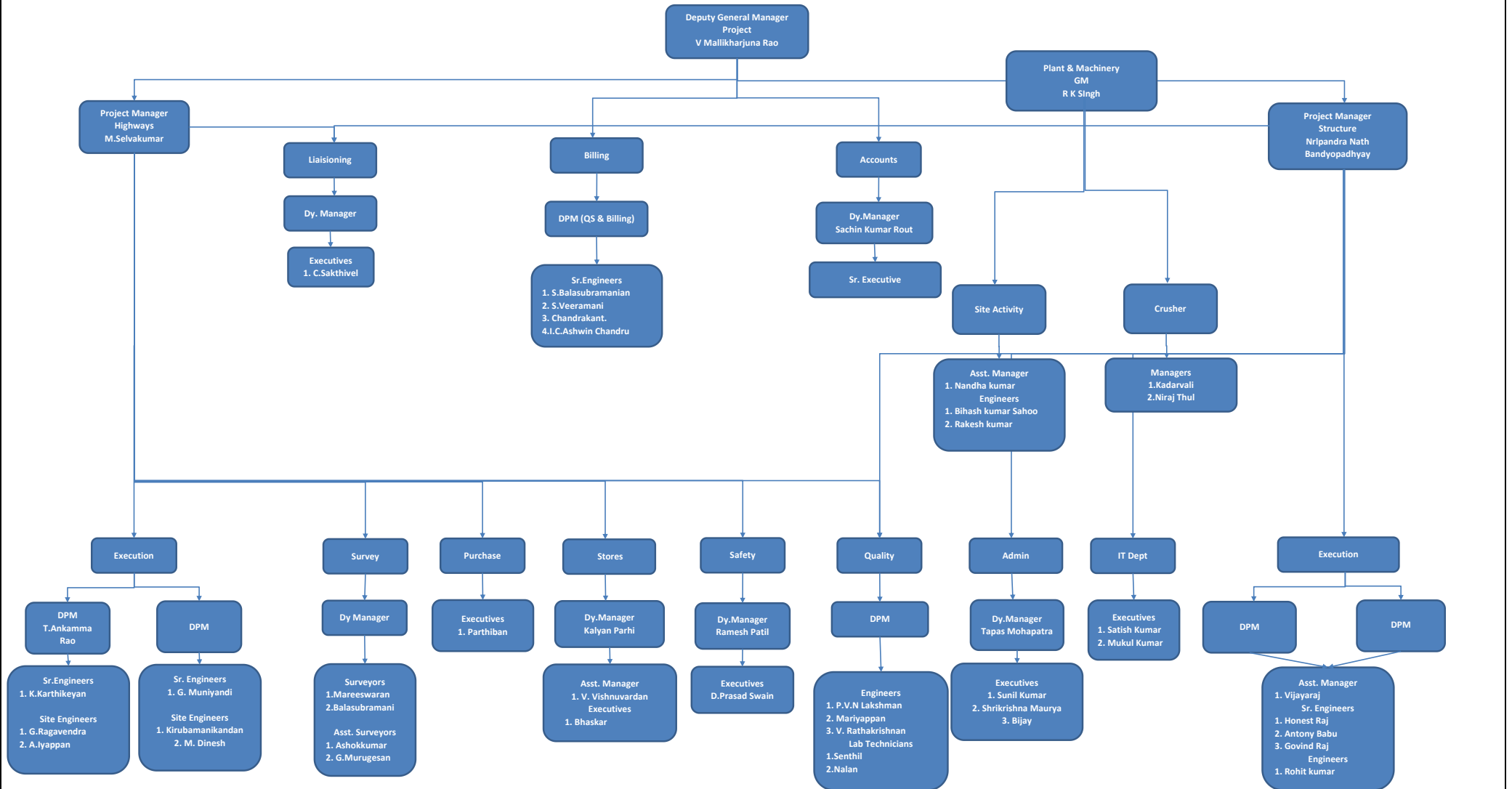
Sl. No	From	To	Effectd Length in ( M )	Nature of Hindrance	Survey No	Name of Village	Name of Land Owner
1	138+400	138+480	520 m	Court Stay	4/4A	Thiruvanzuli	Mr.Dharmalingam
2	138+500	138+540		Court Stay	-	Thiruvanzuli	Mr.Shanmugam
3	138+750	138+850	500 m	Court Stay		Thiruvanzuli	Mr.Dhahshnamoorthy, Mr.Rajini, Mr.nagaraj
4	142+100	142+200	500 m	Payment Issue	326/1, 326/2, 326/3, 326/4, 326/5, 326/ 6	Gopurajapuram	Mr.Pakir Mohammed
5	161+100	161+200	1000 m	LA issues	3/1A,3/1B	Kadkadapai	Ms Tamilselvi
<b>Total Effectd Length in Meters</b>			<b>2520</b>				

Table 10.1. Details of Important Events			
Sl. No	Date of Events	Description of Events	Remarks
1	07.07.2020	Project Director Site Visit for LA issues	
2	13.07.2020	Team Leader Monthly site visit	
3	08.07.2020	DFO Thanjavur Site Inspection for Teak wood trees	
4	15.07.2020	Monthly Review Meeting with IE	
5	15.07.2020	DRO, Thanjavur Site Visit for LA Issues	
6	24.07.2020	Project Director Site Visit for LA issues	

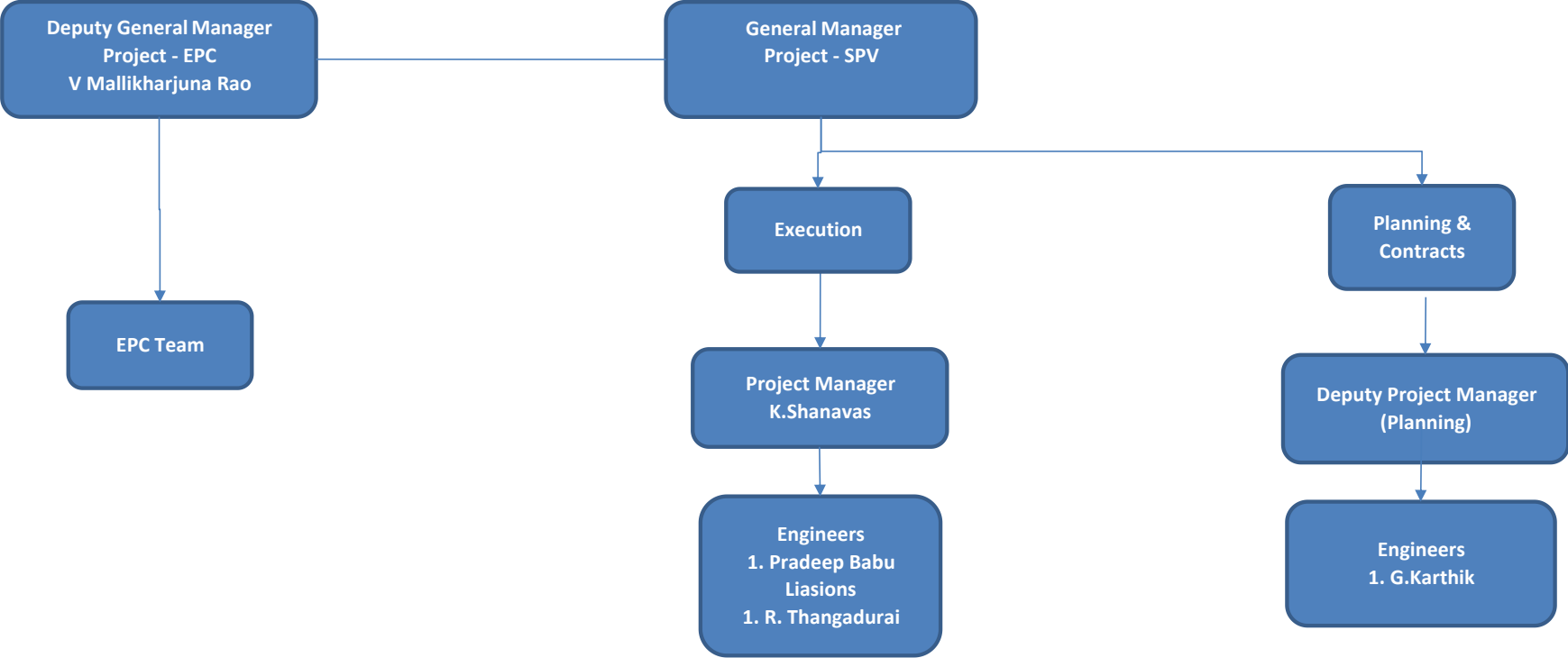
The following figures represent the organization structure of the EPC and SPV Team.

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

Figure 4 - ORGANAIZATION CHART - EPC TEAM



**Figure 5 - ORGANAIZATION CHART - SPV TEAM**



## 12. List of Plants, Machinery and Equipment's

S.No	Name of the Machinery	Capacity / Model	Mobilized at Site	Remarks
1	Grader	120K2	5	
2	Excavator/JCB	JCB-220	6	
3	Dozer		1	
4	Soil Compactor	HAMM 311	4	
5	Backhoe Loader	JCB 3DX	5	
6	Tipper	Bharat Benz- 3128C	16	
7	Transit Mixer	2523C	11	
8	Loader	455 ZX	6	
9	Trailer		3	
10	Water Tanker		8	
11	Diesel Tanker		3	
12	Boom Placer	S-36	1	
13	Tractor	5036 D V-2	3	
14	Mobile Service Van		1	
15	Tower Light	AJASKY	3	
16	Hydra Crane		4	
17	Asphalt Batch Mix Plant		1	
18	Wet Mix Plant	250 TPH	1	
14	Concrete Batch Mix Plant 45 cum	45 cum	2	
15	Concrete Batch Mix Plant 60 cum	60 cum	1	
16	Crusher Plant (3 Stage)	250 TPH	3	
17	Weigh Bridge for Camp 100MT	100MT	2	
18	Weigh Bridge for Crusher 100MT	100MT	1	
19	Genset Base Camp	25KV	2	
20	Genset (Crusher) 63KVA	63KVA	3	
21	Genset (H.M & B/P)	82.50KV	3	
22	Genset (B/P-CP-45)	125KV	1	
23	Genset 650 KVA	650 KVA	1	
26	Genset (Crusher)	1010KVA	3	
27	Genset 15KVA	15KVA	1	

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	3.78 Cr.	NA
2	Upgradation strengthening the Incident Management services.	10.05.2019	IE recommended to Authority vide ref.148 for issuance under COS and is under scrutiny with Authority	NA	NA
3	Construction of Major Bridge at Km 131+963- under Change of Scope	01.06.2019	IE recommended to Authority vide ref.141 for issuance under COS.	NA	NA

## 14. Details of Correspondences

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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



**Project Name: - 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**

**TABLE 14.1 - CORRESPONDANCE - CONCESSIONAIRE TO NHAI**

<b>S.No</b>	<b>Date</b>	<b>Letter No</b>	<b>Subject</b>	<b>Remarks</b>
1	07.07.2020	PCTHPL/CTP/NHAI/2020/738	Submission of certificate for lowerrate deduction of TDS for the captioned project work	
2	14.07.2020	PCTHPL/CTP/NHAI/2020/742	Work order for shifting of Irrigation Sluices and regulator	
3	18.07.2020	PCTHPL/CTP/NHAI/2020/748	Compliance Report-Petition received from Sh.T.Aravindan-Requesting balance amount and insurance claims	
4	21.07.2020	PCTHPL/CTP/NHAI/2020/751	Acknowledgement for receipt of Mobilization Bank Guarantee in original	

Project Name:- 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

TABLE 14.2 - CORRESPONDANCE - NHAI TO CONCESSIONAIRE

S.No	Date	Letter No	Subject	Remarks
1	02.07.2020	NHAI/PIU/Thanj/11026/32/2019/1066	COS proposal for providing one additional span of 15m to 20m to the Major Bridge at Km 161.030	
2	06.07.2020	NHAI/PIU/Thanj/11026/22/2018/1089	Submission of GAD for 01 No of Proposed Major Bridge for the concurrence of Tamilnadu PWD/WRO -NOC issued communicated	
3	06.07.2020	NHAI/PIU/Thanj/110026/13/2018/1092	Shifting of Tail End Regulator across Soolamangalam Drain at Km 152+900 in Chandrapadi village of Papanasam Taluk & Thanjavur District – Estimate Submitted by EE, PWD-Work Order issued	
4	06.07.2020	NHAI/PIU/Thanj/110026/13/2018/1093	Shifting & Construction Tail End Regulator Across Ariyapadaiyur Channel at Km 134.774 in Cholamaligai village of Kumbakonam Taluk & Thanjavur District – Estimate Submitted by EE, PWD-Work Order issued	
5	06.07.2020	NHAI/PIU/Thanj/110026/13/2018/1094	Shifting & Construction of Navalady Regulator and Head Sluice across Sullanar @ L.S.2.480Km at Km 150+800 in in Navalady village of Papanasam Taluk & Thanjavur District -Work Order issued	
6	07.07.2020	NHAI/PIU/Thanj/110026/13/2018/1098	Petition recieved from Sh.T.Aravindan-Requesting balance amount and insurance claim amount	
7	08.07.2020	NHAI/PIU/Thanj/11026/22/2018/1100	Submission of GAD for 2 Nos of proposed Major Bridges for the concurrences of Tamil Nadu PWD WRO-NOC issued - Communicated-Additional condition imposed-Communicated	
8	08.07.2020	NHAI/PIU/Thanj/11026/22/2018/1106	Request to change the Box culvert instead of Pipe culvert	
9	11.07.2020	NHAI/PIU/Thanj/11026/22/2018/1120	Request to change the Box Culvert instead of Pipe culvert	
10	11.07.2020	NHAI/PIU/Thanj/11026/24/2019/1126	ROB-Checking of Structural Drawing	
11	13.07.2020	NHAI/PIU/Thanj/11026/11/2018/1131	Removal of Dead and live trees- exist in NH road stretch	
12	16.07.2020	NHAI/PIU/Thanj/11026/12/2018/1147	Shifting of HT line & Tower at Km 158.860 -Requesting Line Clearance in Ayyampettai LILO 110KV Feeder	
13	16.07.2020	NHAI/PIU/Thanj/11027/09/2009/1153	Usage of Plastic waste in Construction of Service road	

**Project Name:- 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**

**TABLE 14.3 - CORRESPONDANCE - CONCESSIONAIRE TO INDEPENDENT ENGINEER**

<b>S.No</b>	<b>Date</b>	<b>Letter No</b>	<b>Subject</b>	<b>Remarks</b>
1	01.07.2020	PCTHPL/CTP/IE/2020/733	Proposed location for median openings	
2	04.07.2020	PCTHPL/CTP/IE/2020/734	Re-Submission of method statement for lapping of Reinforcement	
3	04.07.2020	PCTHPL/CTP/IE/2020/735	Soil Test reports for the proposed Borrow area of the Project (BA No 46 & BA 47)	
4	07.07.2020	PCTHPL/CTP/IE/2020/737	Compliance report-Menthodology for Ground Improvement works	
5	08.07.2020	PCTHPL/CTP/IE/2020/739	Submission of RE wall drawings for a PUP at Km 147+951 & Km 150+023	
6	10.07.2020	PCTHPL/CTP/IE/2020/740	Procurement of Bitumen emulsion from M/s Tiki Tar and Shell India Pvt Ltd	
7	13.07.2020	PCTHPL/CTP/IE/2020/741	Request for approval of NABL accredited labs for Third party testing	
8	14.07.2020	PCTHPL/CTP/IE/2020/743	Submission of Method statement for post tensioning work for construction of I Girder	
9	14.07.2020	PCTHPL/CTP/IE/2020/744	Request to release amount withheld towards delay in achieving Project Milestone 01 during making payment of 1st Payment Milestone	
10	16.07.2020	PCTHPL/CTP/IE/2020/745	Regarding lock down of the project site due to Novel Corona Virus Disease (COVID-19) -Remobilization of Migrant labours Workers to the Project	
11	17.07.2020	PCTHPL/CTP/IE/2020/746	Soil test report for the proposed Borrow area of the project (BA No 34)	
12	17.07.2020	PCTHPL/CTP/IE/2020/747	Submission of Design and drawings for minor bridge at Km 150+800	
13	20.07.2020	PCTHPL/CTP/IE/2020/749	Compliance Report of Design & Drawings for Minor bridge at Km 133+345	
14	20.07.2020	PCTHPL/CTP/IE/2020/750	Permission for commencement of regular piling works for the abutment of proposed major bridge at Km 149+355	
15	21.07.2020	PCTHPL/CTP/IE/2020/753	Submission of Design & Drawings for Major Bridge at Km 161+030( with additional span of 20m)	

**Project Name:- 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**

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

S.No	Date	Letter No		Remarks
1	04.07.2020	THEME/NHAI/CHO-TNJR/CON/0720/621	Construction of Minor Bridge at Ch 144+916 LHS on Service road is not as per the approved drawing-Non Conformance Report No 20	
2	06.07.2020	THEME/NHAI/CHO-TNJR/CON/0720/622	Submission of video recording-Pending	
3	07.07.2020	THEME/NHAI/CHO-TNJR/CON/0720/623	Submission of GAD for 01 No of proposed Major Bridge for the concurrence of Tamilnadu PWDWRO - NOC issued Communicated	
4	07.07.2020	THEME/NHAI/CHO-TNJR/CON/0720/624	Submission of Compliance report for the design and drawings of Major bridge at Km 149+355	
5	10.07.2020	THEME/NHAI/CHO-TNJR/CON/0720/625	Resubmission of Method statement for lapping of Reinforcement	
6	10.07.2020	THEME/NHAI/CHO-TNJR/CON/0720/626	Compliance report-Methodology for ground improvement works	
7	13.07.2020	THEME/NHAI/CHO-TNJR/CON/0720/628	Review of soil test reports for the borrow area No 46 & BA No 47	
8	15.07.2020	THEME/NHAI/CHO-TNJR/CON/0720/629	Junction Improvement drawings for the major junction at Ch 163+645	
9	15.07.2020	THEME/NHAI/CHO-TNJR/CON/0720/630	Protection of high embankments	
10	15.07.2020	THEME/NHAI/CHO-TNJR/CON/0720/631	Compliance report -NCR-16-regarding shabby work of PCC laying for Box culvert at Ch 160+176	
11	16.07.2020	THEME/NHAI/CHO-TNJR/CON/0720/632	Guidelines Norms for Grant of permissions for construction of access to Fuel Stations, Wayside amenities, connecting roads, Other Properties, Rest Area complexes & such other facilities	
12	16.07.2020	THEME/NHAI/CHO-TNJR/CON/0720/633	Review of RE Wall drawings for PUP at Ch 147.951 and Ch 150.023	
13	17.07.2020	THEME/NHAI/CHO-TNJR/CON/0720/634	Approval of accredited laboratory for third party testing	
14	17.07.2020	THEME/NHAI/CHO-TNJR/CON/0720/635	Minutes of Project Review Meeting No 20	
15	20.07.2020	THEME/NHAI/CHO-TNJR/CON/0720/636	Procurement of Bitumen Emulsion from MS Tikitar and shell India Pvt Ltd (SS1 & RS1)	
16	20.07.2020	THEME/NHAI/CHO-TNJR/CON/0720/637	Usage of waste plastics in Construction Service road	
17	22.07.2020	THEME/NHAI/CHO-TNJR/CON/0720/638	Method Statement for post tensioning work for construction of I girders	
18	22.07.2020	THEME/NHAI/CHO-TNJR/CON/0720/639	Review of soil testr reports for the borrow area No 34	

15. Progress Photographs

Sl. No	Description	Location	Side	Remarks
1.	EMBANKMENT IN PROGRESS	118+740	BHS	
2.	EMBANKMENT IN PROGRESS	140+040	BHS	



Sl. No	Description	Location	Side	Remarks
3.	EMBANKMENT TOP LAYER IN PROGRESS	141+130	BHS	
4.	EMBANKMENT IN PROGRESS	144+060	BHS	



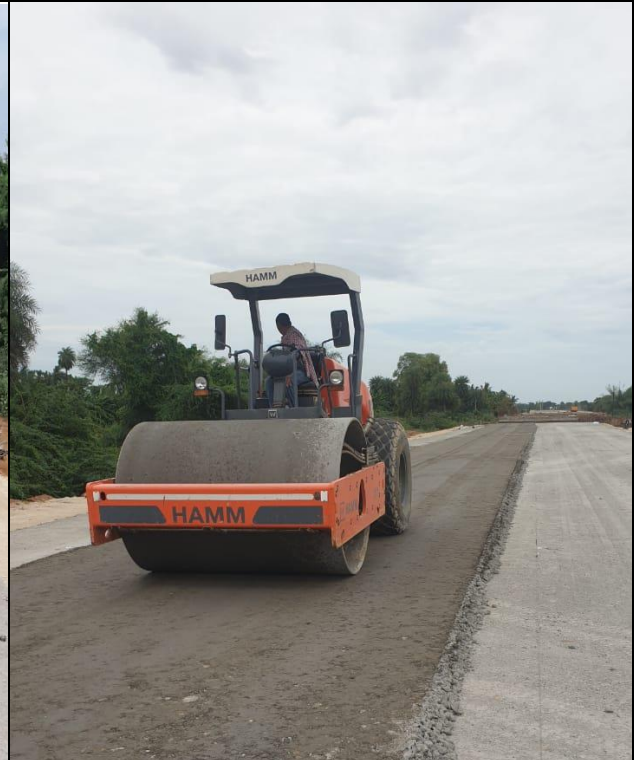
Sl. No	Description	Location	Side	Remarks
5.	SUBGRADE FIRST LAYER IN PROGRESS	128+020	LHS	
6.	SUBGRADE TOP LAYER IN PROGRESS	128+270	NHS	



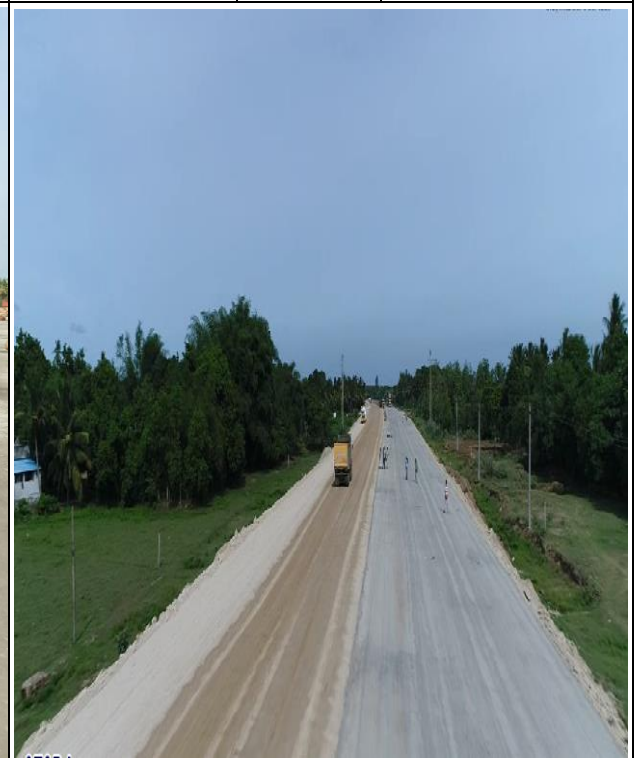

Sl. No	Description	Location	Side	Remarks
7.	SUBGRADE 1 <sup>st</sup> LAYER IN PROGRESS	124+000	RHS	
8.	SUBGRADE TOP LAYER IN PROGRESS	141+500		



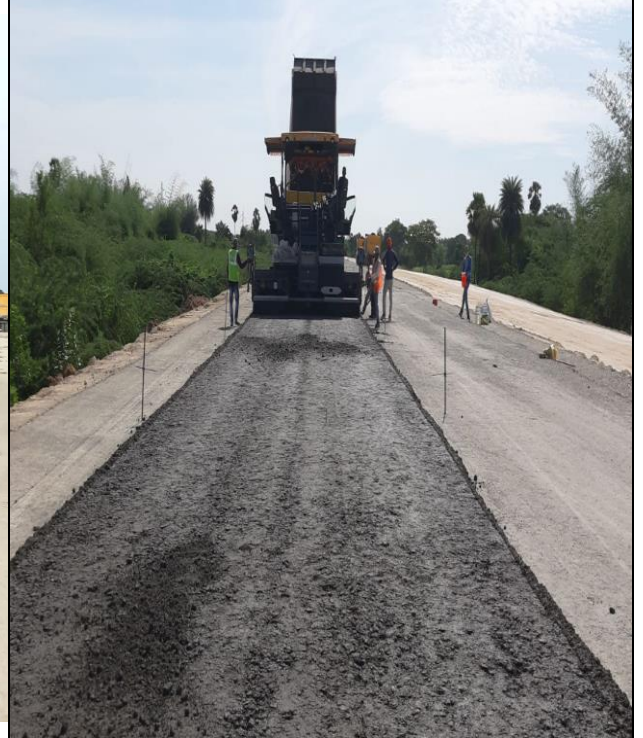
Sl. No	Description	Location	Side	Remarks
9.	CTSB LAYING IN PROGRESS	144+060	LHS	
10.	CTSB LAYING IN PROGRESS	144+400	LHS	



Sl. No	Description	Location	Side	Remarks
11.	CTSB IN PROGRESS	138+000	BHS	
12.	CTSB IN PROGRESS	138+100	BHS	



Sl. No	Description	Location	Side	Remarks
13.	WMM TOP LAYER IN PROGRESS	137+700	LHS	
14.	WMM TOP LAYER IN PROGRESS	143+460	LHS	



Sl. No	Description	Location	Side	Remarks
15.	WMM TOP LAYER IN PROGRESS	144+480		
16.	WMM TOP LAYER IN PROGRESS	145+730		

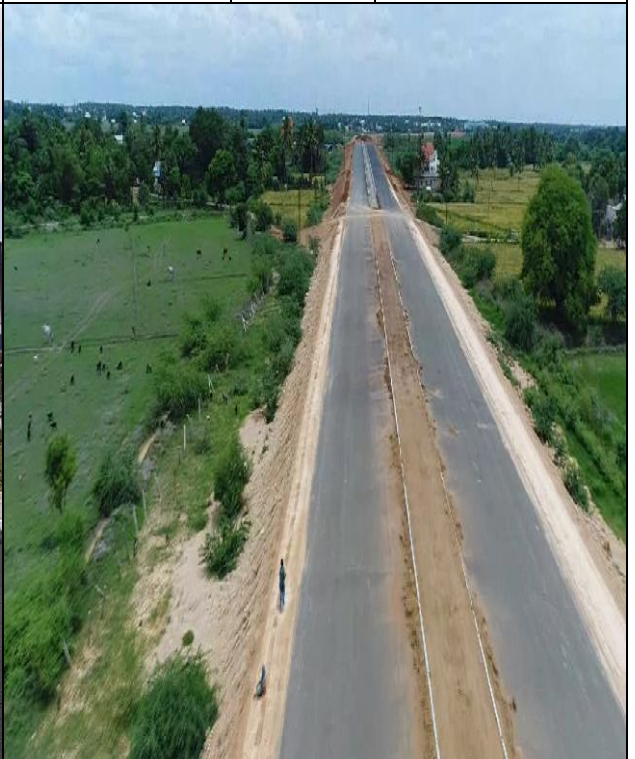




Sl. No	Description	Location	Side	Remarks
17.	DBM IN PROGRESS	122+150	LHS	
18.	DBM IN PROGRESS	123+105	LHS	



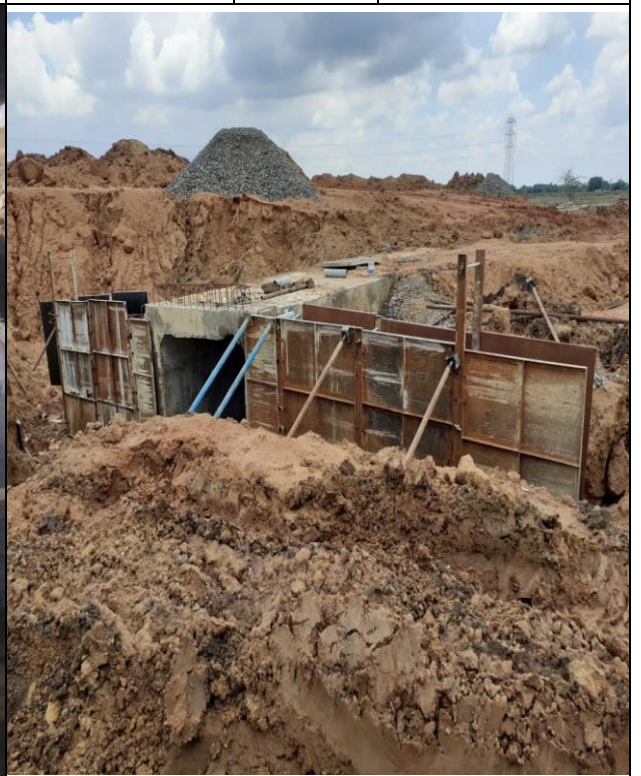
Sl. No	Description	Location	Side	Remarks
19.	DBM IN PROGRESS	122+500		
20.	DBM IN PROGRESS	162+100		



Sl. No	Description	Location	Side	Remarks
21.	BOX CULVERT IN PROGRESS	128+279	RSR	
22.	BOX CULVERT RW IN PROGRESS	129+080		



Sl. No	Description	Location	Side	Remarks
23.	BOX CULVERT SLAB IN PROGRESS	133+748	RHS	
24.	BOX CULVERT RW IN PROGRESS	158+665	BHS	



Sl. No	Description	Location	Side	Remarks
25.	MINOR BRIDGE IN PROGRESS	143+136	BHS	
26.	MINOR BRIDGE IN PROGRESS	143+995	BHS	



Sl. No	Description	Location	Side	Remarks
27.	MAJOR BRIDGE PILING IN PROGRESS	161+030	RHS	
28.	MAJOR BRIDGE PILING IN PROGRESS	131+980		




Sl. No	Description	Location	Side	Remarks
29.	ROB Abutment In Progress	134+345		
30.	ROB Abutment In Progress			



Sl. No	Description	Location	Side	Remarks
31.	RE WALL IN PROGRESS	157+100	A1	
32.			A2	



Sl. No	Description	Location	Side	Remarks
33.	Removal of teak wood trees	-	-	-
 <p>Latitude: 10.889059 Longitude: 79.255981 Elevation: 31.53m Accuracy: 3.8m Time: 03-07-2020 12:20</p>		 <p>Latitude: 10.892897 Longitude: 79.231193 Accuracy: 2800.0m Time: 04-07-2020 10:02</p>		

Sl. No	Description	Location	Side	Remarks
33.	Camp-Stock Yard	-	-	-
				