



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

PATEL CHOLOPURAM-THANJAVUR HIGHWAY PRIVATE LIMITED

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

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

MONTHLY PROGRESS REPORT  
JANUARY 2019

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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

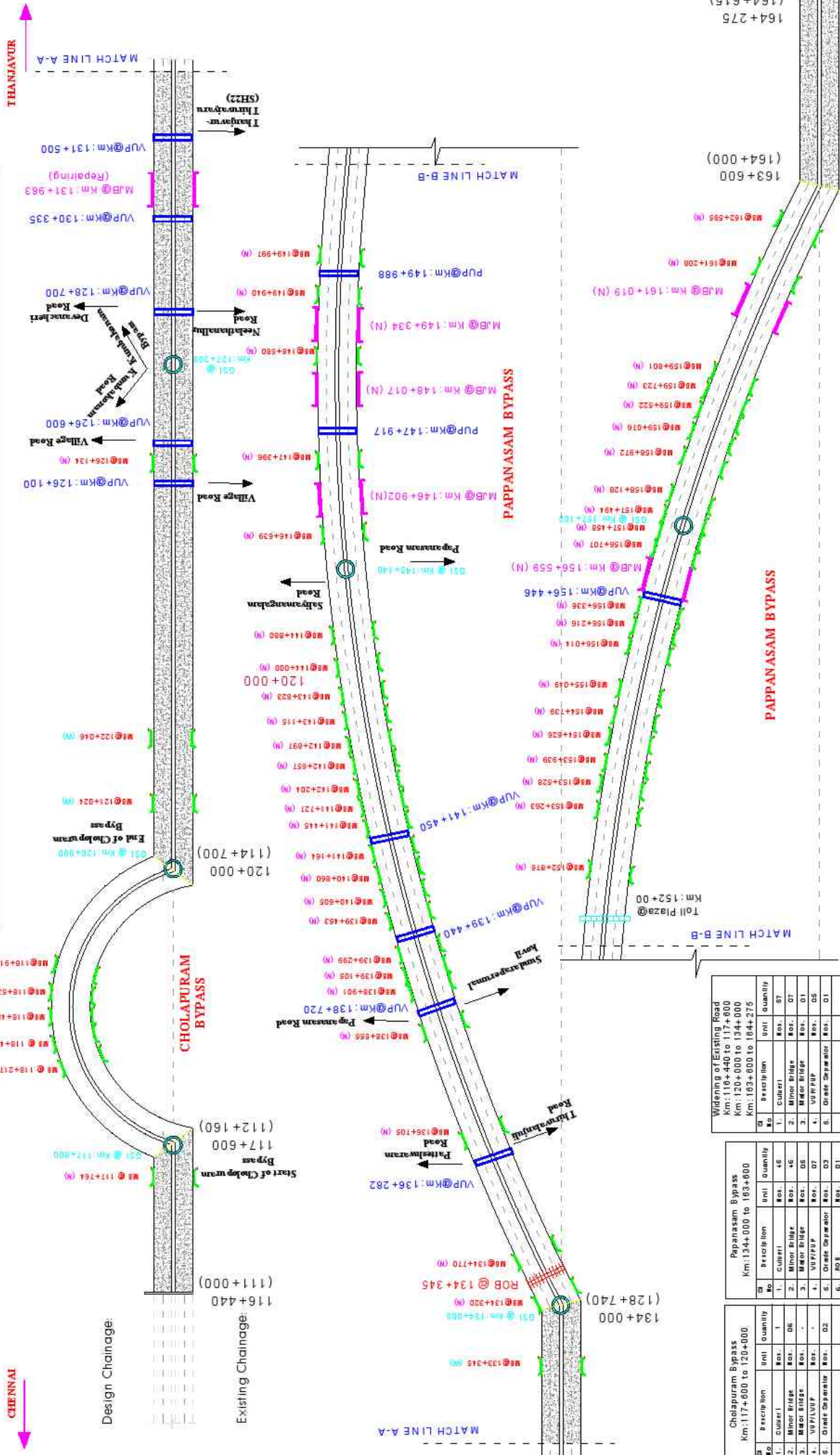
The Government of India had entrusted to the National Highway Authority of India (NHAI) the development, maintenance and management of National Highway No. 45C including the section from km 116.440 to Km 164.275 (approx. 47.835 Km). The Authority had resolved to augment for four Laning of Cholopuram - 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



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



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

No	Description	Unit	Quantity
1.	Culvert	Box	07
2.	Minor Bridge	Box	07
3.	Major Bridge	Box	01
4.	VUP/PUP	Box	05
5.	Grade Separator	Box	01
6.	ROB	Box	10

**Cholapuram Bypass**  
 Km: 117+600 to 120+000

No	Description	Unit	Quantity
1.	Culvert	Box	06
2.	Minor Bridge	Box	06
3.	Major Bridge	Box	01
4.	VUP/PUP	Box	07
5.	Grade Separator	Box	02
6.	ROB	Box	08

**Pappanasam Bypass**  
 Km: 134+000 to 163+600

No	Description	Unit	Quantity
1.	Culvert	Box	45
2.	Minor Bridge	Box	45
3.	Major Bridge	Box	01
4.	VUP/PUP	Box	07
5.	Grade Separator	Box	03
6.	ROB	Box	10

**Drawing Title**  
 Strip Plan - Cholapuram to Thanjavur Highway Project

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

**Salient Features of Project:**

Sl. No.	Description	Unit	Quantity	Scope
1.	Total Length of Project	Km	47.832	ROB
2.	Length of Widening Full Run	Km	15.335	ROB
3.	Length of Bypass	Km	32.000	ROB
4.	Length of existing/strip Road	Km	27.100	ROB
5.	Culvert	Box	74	ROB
6.	Minor Bridge	Box	29	ROB
7.	Major Bridge	Box	06	ROB
8.	VUP/PUP	Box	06	ROB
9.	Grade Separated Structure	Box	06	ROB
10.	ROB	Box	01	ROB
11.	Minor Intersection	Box	22	ROB
12.	Major Intersection	Box	20	ROB
13.	Bus Stop and Shelter	Box	06	ROB
14.	Toll Plaza	Box	01	ROB

**LEGEND:**

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

Table- 01: Details of Project Alignments

Sr. no.	Design Chainage (Km)		LENGTH (Km)	TCS Type	Remarks
	From	To			
1	116.440	117.200	0.760	Type-B (Fig 2.6 of the manual) without service road	Concentric widening
2	117.200	117.900	0.700	Figure 7.8- Grade separator and its approaches with RE wall and both side 7.5 m wide Slip road	
3	117.900	119.600	1.700	Type-A-3 (Fig 2.4 of the manual)	Bypass
4	119.600	120.420	0.820	Figure 7.8- Grade separator and its approaches with RE wall and both side 7.5 m wide Slip road	
5	120.420	122.000	1.580	Type-B (Fig 2.6 of the manual) without service road	Concentric widening
6	122.000	125.300	3.300	Type-A-3 (Fig 2.4 of the manual)	Eccentric widening
7	125.300	125.700	0.400	Type-B (Fig 2.6 of the manual) without service road	Concentric widening
8	125.700	127.700	2.000	Figure 7.8- Grade separator and its approaches with RE wall and both side 7.5 m wide Slip road	
9	127.700	128.300	0.600	Type-B (Fig 2.6 of the manual) without service road	Concentric widening
10	128.300	129.100	0.800	Figure 7.8- Grade separator and its approaches with RE wall and both side 7.5 m wide Slip road	
11	129.100	129.970	0.870	Type-B (Fig 2.6 of the manual) without service road	Concentric widening
12	129.970	130.700	0.730	Figure 7.8- Grade separator and its approaches with RE wall and both side 7.5 m wide Slip road	
13	130.700	131.050	0.350	Type-B (Fig 2.6 of the manual) without service road	Concentric widening
14	131.050	131.850	0.800	Figure 7.8- Grade separator and its approaches with RE wall and both side 7.5 m wide Slip road	
15	131.850	132.100	0.250	Type-A-3 (Fig 2.4 of the manual)	Eccentric widening
16	132.100	133.580	1.480	Type-B (Fig 2.6 of the manual) without service road	Concentric widening
17	133.580	134.800	1.220	Figure 7.8- Grade separator and its approaches with RE wall and both side 7.5 m wide Slip road	
18	134.800	136.000	1.200	Type-A-3 (Fig 2.4 of the manual)	Bypass
19	136.000	136.600	0.600	Figure 7.8- Grade separator and its approaches with RE wall and both side 7.5 m wide Slip road	
20	136.600	138.500	1.900	Type-A-3 (Fig 2.4 of the manual)	Bypass
21	138.500	139.750	1.250	Figure 7.8- Grade separator and its approaches with RE wall and both side 7.5 m wide Slip road	
22	139.750	141.100	1.350	Type-A-3 (Fig 2.4 of the manual)	Bypass

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



## 1.1. Project Overview

Name of Work	Four Laning of Cholopuram-Thanjavur from km. 116.440 to Km.164.275 of NH-45C under NHDP-IV on Hybrid Annuity Mode Basis
Name of Employer	National Highways Authority of India (NHAI) G-5 & 6, Sector-10, Dwarka, New Delhi -110075
Name of Concessionaire	Patel Cholopuram-Thanjavur Highway Pvt Ltd, Patel House, Beside Prakruti Resorts, Chanani Road, Vadodara. Gujarat- 391740 Tel: +91-265 277 6678 Fax: +91-265 277 7878
Independent Engineer	M/s. Theme Engineering Services Pvt. Ltd, 8, Thomaiyammal Nagar, 6 <sup>th</sup> Street, R.S College (Post), Thanjavur-613005.
EPC Contractor	M/s. Patel Infrastructure Limited, Patel House, Beside Prakruti Resorts, Chanani Road,Vadodara Gujarat- 391740, Tel: +91-265 277 6678 Fax: +91-265 277 7878
Design Consultant	CTL Global Services Pvt. Ltd. 101, 1ST Floor, Krishna Chambers, HAL, Airport Road, Bangalore-560017
Senior Lender	Punjab National Bank, Large Corporate Branch, Neelkamal Building, Opp. Sales India, Ashram Road, Ahmedabad - 380009
Lenders Independent Engineers	Sharul Techno-Financial Consultancy Services Pvt. Ltd., 403, Aspire Tower 5, Amanora Park Town, Hadapsar, Pune - 411028.
Length of Road (Design Length)	47.835 Kms.
Total Bid Cost	Rs. 1345.60 Crores (as per concession agreement)
Date of Concession Agreement	October 12, 2017
Concession Period	17 Years ( Construction Period 2 Years from Appointed date, Operation period 15 years from COD)
Appointed Date	06.09.2018
Construction Period	02 years from Appointed date
Completion Date	04.09.2020
Maintenance Period	15 years from COD

## 1.2. Salient Project Features

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

4 - Lane Divided Carriage Way	47.835 Kms
Service Road/ Slip Road	27.100 Kms
Major Bridge	06 Nos.
Minor Bridge	56 Nos.
Grade Separate Intersection	06 Nos.
Vehicular Underpass	10 Nos.
Pedestrian Underpass	02 Nos.
Rail-road Bridges	01 Nos
Box Culverts	74 Nos.
Slab Culverts	29 Nos.
Major Intersections	20 Nos.
Minor Intersections	22 Nos.
Bus Bays	05 Nos.
Rest Area	01 Nos
Toll Plaza	01 Nos.

### 1.3. Contractual Project Milestones

Following is a listing of the Key Project Milestones:

Mile Stone	Description	Target Date
Mile Stone-I	Concessionaire shall expended not less than 20 % of the Total capital cost and shall have commenced construction of the project and achieved 20% of physical progress on 214 <sup>th</sup> day from the Appointed Date.	07 <sup>th</sup> April 2019
Mile Stone-II	Concessionaire shall expended not less than 35% of the Total capital cost and shall have commenced construction of the project and achieved 35% of physical progress on 334 <sup>th</sup> day from the Appointed Date	05 <sup>th</sup> August 2019
Mile Stone-III	Concessionaire shall expended not less than 75 % of the Total capital cost and shall have commenced construction of the project and achieved 75% of physical progress on 584 <sup>th</sup> day from the Appointed Date	11 <sup>th</sup> April 2020
Scheduled Completion	Concessionaire shall have completed Project on 730 <sup>th</sup> day from the Appointed Date	04 <sup>th</sup> September 2020

### 1.4. Payment milestone during Construction Period

Payment Mile Stone	Eligibility Criteria	Payment Amount (Rs.)
Mile Stone-I	On Achievement of 10% of Physical Progress	107.65 Crs.
Mile Stone-II	On Achievement of 30% of Physical Progress	107.65 Crs.
Mile Stone-III	On Achievement of 50% of Physical Progress	107.65 Crs.
Mile Stone-IV	On Achievement of 75% of Physical Progress	107.65 Crs.
Mile Stone-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	Distt. Mining Officer	Obtained	We have engaged Agate Infra Engineering for supply of boulders that is having a valid license for extraction of boulders and other required permission for the quarry at Kalpadi Village, Perambalur District.
2	Installation of Crusher	Village Panchayat Head	Obtained	
3	-----D O-----	Pollution Control Board	Obtained	
4	Use of Explosives	Distt. Collector	Obtained	
5	Labour License	Labour Commissioner	Obtained	
6	Environmental Clearance		NA	
7	Trees Cutting Permission	Forest department through NHAI	Obtained	Work in Progress, Felling Permission issued except Teak wood trees
8	Electric Poles Shifting	Tamilnadu Electricity Board	In progress	14 Nos. Estimates for shifting of electrical poles and transformers have been obtained from the concerned department in respect of Thanjavur District. All the 14 No of Estimates are approved by Competent Authority.  Estimate for shifting of 03 towers has to be obtained from TANTRASCO. Joint inspection completed with filed officers.
9	Water Pipes Shifting	Tamilnadu Water Supply and Drainage Board	In progress	30 Nos. Estimates have been received from Kumbakonam Union, 01 Estimate from Darasuram Municipality and 1 estimate from EE, TWAD Thanjavur has been received. All the estimates are approved by the RO, NHAI Madurai.
10	Drawing Water from river/ reservoir	-	NA	-

## 2.1. Land Acquisition

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

	Design Chainage (Km)	Design Length (Km)	Width (m)	Remarks
(i) Full Right of Way (full width)				
Stretch	116.440 to 117.600	1.160	30	Within 15 (Fifteen) days from the date of Agreement.
Stretch	117.600 to 120.000	2.400	60	
Stretch	120.000 to 134.000	14.000	30	
Stretch	134.000 to 164.275	30.280	60	
Total Length		47.835		

	Design Chainage (Km)	Design Length (Km)	Width (m)	Remarks
Stretch	116.440 to 117.600	1.160	30	Within 90(Ninety) days of the Appointed date
Stretch	120.000 to 120.340	0.34	20	
Stretch	124.700to 126.100	1.40	20	
Stretch	126.700 to 127.655	0.95	20	
Stretch	130.600 to 134.000	3.40	20	
Total Length		7.250		

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

Sl. No.	Description	Unit	Present Status	Remarks
A )	Total Length of the Project Highway	Km	47.835	
i)	Use of Existing Road Portion	Km	15.835	
ii)	Proposed Bypass / Realignment portion	Km	32.000	
B )	Hindered Length			
i)	LA Issues	Km	8.820	
ii)	Existing Buildings	Km	2.515	
iii)	Pending for Disbursement of Payment	Km	5.475	
iv)	Electrical Lines	Km	8.790	
v)	Rural Water Supply lines	Km	11.205	
C )	Net Hindered Length (both Side)	Km	21.890	
D )	Total Project Length (both Side)	Km	47.835	
E )	% Hindered Length	%	45.76%	

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

The status of compensation disbursed is as below: -

Table 2.1-3: Compensation disbursement for land					
Sl No.	Name of the District	Total No. of Land cases	Amount paid (in Nos.)	Balance to be Paid (in Nos.)	Remarks
1	Thanjavur	1467	1039	428	
	Total in Nos.	1467	1039	428	
	Total in %		70.82%	29.17%	

Table 2.1-4 - Compensation disbursement for Structures					
Sl No.	Name of the District	Total No. of structures	Amount paid (in Nos)	Balance to be Paid (in Nos)	Remarks
1	Thanjavur	723	541	182	
	Total in Nos	723	541	182	
	Total in %		74.82%	25.18%	

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

## 2.2. Removal of Religious Structures

The following structures coming within the ROW are to be demolished

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

## 2.3. Shifting of Utilities and Electrical HT/LT Lines

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

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

Table 2.3-2: Status of sanction of Estimates - Electrical Lines Relocation							
Sl. No	Name of the District	Chainages			Number of Estimates	Present Status	Remarks
		From	To	Length in Km			
1	Thanjavur	116+440	164+275	47.835	14	Work in Progress	

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

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

Table 2.3-3: Status of Utility Relocation							
Sl. No.	Authority	Description	Unit	Total Length/ Nos.	Work done	Balance	Remarks
1	BDO & EE,TWAD	Water Supply Pipe Line	Kms.	31.04	0	31.04	
2	BDO of Concern Union	Hand Pump/Pump Room with Bore well	Nos.	16	0	16	
3	BDO of Concern Union	Over Head Tank	Nos.	2	0	2	
4	TNEB	Electrical Lines	Kms.	19.215	10.425	8.790	Work in Progress

## 2.4. Tree felling

Sl.No	Name of the District	Chainages			Effectuated Length in Kms	Total No. of Trees	Felled/Removed as on Date	Balance no. of Trees	Remarks
		From	To	Length in Km					
1	Thanjavur	116+440	164+275	47.837	15.310	1461	913	548	Work in Progress.
Total				47.835					



Table 2.1.5 - Details of Stretches Under Hindrance

Sr No.	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Type	Remarks
			From	To				
1	30	Houses (2 nos), Electrical Pole & Trees	116+440	116+470	Houses (6 nos), Mango farm, Coconut farm & Electrical Pole (2 nos)	30	Houses	
2	30	Houses (3 nos), Electrical Pole (2 nos) & Trees	116+470	116+500	Bus shelter & Electrical Transformer	30	Bus Shelter	
3	20	Houses (2 nos), Electrical Pole & line crossing & Trees	116+500	116+520	Houses (5 nos), & Coconut Trees (6 nos)	20	Houses	
4	60	Houses (6 nos), Culvert & Trees	116+520	116+580	Trees	60	Houses	
5	20	Electrical Pole & Trees	116+580	116+600	Canal crossing, culvert & Trees	20	Electrical Utility	
6	50	Houses (4 nos), Electrical Pole & Trees	116+600	116+650	Canal crossing & Trees	50	Electrical Utility	
7	50	Houses (2 nos), Electrical Pole & Trees	116+650	116+700	Bore Well, Pump set, Electrical Pole & Trees	50	Bore well & Pump set	
8	50	Trees	116+700	116+750	Houses (7 nos), Electrical Pole & Trees	50	Houses	
9	50	Houses (6 nos), Electrical Pole & Trees	116+750	116+800	Houses (4 nos) & Coconut Trees	50	Houses	
10	50	Vinayagar Temple, Houses (7 nos) & Electrical Pole (3 nos)	116+800	116+850	Houses (5 nos), & Coconut Trees	50	Temple	
11	50	Houses (7 nos), Electrical Poles & Trees	116+850	116+900	Houses (8 nos) & Coconut Trees	50	Houses	
12	50	Houses (5 nos), Culvert, Electrical Poles & Coconut Trees	116+900	116+950	Houses (6 nos) & Coconut Trees	50	Houses	
13	30	Houses (2 nos), Electrical Pole (3 nos) & Trees	116+950	117+980	Coconut Trees & Nala	30	Houses	
14	20	Houses (2 nos), Electrical Poles & Trees	116+980	117+000	Coconut Trees, Fencing & Electrical Pole	20	Houses	
15	50	Houses (7 nos), Electrical Pole (4 nos) & Trees	117+000	117+050	Church & Shops (3 nos)	50	Church	
16	50	Houses (5 nos), Electrical Poles & Trees	117+050	117+100	Houses (7 nos), Electrical Poles & Trees	50	Houses	
17	20	Houses (3 nos), Electrical Pole & Trees	117+100	117+120	House (2 nos), Pond & Trees	20	Houses	
18	30	Temple, Bus shelter, Houses (4 nos), Electrical Pole & Trees	117+120	117+150	House (2 nos), Pond & Trees	30	Houses	
19	50	Houses (8 nos), Electrical Poles (3 nos) & Trees	117+150	117+200	Houses (6 nos), Ration Shop, Electrical Poles, Trees & Pond	50	Houses	
20	50	Temple, Houses (2 nos) & Coconut Trees	117+200	117+250	Houses (9 nos), Electrical Poles & Trees	50	Houses	
21	50	Houses (3 nos), Electrical Poles & Trees	117+250	117+300	Houses (2 nos), Electrical Poles & Trees	50	Houses	
22	50	Houses (3 nos), Electrical Poles & Trees	117+300	117+350	Houses (3 nos), Electrical Poles & Trees	50	Houses	
23	50	Houses (4 nos), Electrical Poles & Trees	117+350	117+400	Houses (4 nos), Electrical Poles & Trees	50	Houses	
24	50	Houses (5 nos), Electrical Poles & Trees	117+400	117+450	Houses (6 nos), Electrical Poles & Coconut Trees	50	Houses	
25	50	Houses (4 nos), Bus shelter, Water Tank, Electrical Poles & Trees	117+450	117+500	Houses (5 nos), Electrical Poles & Trees	50	Houses	
26	50	Houses (4 nos), Electrical Poles & Trees	117+500	117+550	Trees & Electrical Poles	50	Houses	
27	50	Trees & Electrical Poles	117+550	117+600	Houses (4 nos), Electrical Poles & Trees	50	Houses	
28	50	Houses (5 nos), Electrical Poles & Trees	117+600	117+650	Houses (3 nos), Electrical Poles & Trees	50	Houses	
29	50	House (5 nos), Coconut farm, Electrical Pole (3 nos) & Line crossing & Trees	120+000	120+050	House, Electrical Pole (3 nos) & Trees	50	Electrical Utility	
30	50	House (3 nos), Teak wood Trees	120+050	120+100	Bus shelter, House (3 nos), Electrical Pole (3 nos) & Teak wood Trees	50	Houses	
31	50	Temple, House (3 nos), Electrical Pole & Coconut farm	120+100	120+150	House (3 nos), Electrical Poles (2 nos) & Coconut Trees	50	Houses	
32	50	Coconut farm, Trees	120+150	120+200	Houses (2 nos), Electrical Pole & Trees	50	Houses	
33	50	Coconut farm, Pond & Trees	120+200	120+250	Temple, Houses (2 nos) & Electrical Pole	50	Temple	
34	30	Houses (2 nos), Electrical Pole, Culvert & Coconut farm	120+250	120+280	Houses (3 nos), Electrical Poles & Coconut farm	30	Houses	
35	20	Houses (1 no.), Electrical Pole, Culvert, Nala & Coconut farm	120+280	120+300	Houses (2 nos), Electrical Poles & Coconut farm	20	Houses	
36	50	Houses (4 nos), Electrical Poles & Coconut farm	120+300	120+350	Houses (3 nos), Electrical Poles, Culvert & Trees	50	Houses	
37	50	Shops, Electrical Pole & Coconut farm	120+350	120+400	House, Electrical Pole & Teak wood Trees	50	Houses	
38	50	Houses (2 nos), Electrical Poles & Coconut Trees	120+400	120+450	Houses (4 nos), Petrol Pump, Electrical Poles (2 nos) & Coconut Trees	50	Petrol pump	
39	50	Houses (2 nos), Shops, Coconut & Teak wood Trees	120+450	120+500	Houses (3 nos), Electrical Poles & Trees	50	Houses	
40	50	Houses (8 nos), Electrical Poles, Coconut & Teak wood Trees	120+500	120+550	Houses (8 nos), Electrical Poles, Coconut & Teak wood Trees	50	Houses	
41	50	Houses (4 nos) & Coconut farm	120+550	120+600	House (1 no.), Electrical Pole & Coconut Trees	50	Houses	
42	50	Houses (6 nos), Fencing, Electrical Pole, Coconut & Teak wood Trees	120+600	120+650	Houses (5 nos), Fencing, Electrical Pole, Coconut, Mango Trees & Fish Pond	50	Houses	
43	30	Houses, Coconut & Teak wood Trees	120+650	120+680	Pond & Trees	30	Houses	
44	40	Shops, Coconut & Teak wood Trees	120+680	120+720	Next crop planted & Fencing	40	Shops	
45	80	Next crop planted, Electrical Poles & Trees	120+720	120+800	House (1 no.), Transformer, Electrical Poles (4 nos) & Trees	80	Electrical Utility	
46	50	Houses (3 nos), Culvert & Trees	120+800	120+850	Houses (2 nos), Electrical Poles (3 nos) & Trees	50	Houses	
47	30	Houses (3 nos), Electrical Poles & Trees	120+900	121+930	Houses (1 no.), Fencing, Electrical Pole (4 nos) & Trees	30	Houses	
48	20	Preparing for next crop, Electrical Pole & Trees	121+930	121+950	Houses (2 nos), Electrical Pole (2 nos) & Trees	20	Electrical Utility	

Sr No.	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Type	Remarks
			From	To				
49	50	Electrical Pole & Trees	121+950	121+000	Houses (2 nos), Electrical Pole (2 nos) & Trees	50	Houses	
50	10	Electrical Pole & Trees	121+050		Transformer, Electrical Poles (3 nos) & Trees	20	Electrical Utility	
51	-	-	121+100		Electrical Pole	10	Electrical Utility	
52	50	Cocunut Trees, Teak wood Trees & Jungle	121+150		Electrical Pole & Trees	20	Electrical Utility	
53	50	Bus shelter, Houses (3 nos), Electrical Poles (2 nos) & Trees	121+200	121+250	Bus shelter, Trees & Jungle	50	Bus Shelter	
54	50	House (1 no.), Electrical Pole & Trees	121+250	121+300	House (3 no.), Electrical Poles (5 nos) & Trees	50	Houses	
55	50	Electrical Pole, Trees & Jungle	121+300	121+350	House (2 nos), Electrical Pole & Trees	50	Houses	
56	80	Electrical Pole, Trees & Jungle	121+350	121+430	Houses (9 nos), Electrical Poles (3 nos) & Trees	80	Houses	
57	70	Electrical Poles, Trees & Jungle	121+430	121+500	Electrical Poles, Trees & Jungle	70	Electrical Utility	
58	50	House (1 no.), Electrical Poles, Trees & Jungle	121+500	121+550	Electrical Poles, Culvert, Trees & Jungle	50	Electrical Utility	
59	70	Temple, Houses (3 nos) & Cocunut Trees	121+550	121+620	Houses (2 nos), Electrical Pole, Mango Trees & Jungle	70	Temple	
60	60	Shops, Houses, Electrical Poles, Cocunut Trees, Jungle & Culvert	121+620	121+680	Cocunut Trees (12 nos), Trees & Jungle	60	Houses	
61	40	Pump set, Structure & Cocunut Trees (8 nos)	121+680	121+720	Electrical Pole & Trees	40	Pump house	
62	20	Trees & Jungle	121+720	121+800	Electrical Pole	10	Electrical Utility	
63	50	Transformer, Electrical Poles & Trees	121+800	121+850	Church Gate, Boundary Wall	50	Compound Wall	
64	15	Transformer, Electrical Poles (4 nos)	121+930		Electrical Poles (2 nos)	15	Electrical Utility	
65	20	Electrical Poles, existing bridge structure & Trees	122+020		Electrical Pole & Trees	10	Electrical Utility	
66	-	River crossing & Trees	122+030		River crossing & Trees	-	Trees	
67	-	-	122+080		Temple, Electrical Pole, Canal & Baniyan Trees	25	Temple	
68	20	Electrical Pole & Trees	122+130		Trees (3 nos)	20	Electrical Utility	
69	15	Electrical Poles, Canal, Banana farm & Teak wood Trees	122+200		Pump set & Electrical Poles	15	Pump set	
70	80	Banana farm, Canal, Teak wood Trees, Transformer & Electrical Poles	122+220	122+300	Teak wood Trees, Electrical Pole & Banana farm	80	Electrical Utility	
71	100	Electrical Poles, Teak wood Trees & Canal	122+300	122+400	HP Petrol Bunk & Electrical Poles	100	Petrol pump	
72	100	Canal, Teak wood Trees	122+400	122+500	Cocunut farm, Canal, Teak wood Trees	100	Trees	
73	100	Small structure (Entrance Arch), Teak wood Trees & canal	122+500	122+600	Teak wood Trees & Jungle	100	Compound Wall	
74	120	Teak Wood Trees, Canal & Jungle	122+700	122+820	-	-	Trees	
75	20	Teak wood Trees, Electrical Pole & Existing bridge structure (On Branch Road)	122+820		Bus shelter, Electrical Poles & Trees	15	Bus Shelter	
76	10	Teak wood Trees & Canal	122+900		Electrical Pole & Jungle	10	Electrical Utility	
77	100	Canal & Teak wood Trees	122+900	123+000	Electrical Pole, Trees & Jungle	100	Electrical Utility	
78	150	Collage Boundary & Arch Structure, Lighting Posts & Canal crossings	123+000	123+150	Electrical Poles (3 nos)	150	Compound Wall	
79	70	Canal, Teak wood Trees & Jungle	123+230	123+300	Transformer, Electrical Poles (3 nos) & Trees	70	Electrical Utility	
80	50	Electrical Pole & line crossing, Teak wood Trees, Existing Culvert & Jungle	123+300	123+350	Electrical Poles & Trees & Jungle	50	Electrical Utility	
81	180	Electrical Pole, Teak wood Trees & Jungle	123+440	123+620	Electrical Poles, Trees & Jungle	180	Electrical Utility	
82	20	Teak wood Trees & Jungle	123+650		Electrical Poles, Canal, Trees & Jungle	20	Electrical Utility	
83	30	Houses (2 nos) & Trees	123+700		Electrical Poles, Trees & Jungle	10	Houses	
84	-	Electrical Poles, Trees & Jungle	123+750		Electrical Poles, Trees & Jungle	15	Electrical Utility	
85	25	Temple & Trees	123+850		Bus shelter, Godown, Overhead Tank & Electrical Poles	25	Temple	
86	10	Canal crossing & Trees	123+900		Pump set & Electrical Poles	15	Pump set	
87	20	Houses (3 nos), Electrical Pole (2 nos) & Trees	123+950		Transformer, Electrical Poles (4 nos) & Trees	20	Houses	
88	50	Trees (10 nos) & Jungle	124+100	124+150	-	-	Trees	
89	-	-	124+250	12+310	Transformer, Electrical Pole (6 nos) & Trees	60	Electrical Utility	
90	-	-	124+550		Pump house, Electrical Pole & Trees (3 nos)	30	Pump house	
91	70	Fencing, Electrical Poles & Trees (20 nos)	124+880	124+950	Trees (12 nos) & Electrical Poles	70	Electrical Utility	
92	100	House, Hut (4 nos), Transformer	124+950	125+050	Electrical Poles & Fencing	100	Houses	
93	50	Trees	125+050	125+100	Fencing	50	Trees	
94	100	Trees (14 nos)	125+100	125+200	Trees (4 nos)	100	Trees	
95	50	Electrical Poles (2 nos)	125+300	125+350	Trees (3 nos)	50	Electrical Utility	
96	50	Bore well, Watertap, Electrical Pole & line crossing, Advertisement board & Trees	125+350	125+400	Electrical Pole & line crossing, Encroachment	50	Houses	
97	50	Trees (10 nos) & Jungle	125+400	125+450	Advertisement board	50	Trees	
98	50	House (5 nos), Electrical Poles & Trees	125+450	125+500	House (2 nos), Electrical Poles & Trees	50	Houses	
99	50	House (3 nos), Electrical Poles & Trees	125+500	125+550	House (4 nos), Electrical Poles & Trees	50	Houses	
100	50	House (4 nos), Electrical Poles & Trees	125+550	125+600	House (3 nos), Electrical Poles & Trees	50	Houses	
101	50	House (3 nos), Electrical Poles & Trees	125+600	125+650	Temple, watertank, bore well, House (5 nos), Electrical Poles & Trees	50	Temple	

Sr No.	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Type	Remarks
			From	To				
102	50	House (3 nos), Electrical Poles & Trees	125+650	125+700	Demolished Govt building, House (3 nos), Electrical Poles & Trees	50	Houses	
103	100	Electrical Pole & Trees	125+700	125+800	Compound Wall	100	Compound Wall	
104	50	Houses (3 nos), Electrical Poles & Trees	125+800	125+850	Houses (4 nos), Electrical Poles & Trees	50	Houses	
105	50	Houses (4 nos), Electrical Poles & Trees	125+850	125+900	Houses (2 nos), Electrical Poles & Trees	50	Houses	
106	50	Govt building, House (1 no), Electrical Poles & Trees	125+900	125+950	Houses (3 nos), Electrical Poles & Trees	50	Houses	
107	100	House (1 no), Watertap & Trees	125+950	126+050	Houses (3 nos) & Trees	100	Houses	
108	50	Building, Hut (2 nos) & Trees (21 nos)	126+050	126+100	Temple, Houses (5 nos), Electrical Pole (4 nos) & Trees (13 nos)	50	Houses	
109	100	Electrical Poles, Pond & Trees	126+100	126+200	House, Electrical Pole & Trees	100	Houses	
110	100	Pond & Trees	126+400	126+500	Pond & Trees	100	Trees	
111	100	House (3 nos), Electrical Poles & Line crossing & Trees	126+600	126+700	House (3 nos), Electrical Poles & Line crossing & Trees	100	Houses	
112	100	Bus shelter, Fencing, Houses (4 nos), Electrical Pole & Trees (7 nos)	126+700	126+800	Rice Mill, Houses (4 nos), Hut, Electrical Pole & Trees (13 nos)	100	Houses	
113	100	Houses (4 nos), Hand pump, Transformer & Electrical Poles	126+800	126+900	Temple, Houses (4 nos), Electrical Pole (2 nos) & Trees (13 nos)	100	Houses	
114	100	Bus shelter, Pump house, Electrical Pole (4 nos) & Trees (13 nos)	126+900	127+000	Electrical Pole (4 nos), Telephone Pole, Sign board & Trees (14 nos)	100	Houses	
115	100	Pump house, Electrical Pole (2 nos), Trees (2 nos) & Hala	127+000	127+100	Electrical Pole (4 nos) & Trees (3 nos)	100	Pump house	
116	100	Building (4 nos), Electrical Pole (4 nos), Sign boards (4 nos) & Trees (14 nos)	127+100	127+200	Pump house, Electrical Poles (4 nos), Transformer, Sign boards & Trees (10 nos)	100	Houses	
117	100	Building (2 nos), Electrical Pole (9 nos), Sign boards (4 nos) & Trees (10 nos)	127+200	127+300	Arch, Compound Wall, Electrical Pole (5 nos) & Trees (3 nos)	100	Houses	
118	20	Electrical Pole (4 nos) & Line crossing	127+450	127+500	Electrical Pole (4 nos), Sign boards (2 nos) & Trees (2 nos)	20	Electrical Utility	
119	20	Electrical Pole (3 nos), Trees (3 nos) & Hala	127+500	127+650	Electrical Pole (4 nos), Transformer & Trees	20	Electrical Utility	
120	30	Commercial building (3 nos), Electrical Pole (6 nos) & Line crossing & Trees (3 nos)	127+650	127+800	Building Compound Wall, Electrical Pole (6 nos) & Trees (2 nos)	30	Compound Wall	
121	25	Fencing	127+800	127+900	Fencing & Electrical pole	25	Compound Wall	
122	40	Trees & Electrical Pole	127+900	128+000	Compound Wall & Electrical Pole	80	Compound Wall	
123	20	Trees (5 nos)	128+000	128+120	Pump house, Bore well, Transformer & Electrical Pole (3 nos)	30	Pump house	
124	10	Electrical Pole (1 no.)	128+120	128+200	Electrical Pole (4 nos)	40	Electrical Utility	
125	-	-	128+200	128+300	Electrical Pole (2 nos)	20	Electrical Utility	
126	25	Small Temple with Gate & Trees (4 nos)	128+300	128+350	Electrical Pole (2 nos)	20	Temple	
127	10	Tree	128+350	128+400	Electrical Pole (2 nos)	20	Electrical Utility	
128	15	Electrical Pole, Tree & Existing Culvert	128+400	128+500	Electrical Poles (3 nos)	30	Electrical Utility	
129	10	Tree	128+500	128+550	Electrical Poles (2 nos)	20	Electrical Utility	
130	-	-	128+550	128+600	Electrical Poles	10	Electrical Utility	
131	30	Trees & Jungle	128+600	128+700	Shops (6 nos) & Houses (2 nos), Electrical Poles (5 nos) & Trees	40	Houses	
132	60	Fencing, Trees & Jungle	128+700	128+800	-	-	Fencing	
133	40	Indian Oil Petrol Bunk, Small Temple, steel pole & Trees	128+800	128+900	Trees & Jungle	20	Petrol pump	
134	20	Under construction House, Electrical Pole (3 nos)	128+900	128+950	-	-	Electrical Utility	
135	50	Shops (9 nos), Transformer & Electrical Poles (5 nos)	128+950	129+000	Electrical Pole & Trees	20	Shops	
136	20	Electrical Pole (8 nos), Coconut farm & Jungle	129+000	129+120	Fencing, Electrical Poles (2 nos), Trees (2 nos) & Jungle	20	Electrical Utility	
137	30	Electrical Pole (3 nos), Street light & Steel arch	129+120	129+200	Under construction house, Trees & Jungle	40	Houses	
138	30	Electrical Pole, Trees & Jungle	129+200	129+300	Trees & Jungle	20	Electrical Utility	
139	30	Trees (4 nos)	129+300	129+480	Trees & Jungle	20	Trees	
140	30	Houses (6 nos), Trees & jungle	129+480	129+510	Electrical Poles (4 nos), Coconut Trees (10 nos) & Existing culvert	30	Houses	
141	40	Houses (2 nos), Electrical Pole & Jungle	129+550	129+620	Small Temple & Jungle	40	Houses	
142	30	Transformer, Electrical Poles (3 nos), Trees & Jungle	129+620	129+700	Electrical Pole & line crossing, Trees & Jungle	30	Electrical Utility	
143	50	Wooden work factory, Electrical Pole (4 nos), Trees & Jungle	129+700	129+750	Banana farm, Trees & Electrical Pole	50	Shops	
144	50	Trees (5 nos) & Existing Culvert	129+800	129+850	Shops (10 nos), Entrance Arch, Coconut Trees	50	Shops	
145	50	Fencing & Trees	129+850	129+900	Fencing & Teak wood Trees	50	Trees	
146	50	Building, Electrical Pole, Trees (4 nos)	129+900	129+950	Compound Wall, Electrical Pole & Trees	50	Houses	
147	20	Trees (4 nos) & Jungle	129+950	130+000	Transformer, Electrical Poles (2 nos) & Jungle	20	Electrical Utility	
148	20	Electrical Pole & Trees	130+000	130+120	Electrical Poles (5 nos), Arch & Trees	20	Electrical Utility	
149	60	Houses (4 nos), Electrical Pole (3 nos), Coconut & teak wood Trees	130+120	130+200	Houses (3 nos), Electrical Poles (4 nos) & Transformer	60	Houses	
150	50	Houses (2 nos), Electrical Pole & Trees (4 nos)	130+200	130+250	Houses (6 nos), Electrical Poles (2 nos) & Coconut Trees	50	Houses	
151	50	Houses Fencing (1 no), Electrical Pole & Trees (3 nos)	130+250	130+300	Houses (4 nos), Electrical Poles (2 nos) & Coconut Trees	50	Houses	
152	50	Shops, Electrical Pole & Trees	130+300	130+350	Compound Wall, Electrical Pole (3 nos) & Trees	50	Compound Wall	

Sr No.	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Type	Remarks
			From	To				
153	50	Houses (3 nos), Electrical Poles (2 nos) & Trees	130+350	130+400	Houses (6 nos), Electrical Poles (2 nos) & Trees	50	Houses	
154	50	Houses (7 nos), Electrical Poles (2 nos) & Trees	130+400	130+450	Houses (3 nos), Trees & Jungle	50	Houses	
155	50	Under construction building, Electrical Pole & Teak wood Trees	130+450	130+500	Fencing, Trees, Electrical Pole & Jungle	50	Houses	
156	20	Teak wood Trees & Jungle	130+500	130+550	Trees & Jungle	20	Trees	
157	20	Fencing, Trees & Jungle	130+550	130+600	Fencing Pole preparation shop, Trees & Jungle	20	Shops	
158	20	Trees & Jungle	130+600	130+700	Shops (6 nos), Electrical Poles (2 nos) & Trees	40	Shops	
159	30	House with Gate (1 no), Electrical Pole (3 nos),	130+700	130+780	Trees, Electrical Poles & Culvert structure	30	Houses	
160	10	Electrical Pole & Line crossing	130+780	130+800	Electrical Pole & Line crossing	10	Electrical Utility	
161	40	Trees (10 nos), Trees & Jungle	130+800	130+900	Trees (6 nos), Electrical Pole, Trees & Jungle	40	Electrical Utility	
162	20	Electrical Pole (3 nos), Existing culvert & Jungle	130+900	131+000	Arch, Existing culvert, Electrical Pole, Trees & Jungle	20	Electrical Utility	
163	20	Trees (7 nos) & Electrical Pole	131+000	131+100	Building (4 nos), Shop, Trees (3 nos), Electrical Pole & Trees	40	Shops	
164	20	Trees (6 nos) & Electrical Pole	131+100	131+200	Temple (1 no.), Trees (4 nos) & Jungle	25	Temple	
165	25	Hotel (1 no.) & Electrical Pole (2 nos)	131+200	131+300	Trees (3 nos) & Electrical Pole	20	Hotel	
166	30	Carpenter Shop, Electrical Pole (4 nos) & Jungle	131+300	131+400	Under construction building, Electrical Pole, Pump set, Trees & Jungle	30	Houses	
167	40	Electrical Poles (2 nos), Teak wood Trees & Jungle	131+400	131+500	Electrical Pole, Existing culvert & Jungle	35	Electrical Utility	
168	20	Fencing, Trees (6 nos) & Jungle	131+500	131+600	Marble show room, Electrical Poles & Line crossing (2 nos), Trees & Jungle	40	Shops	
169	20	Fencing, Electrical Poles (2 nos), Existing culvert & Jungle	131+600	131+700	Electrical Pole, Trees & Jungle	20	Electrical Utility	
170	40	High mast light, Sign boards, Houses (4 nos), Electrical Poles (3 nos) & Trees (8 nos)	131+700	131+800	Advertisement board, Fencing, Houses (4 nos), Electrical Poles (2 nos) & Trees	40	Houses	
171	20	Houses (4 nos), Over head tank, Coconut Trees & Jungle	131+800	131+920	Trees & Jungle	20	Houses	
172	30	River crossing & Trees	131+920	132+000	River crossing & Trees	30	Trees	
173	40	Coconut farm	132+000	132+100	Trees & Jungle	40	Trees	
174	60	Banana farm & Trees (10 nos)	132+100	132+200	Trees & Jungle	40	Trees	
175	50	Houses (3 nos), Shop (1 no.) & Electrical Pole	132+200	132+250	Electrical Pole, Trees & Jungle	50	Houses	
176	50	Banana farm	132+250	132+300	Coconut farm	50	Trees	
177	60	House, Teak wood Trees, Banana & Coconut Trees	132+300	132+400	Teak wood Trees, Banana & Coconut Trees, Electrical Pole & Jungle	60	Houses	
178	40	Shop & Godown, Fencing with Gate	132+400	132+500	Teak wood Trees, Banana & Coconut Trees, Electrical Pole & Jungle	50	Shops	
179	30	Teak wood Trees & Trees (6 nos)	132+500	132+600	Compound wall, Trees (6 nos) & Jungle	30	Trees	
180	30	Bore well, Pump set, Electrical Poles (9 nos) & Line crossing & Trees	132+600	132+730	Under construction House (1 no.), Electrical Poles (4 nos) & Line crossing & Trees	30	Bore well & Pump set	
181	25	Overhead Water Tank	132+730	132+800	Trees & Jungle	20	Water Tank	
182	50	Trees & Jungle	132+800	132+900	Coconut farm, Electrical Poles (2 nos), Teak wood Trees & Jungle	50	Electrical Utility	
183	100	Banana farm, Pump set & Trees	132+900	133+000	Pump set, Banana farm, Electrical Poles (2 nos) & Line crossing & Coconut Trees	100	Electrical Utility	
184	100	Motor garage shop, Electrical Pole (2 nos) & Banana farm	133+000	133+100	Coconut Trees, Existing culvert & Jungle	100	Electrical Utility	
185	45	Temple, Hand pump, 1 no. of buildings, Electrical Poles (2 nos) & Trees	133+100	133+150	Electrical Poles (2 nos) & line crossing & Trees	20	Temple	
186	50	High mast light, 3 no. of buildings, Electrical Poles (4 nos) & Trees	133+150	133+200	Houses (3 nos), Street lighting pole, Electrical Poles (2 nos) & Trees	50	Shops	
187	40	Houses (3 nos), Mango & Coconut Trees & Electrical Pole (1 no)	133+200	133+280	Trees (6 nos) & Jungle	40	Trees	
188	30	River crossing & Trees (Approached)	133+280	133+350	River crossing & Trees (Approached)	30	Trees	
189	50	Coconut farm, Pump set & Trees	133+350	133+400	Trees & Jungle	50	Trees	
190	50	Compound wall, Electrical Pole & Trees (7 nos)	133+400	133+500	Trees, Existing culvert & Jungle	30	Trees	
191	60	Hotels (2 nos), Electrical Poles (2 nos) & Trees	133+500	133+600	School compound wall Fencing & Trees (12 nos)	50	Hotel	
192	30	Houses (2 nos), Electrical Pole (1 no.), School compound wall fencing	133+600	133+700	Compound wall, Transformer, Electrical Poles (2 nos), Arch & Trees (10 nos)	60	Houses	
193	40	Compound Wall, Electrical Pole, Trees & Jungle	133+700	133+750	House (1 no.), Pond, Compound wall, building & Electrical Poles & Trees	40	Electrical Utility	
194	30	House, Electrical Pole, Trees & Jungle	133+750	133+800	House, Electrical Poles & Trees	30	Houses	
195	50	Houses (3 nos), Trees & Jungle	133+800	133+900	House (1 no.), Electrical Poles (3 nos), Trees & Jungle	40	Houses	
196	30	Sign boards, Houses (2 nos), Building, Electrical Poles (2 nos)	133+900	133+950	Shops, Lighting Poles (2 nos) & Electrical Poles (2 nos)	30	Electrical Utility	
197	30	High mast light, Sign boards & Electrical Poles	133+950	134+000	High mast light, Sign boards & Electrical Poles	30	Electrical Utility	
198	-	-	134+000	Commercial Building	15	Shops		
199	10	Electrical Pole	134+030	Mayanam	10	Electrical Utility		
200	30	House & Trees	134+080	House & Trees	30	Houses	Encroachment	

Sr No.	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Type	Remarks
			From	To				
201	10	Electrical Pole	134+100		Tree	10	Electrical Utility	
202	10	Electrical Pole	134+120		-	-	Electrical Utility	
203	10	Electrical Pole	134+200		-	-	Electrical Utility	
204	10	Electrical Pole	134+280		-	-	Electrical Utility	
205	10	Electrical Pole	134+300		House	30	Houses	
206	30	Pond & Trees	134+350		Electrical Pole	10	Electrical Utility	
207	-	Railway Crossing	134+380		Railway Crossing	-		ROB @ CH: 134+345
208	10	Electrical Pole & Line Crossing & Pump house	134+700		Standing Crop		Electrical Utility	
209	20	Regulator & Trees	134+710		-	-	Trees	water regulator sluice to be relocated
210	10	Electrical Pole & Line Crossing	135+000		Electrical Pole & Line Crossing	10	Electrical Utility	
211	10	Electrical Pole & Line Crossing	135+100		Electrical Pole & Line Crossing	10	Electrical Utility	
212	10	Electrical Pole & Line Crossing	135+200		Electrical Pole & Line Crossing	10	Electrical Utility	
213	40	HT Tower & Banana Farm	135+400		Banana Farm & Trees	40	Electrical Utility	
214	10	Electrical Pole	135+410		Electrical Pole	10	Electrical Utility	
215	20	Electrical Pole & Trees	135+550		Well & Trees	20	Well	
216	10	Electrical Pole & Line Crossing	135+600		Electrical Pole & Line Crossing	10	Electrical Utility	
217	10	Electrical Pole & Line Crossing	135+750		Electrical Pole & Line Crossing	10	Electrical Utility	
218	50	Cocunut trees	135+800		Cocunut trees	50	Trees	
219	50	Electrical Pole & Line Crossing, Standing Crop & Trees	135+500		Electrical Pole & Line Crossing	20	Electrical Utility	
220	10	Electrical Pole & Line Crossing	136+100		Electrical Pole & Line Crossing	10	Electrical Utility	
221	100	Cocunut farm & Electrical Pole	136+150	136+250	Cocunut farm & Electrical Pole	100	Electrical Utility	
222	10	Road crossing, Electrical pole & Trees	136+300		Patteswaram to Swamimalai Road	10	Electrical Utility	VUP @ CH: 136+282
223			136+660	136+700	Electrical Tower & Vegetable farm	40	Electrical Utility	
224	10	Electrical Pole & Line crossing	137+040		Electrical Pole & Line crossing	10	Electrical Utility	
225	20	Road crossing & Electrical pole	137+100		House & Trees	20	Houses	
226	-	-	137+150		Electrical Pole	10	Electrical Utility	
227	10	Electrical Pole	137+250		-	-	Electrical Utility	
228	150	Standing Crop, Teak wood Trees & Electrical Pole	137+400	137+550	Standing Crop & Teak wood Trees & Electrical Pole	150	Electrical Utility	
229	70	Standing crop, Transformer, Electrical Pole & Trees	137+550	137+620	Standing crop, Road crossing (Patteswaram to Sundaraperumalkoil) & Trees	70	Electrical Utility	
230			137+620	137+700	Standing crop & Electrical Pole	80	Trees	
231	10	Electrical Pole & Line Crossing	137+850		Electrical Pole & Line Crossing	10	Electrical Utility	
232	10	Electrical Pole	137+900		Electrical Pole	10	Electrical Utility	
233	60	Pump set, Banana farm, Cocunut farm & Teak wood Trees	138+240	138+300	Banana farm, Cocunut farm & Teak wood Trees	60	Pump set	
234	150	Mango farm & Teak wood Trees	138+300	138+450	Pump set, Mango farm & Teak wood Trees	150	Pump set	
235	100	Pump set, Banana farm, Cocunut farm & Canal crossing	138+450	138+550	Pump set, Banana farm, Cocunut farm & Canal crossing	100	Trees	
236	50	Fish pond, Banana farm & Trees	138+620	138+670	Pump set, Fish pond, Banana farm & Trees	50	Fish Pond	
237	10	Electrical Pole & Line Crossing & Trees	138+680		Electrical Pole & Line Crossing & Trees	10	Electrical Utility	
238	20	Road Crossing, Trees & EB Pole	138+730		Patteswaram to Papanasam Road, Trees	20	Electrical Utility	
239	20	Cocunut farm, Electrical Pole & Trees	138+730	138+750	Cocunut farm, Electrical Pole & Trees	20	Electrical Utility	
240	50	Houses (7 nos), Trees & Electrical Poles	138+750	138+800	Cocunut farm, Banana farm & Teak wood Trees	50	Houses	
241	100	River crossing & Trees	138+850	138+920	River crossing & Trees	100	Trees	Minor bridge @ CH: 138.901
242	120	Cocunut Trees & Banana Trees	139+280	139+400	Cocunut Trees & Banana Trees	120	Trees	
243	20	Electrical Poles & Line Crossing, Road crossing & Trees	139+450		Electrical Poles & Line Crossing, Road crossing & Trees	20	Electrical Utility	
244	-	-	139+460		Sump, Pump house & Bore Well	30	Pump house	
245	10	Electrical Pole & Line Crossing	139+680		Electrical Pole & Line Crossing	10	Electrical Utility	
246	10	Electrical Pole & Line Crossing	139+950		Electrical Pole & Line Crossing	10	Electrical Utility	
247	10	Electrical Pole & Line Crossing	139+970		Electrical Pole & Line Crossing	10	Electrical Utility	
248	10	Electrical Pole & Line Crossing	140+290		Electrical Pole & Line Crossing	10	Electrical Utility	
249	10	Electrical Pole	140+820		-	-	Electrical Utility	
250			140+860		Canal Crossing & Trees	20	Trees	
251			140+900		EB Pole & Line Crossing	20	Temple	
252			141+102		Hallur to Avuru Road	15	Trees	
253			141+130	141+220	EB Pole & Line Crossing	90	Electrical Utility	
254	100	Cocunut Trees & Electrical pole	141+300	141+400	Cocunut Trees & Electrical pole	100	Electrical Utility	
255	-	Electrical Pole & Line Crossing & Trees	141+330		Electrical Pole & Line Crossing & Trees	-	Electrical Utility	
256	10	Electrical Pole & Line Crossing	141+740		Electrical Pole & Line Crossing	10	Electrical Utility	
257	10	Electrical Pole & Line Crossing	141+760		Electrical Pole & Line Crossing	10	Electrical Utility	
258	10	Electrical Pole & Line Crossing	141+900		Electrical Pole & Line Crossing	10	Electrical Utility	
259	-	Road crossing	142+000		Kotaichery to Kalachery	-		
260	20	Bore well, Pump house & Trees	142+260		EB Pole & Line Crossing	10	Bore well & Pump house	
261	20	Bore Well	142+500		Electrical Pole & Line Crossing	10	Bore well	
262	-	-	142+670		Pump set & Trees	20	Pump set	

Sr No.	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Type	Remarks
			From	To				
263	20	High Tension Tower	142+850	-	-	-	Electrical Utility	
264	10	Bore Well	142+850	-	-	-	Bore well	
265	-	-	143+100	-	High Tension Tower	20	Electrical Utility	
266	40	Pump set & Bamboo trees	143+300	-	Bamboo trees	40	Pump set	
267	20	EB Pole & Trees	143+600	-	EB Pole & Trees	20	Electrical Utility	
268	-	-	143+850	-	Electrical Pole & Line Crossing & Trees	15	Electrical Utility	
269	15	Bore Well & Tree	144+450	-	-	-	Bore well	
270	50	Teak wood trees	144+750	-	Teak wood trees	50	Trees	
271	15	Trees	145+100	-	Trees	15	Trees	
272	-	-	145+520	-	Pump Set & Electrical Pole	20	Pump set	
273	10	Electrical Pole & Line Crossing	146+000	-	Electrical Pole & Line Crossing	10	Electrical Utility	
274	20	Pump set	146+050	-	Electrical Pole & Line Crossing	10	Pump set	
275	10	Electrical Pole & Line Crossing	146+070	-	-	-	Electrical Utility	
276	-	-	146+130	-	Electrical Pole & Line Crossing	10	Pump set	
277	10	Electrical Pole	146+200	-	-	-	Electrical Utility	
278	20	Trees & Electrical Pole	146+300	-	Trees & Electrical Pole	20	Electrical Utility	
279	-	River Crossing	146+630	-	River Crossing	-	Trees	
280	20	Electrical Pole & Line Crossing	146+700	146+720	Electrical Pole & Line Crossing & Trees	20	Electrical Utility	
281	10	Ihala Crossing, Trees & Electrical Pole	146+780	-	Ihala Crossing, Trees & Electrical Pole	10	Electrical Utility	
282	20	Pump set, River Crossing, Trees & Electrical Pole	146+830	-	River Crossing, Trees & Electrical Pole	20	Pump set	
283	20	Pump set	146+900	-	Trees & EB Pole	20	Pump set	
284	30	Ihala Crossing & Trees	146+900	-	Ihala Crossing & Trees	30	Trees	
285	-	-	146+980	-	Pump set & Standing Crop	80	Pump set	
286	15	Pump set	147+050	-	-	-	Pump set	
287	-	-	147+100	-	High Tension Tower	40	Electrical Utility	
288	-	-	147+200	-	Bore well & trees	15	Bore well	
289	20	High Tension Tower	147+330	-	-	-	Electrical Utility	
290	20	Bore well & Pump house	147+380	-	-	-	Bore well & Pump house	
291	30	Ihala Crossing & Trees	147+370	147+400	House	30	Houses	
292	-	-	147+410	147+450	Houses, Trees & Electrical Line	40	Electrical Utility	
293	20	Teak wood trees	147+520	-	Teak wood trees	20	Trees	
294	30	Trees	147+850	-	Trees	30	Trees	
295	30	Electrical Pole & Line Crossing	147+880	-	Electrical Pole & Line Crossing	30	Electrical Utility	
296	20	Road Crossing, Trees & EB Pole	147+900	-	Road Crossing, Trees & EB Pole	20	Electrical Utility	
297	-	-	147+900	148+020	Trees & EB Pole & Ihala crossing	120	Trees	
298	250	Banana Farm, Pump set & EB Pole	148+300	148+550	Banana Farm, Pump set & EB Pole	250	Pump set	
299	10	EB Electrical Pole	148+700	-	Trees (6 nos)	20	Electrical Utility	
300	20	Trees (2 nos) & Pump set	149+000	-	EB Electrical Pole & Line crossing	10	Pump set	
301	10	EB Pole & trees (5 nos)	149+100	-	Pump set & EB Pole	20	Pump set	
302	10	EB Electrical Pole	149+150	-	EB Electrical Pole	10	Electrical Utility	
303	10	EB Electrical Pole	149+200	-	-	-	Electrical Utility	
304	40	River crossing	149+300	-	-	-	Trees	
305	20	River crossing	149+400	-	-	-	Trees	
306	20	Pump set	149+900	-	Pump set & Electrical Pole	20	Pump set	
307	10	EB Pole & Line crossing	149+980	-	Pump set, EB Pole & Line Crossing & Trees (4 nos)	20	Pump set	
308	10	EB Pole & Line crossing	150+150	-	EB Pole & Line crossing	10	Electrical Utility	
309	10	EB Pole & Line crossing	150+210	-	-	-	Electrical Utility	
310	10	Trees (3 nos)	150+210	150+300	Trees (2 nos) & Pump set	10	Pump set	
311	10	EB Pole & Line crossing	150+460	-	EB Pole & Line crossing	10	Electrical Utility	
312	20	Pump house	150+610	-	EB Pole & Line crossing & Trees (2 nos)	10	Pump house	
313	70	River Crossing, Trees & EB Pole	150+780	-	Regulator & trees	70	Water Regulator	
314	10	EB Pole & Line crossing & Trees (2 nos)	151+000	-	EB Pole & Line crossing & Trees (2 nos)	10	Electrical Utility	
315	-	-	151+300	151+360	Electrical Pole	60	Trees	
316	130	Coconut Farm & Teak wood trees	151+500	151+630	Coconut Farm & Teak wood trees	130	Trees	
317	-	Trees	151+600	-	Small Temple (3 nos) & Trees (7 nos)	-	Temple	
318	20	Pump set & Electrical Pole & line crossing	151+650	-	Electrical Pole	20	Pump set	
319	10	Electrical Pole	151+830	-	-	-	Electrical Utility	
320	-	-	151+930	-	-	-	Pump set	
321	10	Electrical Pole	152+020	-	Electrical Pole	10	Electrical Utility	
322	10	Electrical Pole	152+100	-	Electrical Pole	10	Electrical Utility	
323	-	-	152+150	-	Jungle	20	Trees	
324	-	Road Crossing, Trees & EB Pole	152+350	-	Sulamangalam to Palasakudi	-	Electrical Utility	
325	-	-	152+400	152+500	Coconut Farm & Banyan trees	100	Trees	
326	-	Pump set, well & Electrical Pole	152+430	-	Pump set, well & Electrical Pole	-	Pump house	
327	20	Bore well & Pump house	152+730	-	Trees	-	Bore well & Pump set	
328	30	River crossing, Pump set & Trees	152+880	-	River crossing Trees	30	Trees	
329	20	Canal Crossing & Trees	152+900	-	Canal Crossing & Trees	20	Trees	
330	-	-	153+000	-	Tress (15 nos)	10	Trees	
331	20	EB Pole & Trees	153+280	-	Bore well & Pump set	20	Bore well & Pump set	
332	10	EB Pole & Trees	153+500	-	EB Pole & Trees	10	Electrical Utility	
333	10	Electrical Pole	153+550	-	Electrical Pole	10	Electrical Utility	
334	30	Bore well & Pump house	153+600	-	Electrical Pole & Trees	30	Bore well & Pump set	
335	60	Electrical Poles & Trees (4 nos)	153+630	-	Electrical Poles & Trees (4 nos)	60	Electrical Utility	
336	15	Electrical Tower	153+720	-	Electrical Pole & Trees	15	Electrical Utility	
337	15	Road crossing & Trees	153+900	-	Road crossing & Trees	15	Trees	
338	20	Canal Crossing & Trees	153+920	-	Canal Crossing & Trees	20	Trees	
339	15	Electrical Pole	154+050	-	Electrical Pole	15	Electrical Utility	
340	10	Electrical Pole	154+150	-	Electrical Pole	10	Electrical Utility	
341	40	Houses (6 nos), Electrical pole & Trees	154+590	154+630	Houses (6 nos), Electrical pole & Trees	40	Houses	

Sr No.	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Type	Remarks
			From	To				
342	120	Bamboo trees & trees & Canal crossing	154+630	154+750	Bamboo trees & trees & Canal crossing	120	Trees	
343	10	Electrical Pole	154+650		Electrical Pole & Trees	15	Electrical Utility	
344	90	Houses (4 nos) & Trees	154+680	154+770	Bamboo trees	90	Houses	
345	130	Cocunut Farm, River crossing & Electrical poles	155+950	155+080	Cocunut Farm, River crossing & Electrical poles	130	Electrical Utility	
346	80	Bore well & Pump house & Electrical Poles & 11 text crop planted due to dispute in compensation.	155+120	155+200	Electrical poles & Trees & 11 text crop planted due to dispute in compensation.	80	Bore well & Pump house	
347	80	Electrical Pole & 11 text crop planted due to dispute in compensation.	155+200	155+280	11 text crop planted due to dispute in compensation.	80	Electrical Utility	
348	100	Trees & 11 text crop planted due to dispute in compensation.	155+280	155+380	Bore well & trees & 11 text crop planted due to dispute in compensation.	100	Trees	
349	120	Cocunut trees (5 nos) & 11 text crop planted due to dispute in compensation.	155+380	155+500	Bore well & Electrical Pole & 11 text crop planted due to dispute in compensation.	120	Trees	
350	50	Cocunut Farm & Electrical Poles	155+700	155+750	Cocunut Farm & Electrical Poles	50	Trees	
351	10	Cocunut Farm, Pump set & Electrical poles	155+750	155+760	House, Cocunut Farm & Electrical Pole	10	Houses	
352	10	Pump set & Electrical poles	155+760	155+770	Road crossing	10	Electrical Utility	
353	20	Water tank & Trees	155+780		Trees	20	Trees	
354	10	Electrical Pole & Tree	155+950		Electrical Pole	10	Electrical Utility	
355	10	Canal crossing & Electrical Pole & Line crossing	156+000		Canal crossing & Electrical Pole & Line crossing	10	Electrical Utility	
356	10	Electrical Pole & line crossing	156+050		Electrical Pole & line crossing	10	Electrical Utility	
357	130	Canal crossing & trees	156+220	156+350	Canal crossing & trees	130	Trees	
358	40	Pump set, Electrical Pole & Trees	156+380	156+420	Jungle, Electrical Pole & Trees	40	Pump set	
359	20	Electrical Pole	156+420	156+440	Teak wood trees	20	Electrical Utility	
360	30	Kalam	156+440	156+470	Jungle, Electrical Pole & Trees	30	Trees	
361	10	Road Crossing, Trees & EB Pole	156+470	156+480	Kondarattanthidal & Perunakkanallur	10	Electrical Utility	
362	70	Road Crossing, Trees & EB Pole	156+480	156+550	Kondarattanthidal & Perunakkanallur	70	Electrical Utility	
363	50	River crossing & Trees	156+550		River crossing & Trees	50	Trees	
364	10	House, Electrical pole	157+080		Cocunut trees	80	Electrical Utility	
365	50	Road crossing, Electrical pole & Trees	157+150		Manakarambal to Thirukarunalur	50	Electrical Utility	
366	30	Hala Crossing, Electrical Pole & Trees	157+155		Hala Crossing & Trees	30	Electrical Utility	
367	50	Fish Pond, Electrical pole & Cocunut trees	157+460	157+510	Fish Pond, Electrical pole & Cocunut trees	50	Fish Pond	
368	10	Well, Electrical Pole & Trees	157+510		Well, Electrical Pole & Trees	10	Well	
369	60	Electrical Pole, Jungle & Trees	157+920	157+980	Electrical Pole, Jungle & Trees	60	Electrical Utility	
370	20	High Tension Tower	158+850		-	-	Electrical Utility	
371	40	Canal crossing, Jungle & Trees	159+080	159+120	Canal crossing, Jungle & Trees	40	Trees	
372	10	Trees & Electrical Pole	159+400		Pump set, Bore well & Trees	20	Pump set	
373	10	Electrical Pole	159+450		Electrical Pole	10	Electrical Utility	
374	20	Electrical Pole & line crossing	159+580		House & Trees	20	Electrical Utility	
375	90	Trees, Jungle & Electrical Pole	159+610	159+700	Trees, Jungle & Electrical Pole	90	Electrical Utility	
376			159+700	159+720	Electrical Pole, Jungle & Trees	20	Pump set	
377	10	Electrical Pole	159+950				Electrical Utility	
378			160+080	160+120	Trees, Jungle & Electrical Pole	40	Trees	
379	40	Houses	160+120	160+160	Houses (6 nos), Water Tank & Trees	40	Houses	
380	20	House, Trees (20 nos), Electrical pole & line crossing	160+160	160+180			Houses	
381	40	Houses & Hut	160+180	160+220			Houses	
382	10	Electrical Poles	160+280		-	-	Electrical Utility	
383	40	Well, Pump set, Electrical Pole & Trees	160+540				Well	
384	40	Pump house, Electrical Pole & trees	160+620		Small structure, Electrical Pole & trees	40	Pump house	
385	70	Canal crossing, Jungle, Trees & Electrical Pole	160+710	160+780	Canal crossing, Jungle, Trees & Electrical Pole	70	Electrical Utility	
386	50	Temple, Electrical Pole, Trees & Jungle	160+780		Temple & Electrical Pole	50	Temple	
387	20	Bore well, Trees (16 nos), Electrical Pole	160+950	161+020	Trees & Electrical Pole	20	Electrical Utility	
388	30	Jungle, Trees & Mud Road crossing	161+080	161+110	Jungle, Trees & Mud Road crossing	30	Trees	
389	40	Bore well & Pump set	161+110	161+150	Electrical Pole	40	Bore well & Pump house	
390	20	Canal crossing, Jungle & Trees	161+200	161+220	Canal crossing, Jungle & Trees	20	Trees	
391	10	Electrical Pole, Jungle & Trees	161+420		Electrical Pole, Jungle & Trees	40	Electrical Utility	
392	10	Electrical Pole, Jungle & Trees	161+450	161+500	Electrical Pole, Jungle & Trees	50	Electrical Utility	
393	30	Pump room, Electrical pole	161+550				Pump house	
394	40	Pump set, Electrical Pole & Trees	161+800		Electrical Pole & Trees	40	Pump set	
395	100	Standing Crop, Electrical Poles & Road crossing	162+000	162+100	Standing Crop, Electrical Poles & Road crossing	100	Trees	
396	50	Standing Crop, Electrical Poles & Trees & Pond	162+100	162+150	Pump set, Standing Crop, Electrical Poles & Trees & Pond	50	Pump set	
397	100	Canal crossing, Electrical Poles	162+150	162+250	House, Trees (5 nos), Bore well & Pump Set	100	Houses	
398	20	Electrical Pole, Jungle & Trees	162+400		Electrical Pole, Jungle & Trees	20	Electrical Utility	
399	60	Trees (3 nos)	162+520	162+580	Electrical Pole (2 nos), Jungle & Trees	60	Electrical Utility	
400	70	River crossing, Jungle & Trees	162+580	162+650	River crossing, Fencing, Jungle & Trees	70	Trees	
401	10	Electrical Poles, Jungle, Trees & Road crossing	163+500	163+550	House, Trees & Electrical Pole	50	Houses	
402	40	House, Electrical pole, Road Crossing & Trees	163+580	163+620	Electrical pole, Road Crossing & Trees	40	Houses	
403	-	-	163+620	163+650	Houses (2 nos), Electrical pole, Road Crossing & Trees	30	Houses	
404	400	River crossing, Jungle & Trees	163+700	164+100	River crossing, Jungle & Trees	400	Trees	
405	70	High mast light, Electrical Pole	164+180	164+250	High mast light, Electrical Pole	70	Electrical Utility	
406	25	Shops (6 nos)	164+250	164+275	Trees (7 nos)	25	Shops	
	15280	Total Hindred length on LHS in M			Total Hindred length on RHS in M	15850		

Table 2.1.6 - Hindrance Photographs

Photo	Obstruction Length (m)	LHS -Type of Hindrance	Chainage		RHS -Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	30	Houses 0' nod. Electrical Pole & Trees	116+140	116+170	Houses 16' nod. Mango farm. Coconut farm & Electrical Pole 0' nod	30		
	30	Houses 13' nod. Electrical Pole 0' nod & Trees	116+170	116+200	Bus shelter & Electrical Transformer	30		
	20	Houses 0' nod. Electrical Pole & line crossing & Trees	116+200	116+220	Houses 13' nod. & Coconut Trees 16' nod	20		
	60	Houses 16' nod. Culvert & Trees	116+270	116+330	Trees	60		
	20	Electrical Pole & Trees	116+380	116+400	Canal crossing culvert & Trees	20		
	50	Houses 11' nod. Electrical Pole & Trees	116+400	116+450	Canal crossing & Trees	50		
	50	Houses 0' nod. Electrical Pole & Trees	116+450	116+500	Bore Well Pump set. Electrical Pole & Trees	50		
	50	Trees	116+700	116+750	Houses 17' nod. Electrical Pole & Trees	50		
	50	Houses 16' nod. Electrical Pole & Trees	116+750	116+800	Houses 11' nod & Coconut Trees	50		
	50	Vinayagar Temple, Houses 17' nod & Electrical Pole 13' nod	116+800	116+850	Houses 13' nod. & Coconut Trees	50		
	50	Houses 17' nod. Electrical Pole & Trees	116+850	116+900	Houses 16' nod & Coconut Trees	50		
	50	Houses 13' nod. Culvert Electrical Poles & Coconut Trees	116+900	116+950	Houses 16' nod & Coconut Trees	50		



Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	30	Houses 7 nod, Electrical Pole 12 nod & Trees	116+950	117+980	Coconut Trees & Sale	30		
	20	Houses 7 nod, Electrical Poles & Trees	116+980	117+000	Coconut Trees, Fencing & Electrical Pole	20		
	50	Houses 17 nod, Electrical Pole 11 nod & Trees	117+000	117+050	Church & Shops 13 nod	50		
	50	Houses 13 nod, Electrical Poles & Trees	117+050	117+100	Houses 17 nod, Electrical Poles & Trees	50		
	20	Houses 13 nod, Electrical Pole & Trees	117+100	117+120	House 17 nod, Pond & Trees	20		
	30	Temple, Bus shelter, Houses 11 nod, Electrical Pole & Trees	117+120	117+150	House 17 nod, Pond & Trees	30		
	50	Houses 18 nod, Electrical Pole 13 nod & Trees	117+150	117+200	Houses 18 nod, Fashion Shop, Electrical Poles, Trees & Pond	50		
	50	Temple, Houses 17 nod & Coconut Trees	117+200	117+250	Houses 19 nod, Electrical Poles & Trees	50		
	50	Houses 13 nod, Electrical Pole & Trees	117+250	117+300	Houses 17 nod, Electrical Poles & Trees	50		
	50	Houses 13 nod, Electrical Poles & Trees	117+300	117+350	Houses 13 nod, Electrical Poles & Trees	50		
	50	Houses 11 nod, Electrical Poles & Trees	117+350	117+400	Houses 11 nod, Electrical Poles & Trees	50		
	50	Houses 13 nod, Electrical Pole & Trees	117+400	117+450	Houses 18 nod, Electrical Pole & Coconut Trees	50		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	50	Houses II no.d, Bus shelter, Water Tank, Electrical Poles & Trees	11/4+150	11/4+500	Houses II no.d, Electrical Poles & Trees	50		
	50	Houses II no.d, Electrical Poles & Trees	11/4+500	11/4+550	Trees & Electrical Poles	50		
	50	Trees & Electrical Poles	11/4+550	11/4+600	Houses II no.d, Electrical Poles & Trees	50		
	50	Houses II no.d, Electrical Poles & Trees	11/4+600	11/4+650	Houses II no.d, Electrical Poles & Trees	50		
	30	Teak, Wood Trees	11/4+650	11/4+680	Demolished structure & Bamboo Trees	30		
	75	Fand, Electrical Pole & Trees	11/4+710		Trees	75		
	7	Existing Canal	11/4+760	11/4+780	Existing Canal	7		
	70	Electrical Pole & Teak wood Trees	11/4+800		Teak wood Trees	70		
	15	-	11/4+830		Pump set, Electrical Pole, Road & Coconut Trees	15		
	15	-	11/4+900		Canal & Electrical Pole	15		
	10	-	11/4+950		Electrical Pole	10		
	10	Electrical Pole	11/4+000	11/4+050	Canal & Culvert	15		
	10	Electrical Pole	11/4+780		Electrical Pole	10		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	10	Electrical Pole & Canal crossing	118+300	118+350	Electrical Pole	10		
	15	Trees	118+1/0		Trees	15		
	10	Electrical Pole & road	118+500		Electrical Pole & road	10		
	-	-	118+530		Pump set Electrical Pole & road & Canal crossing	30		
	10	Electrical Pole & Line crossing	118+630		Electrical Pole & Line crossing	10		
	75	Electrical Poles & Road crossing	118+650	118+750	Electrical Poles & Road crossing	75		
	15	Concrete structure	118+780		Coconut Trees & road	10		
	10	Electrical Poles & Coconut Trees	118+840		Coconut Trees	10		
	15	Demolished House Structure	118+930		Demolished House Structure	15		
	10	Electrical Poles & Trees	118+950		Electrical Poles & Trees	10		
	15	Trees & road	119+080		-	-		
	10	Coconut farm & Teak wood Trees	119+350		Coconut farm & Teak wood Trees	10		






Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	15	Concrete Pump room structure & Trees	119+130		-	-		
	15	-	119+600		Govt School Building Structures (Faculty)	15		
	10	Electrical Pole	119+800		-	-		
	10	Trees	119+900		Electrical Pole	10		
	20	House (1 no) & Coconut Trees	170+000		Electrical Pole	10		
	50	House (2 nos), Coconut farm, Electrical Pole (2 nos) & Line crossing & Trees	170+000	170+050	House, Electrical Pole (2 nos) & Trees	50		
	50	House (2 nos), Teak road & Trees	170+050	170+100	Bus shelter, House (2 nos), Electrical Pole (2 nos) & Teak road & Trees	50		
	50	Temple, House (2 nos), Electrical Pole & Coconut farm	170+100	170+150	House (2 nos), Electrical Pole (2 nos) & Coconut Trees	50		
	50	Coconut farm, Trees	170+150	170+200	Houses (2 nos), Electrical Pole & Trees	50		
	50	Coconut farm, Pond & Trees	170+200	170+250	Temple, Houses (2 nos) & Electrical Pole	50		
	30	Houses (2 nos), Electrical Pole, Coconut & Coconut farm	170+250	170+280	Houses (2 nos), Electrical Pole & Coconut farm	30		
	20	Houses (1 no), Electrical Pole, Coconut & Coconut farm	170+280	170+300	Houses (2 nos), Electrical Pole & Coconut farm	20		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	50	Houses II nod. Electrical Poles & Coconut farm	170+300	170+350	Houses III nod. Electrical Poles Culvert & Trees	50		
	50	Shops. Electrical Pole & Coconut farm	170+350	170+400	House. Electrical Pole & Teak wood Trees	50		
	50	Houses IV nod. Electrical Poles & Coconut Trees	170+400	170+450	Houses II nod. Petrol Pump. Electrical Poles IV nod & Coconut Trees	50		
	50	Houses IV nod. Shops. Coconut & Teak wood Trees	170+450	170+500	Houses III nod. Electrical Poles & Trees	50		
	50	Houses IV nod. Electrical Poles. Coconut & Teak wood Trees	170+500	170+550	Houses IV nod. Electrical Poles. Coconut & Teak wood Trees	50		
	50	Houses II nod & Coconut farm	170+550	170+600	House II nod. Electrical Pole & Coconut Trees	50		
	50	Houses IV nod. Fencing. Electrical Pole. Coconut & Teak wood Trees	170+600	170+650	Houses IV nod. Fencing. Electrical Pole. Coconut Munga Trees & Fish Pond	50		
	30	Houses. Coconut & Teak wood Trees	170+650	170+680	Pond & Trees	30		
	40	Shops. Coconut & Teak wood Trees	170+680	170+720	New crop planted & Fencing	40		
	80	New crop planted. Electrical Poles & Trees	170+720	170+800	House II nod. Transformer. Electrical Poles II nod & Trees	80		
	50	Houses IV nod. Culvert & Trees	170+800	170+850	Houses IV nod. Electrical Poles IV nod & Trees	50		
	30	Houses IV nod. Electrical Poles & Trees	170+900	171+930	Houses II nod. Fencing. Electrical Pole II nod & Trees	30		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	70	Preparing for next crop. Electrical Pole & Trees	171+930	171+950	Houses 0 nos. Electrical Pole 0 nos & Trees	70		
	50	Electrical Pole & Trees	171+950	171+000	Houses 0 nos. Electrical Pole 0 nos & Trees	50		
	10	Electrical Pole & Trees	171+050		Transformer Electrical Pole 0 nos & Trees	70		
	0	-	171+100		Electrical Pole	10		
	50	Coconut Trees, Teak, wood Trees & Jungle	171+150		Electrical Pole & Trees	70		
	50	Bus shelter, Houses 02 nos, Electrical Pole 0 nos & Trees	171+700	171+750	Bus shelter, Trees & Jungle	50		
	50	House 11 nos, Electrical Pole & Trees	171+750	171+300	House 03 nos, Electrical Pole 0 nos & Trees	50		
	50	Electrical Pole, Trees & Jungle	171+300	171+350	House 07 nos, Electrical Pole & Trees	50		
	80	Electrical Pole, Trees & Jungle	171+350	171+430	Houses 09 nos, Electrical Pole 03 nos & Trees	80		
	70	Electrical Pole, Trees & Jungle	171+430	171+500	Electrical Pole, Trees & Jungle	70		
	50	House 11 nos, Electrical Pole, Trees & Jungle	171+500	171+550	Electrical Pole, Culvert, Trees & Jungle	50		
	70	Temple, House: 03 nos & Coconut Trees	171+550	171+620	Houses 07 nos, Electrical Pole, Munga Trees / Jungle	70		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	60	Shops, Houses, Electrical Poles, Coconut Trees, Jungle & Culvert	171+670	171+680	Coconut Trees (17 nod), Trees & Jungle	60		
	10	Pump set Structure & Coconut Trees (8 nod)	171+680	171+700	Electrical Pole & Trees	10		
	20	Trees & Jungle	171+700	171+800	Electrical Pole	10		
	50	Transformer, Electrical Poles & Trees	171+800	171+850	Church Gate, Boundary Wall	50		
	15	Transformer, Electrical Poles (1 nod)	171+930		Electrical Poles (7 nod)	15		
	20	Electrical Poles, existing bridge structure & Trees	172+070		Electrical Pole & Trees	10		
		River crossing & Trees	172+030		River crossing & Trees			
	25		172+080		Temple, Electrical Pole, Canal & Banyan Trees	25		
	20	Electrical Pole & Trees	172+130		Trees (3 nod)	20		
	15	Electrical Poles, Canal, Banana farm & Teak wood Trees	172+700		Pump set & Electrical Poles	15		
	80	Banana farm, Canal, Teak wood Trees, Transformer & Electrical Poles	172+220	172+300	Teak wood Trees, Electrical Pole & Banana farm	80		
	100	Electrical Poles, Teak wood Trees & Canal	172+300	172+400	HP Petrol Bunk & Electrical Poles	100		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	100	Canal Teak wood Trees	122+100	122+500	Coconut farm, Canal Teak wood Trees	100		
	100	Small structure (Entrance Arch), Teak wood Trees & canal	122+500	122+600	Teak wood Trees & Jungle	100		
	120	Teak Wood Trees, Canal & Jungle	122+700	122+820	-	-		
	70	Teak wood Trees, Electrical Pole & Existing bridge structure (On Branch Road)	122+820	122+890	Bus shelter, Electrical Poles & Trees	15		
	10	Teak wood Trees & Canal	122+900	122+910	Electrical Pole & Jungle	10		
	100	Canal & Teak wood Trees	122+900	123+000	Electrical Pole Trees & Jungle	100		
	150	College Boundary & Arch Structure, Lighting Posts & Canal crossings	123+000	123+150	Electrical Poles & road	150		
	70	Canal Teak wood Trees & Jungle	123+230	123+300	Transformer, Electrical Poles & road & Trees	70		
	50	Electrical Pole & line crossing, Teak wood Trees, Existing Culvert & Jungle	123+300	123+350	Electrical Poles & Trees & Jungle	50		
	180	Electrical Pole, Teak wood Trees & Jungle	123+110	123+620	Electrical Poles, Trees & Jungle	180		
	70	Teak wood Trees & Jungle	123+650	123+720	Electrical Poles, Canal Trees & Jungle	70		
	30	Houses, Road & Trees	123+700	123+730	Electrical Poles, Trees & Jungle	10		



Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
		Electrical Poles, Trees & Jungle	123+750		Electrical Poles, Trees & Jungle	15		
	25	Temple & Trees	123+850		Bus shelter, Godown, Overhead Tank & Electrical Poles	25		
	10	Canal crossing & Trees	123+900		Pump set & Electrical Poles	15		
	20	Houses 13 nod, Electrical Pole 0 nod & Trees	123+950		Transformer, Electrical Poles 11 nod & Trees	20		
	60	Existing Canal	121+150	121+750	Existing Canal	60		
		-	121+250	121+310	Transformer, Electrical Pole 10 nod & Trees	60		
		-	121+550		Pump house, Electrical Pole & Trees 12 nod	30		
	70	Fencing, Electrical Poles & Trees 00 nod	121+880	121+950	Trees 117 nod & Electrical Poles	70		
	100	House, Hut 11 nod, Transformer	121+950	125+050	Electrical Poles & Fencing	100		
	50	Trees	125+050	125+100	Fencing	50		
	100	Trees 111 nod	125+100	125+200	Trees 11 nod	100		
	50	Electrical Poles 0 nod	125+200	125+250	Trees 13 nod	50		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	50	Bore well, Water tap, Electrical Pole & line crossing, Advertisement board & Trees	125+350	125+400	Electrical Pole & line crossing, Encroachment	50		
	50	Trees (10 nos) & Jungle	125+100	125+150	Advertisement board	50		
	50	House D nos, Electrical Poles & Trees	125+150	125+200	House D nos, Electrical Poles & Trees	50		
	50	House D nos, Electrical Poles & Trees	125+500	125+550	House H nos, Electrical Poles & Trees	50		
	50	House H nos, Electrical Poles & Trees	125+550	125+600	House D nos, Electrical Poles & Trees	50		
	50	House D nos, Electrical Poles & Trees	125+600	125+650	Temple, water tank, bore well, House B nos, Electrical Poles & Trees	50		
	50	House D nos, Electrical Poles & Trees	125+650	125+700	Demolished Govt building, House G nos, Electrical Poles & Trees	50		
	100	Electrical Pole & Trees	125+700	125+800	Compound Wall	100		
	50	Houses D nos, Electrical Poles & Trees	125+800	125+850	Houses H nos, Electrical Poles & Trees	50		
	50	Houses H nos, Electrical Poles & Trees	125+850	125+900	Houses D nos, Electrical Poles & Trees	50		
	50	Govt building, House H nos, Electrical Poles & Trees	125+900	125+950	Houses D nos, Electrical Poles & Trees	50		
	100	House H nos, Water tap & Trees	125+950	125+1050	Houses D nos & Trees	100		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	50	Building, Hut 0 nod & Trees 01 nod	176+050	176+100	Temple, Houses 0 nod, Electrical Pole 11 nod & Trees 113 nod	50		
	100	Electrical Poles, Pond & Trees	176+100	176+200	House, Electrical Pole & Trees	100		
	100	Pond & Trees	176+100	176+200	Pond & Trees	100		
	100	House 03 nod, Electrical Poles & Line crossing & Trees	176+600	176+700	House 03 nod, Electrical Poles & Line crossing & Trees	100		
	100	Bus shelter, Fencing, House 11 nod, Electrical Pole & Trees 17 nod	176+700	176+800	Rice Mill, House 11 nod, Hut, Electrical Pole & Trees 113 nod	100		
	100	House 11 nod, Hand pump, Transformer & Electrical Poles	176+800	176+900	Temple, House 11 nod, Electrical Pole 0 nod & Trees 113 nod	100		
	100	Bus shelter, Pump house, Electrical Pole 11 nod & Trees 113 nod	176+900	177+000	Electrical Pole 11 nod, Telephone Pole, Sign board & Trees 111 nod	100		
	100	Pump house, Electrical Pole 0 nod, Trees 0 nod & Nala	177+000	177+100	Electrical Pole 11 nod & Trees 03 nod	100		
	100	Building 11 nod, Electrical Pole 11 nod, Sign boards 11 nod & Trees 111 nod	177+100	177+200	Pump house, Electrical Poles 11 nod, Transformer, Sign boards & Trees 110 nod	100		
	100	Building 0 nod, Electrical Pole 0 nod, Sign boards 11 nod & Trees 110 nod	177+200	177+300	Arch, Compound Wall, Electrical Pole 0 nod & Trees 03 nod	100		
	20	Electrical Pole 11 nod & Line crossing	177+300	177+300	Electrical Pole 11 nod, Sign boards 0 nod & Trees 0 nod	20		
	20	Electrical Pole 03 nod, Trees 03 nod & Nala	177+500	177+500	Electrical Pole 11 nod, Transformer & Trees	20		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	30	Commercial building G nod, Electrical Pole 6 nod & Line crossing & Trees G nod	127+50	127+800	Building Compound Wall Electrical Pole 6 nod & Trees G nod	30		
	25	Fencing	127+800	127+900	Fencing & Electrical pole	25		
	10	Trees & Electrical Pole	127+900	128+000	Compound Wall & Electrical Pole	80		
	70	Trees b nod	128+000	128+100	Pump house, Bare wall Transformer & Electrical Pole G nod	30		
	10	Electrical Pole (1 nod)	128+170	128+200	Electrical Pole (1 nod)	40		
	-	-	128+200	128+300	Electrical Pole 0 nod	70		
	25	Small Temple with Gate & Trees (1 nod)	128+300	128+350	Electrical Pole 0 nod	70		
	10	Tree	128+350	128+400	Electrical Pole 0 nod	70		
	15	Electrical Pole, Tree & Existing Culvert	128+400	128+500	Electrical Poles G nod	30		
	10	Tree	128+500	128+550	Electrical Poles 0 nod	70		
	-	-	128+550	128+600	Electrical Poles	10		
	30	Trees & Jungle	128+600	128+700	Shops 6 nod & House 0 nod, Electrical Poles b nod & Trees	40		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	60	Fencing, Trees & Jungle	178+700	178+800	-	-		
	40	Indian Oil Petrol Bunk, Small Temple, steel pole & Trees	178+800	178+900	Trees & Jungle	20		
	20	Under construction House, Electrical Pole & nod	178+900	178+950	-	-		
	50	Shops & nod, Transformer & Electrical Poles & nod	178+950	179+000	Electrical Pole & Trees	20		
	20	Electrical Pole & nod, Coconut farm & Jungle	179+000	179+120	Fencing, Electrical Poles & nod, Trees & nod & Jungle	20		
	30	Electrical Pole & nod, Street light & Steel arch	179+120	179+200	Under construction house, Trees & Jungle	40		
	30	Electrical Pole, Trees & Jungle	179+200	179+300	Trees & Jungle	20		
	30	Trees & nod	179+300	179+480	Trees & Jungle	20		
	30	Houses & nod, Trees & jungle	179+480	179+510	Electrical Poles & nod, Coconut Trees & nod & Existing culvert	30		
	40	Houses & nod, Electrical Pole & Jungle	179+550	179+620	Small Temple & Jungle	40		
	30	Transformer, Electrical Poles & nod, Trees & Jungle	179+620	179+700	Electrical Pole & line crossing Trees & Jungle	30		
	50	Wooden work factory, Electrical Pole & nod, Trees & Jungle	179+700	179+750	Banana farm, Trees & Electrical Pole	50		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	50	Trees b nod & Existing Culvert	129+800	129+850	Shops (10 nod, Entrance Arch, Coconut Trees	50		
	50	Fencing & Trees	129+850	129+900	Fencing & Teak wood Trees	50		
	50	Building Electrical Pole Trees (1 nod	129+900	129+950	Compound Wall Electrical Pole & Trees	50		
	70	Trees (1 nod & Jungle	129+950	130+000	Transformer Electrical Poles ( nod & Jungle	70		
	70	Electrical Pole & Trees	130+000	130+170	Electrical Poles b nod, Arch & Trees	70		
	60	Houses (1 nod, Electrical Pole (2 nod, Coconut & teak wood Trees	130+170	130+700	Houses (2 nod, Electrical Poles (1 nod & Transformer	60		
	50	Houses (7 nod, Electrical Pole & Trees (1 nod	130+700	130+750	Houses (6 nod, Electrical Poles (7 nod & Coconut Trees	50		
	50	Houses Fencing (1 nod, Electrical Pole & Trees (3 nod	130+750	130+800	Houses (1 nod, Electrical Poles (7 nod & Coconut Trees	50		
	50	Shops, Electrical Pole & Trees	130+800	130+850	Compound Wall Electrical Pole (2 nod & Trees	50		
	50	Houses (3 nod, Electrical Poles (7 nod & Trees	130+850	130+900	Houses (6 nod, Electrical Poles (7 nod & Trees	50		
	50	Houses (1/ nod, Electrical Poles (7 nod & Trees	130+900	130+950	Houses (2 nod, Trees & Jungle	50		
	50	Under construction building, Electrical Pole & Teak wood Trees	130+950	130+950	Fencing, Trees, Electrical Pole & Jungle	50		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	20	Treat wood Trees & Jungle	130+500	130+550	Trees & Jungle	20		
	20	Fencing Trees & Jungle	130+550	130+600	Fencing Pole preparation shop, Trees & Jungle	20		
	20	Trees & Jungle	130+600	130+700	Shops 10 nos, Electrical Poles 07 nos & Trees	10		
	30	House with Gate 11 nos, Electrical Pole 13 nos	130+700	130+780	Trees, Electrical Poles & Culvert structure	30		
	10	Electrical Pole & Line crossing	130+780	130+800	Electrical Pole & Line crossing	10		
	10	Trees 110 nos, Trees & Jungle	130+800	130+900	Trees 10 nos, Electrical Pole, Trees & Jungle	10		
	20	Electrical Pole 13 nos, Existing culvert & Jungle	130+900	131+000	Arch, Existing culvert, Electrical Pole, Trees & Jungle	20		
	20	Trees 17 nos & Electrical Pole	131+000	131+100	Building 11 nos, Shop, Trees 13 nos, Electrical Pole & Trees	10		
	20	Trees 16 nos & Electrical Pole	131+100	131+200	Temple 11 nos, Trees 11 nos & Jungle	20		
	25	Hotel 11 nos & Electrical Pole 07 nos	131+200	131+300	Trees 13 nos & Electrical Pole	20		
	30	Carpenter Shop, Electrical Pole 11 nos & Jungle	131+300	131+400	Under construction building, Electrical Pole, Pump set, Trees & Jungle	30		
	10	Electrical Pole 07 nos, Treat wood Trees & Jungle	131+400	131+500	Electrical Pole, Existing culvert & Jungle	30		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	20	Fencing, Trees 16 nod & Jungle	131+500	131+600	Marble 160-room, Electrical Pole & Line crossing 0 nod, Trees & Jungle	40		
	20	Fencing, Electrical Pole 0 nod, Existing culvert & Jungle	131+600	131+700	Electrical Pole, Trees & Jungle	20		
	40	High mast light, Sign boards, Houses 11 nod, Electrical Pole: 13 nod & Trees 8 nod	131+700	131+800	Advertisement board, Fencing, Houses 11 nod, Electrical Pole: 0 nod & Trees	40		
	20	Houses 11 nod, Over head tank, Coconut Trees & Jungle	131+800	131+920	Trees & Jungle	20		
	30	River crossing & Trees	131+920	132+000	River crossing & Trees	30		
	40	Coconut farm	132+000	132+100	Trees & Jungle	40		
	60	Banana farm & Trees 110 nod	132+100	132+200	Trees & Jungle	40		
	50	Houses 13 nod, Shop 11 no. & Electrical Pole	132+200	132+250	Electrical Pole, Trees & Jungle	50		
	50	Banana farm	132+250	132+300	Coconut farm	50		
	60	House, Teak wood Trees, Banana & Coconut Trees	132+300	132+400	Teak wood Trees, Banana & Coconut Trees, Electrical Pole & Jungle	60		
	40	Shop & Godown, Fencing with Gate	132+400	132+500	Teak wood Trees, Banana & Coconut Trees, Electrical Pole & Jungle	50		
	30	Teak wood Trees & Trees 16 nod	132+500	132+600	Compound wall, Trees 16 nod & Jungle	30		












Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	30	Bore well Pump set Electrical Poles 09 nod & Line crossing & Trees	132+600	132+730	Under construction House II nod, Electrical Poles 11 nod & Line crossing & Trees	30		
	25	Overhead Water Tank	132+730	132+800	Trees & Jungle	20		
	50	Trees & Jungle	132+800	132+900	Coconut farm Electrical Poles 07 nod, Tank wood Trees & Jungle	50		
	100	Banana farm, Pump set & Trees	132+900	133+000	Pump set Banana farm, Electrical Poles 07 nod & Line crossing & Coconut Trees	100		
	100	Motor garage shop Electrical Pole 07 nod & Banana farm	133+000	133+100	Coconut Trees Existing culvert & Jungle	100		
	45	Temple, Hand pump, 1 no. of buildings, Electrical Poles 07 nod & Trees	133+100	133+150	Electrical Poles 07 nod & line crossing & Trees	20		
	50	High mast light 3 no. of buildings, Electrical Poles 11 nod & Trees	133+150	133+200	Houses 13 nod, Street lighting pole, Electrical Poles 07 nod & Trees	50		
	40	Houses 13 nod, Mango & Coconut Trees & Electrical Pole (1 no)	133+200	133+280	Trees 16 nod & Jungle	40		
	30	River crossing & Trees (Approached)	133+280	133+350	River crossing & Trees (Approached)	30		
	50	Coconut farm, Pump set & Trees	133+350	133+400	Trees & Jungle	50		
	50	Compound wall Electrical Pole & Trees (7 nod)	133+400	133+500	Trees, Existing culvert & Jungle	30		
	60	Hotel 07 nod, Electrical Poles 07 nod & Trees	133+500	133+600	School compound wall Fencing & Trees (12 nod)	50		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	30	Houses (7 nos), Electrical Pole (1 nos), School compound wall fencing	133+600	133+700	Compound wall, Transformer, Electrical Poles (7 nos), Arch & Trees (10 nos)	60		
	40	Compound Wall, Electrical Pole, Trees & Jungle	133+700	133+750	House (1 nos), Food, Compound wall, building & Electrical Poles & Trees	40		
	30	House, Electrical Pole, Trees & Jungle	133+750	133+800	House, Electrical Poles & Trees	30		
	50	Houses (3 nos), Trees & Jungle	133+800	133+900	House (1 nos), Electrical Poles (3 nos), Trees & Jungle	40		
	30	Sign boards, Houses (7 nos), Building, Electrical Poles (7 nos)	133+900	133+950	Shops, Lighting Poles (7 nos) & Electrical Poles (7 nos)	30		
	30	High mast light, Sign boards & Electrical Poles	133+950	134+000	High mast light, Sign boards & Electrical Poles	30		
	-	-	134+000	134+030	Commercial Building	15		
	10	Electrical Pole	134+030	134+080	Mayanem	10		
	30	House & Trees	134+080	134+100	House & Trees	30		Encroachment
	10	Electrical Pole	134+100	134+170	-	-		
	10	Electrical Pole	134+170	134+200	-	-		
	10	Electrical Pole	134+200	-	-	-		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	10	Electrical Pole	131+780	-	-	-		
	10	Electrical Pole	131+300	-	House	30		
	30	Pond & Trees	131+350	-	Electrical Pole	10		
	-	Railway Crossing	131+280	-	Railway Crossing	-		ROB @ CH: 131+315
	10	Electrical Pole & Line Crossing & Pump house	131+700	-	-	-		
	70	Regulator & Trees	131+710	-	-	-		water regulator should to be relocated
	10	Electrical Pole & Line Crossing	135+000	-	Electrical Pole & Line Crossing	10		
	10	Electrical Pole & Line Crossing	135+100	-	Electrical Pole & Line Crossing	10		
	10	Electrical Pole & Line Crossing	135+200	-	Electrical Pole & Line Crossing	10		
	40	HT Tower & Banana Farm	135+100	-	-	-		
	10	Electrical Pole	135+110	-	Electrical Pole	10		
	70	Electrical Pole & Trees	135+550	-	Wall & Trees	70		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	10	Electrical Pole & Line Crossing	135+600		Electrical Pole & Line Crossing	10		
	10	Electrical Pole & Line Crossing	135+750		Electrical Pole & Line Crossing	10		
	50	Electrical Pole & Line Crossing, Standing Crop & Trees	135+500		Electrical Pole & Line Crossing	20		
	10	Electrical Pole & Line Crossing	136+100		Electrical Pole & Line Crossing	10		
	100	Coconut farm & Electrical Pole	136+150	136+750	Coconut farm & Electrical Pole	100		
	10	Road crossing, Electrical pole & Trees	136+300		Pattanam to Sivamalai Road	10		VUP @ CH- 136+282
			136+150		House & Coconut farm	50		
	90	Coconut farm & Vegetable farm	136+550	136+640	Houses & nail & Coconut farm	90		
	20	Coconut farm	136+670	136+690				
	40	Coconut farm & Vegetable farm	136+660	136+700	Electrical Tower & Vegetable farm	40		
	10	Electrical Pole & Line crossing	137+040		Electrical Pole & Line crossing	10		
	20	Road crossing & Electrical pole	137+100		House & Trees	20		
	-	-	137+150		Electrical Pole	10		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	70	Fish Pond & Trees	13/+180	13/+250	Fish Pond & Trees	70		
	10	Electrical Pole	13/+250		-	-		
	100	Fish Pond	13/+300	13/+400	Fish Pond & Trees (10 nod)	100		
	150	Standing Crop, Teak wood Trees & Electrical Pole	13/+100	13/+250	Standing Crop & Teak wood Trees & Electrical Pole	150		
	70	Standing crop, Transformer, Electrical Pole & Trees	13/+550	13/+620	Standing crop, Road crossing (Pattanam to Sundaraperumal) & Trees	70		
	80	Coconut farm	13/+670	13/+750	Standing crop & Electrical Pole	80		
	50	Coconut farm	13/+700	13/+750	Coconut farm	50		
	10	Electrical Pole & Line Crossing	13/+850		Electrical Pole & Line Crossing	10		
	10	Electrical Pole	13/+900		Electrical Pole	10		
	50	Mango farm & Flower Garden	138+050	138+100	Mango farm & Flower Garden	50		
	100	Pump set, Mango farm & Teak Wood Trees	138+100	138+200	Mango farm & Teak Wood Trees	100		
	10	Pump set & Trees	138+200	138+210				

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	60	Pump set Banana farm, Coconut farm & Teak wood Trees	138+710	138+300	Banana farm, Coconut farm & Teak wood Trees	60		
	150	Mango farm & Teak wood Trees	138+300	138+150	Pump set Mango farm & Teak wood Trees	150		
	100	Pump set Banana farm, Coconut farm & Canal crossing	138+150	138+550	Pump set Banana farm, Coconut farm & Canal crossing	100		
	50	Fish pond, Banana farm & Trees	138+670	138+670	Pump set Fish pond, Banana farm & Trees	50		
	10	Electrical Pole & Line Crossing & Trees	138+680		Electrical Pole & Line Crossing & Trees	10		
	70	Road Crossing, Trees & EB Pole	138+730					
	70	Coconut farm, Electrical Pole & Trees	138+730	138+750	Coconut farm, Electrical Pole & Trees	70		
	50	House / road, Trees & Electrical Poles	138+750	138+800	Coconut farm, Banana farm & Teak wood Trees	50		
	30	River crossing & Trees	139+750	139+780	River crossing & Trees	30		
	70	Electrical Poles & Line Crossing, Road crossing & Trees	139+150		Electrical Poles & Line Crossing, Road crossing & Trees	70		
	-	-	139+160		Sump, Pump house & Bore Well	30		
	70	Canal Crossing & Trees	140+800		Canal Crossing & Trees	70		
	70	Small Temple	140+900		EB Pole & Line Crossing	70		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	15	Road crossing & Trees	111+102		Nalley to Aruvy Road	15		
			111+130	111+220	EB Pole & Line Crossing	90		
	100	Coconut Trees & Electrical pole	111+300	111+400	Coconut Trees & Electrical pole	100		
	-	Electrical Pole & Line Crossing & Trees	111+330		Electrical Pole & Line Crossing & Trees	-		
	30	Road crossing & Trees	111+550		-	-		
	-	Road crossing	112+000		Kolachery to Kolachery	-		
	20	Bore well Pump house & Trees	112+260		EB Pole & Line Crossing	10		
	20	Bore Well	112+500		Electrical Pole & Line Crossing	10		
	80	Bamboo, Mango trees & Sugarcane farm	112+570	112+650	Bamboo, Mango trees & Sugarcane farm	80		
	-	-	112+670		Pump set & Trees	20		
	20	High Tension Tower	112+850		-	-		
	10	Bore Well	112+850		-	-		
















Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	-	-	113+100		High Tension Tower	70		
	30	River crossing & Trees	113+115		River crossing & Trees	30		
	10	Pump set & Bamboo trees	113+200		Bamboo trees	10		
	70	EB Pole & Trees	113+600		EB Pole & Trees	70		
	-	-	113+850		Electrical Pole & Line Crossing & Trees	15		
	30	River crossing & Trees	114+050		River crossing & Trees	30		
	15	Bore Well & Tree	114+150		-	-		
	50	Teak wood trees	114+750		Teak wood trees	50		
	70	Temple	115+500		-	-		
	-	-	115+570		Pump Set & Electrical Pole	70		
	-	-	115+670		Trees	70		
	10	Electrical Pole & Line Crossing	116+000		Electrical Pole & Line Crossing	10		
	70	Pump set	116+050		Electrical Pole & Line Crossing	10		


















Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	10	Electrical Pole & Line Crossing	116+0/0		Trees	10		
	20	Pump set & Trees	116+130		Electrical Pole & Line Crossing	10		
	10	Electrical Pole	116+200		-	-		
	20	Trees & Electrical Pole	116+300		Trees & Electrical Pole	20		
	-	River Crossing	116+630		River Crossing	-		
	20	Electrical Pole & Line Crossing	116+/00	116+/20	Electrical Pole & Line Crossing & Trees	20		
	1500	Existing Canal	116+600	118+100	Existing Canal	1500		
	10	Nala Crossing, Trees & Electrical Pole	116+/80		Nala Crossing, Trees & Electrical Pole	10		
	20	Pump set, River Crossing, Trees & Electrical Pole	116+830		River Crossing, Trees & Electrical Pole	20		
	20	Pump set	116+900		Trees & EB Pole	20		
	30	Nala Crossing & Trees	116+900		Nala Crossing & Trees	30		
			116+980		Pump set & Standing Crop	80		
	15	Pump set	117+050		-	-		


















Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
			11/+100		High Tension Tower	40		
			11/+120	11/+140	Pump set	50		
			11/+200		Bore well & trees	15		
	70	High Tension Tower	11/+330		-	-		
	70	Bore well & Pump house	11/+380		-	-		
	30	Nala Crossing & Trees	11/+370	11/+400	House	30		
			11/+410	11/+450	House, Trees & Electrical Line	40		
	70	Teak wood trees	11/+570		Teak wood trees	70		
	30	Electrical Pole & Line Crossing	11/+880		Electrical Pole & Line Crossing	30		
	70	Road Crossing, Trees & EB Pole	11/+900		Road Crossing, Trees & EB Pole	70		
	120	Banana Farm & Nala crossing	11/+900	118+070	Trees & EB Pole & Nala crossing	120		
	70	Canal Crossing & Trees	118+050		Canal Crossing & Trees	70		
	750	Banana Farm, Pump set & EB Pole	118+300	118+550	Banana Farm, Pump set & EB Pole	750		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	10	EB Electrical Pole	118+700					
	20	Trees @ road & Pump set	119+000		EB Electrical Pole & Line crossing	10		
	10	EB Pole & trees @ road	119+100		Pump set & EB Pole	20		
	10	EB Electrical Pole	119+150		EB Electrical Pole	10		
	10	EB Electrical Pole	119+200		-	-		
	10	River crossing	119+300		Trees @ road	10		
	20	River crossing	119+400		Trees @ road	20		
	20	Pump set	119+900		Pump set & Electrical Pole	20		
	10	EB Pole & Line crossing	119+980		Pump set EB Pole & Line Crossing & Trees @ road	20		
	10	EB Pole & Line crossing	150+150		EB Pole & Line crossing	10		
	10	EB Pole & Line crossing	150+210					
			150+210	150+300	Trees @ road & Pump set	10		
	10	EB Pole & Line crossing	150+160		EB Pole & Line crossing	10		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	20	Pump house	150+610		EB Pole & line crossing & Trees @ nod	10		
	70	River Crossing, Trees & EB Pole	150+780		Regulator & trees	70		
		Existing Sluice	150+800		Existing Sluice			
	10	EB Pole & line crossing & Trees @ nod	151+000		EB Pole & line crossing & Trees @ nod	10		
	50	Trees @ nod & Nala crossing	151+050	151+100	Trees @ nod & Nala crossing	50		
	-	New crop planted	151+200		Pump set & Trees @ nod	15		
			151+300	151+360	Electrical Pole	60		
	130	Tall wood trees	151+500	151+630	Tall wood trees	130		
	0				Small Temple @ nod	0		
	20	Pump set & Electrical Pole & line crossing	151+650		Electrical Pole	20		
	10	Electrical Pole	151+830		-	-		
	0	-	151+930		Pump set & Trees @ nod	20		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	10	Electrical Pole	152+070		Electrical Pole	10		
	10	Electrical Pole	152+100		Electrical Pole	10		
	-	Road Crossing, Trees & EB Pole	152+350		Sulamangalam to Palesakudi	-		
	100	Coconut Farm & Banyan trees	152+100	152+500	Coconut Farm & Banyan trees	100		
	-	Pump set well & Electrical Pole	152+130		Pump set well & Electrical Pole	-		
	70	Bore well & Pump house	152+730		Trees	70		
	30	River crossing, Pump set & Trees	152+880		River crossing Trees	30		
		Existing Sluice	152+900		Existing Sluice			
	70	Canal Crossing & Trees	152+900		Canal Crossing & Trees	70		
	70	EB Pole & Trees	153+780		Bore well & Pump set	70		
	10	EB Pole & Trees	153+500		EB Pole & Trees	10		
	10	Electrical Pole	153+550		Electrical Pole	10		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	30	Bore well & Pump house	153+600		Electrical Pole & Trees	30		
	60	Electrical Poles & Trees II nod	153+630		Electrical Poles & Trees II nod	60		
	15	Electrical Tower	153+70		Electrical Pole & Trees	15		
	15	Road crossing & Trees	153+900		Road crossing & Trees	15		
	20	Canal Crossing & Trees	153+920		Canal Crossing & Trees	20		
	15	Electrical Pole	151+050		Electrical Pole	15		
	10	Electrical Pole	151+150		Electrical Pole	10		
	40	Houses II nod, Electrical pole & Trees	151+590	151+630	Houses II nod, Electrical pole & Trees	40		
	120	Bamboo trees & trees & Canal crossing	151+630	151+750	Bamboo trees & trees & Canal crossing	120		
	10	Electrical Pole	151+650		Electrical Pole & Trees	15		
	90	Houses II nod & Trees Bamboo trees	151+680	151+770	Bamboo trees	90		
	110	Coconut Farm	151+770	151+880	Coconut Farm	110		
	70	Canal Crossing & Trees	151+600	151+900	Canal Crossing & Trees	70		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	130	Coconut Farm, River crossing & Electrical poles	155+950	155+080	Coconut Farm, River crossing & Electrical poles	130		
	80	Bare well & Pump house & Electrical Poles & Next crop planted due to dispute in compensation.	155+170	155+700	Electrical poles & Trees & Next crop planted due to dispute in compensation.	80		
	80	Electrical Pole & Next crop planted due to dispute in compensation.	155+700	155+780	Next crop planted due to dispute in compensation.	80		
			155+780	155+380	Bare well & trees & Next crop planted due to dispute in compensation.	100		
			155+380	155+500	Bare well & Electrical Pole & Next crop planted due to dispute in compensation.	170		
	50	Coconut Farm & Electrical Poles	155+700	155+750	Coconut Farm & Electrical Poles	50		
	10	Coconut Farm, Pump set & Electrical poles	155+750	155+760	House, Coconut Farm & Electrical Pole	10		
	10	Pump set & Electrical poles	155+760	155+770	Ford crossing	10		
	70	Next crop planted due to dispute in compensation.	155+770		Pump room	70		
	70	Water tank & Trees	155+780					
			155+800	155+950	Next crop planted due to dispute in compensation.	150		
	10	Electrical Pole & Tree	155+950		Electrical Pole	10		


Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	10	Canal crossing & Electrical Pole & Line crossing	156+000		Canal crossing & Electrical Pole & Line crossing	10		
	10	Electrical Pole & line crossing	156+050		Electrical Pole & line crossing	10		
	130	Canal crossing & trees	156+220	156+350	Canal crossing & trees	130		
	10	Pump set, Electrical Pole & Trees	156+280	156+170	Jungle, Electrical Pole & Trees	10		
	20	Electrical Pole	156+170	156+110	Tank wood trees	20		
	30	Kalam	156+110	156+170	Jungle, Electrical Pole & Trees	30		
	10	Food Crossing, Trees & EB Pole	156+170	156+180	Kandamattidil & Perunnalankallur	10		
	70	Food Crossing, Trees & EB Pole	156+180	156+550	Kandamattidil & Perunnalankallur	70		
	50	River crossing & Trees	156+550	156+600	River crossing & Trees	50		
	60	River crossing & Trees	156+700		River crossing & Trees	60		
	10	House, Electrical pole	157+080					
	60	Fish Pond, Water storage tank & Trees	157+100		Fish Pond, Water storage tank & Trees	60		
	50	Road crossing, Electrical pole & Trees	157+150		Manakombal to Thiruvannalur	50		



Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	30	Nala Crossing, Electrical Pole & Trees	15/+155		Nala Crossing & Trees	30		
	50	Fish Pond, Electrical pole & Coconut trees	15/+160	15/+150	Fish Pond, Electrical pole & Coconut trees	50		
	10	Well, Electrical Pole & Trees	15/+110		Well, Electrical Pole & Trees	10		
	60	Fish pond & Coconut trees (15 road)	15/+70	15/+80	Trees (70 road)	60		
	70	Fish pond	15/+80	15/+850	Fish pond	70		
	70	Fish pond & Coconut trees	15/+850	15/+970	Fish pond & Coconut trees	70		
	60	Electrical Pole, Jungle & Trees	15/+970	15/+980	Electrical Pole, Jungle & Trees	60		
	70	Next crop planted due to dispute in compensation, Electrical pole & Trees	15/+980	158+050	Next crop planted due to dispute in compensation, Electrical pole & Trees	70		
	100	Next crop planted due to dispute in compensation, & Canal crossing	158+050	158+150	Next crop planted due to dispute in compensation, & Canal crossing	100		
	130	Next crop planted due to dispute in compensation, Canal crossing & Trees	158+150	158+780	Next crop planted due to dispute in compensation, Canal crossing & Trees	130		
	20	High Tension Tower	158+850		-	-		
	40	Canal crossing, Jungle & Trees	159+080	159+170	Canal crossing, Jungle & Trees	40		
	40	Canal crossing, Jungle & Trees	159+170	159+180	Canal crossing, Jungle & Trees	40		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	10	Jungle	159+300		Jungle	10		
	10	Trees & Electrical Pole	159+100		Pump set Base wall & Trees	20		
	10	Electrical Pole	159+150		Electrical Pole	10		
	20	Canal crossing Jungle & Trees	159+510		Canal crossing Jungle & Trees	10		
	20	Electrical Pole & line crossing	159+580		House & Trees	20		
	90	Trees, Jungle & Electrical Pole	159+610	159+700	Trees, Jungle & Electrical Pole	90		
	20	Pump set Jungle & Trees	159+700	159+720	Electrical Pole, Jungle & Trees	20		
	100	Next crop planted due to dispute in compensation.	159+800	159+900	Next crop planted due to dispute in compensation.	100		
	10	Electrical Pole	159+950					
			160+080	160+120	Trees, Jungle & Electrical Pole	40		
	10	House	160+120	160+160	House: 10 nos. Water Tank & Trees	40		
	20	House, Trees (20 nos), Electrical pole & line crossing	160+160	160+180	Coconut Trees	20		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	10	Houses & Hut	160+180	160+220	Standing Crop	10		
	20	Coconut Trees (16 nos)	160+230		Next crop planted due to dispute in compensation. & Electrical Pole	80		
	10	Well, Pump set, Electrical Pole & Trees	160+510		Next crop planted due to dispute in compensation.	100		
	10	Pump house, Electrical Pole & trees	160+670		Small structure, Electrical Pole & trees	10		
	70	Canal crossing, Jungle, Trees & Electrical Pole	160+710	160+780	Canal crossing, Jungle, Trees & Electrical Pole	70		
	50	Temple, Electrical Pole, Trees & Jungle	160+780		Temple & Electrical Pole	50		
	70	Bore well, Trees (16 nos), Electrical Pole	160+950	161+020	Trees & Electrical Pole	70		
	60	River crossing & Trees	161+070	161+080	River crossing & Trees	60		
	30	Jungle, Trees & Mud Road crossing	161+080	161+110	Jungle, Trees & Mud Road crossing	30		
	10	Bore well & Pump set	161+110	161+150	Electrical Pole	10		
	20	Canal crossing, Jungle & Trees	161+200	161+220	Canal crossing, Jungle & Trees	20		
	10	Electrical Pole, Jungle & Trees	161+170		Electrical Pole, Jungle & Trees	10		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	10	Electrical Pole, Jungle & Trees	161+150	161+500	Electrical Pole, Jungle & Trees	50		
	20	Pump room, Electrical pole	161+550		Trees & Jungle	30		
	10	Pump set, Electrical Pole & Trees	161+800		Electrical Pole & Trees	10		
	100	Standing Crop, Electrical Poles & Road crossing	162+000	162+100	Standing Crop, Electrical Poles & Road crossing	100		
	50	Standing Crop, Electrical Poles & Trees & Pond	162+100	162+150	Pump set, Standing Crop, Electrical Poles & Trees & Pond	50		
	100	Canal crossing, Electrical Poles	162+150	162+250	House, Trees & road, Bare wall & Pump Set	100		
	80	Well, Pond & Trees	162+250		Pond & Trees	80		
	70	Electrical Pole, Jungle & Trees	162+100		Electrical Pole, Jungle & Trees	70		
			162+570	162+580	Electrical Pole & road, Jungle & Trees	60		
	70	River crossing, Jungle & Trees	162+580	162+650	River crossing, Fencing, Jungle & Trees	70		
	30	Temples & road, Trees & Jungle	162+750	162+780	Trees & Jungle	30		
	60	Jungle, Trees & Mud Road crossing	162+850	162+910	Jungle, Trees & Mud Road crossing	60		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	10	Electrical Pole, Jungle, Trees & Road crossing	163+500	163+550	House, Trees & Electrical Pole	50		
	10	House, Electrical pole, Road Crossing & Trees	163+580	163+670	Electrical pole, Road Crossing & Trees	10		
	-	-	163+670	163+650	House, Road, Electrical pole, Road Crossing & Trees	30		
	100	River crossing, Jungle & Trees	163+700	161+100	River crossing, Jungle & Trees	100		
	25	Shops & road	161+750	161+775	Trees / road	25		
Total Hindrance on LHS in M	27850					20930	Total Hindrance on RHS in M	

## 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 As per Sch. B	Design submitted	Drawing Approved
1	Pavement Design	Km	47.835	47.835	47.835
2	Plan & Profile	Km	47.835	47.835	47.835
3	Typical Cross Sections	Type	3	-	-
4	Major Intersections	No	20	-	-
5	Minor Intersections	No	22	-	-
6	Toll Plaza (Typical Details)	No	01	-	-
7	Rest Area	No	01	-	-
8	Bus Bay	No	05	-	-
9	Service Roads	No	27.10	-	-

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

Sr. No	Description	Unit	Total Scope As per Sch. B	Design Submitted	Drawing Approved
1	Major Bridges	No	06	0	-
2	Minor Bridges	No	56	44	44
3	Grade Separated Intersection	No	06	6	6
4	VUP/PUP	No	12	12	10
5	Box /Slab Culvert	No	103	80	47
6	ROB	No	01	0	GAD approved

## 4. Physical Progress of Work

## 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 January 2019 is as follows.

CUMMULATIVE STATEMENTFor Main Carriageway

Sr. No.	Description	Total Length of Highway Excluding Toll Plaza (in. Km.)	Progress up to Previous Month (in Km)	Progress during this Month (In Km.)	Cumulative Progress Achieved up to this Month (In Km)	In Progress (In Km.)	Balance Length to be Completed	Cumulative % of Progress Achieved
1	Clearing and Grubbing							
	LHS	46.925	19.08	0	19.08	0	27.845	40.66%
	RHS	46.925	18.75	0	18.75	0	28.175	39.96%
2	Embankment							
	LHS	46.925	0	0	0	3.72	46.925	0.00%
	RHS	46.925	0	0	0	3.37	46.925	0.00%
3	Sub grade							
	LHS	46.925	0	0	0	0	46.925	0.00%
	RHS	46.925	0	0	0	0	46.925	0.00%
4	GSB/ Cement Treated Base							
	LHS	46.925	0	0	0	0	46.925	0.00%
	RHS	46.925	0	0	0	0	46.925	0.00%
5	Wet Mix Macadam							
	LHS	46.925	0	0	0	0	46.925	0.00%
	RHS	46.925	0	0	0	0	46.925	0.00%
6	Dense Bitumen Macadam							
	LHS	46.925	0	0	0	0	46.925	0.00%
	RHS	46.925	0	0	0	0	46.925	0.00%
7	Bituminous Concrete							
	LHS	46.925	0	0	0	0	46.925	0.00%
	RHS	46.925	0	0	0	0	46.925	0.00%

For Service Road

Sr. No.	Description	Total Length of Service Road (Km.)	Progress up to Previous Month (in Km)	Progress during this Month (In Km.)	Cumulative Progress Achieved up to this Month (In Km)	In Progress (In Km.)	Balance Length to be Completed	Cumulative % of Progress Achieved
1	Embankment	27.1	0	0	0	0	27.1	0.00%
2	Sub grade	27.1	0	0	0	0	27.1	0.00%
3	GSB/ Cement Treated Base	27.1	0	0	0	0	27.1	0.00%
4	Wet Mix Macadam	27.1	0	0	0	0	27.1	0.00%
5	Dense Bitumen Macadam	27.1	0	0	0	0	27.1	0.00%
6	Bituminous Concrete	27.1	0	0	0	0	27.1	0.00%

Structure Work

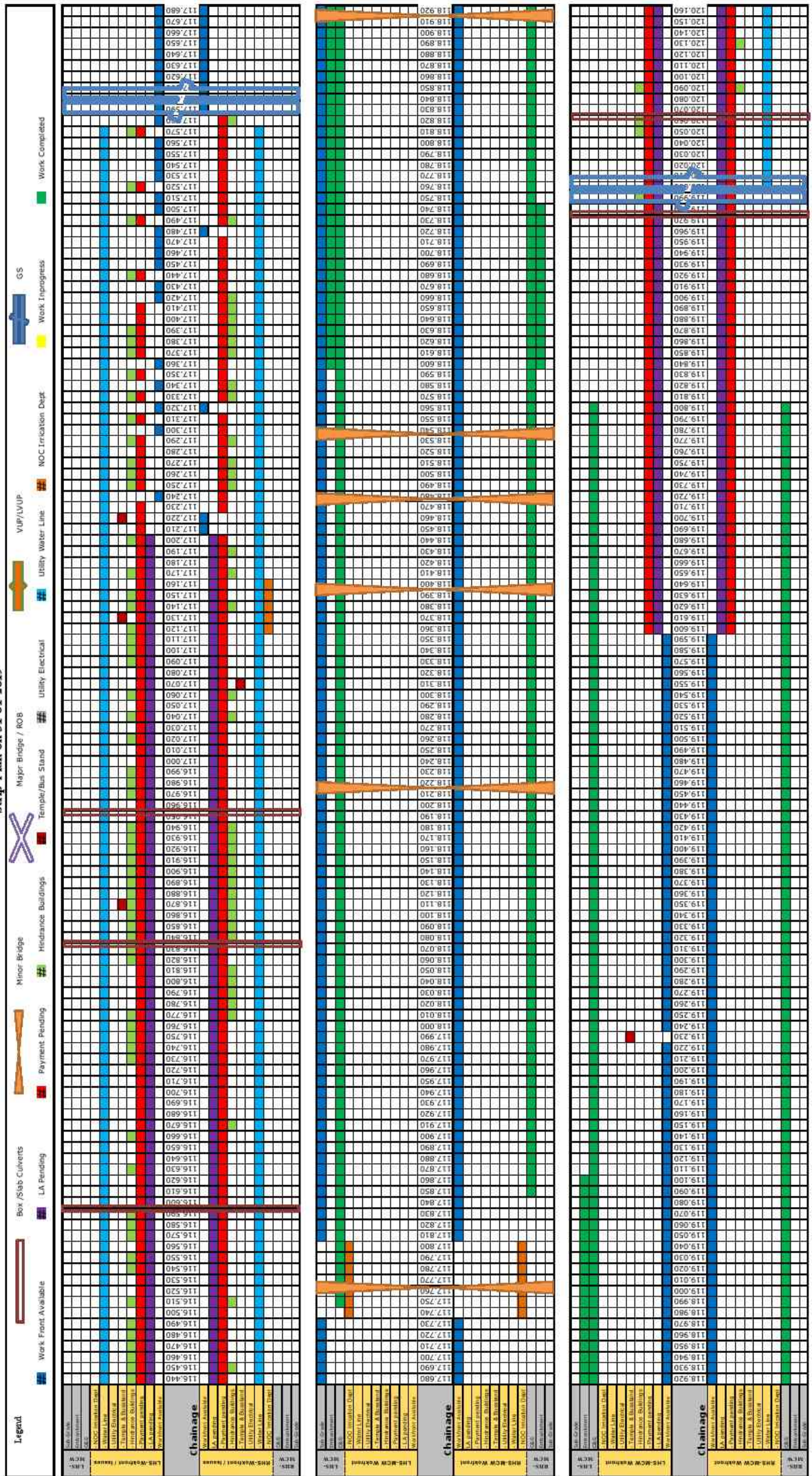
Sr. No.	Type of Structure	Total No. of Structures	No. of Structures		
			Completed	In Progress	Balance
1	Culvert	103	0	18	85
2	Light Vehicular Underpass	2	0	0	2
3	Vehicular Underpass	10	0	1	9
4	Minor Bridges	56	0	10	46
5	Major Bridge	5	0	0	5
6	Flyover	6	0	0	6



# 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

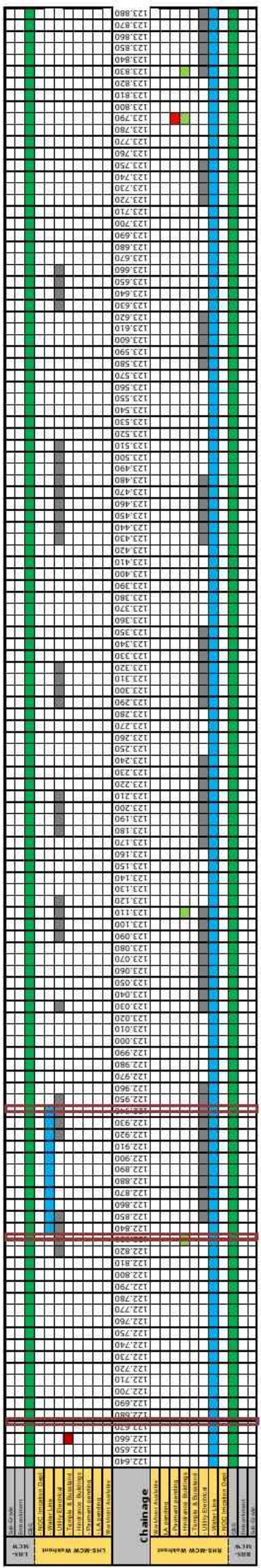
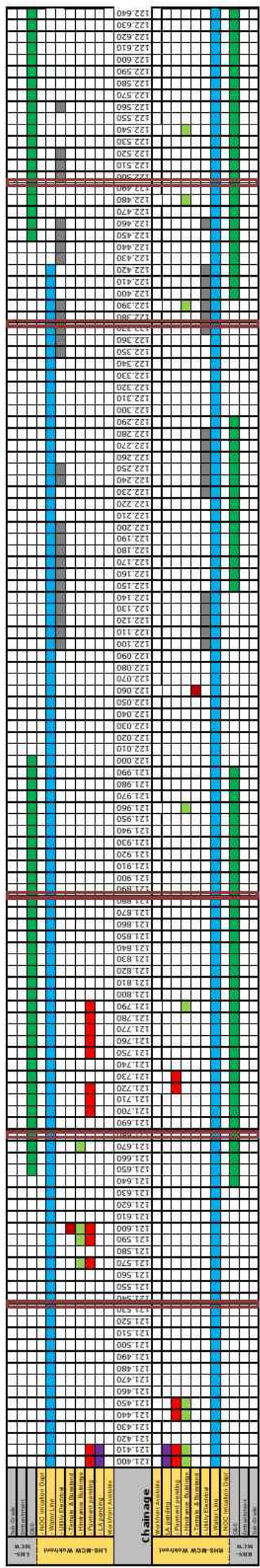
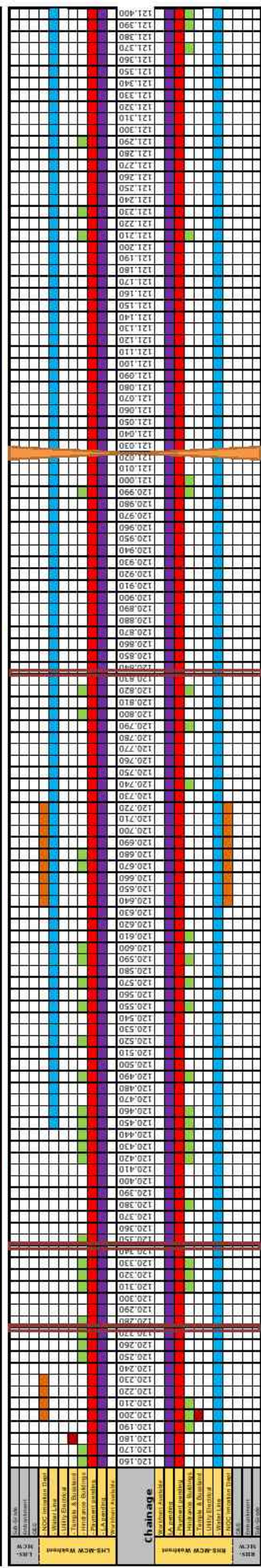
Cholopuram - Thanjavur Road Project

Strip Plan on 31-01-2019



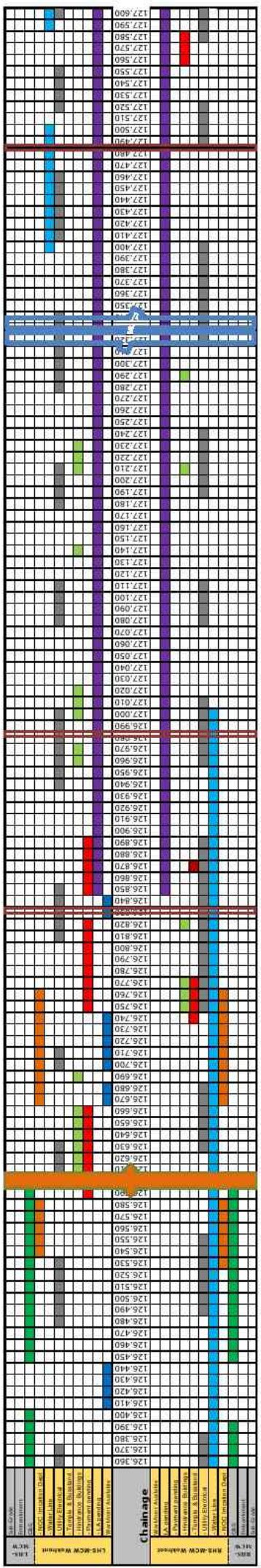
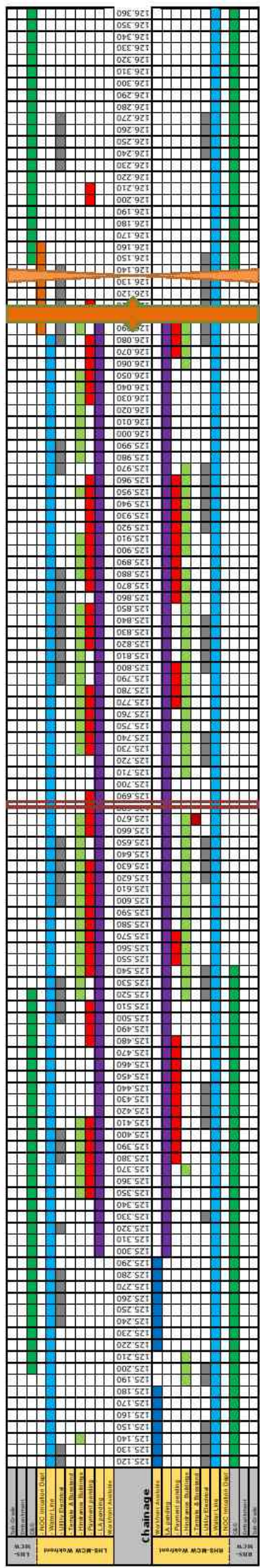
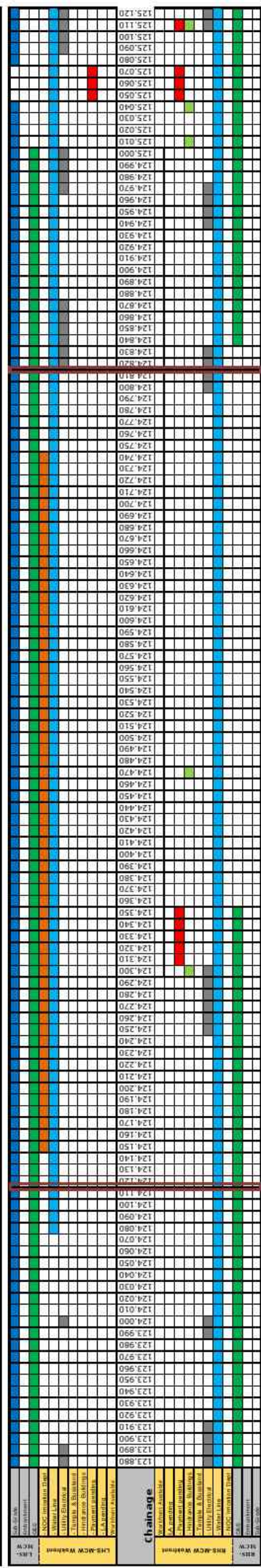
**Four Laning of Cholopuram to Thanjavur from Km.116.440 to Km.164.275 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode**  
 Cholopuram - Thanjavur Road Projects

**Strip Plan on 31-01-2019**



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

**Strip Plan on 31-01-2019**

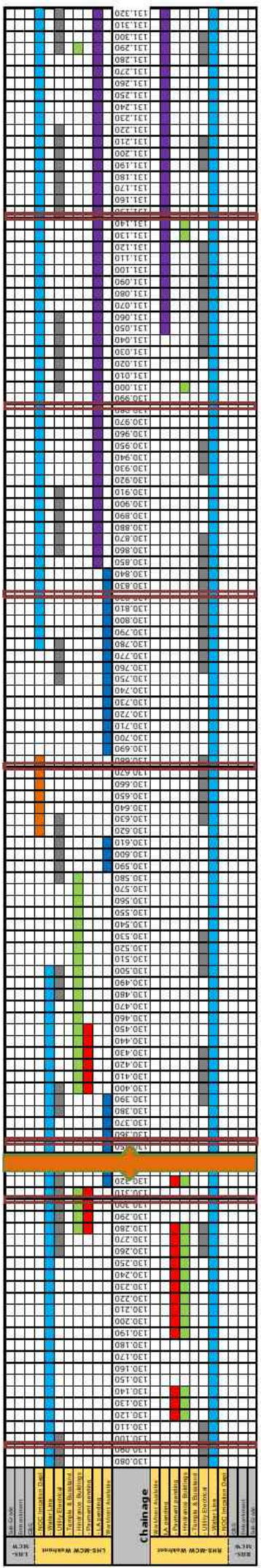
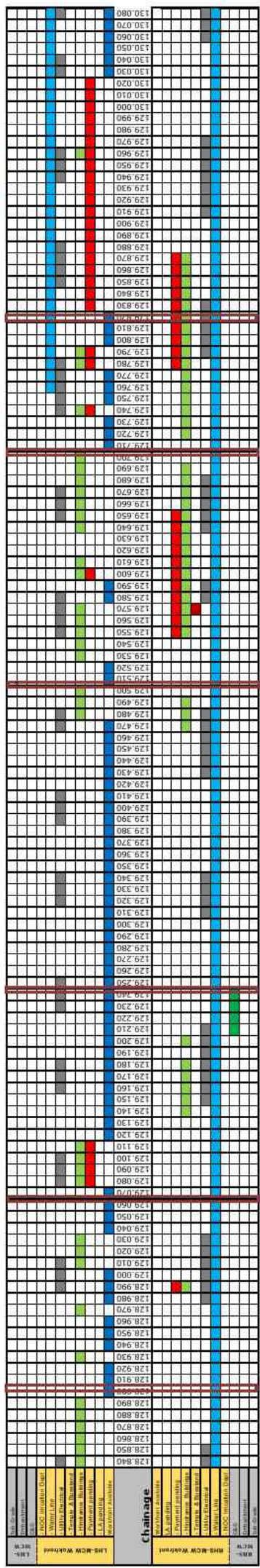
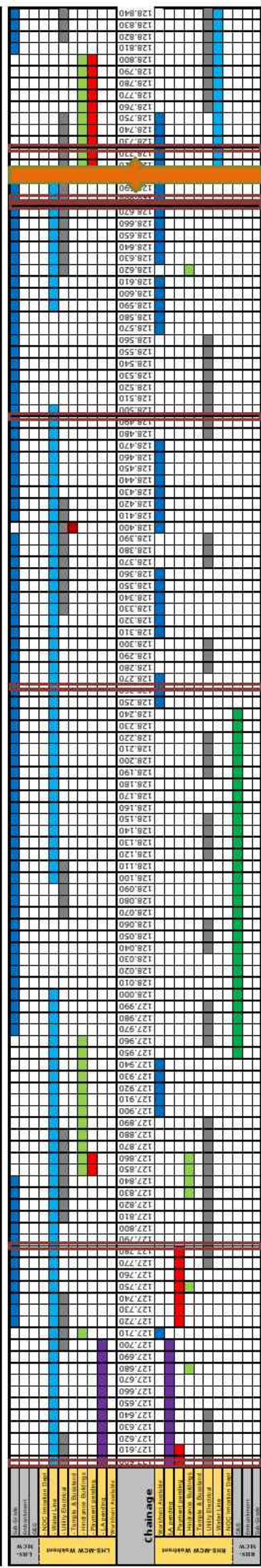


**Four Laning of Cholopuram to Thanjavur from Km.116.440 to Km.164.275 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode**  
 Cholopuram - Thanjavur Road Projects

**Strip Plan on 31-01-2019**

**Legend**

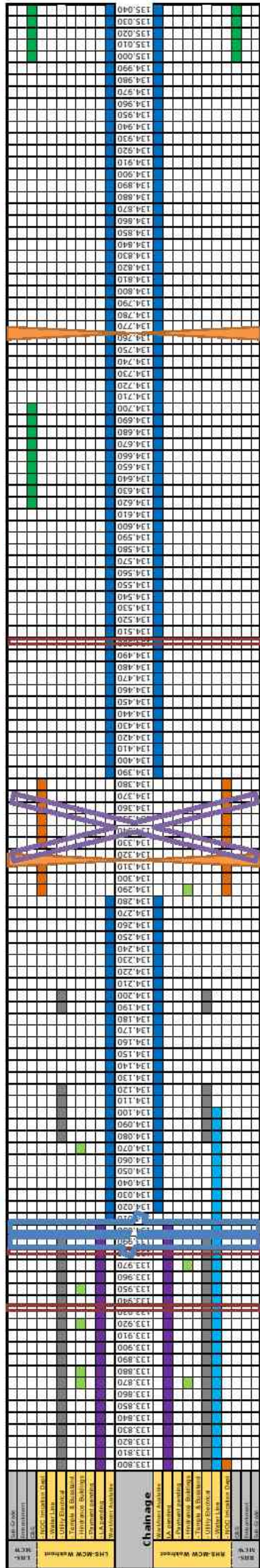
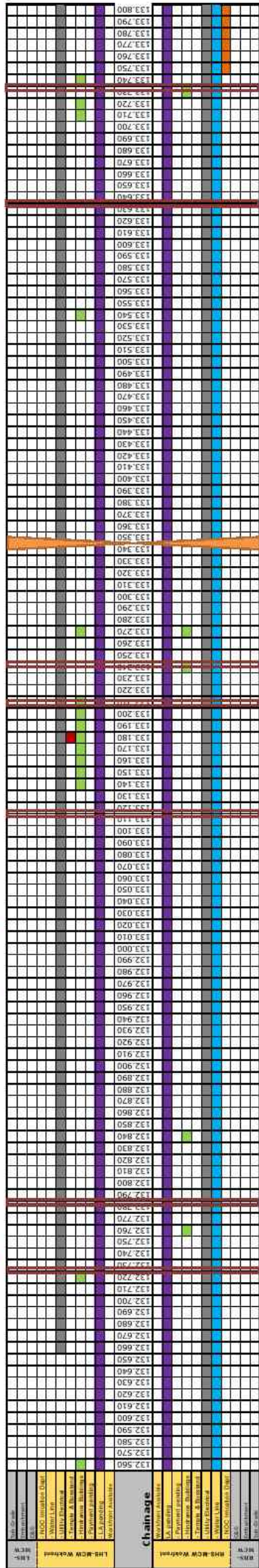
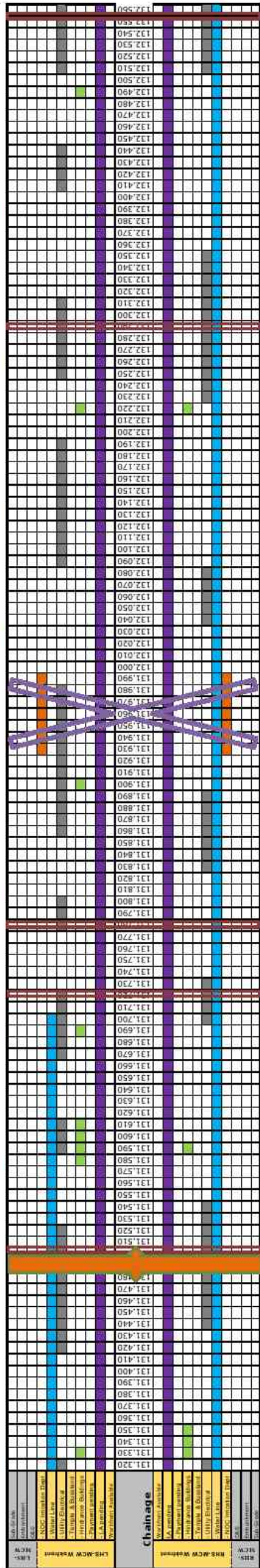
- Work Front Available
- Box /Slab Culverts
- Minor Bridge
- Major Bridge / ROB
- USRY Electrical
- USRY Water Line
- VUP/LVUP
- GS
- Work Pending
- LA Pending
- Payment Pending
- Temple/Bus Stand
- NOCC/Inkation Dept
- Work Inprogress
- Work Completed



**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 Road Projects

**Strip Plan on 31-01-2019**

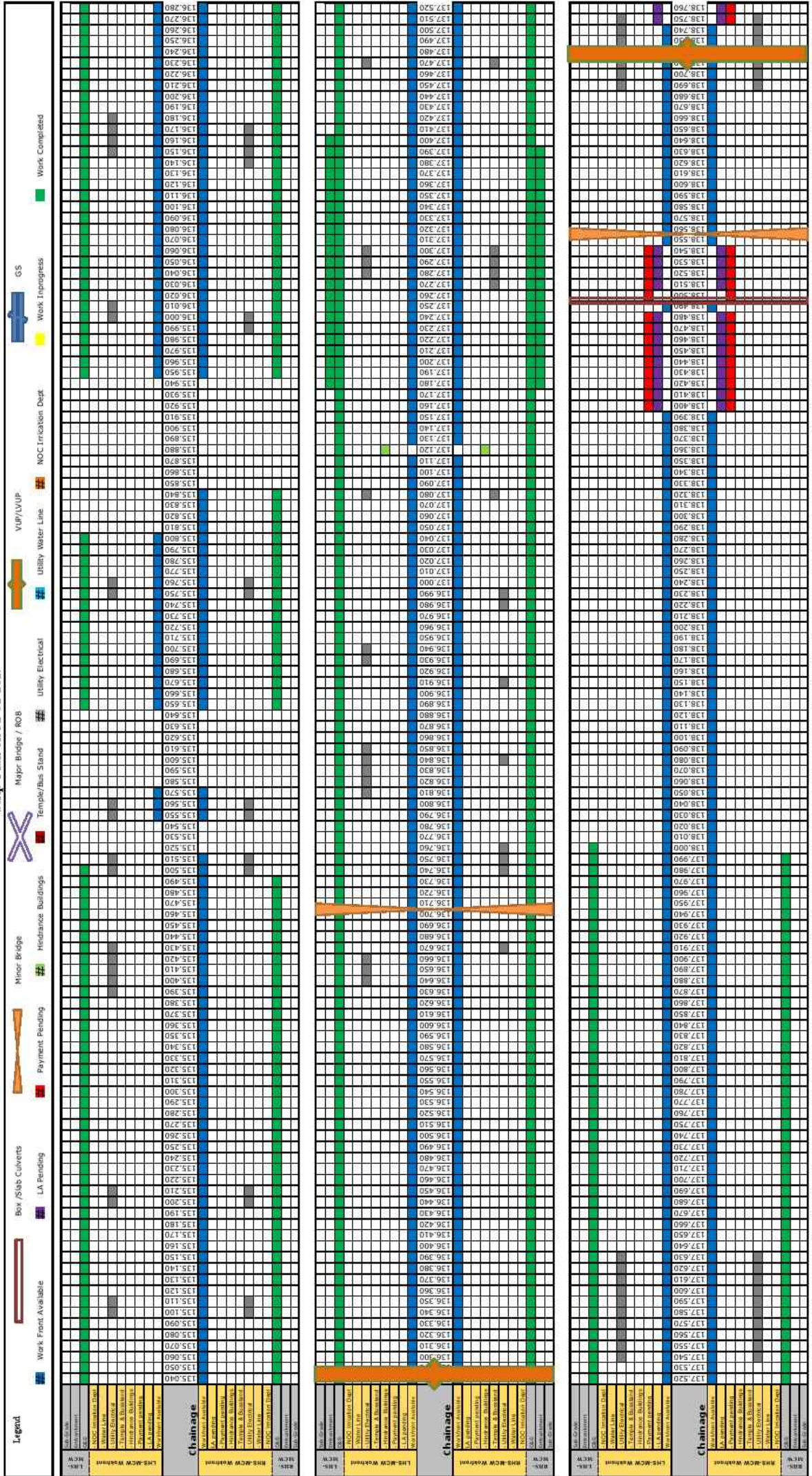
	Work Front Available		Box / Slab Culverts		Minor Bridge		Hazardous Buildings		Major Bridge / ROB		USBY Electrical		VUP/LVUP		GS
	LA Pending		Payment Pending		Temple/Bus Stand		USBY Water Line		NOC/Enclosure Dept		Work In Progress		Work Completed		



**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 Road Projects

Strip Plan on 31-01-2019

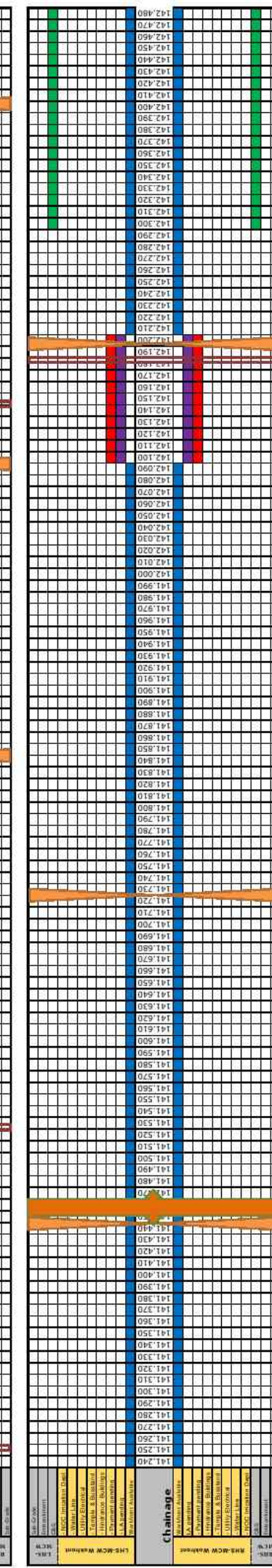
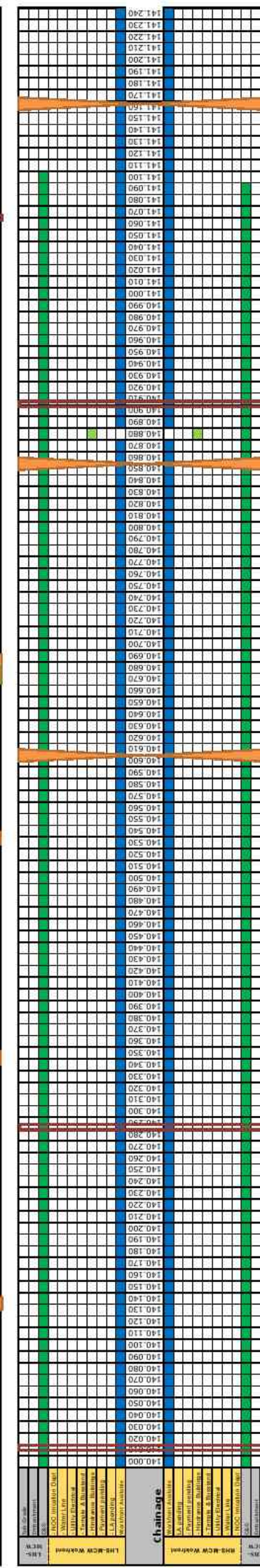
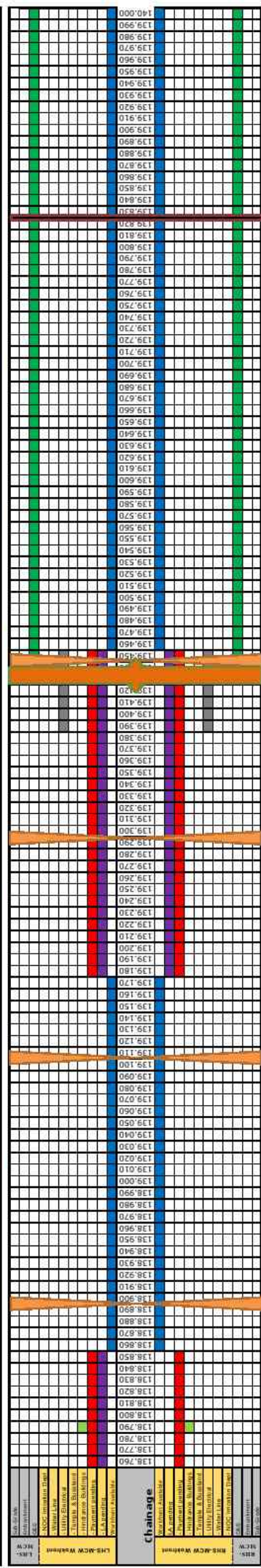


**Four Laning of Cholopuram to Thanjavur from Km.116.440 to Km.164.275 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode**  
 Cholopuram - Thanjavur Road Projects

**Strip Plan on 31-01-2019**

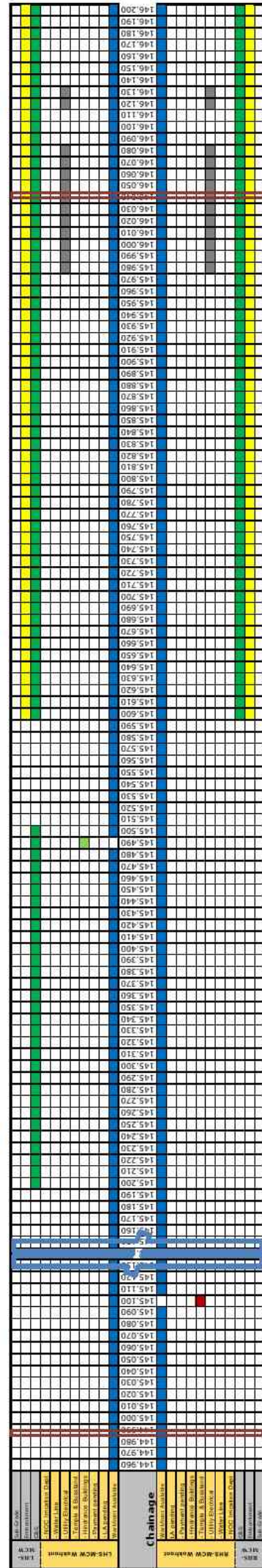
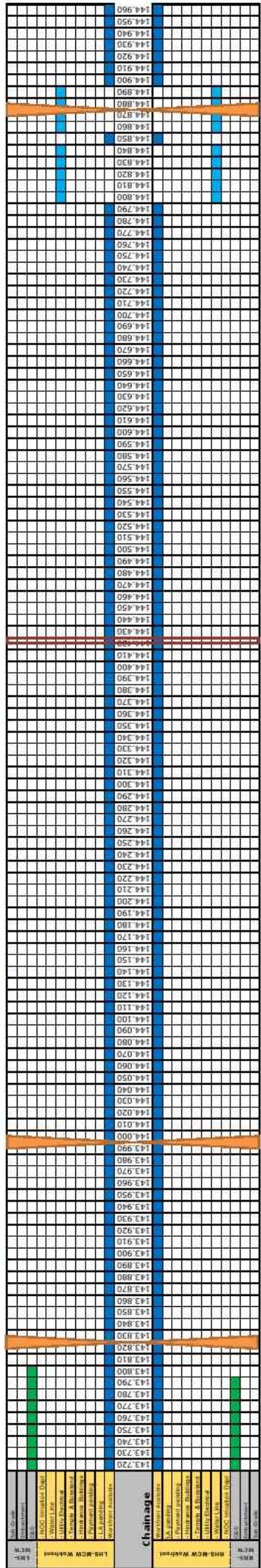
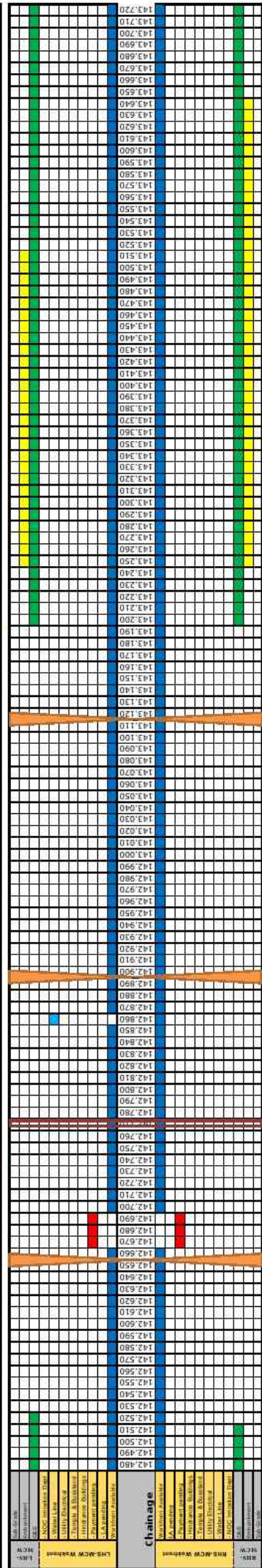
**Legend**

- Work Front Available
- Box /Slab Culverts
- Minor Bridge
- Major Bridge / ROB
- USRY Water Line
- USRY Electrical
- USRY
- Work Pending
- LA Pending
- Payment Pending
- Heightened Buildings
- USRY
- Work Completed
- Work Inprogress
- GS



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 Road Projects

Strip Plan on 31-01-2019





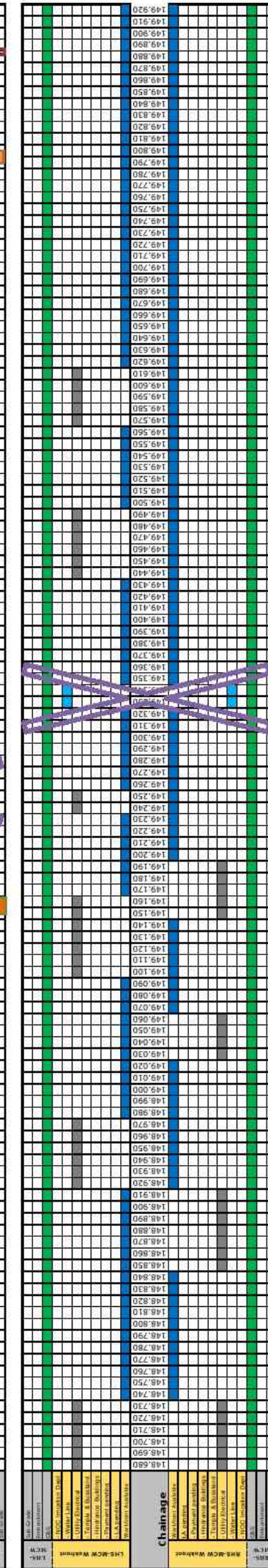
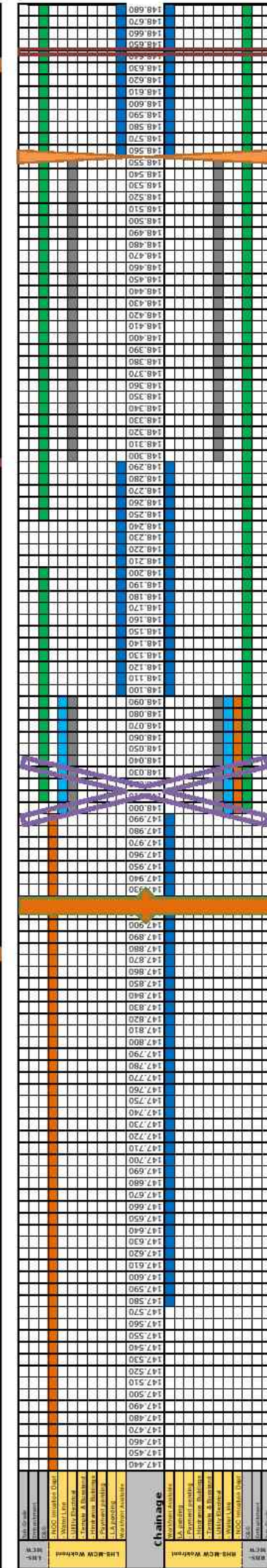
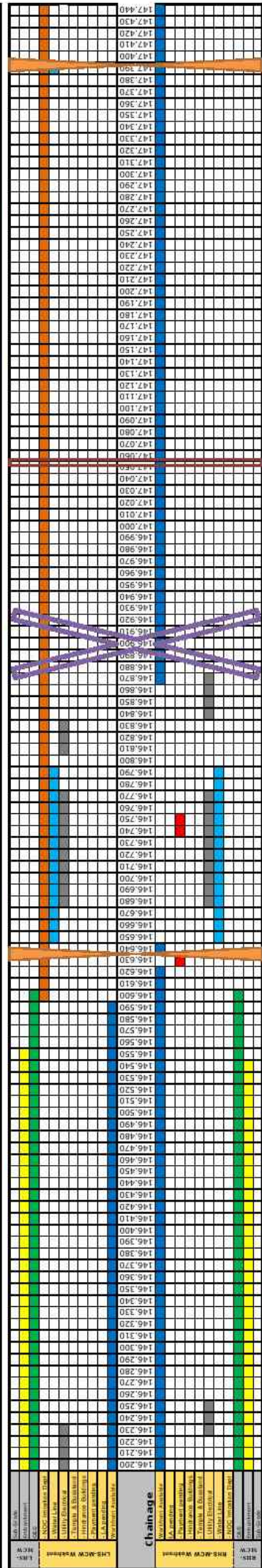
# Four Laning of Cholopuram to Thanjavur from Km.116.440 to Km.164.275 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode

Cholopuram - Thanjavur Road Projects

Strip Plan on 31-01-2019

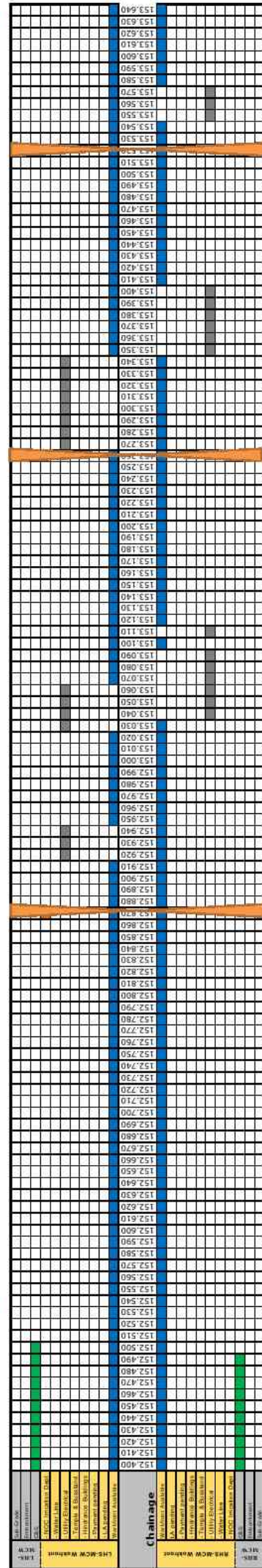
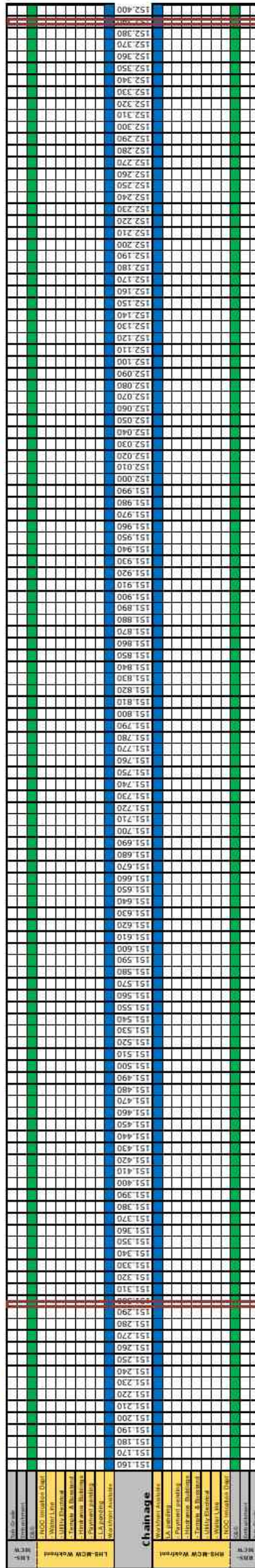
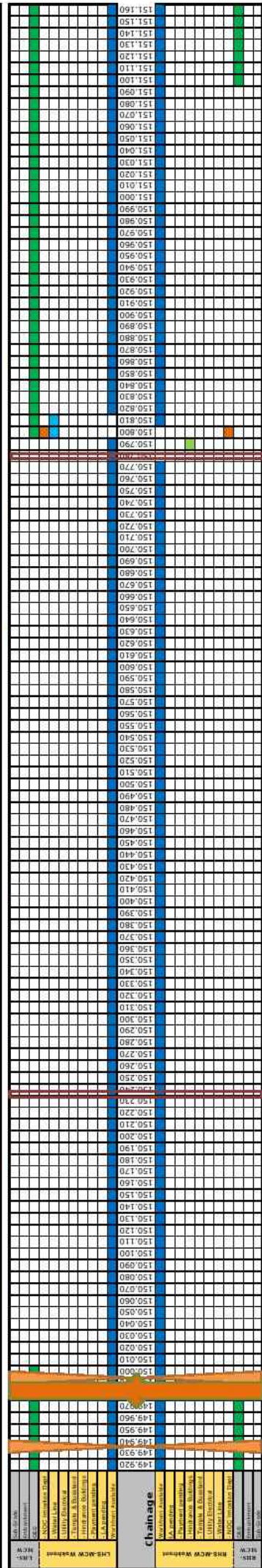
**Legend**

- Work Front Available
- Box /Sub-Culverts
- Minor Bridge
- Major Bridge / ROB
- USBBY Water Line
- VUP/LVUP
- GS
- Work Pending
- Payment Pending
- Heedance Buildings
- USBBY Electrical
- NOC/Enclination Dept
- Work Inprogress
- Work Completed



**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 Road Projects

**Strip Plan on 31-01-2019**

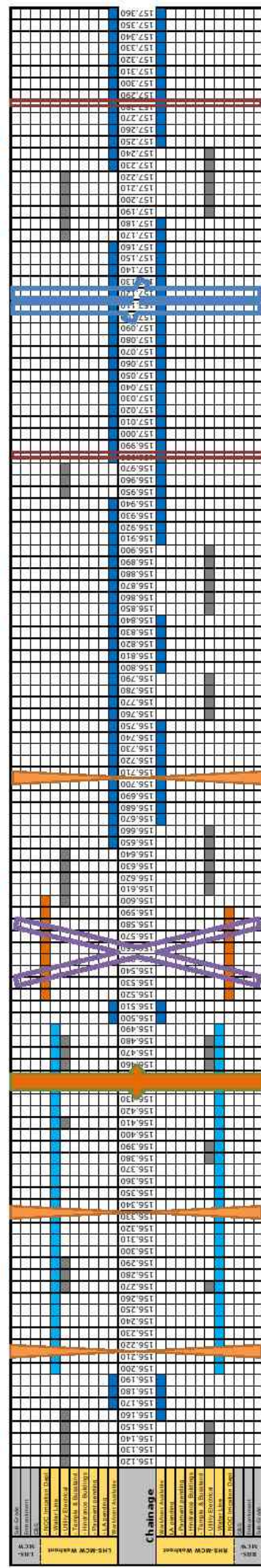
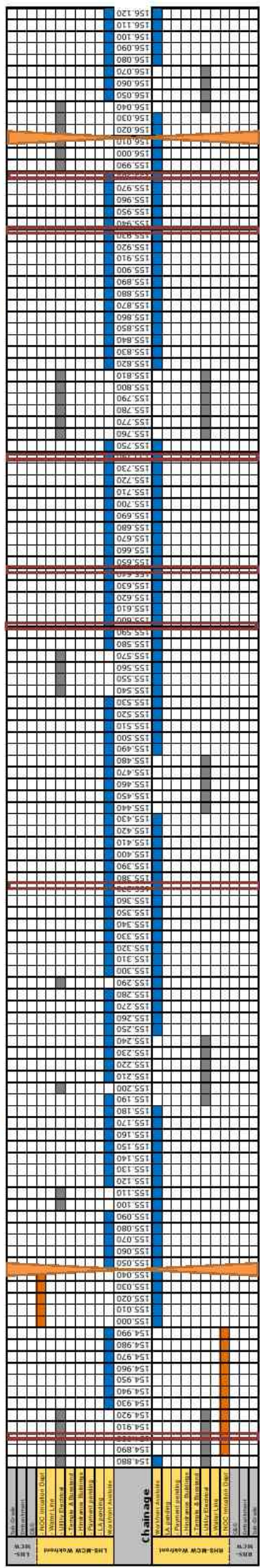
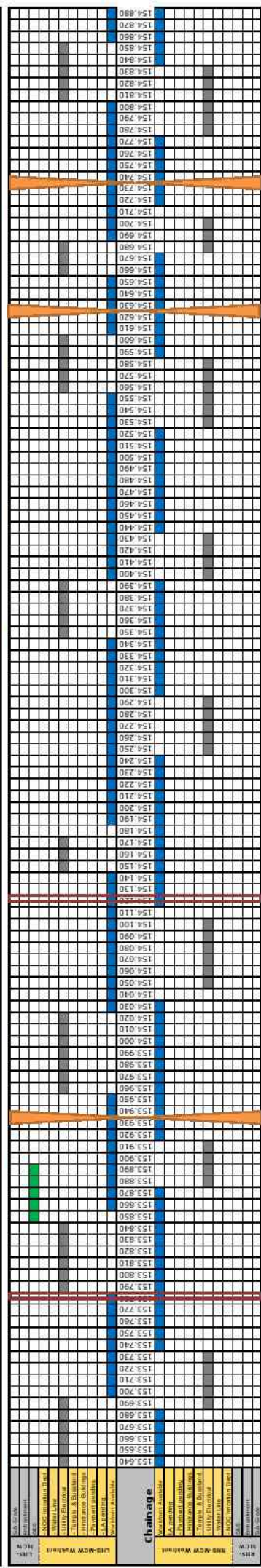


**Four Laning of Cholopuram to Thanjavur from Km.116.440 to Km.164.275 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode**  
 Cholopuram - Thanjavur Road Projects

**Strip Plan on 31-01-2019**

**Legend**

- Work Front Available
- Box /Slab Culverts
- Minor Bridge
- Major Bridge / ROB
- USBY Water Line
- VUP/LVUP
- GS
- Work Pending
- LA Pending
- Payment Pending
- Heardance Buildings
- Temple/Bus Stand
- USBY Electrical
- NOC/Enclination Dept
- Work Inprogress
- Work Completed

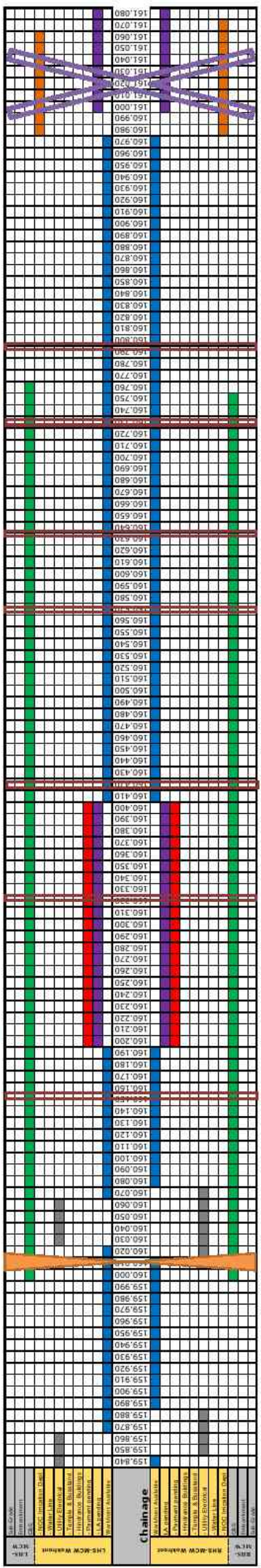
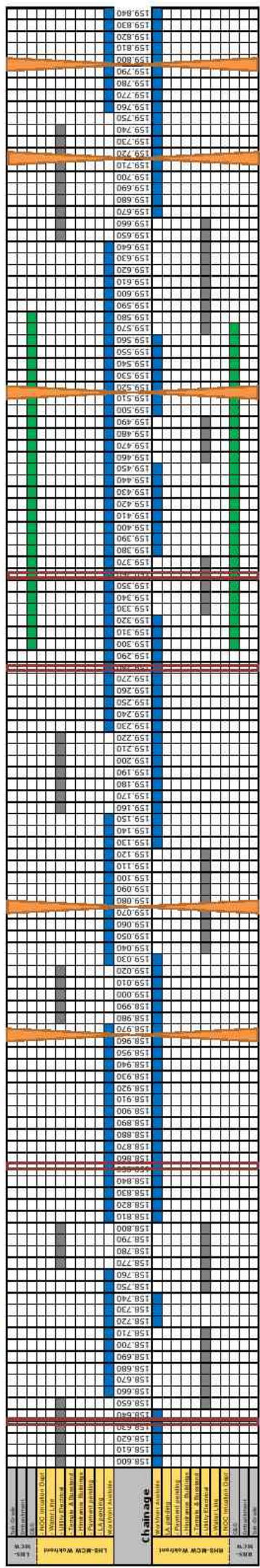
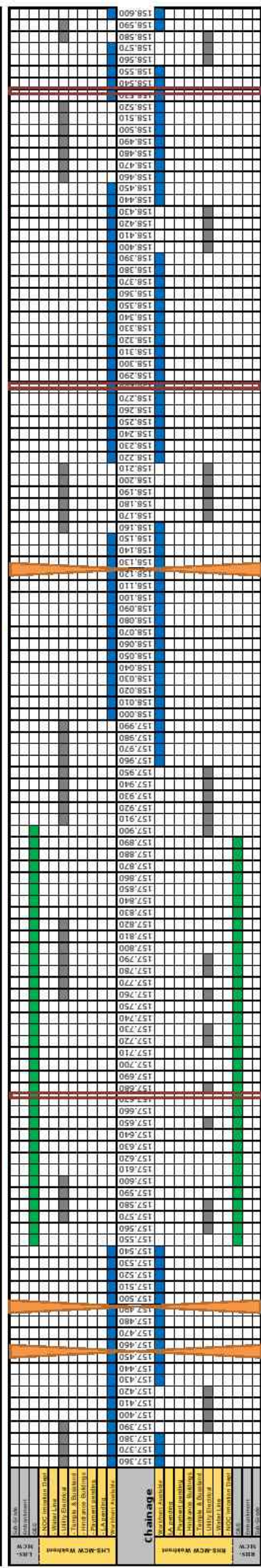


**Four Laning of Cholopuram to Thanjavur from Km.116.440 to Km.164.275 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode**  
 Cholopuram - Thanjavur Road Projects

**Strip Plan on 31-01-2019**

**Legend**

- Work Front Available
- Box /Slab Culverts
- Minor Bridge
- Major Bridge / ROB
- USRY Water Line
- VUP/LVUP
- GS
- Work Pending
- LA Pending
- Payment Pending
- Heardance Buildings
- USRY Electrical
- NOC/Enclination Dept
- Work Inprogress
- Work Completed

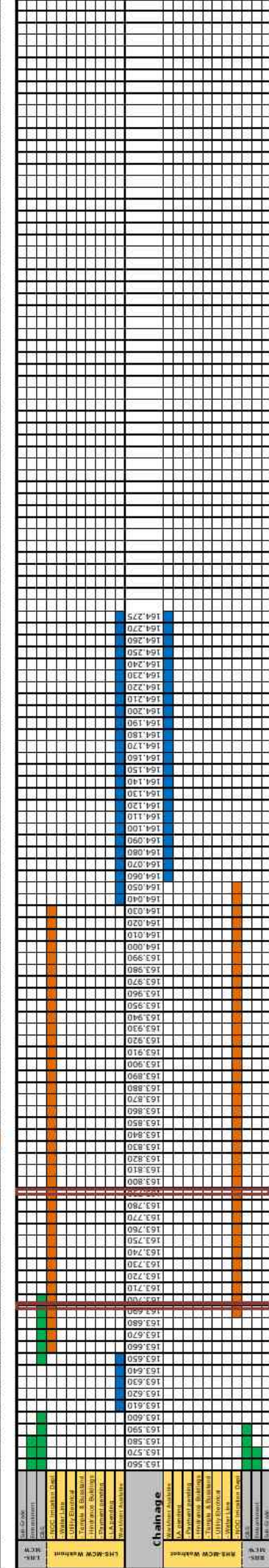
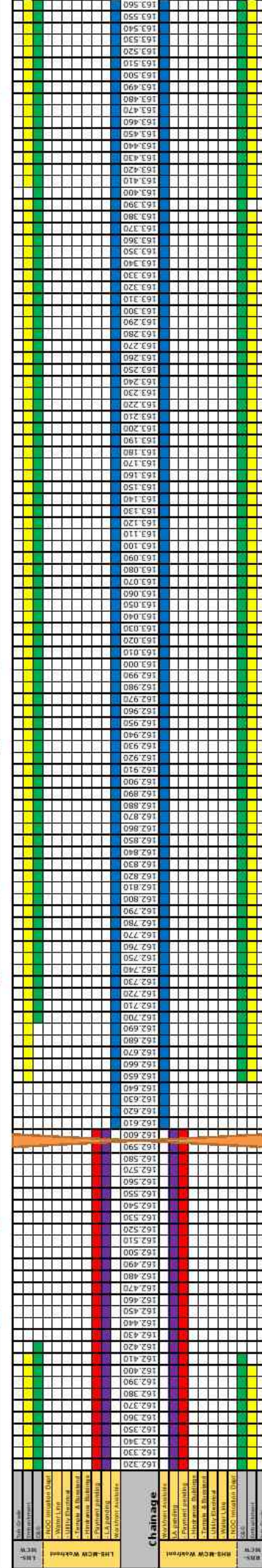
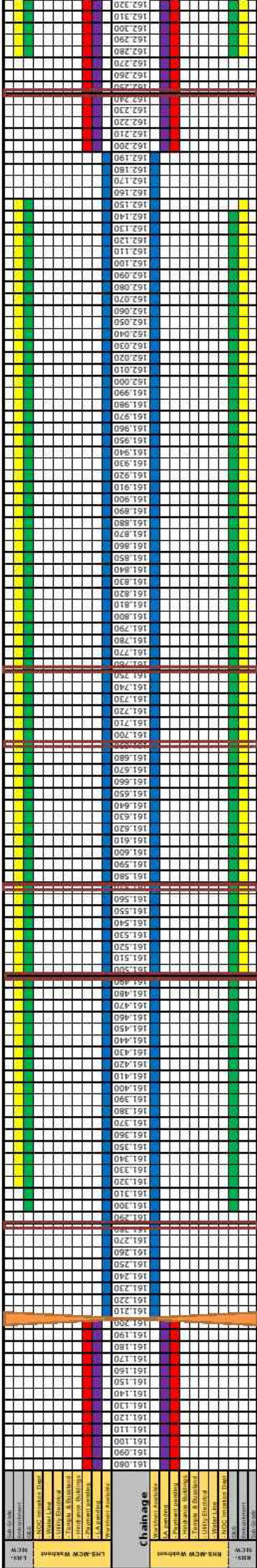


**Four Laning of Cholopuram to Thanjavur from Km.116.440 to Km.164.275 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode**  
 Cholopuram - Thanjavur Road Projects

**Strip Plan on 31-01-2019**

**Legend**

- Work Front Available
- Box /Slab Culverts
- Minor Bridge
- Major Bridge / ROB
- USRY Water Line
- VUP/LVUP
- GS
- Work Pending
- Payment Pending
- Heightened Buildings
- USRY Electrical
- NOC/Enclaves Dept
- Work Inprogress
- Work Completed





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

Annunity Mode

Table 4.2.2 - Strip Chart for status of Box Culverts on Bypass										COMPLETED									
MPP JANUARY 2019										LHS					RHS				
Sr. No.	Design Chainage As per CA	Revised Design Chainage	Number and Length of Spans (m)	Remarks	Type of Structure	Protection Work	Slab	Wall	Raft	PCC	Granular Filling	Excavation	Granular Filling	PCC	Raft	Wall	Slab	Protection Work	
1	119.971		1x1.5	Reconstruction	Slab Culvert														
2	134.500		1x2.0m x 2.0m	New Construction	Box Culvert														
3	138.492		1x4.0m x 2.0m	New Construction	Box Culvert														
4	139.827	139.856	1x2.0m x 2.0m	New Construction	Box Culvert														
5	140.010	140.040	1x2.0m x 2.0m	New Construction	Box Culvert														
6	140.292	140.322	1x3.0m x 2.0m	New Construction	Box Culvert														
7	140.911	140.945	1x4.0m x 2.0m	New Construction	Box Culvert														
8	142.189	142.048	1x4.0m x 2.0m	New Construction	Box Culvert														
9	142.776	142.812	1x4.0m x 2.0m	New Construction	Box Culvert														
10	144.426		1x4.0m x 2.0m	New Construction	Box Culvert														
11	146.049	146.079	1x3.0m x 2.0m	New Construction	Box Culvert														
12	147.060	147.093	1x4.0m x 2.0m	New Construction	Box Culvert														
13	148.650		1x4.0m x 2.0m	New Construction	Box Culvert														
14	150.237		1x4.0m x 2.0m	New Construction	Box Culvert														
15	150.780		1x4.0m x 2.0m	New Construction	Box Culvert														
16	152.390		1x4.0m x 2.0m	New Construction	Box Culvert														
17	153.781		1x2.0m x 2.0m	New Construction	Box Culvert														
18	154.129		1x4.0m x 2.0m	New Construction	Box Culvert														
19	154.900		1x3.0m x 2.0m	New Construction	Box Culvert														
20	155.381		1x4.0m x 2.0m	New Construction	Box Culvert														
21	155.601		1x4.0m x 2.0m	New Construction	Box Culvert														
22	155.645		1x3.0m x 2.0m	New Construction	Box Culvert														
23	155.743		1x2.0m x 2.0m	New Construction	Box Culvert														
24	155.938		1x4.0m x 2.0m	New Construction	Box Culvert														
25	156.984		1x3.0m x 2.0m	New Construction	Box Culvert														
26	157.283		1x4.0m x 2.0m	New Construction	Box Culvert														
27	157.678		1x4.0m x 2.0m	New Construction	Box Culvert														
28	158.283		1x2.0m x 2.0m	New Construction	Box Culvert														
29	158.531		1x2.0m x 2.0m	New Construction	Box Culvert														
30	158.639		1x2.0m x 2.0m	New Construction	Box Culvert														
31	158.852		1x5.0m x 2.0m	New Construction	Box Culvert														
32	159.282		1x4.0m x 2.0m	New Construction	Box Culvert														
33	159.361		1x3.0m x 2.0m	New Construction	Box Culvert														
34	160.157		1x4.0m x 2.0m	New Construction	Box Culvert														
35	160.326		1x3.0m x 2.0m	New Construction	Box Culvert														
36	160.420		1x2.0m x 2.0m	New Construction	Box Culvert														
37	160.572		1x2.0m x 2.0m	New Construction	Box Culvert														
38	160.635		1x2.0m x 2.0m	New Construction	Box Culvert														
39	160.733		1x2.0m x 2.0m	New Construction	Box Culvert														
40	160.798		1x2.0m x 2.0m	New Construction	Box Culvert														
41	161.288		1x4.0m x 2.0m	New Construction	Box Culvert														
42	161.499		1x2.0m x 2.0m	New Construction	Box Culvert														
43	161.573		1x4.0m x 2.0m	New Construction	Box Culvert														
44	161.693		1x2.0m x 2.0m	New Construction	Box Culvert														
45	161.757		1x2.0m x 2.0m	New Construction	Box Culvert														
46	162.213		1x4.0m x 2.0m	New Construction	Box Culvert														





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

Annuitiy Made

Table 4.2 - 3 : Strip Chart for Status of MIB - Box

S.No.	Design Chainage As per CA.	Paved Chainage	Number and Length of Spans (m)	Type of Structure	III PROGRESS					COMPLETED						
					Slab	Wall	Path	FCC	Granular Filling	Excavation	Protection Work	Slab	Wall	Path	FCC	Granular Filling
<b>UNDER EXISTING LENGTH</b>																
1	171.001		1 x 6.0m	M&BB	Existing											
2	172.015		3 x 7.5m	M&BB	Existing											
3	173.215		3 x 12.5m	M&BB	Existing											
<b>UNDER NEW PROPOSED LENGTH</b>																
4	117.761		2 x 10.0m	M&BB	Bypass											
5	118.017		1 x 8.0m	M&BB	Bypass											
6	118.100	119.570	1 x 6.0m	M&BB	Bypass											
7	118.180	118.180	1 x 6.0m	M&BB	Bypass											
8	118.539	119.100	1 x 8.0m	M&BB	Bypass											
9	118.619		1 x 6.0m	M&BB	Bypass											
10	119.270		2 x 10.0m	M&BB	Bypass											
11	121.770		1 x 10.0m	M&BB	Bypass											
12	126.705	136.738	1 x 6.0m	M&BB	Bypass											
13	138.555		1 x 6.0m	M&BB	Bypass											
14	139.153		1 x 7.0m	M&BB	Bypass											
15	140.605		1 x 6.0m	M&BB	Bypass											
16	140.850		1 x 6.0m	M&BB	Bypass											
17	141.161		1 x 10.0m	M&BB	Bypass											
18	141.115		1 x 6.0m	M&BB	Bypass											
19	141.797	141.797	1 x 8.0m	M&BB	Bypass											
20	142.001		1 x 8.0m	M&BB	Bypass											
21	142.667		1 x 6.0m	M&BB	Bypass											
22	142.897		2 x 8.0m	M&BB	Bypass											
23	143.803		2 x 8.0m	M&BB	Bypass											
24	144.000		2 x 10.0m	M&BB	Bypass											
25	146.639		1 x 10.0m	M&BB	Bypass											
26	147.395		1 x 8.0m	M&BB	Bypass											
27	148.560		1 x 8.0m	M&BB	Bypass											
28	149.910		1 x 10.0m	M&BB	Bypass											
29	149.997		1 x 6.0m	M&BB	Bypass											
30	150.876		2 x 10.0m	M&BB	Bypass											
31	153.063		1 x 10.0m	M&BB	Bypass											
32	153.578		1 x 6.0m	M&BB	Bypass											
33	153.628		1 x 10.0m	M&BB	Bypass											
34	154.676		1 x 6.0m	M&BB	Bypass											
35	154.739		1 x 10.0m	M&BB	Bypass											
36	156.011		1 x 8.0m	M&BB	Bypass											
37	156.216		1 x 6.0m	M&BB	Bypass											
38	156.236		1 x 6.0m	M&BB	Bypass											
39	156.607		1 x 10.0m	M&BB	Bypass											
40	157.168		1 x 7.0m	M&BB	Bypass											
41	157.191		1 x 8.0m	M&BB	Bypass											
42	158.178		1 x 7.0m	M&BB	Bypass											
43	158.972		1 x 6.0m	M&BB	Bypass											
44	159.076		1 x 8.0m	M&BB	Bypass											
45	159.723		1 x 6.0m	M&BB	Bypass											
46	159.801		1 x 6.0m	M&BB	Bypass											
47	161.098		1 x 8.0m	M&BB	Bypass											

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

Table 4.2 - 4 : Strip Chart for status of PUP		IN PROGRESS						COMPLETED					
		LHS						RHS					
MPR JANUARY 2019		Excavation	PCC	Raft	Slab	Wall	Protection Work	Excavation	PCC	Raft	Slab	Wall	Protection Work
Sr. No.	Design Chainage As per CA	Number and Length of Spans (m)											
1	147.917	1 X 7 m											
2	149.988	1 X 7 m											

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

Table 4.2 - 5 : Strip Chart for status of MJB

MPR JANUARY 2019

IN PROGRESS

COMPLETED

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

Four Lining of Cholopuram to Thanjavur from Km.116.440 to Km.164.275 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode														
Table 4.2 - 6 : Strip Chart for status of FLYOVER		IN PROGRESS										COMPLETED		
MPR		LHS										RHS		
Sr.No.	FO at Chainage	Span		Crash Barrier	Slab	Girder Launching	Girder Casting	Piercap/A bitcap	Pier/A bt	Pier/A bitcap	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  
Under NHDP Phase-IV on Hybrid Annuity Mode

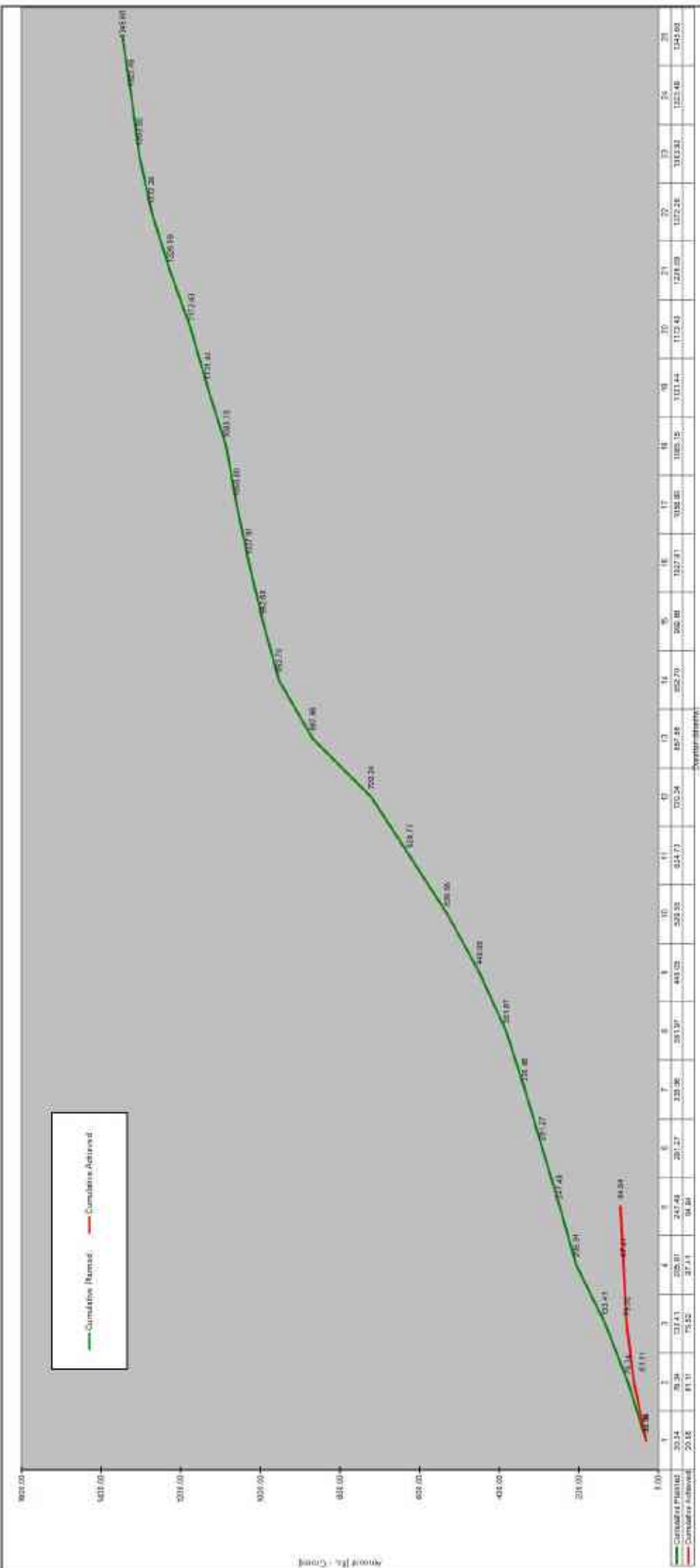
Table 4.2 - 7 : Strip Chart for status of VUP										COMPLETED																			
MPR JANUARY 2019										LHS										RHS									
SR.NO.	VUP at Chainage	Span	EXISTING	A1	A2	Crash Barrier	Slab	Girder Launching	Girder Casting	Piercap/A bitcap	Pier/A bt	Pile	Pile Cap	Pier/A bt	Piercap/A bitcap	Girder Casting	Girder Launching	Slab	Crash Barrier	Pier/A bt	Piercap/A bitcap	Girder Casting	Girder Launching	Slab	Crash Barrier				
1	126+100	1x25	EXISTING	A1	A2																								
2	126+600	1x25	EXISTING	A1	A2																								
3	128+700	1x25	EXISTING	A1	A2																								
4	130+335	1x25	EXISTING	A1	A2																								
5	131+500	1x25	EXISTING	A1	A2																								
6	136+282	1x25	BYPASS	A1	A2																								
7	138+720	1x25	BYPASS	A1	A2																								
8	139+440	1x25	BYPASS	A1	A2																								
9	141+450	1x25	BYPASS	A1	A2																								
10	156+446	1x25	BYPASS	A1	A2																								

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

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

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

Fig. 03- Financial Progress (S-Curve)



Sch. date	2019												2020												
	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Monthly Progress	30.34	46.00	57.07	72.30	41.38	49.78	45.78	46.91	67.08	80.00	95.17	95.61	147.32	85.04	92.97	35.24	30.00	36.34	40.20	41.93	52.67	46.19	31.04	19.56	22.12
Month-over-Month	30.56	30.56	18.41	7.89	7.43																				
Cumulative Progress	30.34	76.34	133.41	205.91	247.49	297.27	335.06	381.97	449.05	529.55	624.73	720.34	867.66	952.70	962.68	1027.91	1058.80	1095.15	1131.44	1173.43	1226.09	1272.28	1303.92	1323.48	1345.60
Month-over-Month (%)	2.3%	3.4%	4.2%	6.4%	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%	1.6%	1.6%
Month-over-Month (%)	2.3%	2.3%	1.4%	0.6%	0.6%																				
Year-to-date progress (%)	2.3%	5.7%	9.9%	15.3%	18.1%	21.6%	24.9%	28.4%	33.4%	39.4%	46.4%	53.5%	64.5%	70.8%	73.8%	76.4%	78.7%	80.8%	84.1%	87.2%	91.1%	94.6%	96.9%	98.4%	100.0%
Year-to-date completion (%)	2.3%	4.5%	5.91%	6.50%	7.05%																				



## 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) <u>SOIL</u>		
1	Proctor Moulds (Big) Collar or Base plate & Rammer 4.89 kg	6
2	Proctor Moulds (Small) Collar or Base plate & Rammer 2.6 kg	4
3	Atterberg Limits Test(Apparatus)	1
4	Soil Cone Penetrometer	1
5	CBR Moulds with collar or Base Plate	60
6	CBR Plunger	4
7	Proving Ring(25 KN)	1
8	Proving Ring(10 KN)	1
9	Proving Ring(2.5 KN)	1
10	FSI JARS BOROSIL -100 ml	40
11	Spacer Disc(with Handle)	4
12	CBR Testing Machine	1
13	CBR Surcharge Central Hole Weights 2.5 kg	60
14	CBR Surcharge Slotted Weights 2.5 kg	60
15	CBR Perorated Brass plates	60
16	Sand Pouring Cylinders (100 mm Dia) Complete with Calibrating Container with Trays	2
17	Sand Pouring Cylinders (150 mm Dia) Complete with Calibrating Container with Trays	2
18	Sand Pouring Cylinders (200 mm Dia) Complete with Calibrating Container with Trays	2
19	Rapid Moisture Meters	4
20	Calcium Carbide Bottles	10
21	Spatula Big	10
22	Spatula Small	10
23	Hammers big	4
24	Chisels big	20
25	Electronic Balance Capacity 100 kg (10 gram accuracy)	1
26	Electronic Balance Capacity 50 kg (1 gram accuracy)	2
27	Electronic Balance Capacity 30 kg (1 gram accuracy)	2
28	Electronic Balance Capacity 10 kg (1 gram accuracy)	1
29	Electronic Balance Capacity 5 kg (0.5 gram accuracy)	1
30	Electronic Balance Capacity 600gram(0.01 gram accuracy)	2
31	Hot Air Oven (Big)250°C	1
32	Hot Air Oven (Small)250°C	1
33	Direct Shear Test Apparatus	1

Sl. No	Equipment List	Quantity
34	Filter Paper Dia 100 mm	10
35	Filter Paper Dia 150 mm	10
36	Pipettes	4
37	Plastic Bottles	4
38	Enamel tray -450x300x40 mm	12
39	G.I tray-1500x1500x100mm	4
40	French Curves	2
<b>B) <u>CONCRETE WORKS</u></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 absorotion test apparatus with Electronic balance	1
69	DLC Compaction vibrating hammer	1
70	Cement mortar cube mould 5.0 cm	12
71	Sandard Sand Grade-1 bag of 25 kg	2
72	Sandard Sand Grade-2 bag of 25 kg	2
73	Sandard Sand Grade-3 bag of 25 kg	2
<b>C) <u>BITUMINOUS WORKS</u></b>		
74	Specific Gravity Bottels ( 50 ml )	2
75	Specific Gravity Bottels ( 100 ml )	2
Sl.	Equipment List	Quantity

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

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

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

## 6.2. Quality Control Test Summary

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

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

**Four Laning of Cholapuram - Thanjavur From km 16.440 to km 16.4275 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 : JANUARY-2019

S. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month			Tests conducted during reporting month upto 23 <sup>rd</sup> Jan-2019			Test conducted upto this month			
				No. of test Conducted EPC/ Concessionaire	Passed	Failed	No. of test witnessed by IE	No. of test Conducted EPC/ Concessionaire	Passed	Failed	No. of test witnessed by IE	No. of test Conducted EPC/ Concessionaire	Passed
<b>1.0 Tests on OGL</b>													
1.1	Grain size analysis	IS:2720 (Part4)	1 test / 250 meters	190	190	0	56	0	0	0	190	0	56
1.2	Atterberg Limits	IS:2720 (Part5)	1 test / 250 meters	190	190	0	56	0	0	190	0	56	
1.3	Proctor	IS:2720 (Part8)	1 test / 250 meters	190	190	0	56	0	0	190	0	56	
1.4	Free Swell Index	IS:2720 (Part40)	1 test / 250 meters	190	190	0	56	0	0	190	0	56	
1.5	California bearing ratio	IS:2720 (Part16)	As required	0	0	0	0	0	0	0	0	0	
<b>2.0 Borrow Area for EMB/Subgrade (MoRT&amp;H 305)</b>													
2.1	Grain size analysis	IS:2720 (Part4)	1 test / 1500 m <sup>3</sup>	175	175	0	26	0	0	175	0	26	
2.2	Atterberg Limits	IS:2720 (Part5)	1 test / 1500 m <sup>3</sup>	175	175	0	26	0	0	175	0	26	
2.3	Proctor	IS:2720 (Part8)	1 test / 1500 m <sup>3</sup>	175	175	0	26	0	0	175	0	26	
2.4	Free Swell Index	IS:2720 (Part40)	1 test / 1500 m <sup>3</sup>	175	175	0	26	0	0	175	0	26	
2.5	California bearing ratio	IS:2720 (Part16)	1 test / 3000 m <sup>3</sup>	0	0	0	0	0	0	0	0	0	
<b>3.0 Cutting portion &amp; Existing for EMB/SG (MoRT &amp; H 305)</b>													
3.1	Grain size analysis	IS:2720 (Part4)	1 test / 1500 m <sup>3</sup>	0	0	0	0	0	0	0	0	0	
3.2	Atterberg Limits	IS:2720 (Part5)	1 test / 1500 m <sup>3</sup>	0	0	0	0	0	0	0	0	0	
3.3	Proctor	IS:2720 (Part8)	1 test / 1500 m <sup>3</sup>	0	0	0	0	0	0	0	0	0	
3.4	Free Swell Index	IS:2720 (Part40)	1 test / 1500 m <sup>3</sup>	0	0	0	0	0	0	0	0	0	
3.5	California bearing ratio	IS:2720 (Part16)	1 test / 3000 m <sup>3</sup>	0	0	0	0	0	0	0	0	0	
<b>4.0 Field Density Test MoRT&amp;H 305</b>													
4.1	Field density (OGL)	IS:2720 (Part28)	1 test / 3000 sqm	1920	1920	0	1150	26	26	1946	0	1170	
4.2	EMB field density	IS:2720 (Part28)	1 test / 3000 sqm	1196	1190	6	376	70	70	1266	6	402	
4.3	SG field density	IS:2720 (Part28)	1 test / 2000 sqm	0	0	0	0	0	0	0	0	0	
4.4	Shoulder field density	IS:2720 (Part28)	1 test / 2000 sqm	0	0	0	0	0	0	0	0	0	
<b>5.0 Filter Media &amp; Backfilling MoRT&amp;H 2500</b>													
5.1	Gradation		As required	0	0	0	0	0	0	0	0	0	
5.2	Backfilling field density		1 test / 1000 m <sup>3</sup>	0	0	0	0	0	0	0	0	0	
5.3	PE Wall field density		As required	0	0	0	0	0	0	0	0	0	

S. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month			Tests conducted during reporting month upto 25 <sup>th</sup> Jan-2019			Test conducted upto this month					
				No. of test Conducted EPC/ Concessionaire	Passed	Failed	No. of test witnessed by IE	No. of test Conducted EPC/ Concessionaire	Passed	Failed	No. of test witnessed by IE	No. of test Conducted EPC/ Concessionaire	Passed	Failed	No. of test witnessed by IE
<b>6.0 Safe Bearing capacity of soil</b>															
6.1	Free Swell Index	IS:2720 (Part4)	As required	47	47	0	11	25	25	0	5	72	72	0	16
6.2	Grain size analysis	IS:2720 (Part4)	As required	47	47	0	11	25	25	0	5	72	72	0	16
6.3	Atterberg limits	IS:2720 (Part5)	As required	47	47	0	11	25	25	0	5	72	72	0	16
6.4	Proctor	IS:2720 (Part8)	As required	47	47	0	11	25	25	0	5	72	72	0	16
6.5	Direct shear Test	IS:2720 (Part13)	As required	47	47	0	11	25	25	0	5	72	72	0	16
6.6	Bearing Capacity	IS:6403 / IS 1888	As required	47	1	46	11	25	0	25	5	72	1	71	16
6.7	Plate Load Test	IS:6403 / IS 1888	As required	2	2	0	2	0	0	0	0	2	2	0	2
<b>7.0 CTSB Mix Design/Site Frequency MoRT&amp;H 403</b>															
7.1	Gradation	Table 400-4	1 test/400m <sup>3</sup>	0	0	0	0	0	0	0	0	0	0	0	0
7.2	Atterberg Limits	IS:2720 (Part5)	1 test/400m <sup>3</sup>	0	0	0	0	0	0	0	0	0	0	0	0
7.3	Proctor	IS:2720 (Part8)	As required	0	0	0	0	0	0	0	0	0	0	0	0
7.4	CBR test or unconfined compressive strength test	IS:2720 (Part16)	As required	0	0	0	0	0	0	0	0	0	0	0	0
7.5	Quality of cement		Minimum 1 test/5 tens	0	0	0	0	0	0	0	0	0	0	0	0
7.6	Aggregate Impact value	IS:2386 Part-4	As required	0	0	0	0	0	0	0	0	0	0	0	0
7.7	Field Density	IS:2720 (Part28)	As required 1 test or 2 test per 500Sq.m	0	0	0	0	0	0	0	0	0	0	0	0
<b>8.0 Granular Bedding Material (For Structures-Ground Improvement) - Mix Design</b>															
8.1	Gradation	Table 400-1	1 test/400m <sup>3</sup>	5	5	0	5	0	0	0	0	5	5	0	5
8.2	Atterberg Limits	IS:2720 (Part5)	1 test/400 m <sup>3</sup>	3	3	0	3	0	0	0	0	3	3	0	3
8.3	Proctor	IS:2720 (Part8)	As required	3	3	0	3	0	0	0	0	3	3	0	3
8.4	CBR Test	IS:2720 (Part16)	As required	1	1	0	1	0	0	0	0	1	1	0	1
8.5	Aggregate Impact value	IS:2386 Part-4	As required	3	3	0	3	0	0	0	0	3	3	0	3
8.6	Field Density	IS:2720 (Part28)	1 Test per 1000Sq.m	0	0	0	0	0	0	0	0	0	0	0	0
<b>8.1 Granular Bedding Material (For Structures-Ground Improvement)- Site Frequency</b>															
8.1	Gradation	Table 400-1	1 test/400m <sup>3</sup>	12	12	0	12	6	6	0	2	18	18	0	14
8.2	Atterberg Limits	IS:2720 (Part5)	1 test/400 m <sup>3</sup>	12	12	0	12	6	6	0	2	18	18	0	14
8.3	Proctor	IS:2720 (Part8)	As required	4	4	0	4	0	0	0	0	4	4	0	4
8.4	CBR Test	IS:2720 (Part16)	As required	4	4	0	4	0	0	0	0	4	4	0	4
8.5	Aggregate Impact value	IS:2386 Part-4	As required	4	4	0	4	0	0	0	0	4	4	0	4
8.6	Field Density	IS:2720 (Part28)	1 Test per 1000Sq.m	318	318	0	71	111	111	0	21	429	429	0	92

S. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month			Tests conducted during reporting month upto 23 <sup>rd</sup> Jan-2019			Test conducted upto this month					
				No. of test Conducted EPC/ Concessionaire	Passed	Failed	No. of test Conducted EPC/ Concessionaire	Passed	Failed	No. of test Conducted EPC/ Concessionaire	Passed	Failed	No. of test witnessed by IE		
<b>9.0 WMM Mix Design</b>															
9.1	Individual / Combined Gradation	Table 4.00-3	1 test/200m <sup>3</sup>	47	47	0	0	0	0	0	0	47	0	0	47
9.2	Aggregate Impact Value	IS:2386 Part-4	1 test/ 1000 m <sup>3</sup>	8	8	0	0	0	0	0	0	8	0	0	8
9.3	Flakiness & Elongation Index	IS:2386 Part1	1 test/ 500 m <sup>3</sup>	8	8	0	0	0	0	0	0	8	0	0	8
9.4	Atterberg Limits	IS:2720 (Part5)	1 test/200m <sup>3</sup>	6	6	0	0	0	0	0	0	6	0	0	6
9.5	Water absorption	IS:2386 Part2	As required	3	3	0	0	0	0	0	0	3	0	0	3
9.6	Proctor	IS:2720 (Part8)	As required	3	3	0	0	0	0	0	0	3	0	0	3
9.7	CBR	IS:2720 (Part16)	As required	3	3	0	0	0	0	0	0	3	0	0	3
9.8	Field Density	IS:2720 (Part28)	1 set Test per 1000sq.m / 3 pits	0	0	0	0	0	0	0	0	0	0	0	0
<b>9.0 WMM Site Frequency MoRT&amp;H 406</b>															
9.1	Individual / Combined Gradation	Table 4.00-3	1 test/200m <sup>3</sup>	0	0	0	0	0	0	0	0	0	0	0	0
9.2	Aggregate Impact Value	IS:2386 Part-4	1 test/ 1000 m <sup>3</sup>	0	0	0	0	0	0	0	0	0	0	0	0
9.3	Flakiness & Elongation Index	IS:2386 Part1	1 test/ 500 m <sup>3</sup>	0	0	0	0	0	0	0	0	0	0	0	0
9.4	Atterberg Limits	IS:2720 (Part5)	1 test/200m <sup>3</sup>	0	0	0	0	0	0	0	0	0	0	0	0
9.5	Water absorption	IS:2386 Part2	As required	0	0	0	0	0	0	0	0	0	0	0	0
9.6	Proctor	IS:2720 (Part8)	As required	0	0	0	0	0	0	0	0	0	0	0	0
9.7	CBR	IS:2720 (Part16)	As required	0	0	0	0	0	0	0	0	0	0	0	0
9.8	Field Density	IS:2720 (Part28)	1 set Test per 1000sq.m / 3 pits	0	0	0	0	0	0	0	0	0	0	0	0
<b>10.0 Fine Aggregate MoRT&amp;H 1008</b>															
10.1	Grade / Sieve analysis	IS:2386 (Part1)	1 test per day	40	40	0	18	23	23	0	10	63	0	28	
10.2	Specific gravity & Water absorption	IS:2386 (Part2)	As required	5	5	0	2	0	0	0	0	5	0	2	
10.3	Fineness Modulus	MoRT&H Sec. 1008&383	1 test per day	40	40	0	18	23	23	0	10	63	0	28	
10.4	Alkali aggregate reactivity test	IS:2386 (Part7) IS : 456	1 test per source	2	2	0	0	0	0	0	0	2	0	0	
10.5	Deleterious material/sit	IS:2386 (Part2)	1 test per source	2	2	0	0	0	0	0	0	2	0	0	



S. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month			Tests conducted during reporting month upto 23 <sup>rd</sup> Jan-2019			Test conducted upto this month				
				No. of test Conducted EPC/ Concessionaire	Passed	Failed	No. of test witnessed by IE	No. of test Conducted EPC/ Concessionaire	Passed	Failed	No. of test witnessed by IE	No. of test Conducted EPC/ Concessionaire	Passed	Failed
<b>11.0 Coarse Aggregate MoRT&amp;H 1007</b>														
11.1	Gradation	IS:2386 (Part2)	1 test per day	57	57	0	28	23	23	0	10	80	0	38
11.2	Specific gravity & Water absorption	IS:2386 (Part3)	As required	6	6	0	3	0	0	0	0	6	0	3
11.3	Aggregate Impact Value	IS:2386 (Part4)	1 test / each source	19	19	0	9	6	6	0	2	25	0	11
11.4	Flakiness Index	IS:2386 (Part1)	1 test / each source	19	19	0	9	6	6	0	2	25	0	11
11.5	Soundness	IS:2386 (Part5)	As required	1	1	0	1	0	0	0	0	1	0	1
11.6	Alkali aggregate reactivity test	IS:2386 (Part-7) IS : 45 6	1 test per source	1	1	0	1	0	0	0	0	1	0	1
11.7	Deleterious constituents	IS:2386 (Part2)	1 test per source	1	1	0	1	0	0	0	0	1	0	1
11.8	Petrographic Examination	IS:2386 (Part8)	1 test per source	1	1	0	1	0	0	0	0	1	0	1
<b>12.0 Cement MoRT&amp;H 1006</b>														
12.1	Chemical test / Physical test	IS:4031,4032	1 test per source	4	4	0	4	0	0	0	0	4	0	4
12.2	Fineness	IS:4031 (Part1)	Every batch	17	17	0	7	9	9	0	4	26	0	11
12.3	Normal Consistency	IS:4031 (Part4)	Every batch	17	17	0	10	9	9	0	4	26	0	14
12.4	Initial, Final setting time	IS:4031 (Part5)	Every batch	17	17	0	17	9	9	0	4	26	0	21
12.5	Soundness of Cement	IS:4031 (Part3)	Every batch	17	17	0	17	9	9	0	4	26	0	21
12.6	Compressive Strength-set	IS:4031 (Part6)												
	3 days		1 test per Lot	17	17	0	15	9	9	0	4	26	0	19
	7 days		1 test per Lot	17	17	0	15	6	6	0	2	23	0	17
	28 days		1 test per Lot	17	17	0	15	6	6	0	2	23	0	17
<b>13.0 Water</b>														
13.1	Chemical test	IS 2386	1 test per source	4	4	0	2	1	1	0	0	5	0	2
<b>14.0 Admixture</b>														
14.1	Physical Properties	IS 9103	1 test per Lot	1	1	0	0	0	0	0	0	1	0	0
14.2	Chemical Test	IS 9103	1 test per source	1	1	0	0	0	0	0	0	1	0	0
<b>15.0 Steel</b>														
15.1	8 mm Dia	IS 1786		4	4	0	3	0	0	0	0	4	0	3
15.2	10 mm Dia	IS 1786		6	6	0	5	0	0	0	0	6	0	5
15.3	12 mm Dia	IS 1786	Physical Properties & Chemical Test 2 test per Lot	5	5	0	4	0	0	0	0	5	0	4
15.4	16 mm Dia	IS 1786		4	4	0	3	0	0	0	0	4	0	3
15.5	20 mm Dia	IS 1786		5	5	0	5	0	0	0	0	5	0	5
15.6	25 mm Dia	IS 1786		4	4	0	3	0	0	0	0	4	0	3
15.7	32 mm Dia	IS 1786		1	1	0	1	0	0	0	0	1	0	1

S. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month			Tests conducted during reporting month upto 25 <sup>th</sup> Jan-2019			Test conducted upto this month					
				No. of test Conducted EPC/ Concessionaire	Passed	Failed	No. of test witnessed by IE	No. of test Conducted EPC/ Concessionaire	Passed	Failed	No. of test witnessed by IE	No. of test Conducted EPC/ Concessionaire	Passed	Failed	No. of test witnessed by IE
<b>16.(A) Concrete Cube Strength of Design Mix</b>															
<b>M15 PCC</b>															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec 1700	27	27	0	27	0	0	0	0	27	27	0	27
	28Days Compressive Strength			21	21	0	21	6	0	0	6	27	27	0	27
<b>M20 PCC</b>															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec 1700	24	24	0	24	0	0	0	0	24	24	0	24
	28Days Compressive Strength			15	15	0	15	6	0	0	6	21	21	0	21
<b>M25 RCC</b>															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec 1700	21	21	0	21	6	0	0	6	27	27	0	27
	28Days Compressive Strength			18	18	0	18	6	0	0	6	24	24	0	24
<b>M30 RCC</b>															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec 1700	24	24	0	24	6	0	0	6	30	30	0	30
	28Days Compressive Strength			21	21	0	21	9	0	0	9	30	30	0	30
<b>M30 RCC PUMPABLE</b>															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec 1700	12	12	0	12	0	0	0	0	12	12	0	12
	28Days Compressive Strength			9	9	0	9	0	0	0	0	9	9	0	9
<b>M35 RCC</b>															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec 1700	24	24	0	24	3	0	0	3	27	27	0	27
	28Days Compressive Strength			21	21	0	21	6	0	0	6	27	27	0	27
<b>M35 RCC PILING</b>															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec 1700	27	27	0	27	3	0	0	3	30	30	0	30
	28Days Compressive Strength			24	24	0	24	6	0	0	6	30	30	0	30
<b>M35 RCC PUMPABLE</b>															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec 1700	12	12	0	12	0	0	0	0	12	12	0	12
	28Days Compressive Strength			9	9	0	9	0	0	0	0	9	9	0	9
<b>M35 RE BLOCK</b>															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec 1700	24	24	0	24	0	0	0	0	24	24	0	24
	28Days Compressive Strength			21	21	0	21	12	12	0	12	33	33	0	33
<b>M40 RCC</b>															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec 1700	9	9	0	9	12	12	0	0	21	21	0	21
	28Days Compressive Strength			9	9	0	9	0	0	0	0	9	9	0	9
<b>M40 RCC PILING</b>															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec 1700	9	9	0	9	0	0	0	0	9	9	0	9
	28Days Compressive Strength			9	9	0	9	0	0	0	0	9	9	0	9

S. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month			Tests conducted during reporting month upto 25 <sup>th</sup> Jan-2019			Test conducted upto this month					
				No. of test Conducted EPC/ Concessionaire	Passed	Failed	No. of test Conducted EPC/ Concessionaire	Passed	Failed	No. of test Conducted EPC/ Concessionaire	Passed	Failed	No. of test witnessed by IE		
<b>16(B) Concrete Cube Strength of Site Cubes</b>															
<b>M15 PCC</b>															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec 1700	26	26	0	26	9	9	0	3	35	35	0	29
	28Days Compressive Strength			49	49	0	49	18	18	0	6	67	67	0	55
<b>M20 PCC</b>															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec 1700	0	0	0	0	0	0	0	0	0	0	0	0
	28Days Compressive Strength			0	0	0	0	0	0	0	0	0	0	0	0
<b>M25 RCC</b>															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec 1700	0	0	0	0	0	0	0	0	0	0	0	0
	28Days Compressive Strength			0	0	0	0	0	0	0	0	0	0	0	0
<b>M30 RCC</b>															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec 1700	20	20	0	14	19	19	0	10	39	39	0	24
	28Days Compressive Strength			25	25	0	20	38	38	0	23	63	63	0	43
<b>M35 RCC</b>															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec 1700	0	0	0	0	10	10	0	5	10	10	0	5
	28Days Compressive Strength			0	0	0	0	14	14	0	8	14	14	0	8
<b>M35 RCC PILING</b>															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec 1700	2	2	0	2	7	7	0	4	9	9	0	6
	28Days Compressive Strength			3	3	0	3	0	0	0	0	3	3	0	3
<b>M35 RE BLOCK</b>															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec 1700	55	55	0	47	0	0	0	0	55	55	0	47
	28Days Compressive Strength			57	57	0	51	0	0	0	0	57	57	0	51
<b>M40 RCC</b>															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec 1700	0	0	0	0	0	0	0	0	0	0	0	0
	28Days Compressive Strength			0	0	0	0	0	0	0	0	0	0	0	0
<b>17. BENTONITE</b>															
17.1	Density			0	0	0	0	5	5	0	2	5	5	0	2
17.2	Marsh Cone Viscosity			0	0	0	0	5	5	0	2	5	5	0	2
17.3	pH Value			0	0	0	0	5	5	0	2	5	5	0	2
17.4	Silt Content			0	0	0	0	5	5	0	2	5	5	0	2
17.5	Liquid Limit			0	0	0	0	5	5	0	2	5	5	0	2

## 7. Weather Report

Date	Temperature (Celsius)		Humidity (%)		Rainfall (mm)	Remarks
	Min	Max	Min	Max		
01-01-19	20.9	32.0	47	77	0.00	Sunny
02-01-19	20.3	32.4	45	80	0.00	Sunny
03-01-19	20.4	32.1	45	82	0.00	Sunny
04-01-19	21.0	32.4	46	80	0.00	Sunny
05-01-19	20.5	32.8	45	84	0.00	Sunny
06-01-19	20.8	31.5	48	80	0.00	Sunny
07-01-19	21.6	33.6	44	82	0.00	Sunny
08-01-19	19.5	33.1	45	84	0.00	Cloudy
09-01-19	19.5	32.8	36	84	0.00	Sunny
10-01-19	20.6	31.9	47	82	0.00	Sunny
11-01-19	20.2	31.7	49	86	0.00	Sunny
12-01-19	20.1	31.6	45	83	0.00	Cloudy
13-01-19	21.4	31.5	55	87	0.00	Sunny
14-01-19	20.9	32.0	47	80	0.00	Cloudy
15-01-19	21.0	32.4	47	83	0.00	Sunny
16-01-19	20.4	30.9	51	89	0.00	Sunny
17-01-19	18.6	34.4	41	93	0.00	Sunny
18-01-19	19.8	31.3	46	84	0.00	Sunny
19-01-19	20.2	33.4	39	82	0.00	Sunny
20-01-19	20.1	30.6	47	84	0.00	Sunny
21-01-19	19.2	33.7	43	84	0.00	Sunny
22-01-19	20.0	34.8	40	86	0.00	Sunny
23-01-19	21.1	35.8	42	88	0.00	Sunny
24-01-19	23.2	34.6	45	85	0.00	Sunny
25-01-19	24.2	34.3	46	88	0.00	Sunny
26-01-19	20.9	32.0	47	77	0.00	Sunny
27-01-19	20.3	32.4	45	80	0.00	Sunny
28-01-19	20.4	32.1	45	82	0.00	Sunny
29-01-19	21.0	32.4	46	80	0.00	Sunny
30-01-19	20.5	32.8	45	84	0.00	Sunny
31-01-19	20.8	31.5	48	80	0.00	Sunny

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

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

1. Health & Hygiene Awareness Program Organized for Labour's & Drivers At Patteeswaram Base Camp on 11.01.2019



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. Relocation of High Tension transmission tower lines.
3. NOC from PWD/WRO for commencement of construction activities for Irrigation Structures.
4. Permission from Local Authorities for procurement of Borrow Earth for Irrigation Tanks.
5. Rerouting of existing canal between Km:124+150 to 124+750 Km:117+760 to 118+480 and 146+600 to 148+100
6. Removal/relocation of existing irrigation sluice and regulator in the locations of Km:150+800, Km:152+900.
7. Additional land acquisition for Toll plaza location, Bus bays. Turning radius at Major junctions.
8. Removal of Teak wood trees from the Project Highway.
9. Removal of Religious structures and Bus stand to be removed from the carriage way.

## 10. Important Events

Table 10.1. Details of Important Events			
Sl. No	Date of Events	Description of Events	Remarks
1)	01.01.2019 to 15.01.2019	Swachhata Pakhwara Activities	
2)	10.1.2019	Review Meeting Held at RO Madurai	
3)	09.1.2019	"Health & Hygiene" Awareness Programme organised for Driver's & Operator's	
4)	22.01.2019	Team Leader Visited Borrow Areas	
5)	26.01.2019	70th Republic Day Celebrated at Our Base Camp	
6)	29.01.2019	Project Director Visited our Base Camp	
7)	31.01.2019	Road Safety Meeting held at RO Madurai	

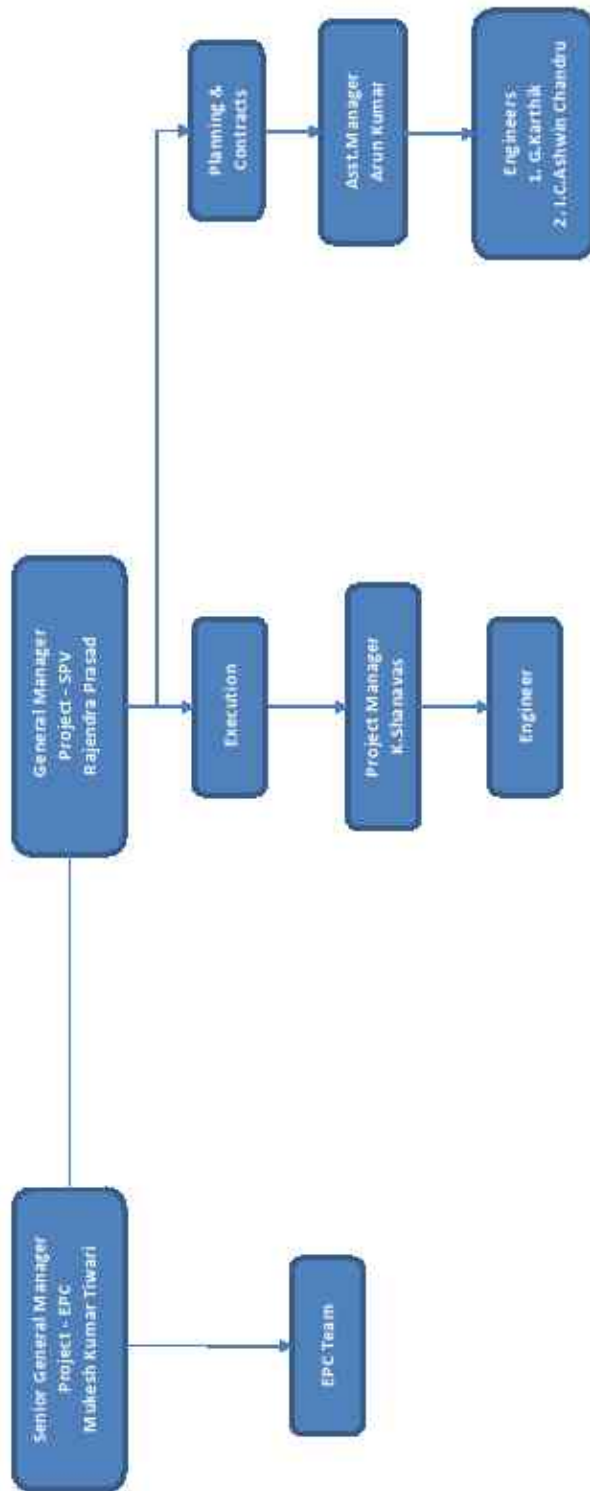
The following figures represent the organization structure of the EPC and SPV Team.

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





Figure 5 - ORGANIZATION CHART - SPV TEAM



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

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

Table 13.1 - Status of Change of Scope Proposals					
Sl. No	Proposal Details	Date of Proposal	Current Status	COS Amount	Actual Date of Approval
1	Replacement of Pipe Culvert with box Culvert	25.04.2018	Approved in-principle by Authority. Preparation of Details Quantities in proper order is in Progress	NA	NA

The following tables list out the correspondences between the parties.

Table 14.1. - Concessionaire to NHAI

Table 14.2. - NHAI to Concessionaire

Table 14.3. - Concessionaire to Independent Engineer

Table 14.4. - Independent Engineer to Concessionaire

TABLE 14.1 - CORRESPONDANCE - CONCESSIONAIRE TO NHAI

S.No	Date	Letter No	Subject	Remarks
1	1/8/2019	PCTHPL/CTP/NHAI/2019/228	Hindrance obstruction of Irrigation structures and existing canal passing located within the proposed camageway	
2	1/25/2019	PCTHPL/CTP/NHAI/2019/242	RA Bill No.02 -Shifting of Electrical Utility as per Cl 11.2.1 of Concession Agreement.	
3	1/29/2019	PCTHPL/CTP/NHAI/2019/245	Land Acquired - Handing over of possession of balance land	
4	1/30/2019	PCTHPL/CTP/NHAI/2019/246	Submission of EPF and ESIC paid challan - Request to release withheld from the Utility shifting bills	

TABLE 14.2 - CORRESPONDANCE - NHAI TO CONCESSIONAIRE

S.No	Date	Letter No	Subject	Remarks
1	1/2/2019	NHA/PIU/Thanj/11026/13/2018/022	Shifting of obstructing Utilities works hampered due to non-providing of land from the owning dept	
2	1/4/2019	NHA/PIU/Thanj/11026/11/2018/033	Removal of Teak wood trees in Govt. Lands under Thanjavur Forest Range - Requested	
3	1/4/2019	NHA/PIU/Thanj/11026/21/2018/039	Maintenance of existing road of NH45C - Compliance report submitted	
4	1/4/2019	NHA/PIU/Thanj/11026/12/2018/042	Details of payment made for GST Reimbursement	
5	1/7/2019	NHA/PIU/Thanj/11015/14/2009/065	Amendment to fee rules on exemption from payment of user fee in case of a mechanical vehicle specially designed and constructed for use of a person suffering from some physical defect	
6	1/7/2019	NHA/PIU/Thanj/11015/05/2009/057	Right to Information Act 2005 by Sh. Deepak Balwani, madhya Pradesh Action requested	
7	1/7/2019	NHA/PIU/Thanj/11019/63/2009/056	Removal of flagpoles erected by any political parties or organizations Honorable high court of madras orders issued dated 03.12.2018 -Compliances report called	
8	1/7/2019	NHA/PIU/Thanj/11026/28/2018/068	Disruption of construction activities between Km 161 +019 to Km 162 +800 - Compliance report	
9	1/8/2019	NHA/PIU/Thanj/11019/51/2009/077	Strengthening the incident management services provided across existing concessions and on not covered stretches change of scope -inprinciple approval accorded	
10	1/9/2019	NHA/PIU/Thanj/11026/28/2018/083	Hindrance obstruction of Irrigation structures within the proposed carriageway	
11	1/19/2019	NHA/PIU/Thanj/11023/01/2018/147	Guidelines of MoRTH for Road_Pavement marking - Communicated	
12	1/21/2019	NHA/PIU/Thanj/11023/01/2018/153	Guidelines of MoRTH for maintenance of records and Compliance of rules	
13	1/23/2019	NHA/PIU/Thanj/11026/15/2018/164	Land Acquired handing over of possession of land for Road construction work	
14	1/23/2019	NHA/PIU/Thanj/11019/51/2017/170	Filing of Annual Return by the Contractors through Shram Suvidha Portal	
15	1/23/2019	NHA/PIU/Thanj/11023/01/2018/176	Guidelines regarding plaza roll over & Transaction Processing SLA	
16	1/24/2019	NHA/PIU/Thanj/11099/05/2009/184	Information sought for under right to information act 2005 by shri Abhi Shah Kapadwanji -Action requested	
17	1/24/2019	NHA/PIU/Thanj/11015/51/2009/215	Request for Co-operation for road safety initiatives by the respective district units of Instruction issued	
18	1/24/2019	NHA/PIU/Thanj/11099/05/2009/185	Information sought for under Right to Information Act 2005 by Sh. Deepak Balwani Madhyapradesh Action requested	
19	1/25/2019	NHA/PIU/Thanj/11027/07/2009/216	Minutes of review meeting held 10.01.2019 on Collection & Analysis of Bridge Condition	
20	1/25/2019	NHA/PIU/Thanj/11019/51/2017/210	Execution of Change of Scope Notification works with prior approval of the Competent Authority	
21	1/28/2019	NHA/PIU/Thanj/11023/01/2009/233	Utilization of Utility Ducts along the National Highways in urban areas	
22	1/29/2019	NHA/PIU/Thanj/11026/22/2017/234	Irrigation and Drainage facilities-construction of Bridge in Kadakadappal Village of Thanjavur Taluk and District-requested	

TABLE 14.3 - CORRESPONDANCE - CONCESSIONAIRE TO INDEPENDENT ENGINEER

S.No	Date	Letter No.	Subject	Remarks
1	1/2/2019	PCTHPL/CTP/IE/2019/223	Submission of Credential for conducting Third Party Tests from Ms Annoor Test Labs & Engg. Services Pvt. Ltd.	
2	1/3/2019	PCTHPL/CTP/IE/2019/224	Methodology for Ground Improvement on Minor Bridges	
3	1/3/2019	PCTHPL/CTP/IE/2019/225	Submission of Monthly Progress Report for the Month of December 2018	
4	1/4/2019	PCTHPL/CTP/IE/2019/226	Video Recording as per the Clouse 13.6 of Concession Agreement	
5	1/5/2019	PCTHPL/CTP/IE/2019/227	Third Party Test Report on Analysis of Water	
6	1/5/2019	PCTHPL/CTP/IE/2019/227A	Compliance of comments on reviewed Plan and profile drawings (Rev:2)	
7	1/9/2019	PCTHPL/CTP/IE/2019/230	Regarding Caution Notice for Milestone - I and required support for smooth implementation of the project.	
8	1/11/2019	PCTHPL/CTP/IE/2019/231	Procurement of Elastomeric Bearing from Ms Sanfield (India) ltd	
9	1/11/2019	PCTHPL/CTP/IE/2019/233	Merging of kumbakonam bypass-Phase-III with NH45C from Km 134 to Km 134+700 Report Called For	
10	1/18/2019	PCTHPL/CTP/IE/2019/234	Procurement of bitumen (VG-40) from Tiki Tar Industries (Baroda) Limited	
11	1/18/2019	PCTHPL/CTP/IE/2019/235	Procurement of bitumen Emulsion from Tiki Tar Industries (Baroda) Limited	
12	1/18/2019	PCTHPL/CTP/IE/2019/236	Intersection with State Governments Roads in Thanjavur District - Details of Junction Improvements proposed in those Intersections by NHAI	
13	1/21/2019	PCTHPL/CTP/IE/2019/237	Submission of Third Party Test Report on Bentonite Sample	
14	1/22/2019	PCTHPL/CTP/IE/2019/238	Procurement of HT Strands from Ms Kataria Industries Pvt Ltd	
15	1/22/2019	PCTHPL/CTP/IE/2019/239	Submission of SBC Test Reports for 12 Box Culverts	
16	1/23/2019	PCTHPL/CTP/IE/2019/240	Submission of SBC Test Reports for 2 PUPs	
17	1/24/2019	PCTHPL/CTP/IE/2019/241	Submission of OGL Test Reports	
18	1/27/2019	PCTHPL/CTP/IE/2019/243	Procurement of HT Strands from Ms Usha Martin Ltd	
19	1/28/2019	PCTHPL/CTP/IE/2019/244	Permission for commencing of Regular piling works for the proposed VUP at Km128+71.5 and 130+342	



TABLE 14.4 - CORRESPONDANCE - INDEPENDENT ENGINEER TO CONCESSIONAIRE / NHAI

S.No	Date	Letter No	Subject	Remarks
1	1/4/2019	THEME/NHAI/CHO-TNJR/CON/0119/157	Third Party Testing	
2	1/7/2019	THEME/NHAI/CHO-TNJR/CON/0119/158	Merging of Kumbakonam Bypass-Phase-III- with NH-45C from Km 134+000 to Km 134+700	
3	1/8/2019	THEME/NHAI/CHO-TNJR/CON/0119/159	Intersection with State Government's Roads in Thanjavur District - Details of Junction Improvements proposed in those Intersections by NHAI	
4	1/9/2019	THEME/NHAI/CHO-TNJR/CON/0119/160	Removal of Flagpoles erected by any political parties or organization - High Court of Madras orders issued dated 03.12.2018 - Compliance report called for	
5	1/9/2019	THEME/NHAI/CHO-TNJR/CON/0119/161	Independent laboratory testing agency approval	
6	1/10/2019	THEME/NHAI/CHO-TNJR/CON/0119/162	Source approval for water	
7	1/11/2019	THEME/NHAI/CHO-TNJR/CON/0119/163	Merging of Kumbakonam Bypass-Phase-III with NH45C from Km 134+000 to 134+700 Package III-Report Called for	
8	1/11/2019	THEME/NHAI/CHO-TNJR/CON/0119/164	Modified Skill development of workman in highway constriation sector-Submission of quarterly reports	
9	1/11/2019	THEME/NHAI/CHO-TNJR/CON/0119/165	Strengthening the incident management being provided across existing concessions and on covered stretches-Chenage of Scope -In Pinciple Approval accorded	
10	1/11/2019	THEME/NHAI/CHO-TNJR/CON/0119/166	Decisions made during to Meeting held at RO Office Madurai on 10.01.2019	
11	1/12/2019	THEME/NHAI/CHO-TNJR/CON/0119/167	Methodology for Ground Improvement for foundation of Minor Bridges	
12	1/16/2019	THEME/NHAI/CHO-TNJR/CON/0119/169	Regarding caution notice for Mile stone-01 support required for smooth implementation of the project	
13	1/24/2019	THEME/NHAI/CHO-TNJR/CON/0119/170	Review for Elastomeric bearing for Ms. Sanfield (India) Ltd	
14	1/24/2019	THEME/NHAI/CHO-TNJR/CON/0119/171	Site visit on 20.01.2019 and observation	
15	1/28/2019	THEME/NHAI/CHO-TNJR/CON/0119/172	Review of Bitumen (VG-40) from Tiki Tar Industries (Baroda) Limited	
16	1/28/2019	THEME/NHAI/CHO-TNJR/CON/0119/173	Concern over quality of the material at casting yards and requesting for compliance	

## 15. Progress Photographs

Sl. No	Description	Location	Side	Remarks
1.	Base camp Office at 138+200 in Sundhraperumal Kovil	138+00	RHS	



Sl. No	Description	Location	Side	Remarks
2.	Base camp Office at 138+200 in Sundhraperumal Kovil	138+00	RHS	



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



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



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



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



Sl. No	Description	Location	Side	Remarks
7.	Crusher Erection In Progress			



Sl. No	Description	Location	Side	Remarks
8.	RE Wall Blocks Casting in progress			



Sl. No	Description	Location	Side	Remarks
9.	Sign Board Placed at Blackspot location	Pasupathikovil		



Sl. No	Description	Location	Side	Remarks
10.	Tree Cutting In Progress	128+800		



Sl. No	Description	Location	Side	Remarks
11.	Patch work at Melavaluthur			
				

Sl. No	Description	Location	Side	Remarks
12.	Road diversion for a VUP	128+715		



Sl. No	Description	Location	Side	Remarks
13.	Dismantling of House at Koranattukarupur	125+620	RHS	



Sl. No	Description	Location	Side	Remarks
14.	Dismantling of House at Koranattukarupur	126+600		



Sl. No	Description	Location	Side	Remarks
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15.	Minor bridge Raft Reinforcement Binding work	141+760		
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Sl. No	Description	Location	Side	Remarks
16.	Minor Bridge Raft Concrete Completed	141+760		



Sl. No	Description	Location	Side	Remarks
17.	Box Culvert Slab Work in Progress	142+048	LHS	



Sl. No	Description	Location	Side	Remarks
18.	Box Culvert Slab Concrete Completed	142+048	BHS	



Sl. No	Description	Location	Side	Remarks
19.	Box Culvert Fly Wing Return Wall in Progress	142+048	BHS	



Sl. No	Description	Location	Side	Remarks
20.	Soil Dumping Work in Progress	162+800		



Sl. No	Description	Location	Side	Remarks
21.	Raft Reinforcement Work in Progress for Box Culvert	142+812		



Sl. No	Description	Location	Side	Remarks
22.	Box Culvert Wall Concreting Work in Progress	142+812		



Sl. No	Description	Location	Side	Remarks
23.	Minor Bridge Raft Curing Work and Wall Second Lift in Progress	118+480		



Sl. No	Description	Location	Side	Remarks
24.	MUP 128+715 Pile Work in Progress	128+715		



Sl. No	Description	Location	Side	Remarks
25.	Team Leader Visited Najikotai Borrow Area			



Sl. No	Description	Location	Side	Remarks
26.	Project Director Visited on 29.01.2019			



Sl. No	Description	Location	Side	Remarks
27.	Swatchata Pakwara & Republic Day Celebrated at Camp	138+200		

