



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 NOVEMBER 2018

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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.

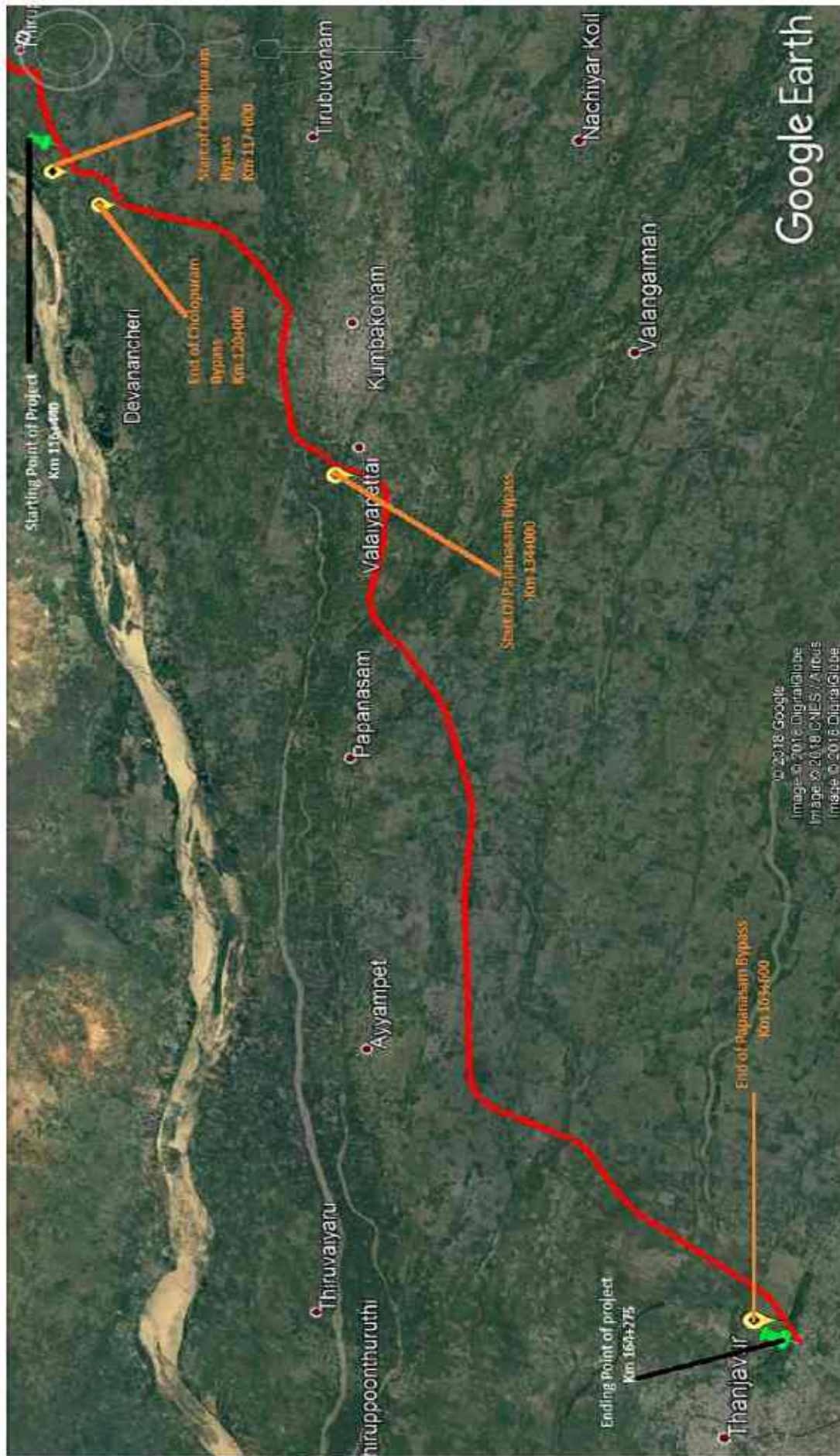
The Cholopuram to Thanjavur section of NH-45C is an important link to connect Metropolitan city of Chennai to religious and tourist places of Kumbakonam, Thanjavur, Tiruchirapalli. The project is also expected to provide improved connectivity to other religious places & other major cities like Thanjavur,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

### Project Synopsis

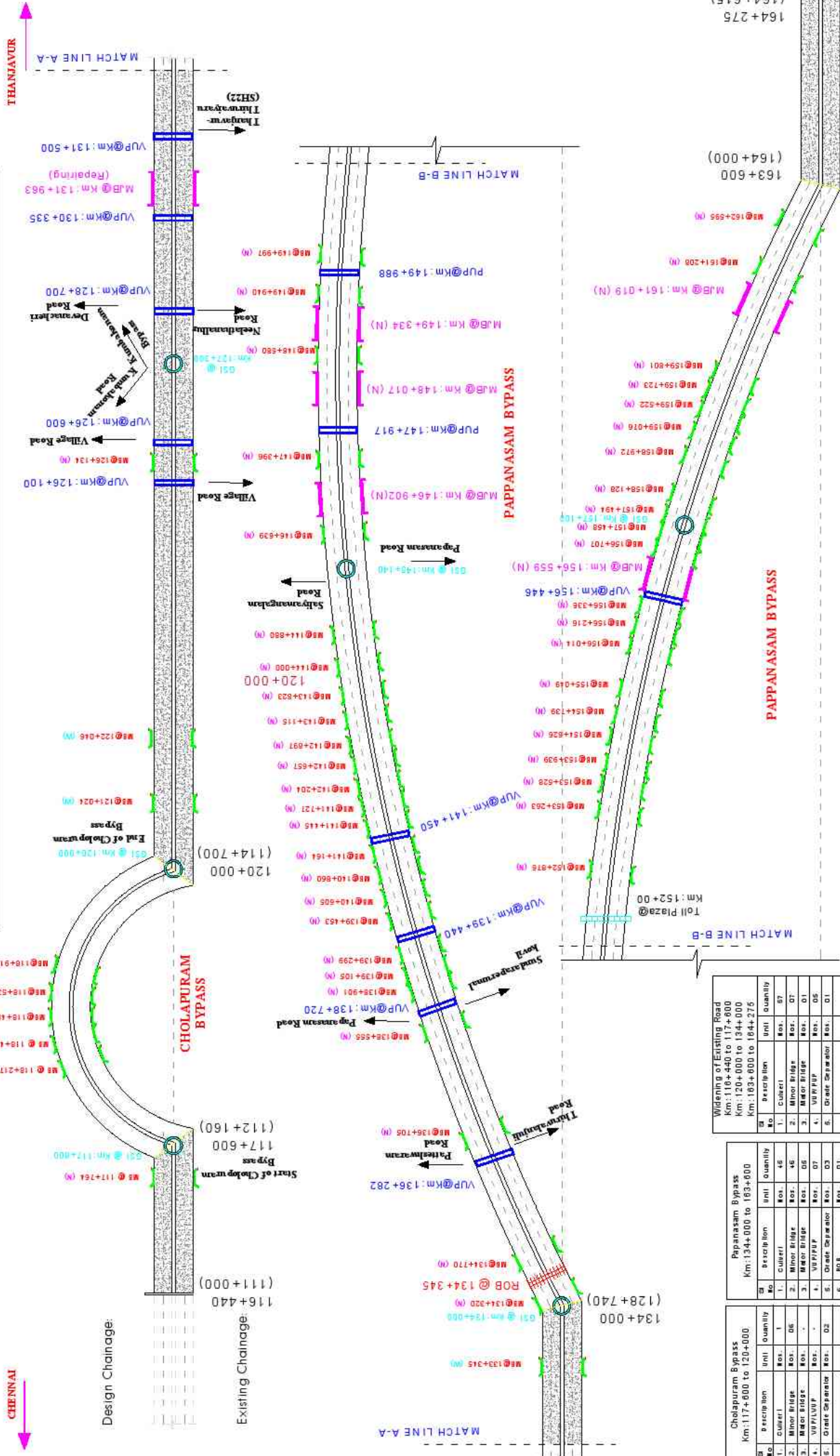
The Government of India had entrusted to the National Highway Authority of India (NHAI) the development, maintenance and management of National Highway No. 45C including the section from km 116.440 to Km 164.275 (approx. 47.835 Km). The Authority had resolved to augment for four Laning of Cholopuram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

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

Figure 1 : Project Location Map



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



**Widening of Existing Road**  
 Km: 116+440 to 117+600  
 Km: 120+000 to 134+000  
 Km: 183+600 to 184+275

Sl. 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
10.	ROB	Box	01

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

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

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

Sl. No.	Description	Unit	Quantity
1.	Culvert	Box	06
2.	Minor Bridge	Box	05
3.	Major Bridge	Box	05
4.	VUP/PUP	Box	07
5.	Grade Separator	Box	02
10.	ROB	Box	01

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

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

**Salient Features of Project:**

Sl. No.	Description	Unit	Quantity	Scope
1.	Total Length of Project	Km	47.835	ROB
2.	Length of Widening for Non	Km	18.345	ROB
3.	Length of Bypass	Km	32.000	ROB
4.	Length of reconstructed road	Km	27.100	ROB
5.	Culvert	Box	74	ROB
6.	Minor Bridge	Box	29	ROB
7.	Major Bridge	Box	05	ROB
8.	VUP/PUP	Box	12	ROB
9.	Grade Separator Structure	Box	06	ROB
10.	ROB	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, IST Floor, Krishna Chambers, HAL, Airport Road, Bangalore-560017
Senior Lender	Punjab National Bank, Large Corporate Branch, Neelkamal Building, Opp. Sales India, Ashram Road, Ahmedabad - 380009
Lenders Independent Engineers	Sharul Techno-Financial Consultancy Services Pvt. Ltd., 403, Aspire Tower 5, Amanora Park Town, Hadapsar, Pune - 411028.
Length of Road (Design Length)	47.835 Kms.
Total Bid Cost	Rs. 1345.60 Crores (as per concession agreement)
Date of Concession Agreement	October 12, 2017
Concession Period	17 Years ( Construction Period 2 Years from Appointed date, Operation period 15 years from COD)
Appointed Date	06.09.2018
Construction Period	02 years from Appointed date
Completion Date	05.09.2020
Maintenance Period	15 years from COD

## 1.2. Salient Project Features

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

4 - Lane Divided Carriage Way	47.835 Kms
Service Road/ Slip Road	27.100 Kms
Major Bridge	06 Nos.
Minor Bridge	59 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.	08 <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	06 <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	12 <sup>nd</sup> April 2020
Scheduled Completion	Concessionaire shall have completed Project on 730 <sup>th</sup> day from the Appointed Date	05 <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 from forest department	Work in Progress, Felling Permission issued except Teak wood trees
8	Electric Poles Shifting	Tamilnadu Electricity Board	In progress	15 Nos. Estimates for shifting of electrical poles and transformers have been obtained from the concerned department in respect of Thanjavur District. Estimate for shifting of 4 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)	Within 90(Ninety) days of the Appointed date
Stretch	116.440 to 117.600	1.160	15.00	
Stretch	120.000 to 134.000	14.000	15.00	

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

Sl. No.	Description	Unit	Present Status	Remarks
A)	Total Length of the Project Highway	Km	47.835	
i)	Use of Existing Road Portion	Km	15.835	
ii)	Proposed Bypass / Realignment portion	Km	32.000	
B)	Hindered Length			
i)	Paddy/Cotton fields	Km	0	
ii)	Existing Buildings	Km	7.450	
iii)	Electrical Lines	Km	14.915	
iv)	Trees	Km	13.885	
v)	Rural Water Supply lines	Km	10.975	
C)	Net Hindered Length (both Side)	Km	31.455	
D)	Total Project Length (both Side)	Km	47.835	
E)	% Hindered Length	%	65.75%	

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	470	253	
	Total in Nos	723	470	253	
		Total in %	65.00%	34.99%	

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

Table 2.1.5 - Details of Stretches Under Hindrance

Sr. No.	Obstruction Length (m)	IHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Type	Remarks
			From	To				
1	30	Houses 0 nod, Electrical Pole & Trees	116+110	116+170	Houses 16 nod, Mango farm, Coconut farm & Electrical Pole 0 nod	30	Houses	
2	30	Houses 3 nod, Electrical Pole 0 nod & Trees	116+170	116+500	Bus shelter & Electrical Transformer	30	Bus Shelter	
3	70	Houses 0 nod, Electrical Pole & line crossing & Trees	116+500	116+570	Houses 15 nod, & Coconut Trees 16 nod	70	Houses	
4	60	Houses 16 nod, Culvert & Trees	116+570	116+580	Trees	60	Houses	
5	70	Electrical Pole & Trees	116+580	116+600	Canal crossing, culvert & Trees	70	Electrical Utility	
6	50	Houses 11 nod, Electrical Pole & Trees	116+600	116+650	Canal crossing & Trees	50	Electrical Utility	
7	50	Houses 0 nod, 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 17 nod, Electrical Pole & Trees	50	Houses	
9	50	Houses 16 nod, Electrical Pole & Trees	116+750	116+800	Houses 11 nod & Coconut Trees	50	Houses	
10	50	Vishayager Temple, Houses 17 nod & Electrical Pole 13 nod	116+800	116+850	Houses 15 nod, & Coconut Trees	50	Temple	
11	50	Houses 17 nod, Electrical Poles & Trees	116+850	116+900	Houses 18 nod & Coconut Trees	50	Houses	
12	50	Houses 0 nod, Culvert, Electrical Poles & Coconut Trees	116+900	116+950	Houses 16 nod & Coconut Trees	50	Houses	
13	30	Houses 0 nod, Electrical Pole 13 nod & Trees	116+950	117+980	Coconut Trees & Nala	30	Houses	
14	70	Houses 0 nod, Electrical Poles & Trees	116+980	117+000	Coconut Trees, Fencing & Electrical Pole	70	Houses	
15	50	Houses 17 nod, Electrical Pole 11 nod & Trees	117+000	117+050	Church & Shop; 13 nod	50	Church	
16	50	Houses 0 nod, Electrical Poles & Trees	117+050	117+100	Houses 17 nod, Electrical Poles & Trees	50	Houses	
17	70	Houses 13 nod, Electrical Pole & Trees	117+100	117+170	House 0 nod, Pond & Trees	70	Houses	
18	30	Temple, Bus shelter, Houses 11 nod, Electrical Pole & Trees	117+170	117+150	House 0 nod, Pond & Trees	30	Houses	
19	50	Houses 18 nod, Electrical Poles 13 nod & Trees	117+150	117+200	Houses 16 nod, Pation Shop, Electrical Poles, Trees & Pond	50	Houses	
20	50	Temple, Houses 0 nod & Coconut Trees	117+200	117+250	Houses 19 nod, Electrical Poles & Trees	50	Houses	
21	50	Houses 13 nod, Electrical Poles & Trees	117+250	117+300	Houses 17 nod, Electrical Poles & Trees	50	Houses	
22	50	Houses 13 nod, Electrical Poles & Trees	117+300	117+350	Houses 13 nod, Electrical Poles & Trees	50	Houses	
23	50	Houses 11 nod, Electrical Poles & Trees	117+350	117+400	Houses 11 nod, Electrical Poles & Trees	50	Houses	
24	50	Houses 16 nod, Electrical Poles & Trees	117+400	117+450	Houses 16 nod, Electrical Poles & Coconut Trees	50	Houses	
25	50	Houses 11 nod, Bus shelter, Water Tank, Electrical Poles & Trees	117+450	117+500	Houses 15 nod, Electrical Poles & Trees	50	Houses	
26	50	Houses 11 nod, Electrical Poles & Trees	117+500	117+550	Trees & Electrical Poles	50	Houses	
27	50	Trees & Electrical Poles	117+550	117+600	Houses 11 nod, Electrical Poles & Trees	50	Houses	
28	50	Houses 15 nod, Electrical Poles & Trees	117+600	117+650	Houses 12 nod, Electrical Poles & Trees	50	Houses	
29	50	House 15 nod, Coconut farm, Electrical Pole 13 nod & Line crossing & Trees	120+000	120+050	House, Electrical Pole 13 nod & Trees	50	Electrical Utility	
30	50	House 12 nod, Teak wood Trees	120+050	120+100	Bus shelter, House 13 nod, Electrical Pole 13 nod & Teak wood Trees	50	Houses	
31	50	Temple, House 13 nod, Electrical Pole & Coconut farm	120+100	120+150	House 13 nod, Electrical Poles 0 nod & Coconut Trees	50	Houses	
32	50	Coconut farm, Trees	120+150	120+200	Houses 17 nod, Electrical Pole & Trees	50	Houses	
33	50	Coconut farm, Pond & Trees	120+200	120+250	Temple, Houses 0 nod & Electrical Pole	50	Temple	
34	30	Houses 0 nod, Electrical Pole, Culvert & Coconut farm	120+250	120+280	Houses 13 nod, Electrical Poles & Coconut farm	30	Houses	
35	70	Houses 11 nod, Electrical Pole, Culvert, Nala & Coconut farm	120+280	120+300	Houses 17 nod, Electrical Poles & Coconut farm	70	Houses	
36	50	Houses 11 nod, Electrical Poles & Coconut farm	120+300	120+350	Houses 12 nod, 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 0 nod, Electrical Poles & Coconut Trees	120+400	120+450	Houses 11 nod, Petrol Pump, Electrical Poles 0 nod & Coconut Trees	50	Petrol pump	
39	50	Houses 0 nod, Shops, Coconut & Teak wood Trees	120+450	120+500	Houses 13 nod, Electrical Poles & Trees	50	Houses	
40	50	Houses 18 nod, Electrical Poles, Coconut & Teak wood Trees	120+500	120+550	Houses 18 nod, Electrical Poles, Coconut & Teak wood Trees	50	Houses	
41	50	Houses 11 nod & Coconut farm	120+550	120+600	House 11 nod, Electrical Pole & Coconut Trees	50	Houses	
42	50	Houses 16 nod, Fencing, Electrical Pole, Coconut & Teak wood Trees	120+600	120+650	Houses 15 nod, 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	10	Shops, Coconut & Teak wood Trees	120+680	120+770	Next crop planted & Fencing	10	Shops	
45	80	Next crop planted, Electrical Poles & Trees	120+770	120+800	House 11 nod, Transformer, Electrical Poles 11 nod & Trees	80	Electrical Utility	
46	50	Houses 12 nod, Culvert & Trees	120+800	120+850	Houses 17 nod, Electrical Poles 13 nod & Trees	50	Houses	
47	30	Houses 13 nod, Electrical Poles & Trees	120+900	121+930	Houses 11 nod, Fencing, Electrical Pole 11 nod & Trees	30	Houses	
48	70	Preparing for next crop, Electrical Pole & Trees	121+930	121+950	Houses 17 nod, Electrical Pole 0 nod & Trees	70	Electrical Utility	
49	50	Electrical Pole & Trees	121+950	121+000	Houses 17 nod, Electrical Pole 0 nod & Trees	50	Houses	
50	10	Electrical Pole & Trees	121+050	121+050	Transformer, Electrical Poles 13 nod & Trees	70	Electrical Utility	
51	-	-	121+100	121+100	Electrical Pole	10	Electrical Utility	
52	50	Coconut Trees, Teak wood Trees & Jungle	121+150	121+150	Electrical Pole & Trees	70	Electrical Utility	
53	50	Bus shelter, Houses 13 nod, Electrical Poles 0 nod & Trees	121+200	121+250	Bus shelter, Trees & Jungle	50	Bus Shelter	
54	50	House 11 nod, Electrical Pole & Trees	121+250	121+300	House 13 nod, Electrical Poles 15 nod & Trees	50	Houses	
55	50	Electrical Pole, Trees & Jungle	121+300	121+350	House 0 nod, Electrical Pole & Trees	50	Houses	

Sr.No.	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Type	Remarks
			From	To				
56	80	Electrical Pole, Trees & Jungle	171+250	171+130	Houses 19 nos, Electrical Poles 13 nos & Trees	80	Houses	
57	70	Electrical Poles, Trees & Jungle	171+130	171+500	Electrical Poles, Trees & Jungle	70	Electrical Utility	
58	50	House 11 nos, Electrical Poles, Trees & Jungle	171+500	171+550	Electrical Poles, Culvert Trees & Jungle	50	Electrical Utility	
59	70	Temple, Houses 13 nos & Coconut Trees	171+550	171+670	Houses 17 nos, Electrical Pole, Mango Trees / Jungle	70	Temple	
60	60	Shops, Houses, Electrical Poles, Coconut Trees, Jungle & Culvert	171+670	171+680	Coconut Trees 17 nos, Trees & Jungle	60	Houses	
61	10	Pump set Structure & Coconut Trees 18 nos	171+680	171+770	Electrical Pole & Trees	10	Pump house	
62	70	Trees & Jungle	171+770	171+800	Electrical Pole	10	Electrical Utility	
63	50	Transformer, Electrical Poles & Trees	171+800	171+850	Church Gate, Boundary Wall	50	Compound Wall	
64	15	Transformer, Electrical Poles 11 nos	171+850	171+930	Electrical Poles 17 nos	15	Electrical Utility	
65	70	Electrical Poles, existing bridge structure & Trees	172+070	172+070	Electrical Pole & Trees	10	Electrical Utility	
66	-	River crossing & Trees	172+030	172+030	River crossing & Trees	-	Trees	
67	-	-	172+080	172+080	Temple, Electrical Pole, Canal & Banyan Trees	75	Temple	
68	70	Electrical Pole & Trees	172+130	172+130	Trees 13 nos	70	Electrical Utility	
69	15	Electrical Poles, Canal, Banana farm & Teak wood Trees	172+700	172+700	Pump set & Electrical Poles	15	Pump set	
70	80	Banana farm, Canal, Teak wood Trees, Transformer & Electrical Poles	172+770	172+300	Teak wood Trees, Electrical Pole & Banana farm	80	Electrical Utility	
71	100	Electrical Poles, Teak wood Trees & Canal	172+300	172+400	HP Petrol Bunk & Electrical Poles	100	Petrol pump	
72	100	Canal, Teak wood Trees	172+400	172+500	Coconut farm, Canal, Teak wood Trees	100	Trees	
73	100	Small structure (Entrance Arch), Teak wood Trees & canal	172+500	172+600	Teak wood Trees & Jungle	100	Compound Wall	
74	170	Teak Wood Trees, Canal & Jungle	172+700	172+870	-	-	Trees	
75	70	Teak wood Trees, Electrical Pole & Existing bridge structure (On Branch Road)	172+870	172+870	Bus shelter, Electrical Poles & Trees	15	Bus Shelter	
76	10	Teak wood Trees & Canal	172+900	172+900	Electrical Pole & Jungle	10	Electrical Utility	
77	100	Canal & Teak wood Trees	172+900	173+000	Electrical Pole, Trees & Jungle	100	Electrical Utility	
78	150	College Boundary & Arch Structure, Lighting Posts & Canal crossings	173+000	173+150	Electrical Poles 13 nos	150	Compound Wall	
79	70	Canal, Teak wood Trees & Jungle	173+730	173+300	Transformer, Electrical Poles 13 nos & Trees	70	Electrical Utility	
80	50	Electrical Pole & line crossing, Teak wood Trees, Existing Culvert & Jungle	173+300	173+350	Electrical Poles & Trees & Jungle	50	Electrical Utility	
81	180	Electrical Pole, Teak wood Trees & Jungle	173+110	173+670	Electrical Poles, Trees & Jungle	180	Electrical Utility	
82	70	Teak wood Trees & Jungle	173+650	173+650	Electrical Poles, Canal, Trees & Jungle	70	Electrical Utility	
83	30	Houses 17 nos & Trees	173+700	173+700	Electrical Poles, Trees & Jungle	10	Houses	
84	-	Electrical Poles, Trees & Jungle	173+750	173+750	Electrical Poles, Trees & Jungle	15	Electrical Utility	
85	75	Temple & Trees	173+850	173+850	Bus shelter, Godown, Overhead Tank & Electrical Poles	75	Temple	
86	10	Canal crossing & Trees	173+900	173+900	Pump set & Electrical Poles	15	Pump set	
87	70	Houses 13 nos, Electrical Pole 17 nos & Trees	173+950	173+950	Transformer, Electrical Poles 11 nos & Trees	70	Houses	
88	50	Trees 11 nos & Jungle	174+100	174+150	-	-	Trees	
89	-	-	174+750	174+210	Transformer, Electrical Pole 16 nos & Trees	60	Electrical Utility	
90	-	-	174+550	174+550	Pump house, Electrical Pole & Trees 13 nos	30	Pump house	
91	70	Fencing, Electrical Poles & Trees 17 nos	174+880	174+950	Trees 117 nos & Electrical Poles	70	Electrical Utility	
92	100	House, Hut 11 nos, Transformer	174+950	175+050	Electrical Poles & Fencing	100	Houses	
93	50	Trees	175+050	175+100	Fencing	50	Trees	
94	100	Trees 114 nos	175+100	175+200	Trees 11 nos	100	Trees	
95	50	Electrical Poles 17 nos	175+300	175+350	Trees 13 nos	50	Electrical Utility	
96	50	Bar wall, Water tap, Electrical Pole & line crossing, Advertisement board & Trees	175+250	175+100	Electrical Pole & line crossing, Encroachment	50	Houses	
97	50	Trees 110 nos & Jungle	175+100	175+150	Advertisement board	50	Trees	
98	50	House 15 nos, Electrical Poles & Trees	175+150	175+500	House 17 nos, Electrical Poles & Trees	50	Houses	
99	50	House 13 nos, Electrical Poles & Trees	175+500	175+550	House 11 nos, Electrical Poles & Trees	50	Houses	
100	50	House 14 nos, Electrical Poles & Trees	175+550	175+600	House 13 nos, Electrical Poles & Trees	50	Houses	
101	50	House 12 nos, Electrical Poles & Trees	175+600	175+650	Temple, water tank, bar wall, House 15 nos, Electrical Poles & Trees	50	Temple	
102	50	House 13 nos, Electrical Poles & Trees	175+650	175+700	Demolished Govt building, House 12 nos, Electrical Poles & Trees	50	Houses	
103	100	Electrical Pole & Trees	175+700	175+800	Compound Wall	100	Compound Wall	
104	50	Houses 13 nos, Electrical Poles & Trees	175+800	175+850	Houses 11 nos, Electrical Poles & Trees	50	Houses	
105	50	Houses 11 nos, Electrical Poles & Trees	175+850	175+900	Houses 17 nos, Electrical Poles & Trees	50	Houses	
106	50	Govt building, House 11 nos, Electrical Poles & Trees	175+900	175+950	Houses 13 nos, Electrical Poles & Trees	50	Houses	
107	100	House 11 nos, Water tap & Trees	175+950	176+050	Houses 13 nos & Trees	100	Houses	
108	50	Building, Hut 17 nos & Trees 171 nos	176+050	176+100	Temple, House 15 nos, Electrical Pole 11 nos & Trees 113 nos	50	Houses	
109	100	Electrical Poles, Pond & Trees	176+100	176+200	House, Electrical Pole & Trees	100	Houses	
110	100	Pond & Trees	176+100	176+500	Pond & Trees	100	Trees	
111	100	House 13 nos, Electrical Poles & line crossing & Trees	176+600	176+700	House 13 nos, Electrical Poles & line crossing & Trees	100	Houses	
112	100	Bus shelter, Fencing, Houses 11 nos, Electrical Pole & Trees 17 nos	176+700	176+800	Rice Mill, Houses 11 nos, Hut, Electrical Pole & Trees 113 nos	100	Houses	
113	100	Houses 11 nos, Hand pump, Transformer & Electrical Poles	176+800	176+900	Temple, Houses 11 nos, Electrical Pole 17 nos & Trees 113 nos	100	Houses	
114	100	Bus shelter, Pump house, Electrical Pole 11 nos & Trees 113 nos	176+900	177+000	Electrical Pole 11 nos, Telephone Pole, Sign board & Trees 111 nos	100	Houses	



Sr.No.	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Type	Remarks
			From	To				
115	100	Pump house, Electrical Pole (1) nod, Trees (1) nod & Nala	17/+000	17/+100	Electrical Pole (1) nod & Trees (1) nod	100	Pump house	
116	100	Building (1) nod, Electrical Pole (1) nod, Sign boards (1) nod & Trees (1) nod	17/+100	17/+200	Pump house, Electrical Poles (1) nod, Transformer, Sign boards & Trees (1) nod	100	Houses	
117	100	Building (1) nod, Electrical Pole (1) nod, Sign boards (1) nod & Trees (1) nod	17/+200	17/+300	Arch, Compound Wall, Electrical Pole (1) nod & Trees (1) nod	100	Houses	
118	70	Electrical Pole (1) nod & Line crossing	17/+150	17/+500	Electrical Pole (1) nod, Sign boards (1) nod & Trees (1) nod	70	Electrical Utility	
119	70	Electrical Pole (1) nod, Trees (1) nod & Nala	17/+500	17/+650	Electrical Pole (1) nod, Transformer & Trees	70	Electrical Utility	
120	30	Commercial building (1) nod, Electrical Pole (1) nod & Line crossing & Trees (1) nod	17/+650	17/+800	Building Compound Wall, Electrical Pole (1) nod & Trees (1) nod	30	Compound Wall	
121	75	Fencing	17/+800	17/+900	Fencing & Electrical pole	75	Compound Wall	
122	10	Trees & Electrical Pole	17/+900	178+000	Compound Wall & Electrical Pole	80	Compound Wall	
123	70	Trees (1) nod	178+000	178+170	Pump house, Bare wall, Transformer & Electrical Pole (1) nod	30	Pump house	
124	10	Electrical Pole (1) nod	178+170	178+200	Electrical Pole (1) nod	10	Electrical Utility	
125	-	-	178+200	178+300	Electrical Pole (1) nod	70	Electrical Utility	
126	75	Small Temple with Gate & Trees (1) nod	178+300	178+350	Electrical Pole (1) nod	70	Temple	
127	10	Tree	178+350	178+100	Electrical Pole (1) nod	70	Electrical Utility	
128	15	Electrical Pole, Tree & Existing Culvert	178+100	178+500	Electrical Poles (1) nod	30	Electrical Utility	
129	10	Tree	178+500	178+550	Electrical Poles (1) nod	70	Electrical Utility	
130	-	-	178+550	178+600	Electrical Pole	10	Electrical Utility	
131	30	Trees & Jungle	178+600	178+/00	Shops (1) nod & Houses (1) nod, Electrical Poles (1) nod & Trees	10	Houses	
132	60	Fencing, Trees & Jungle	178+/00	178+800	-	-	Fencing	
133	10	Indian Oil Petrol Bunk, Small Temple, steel pole & Trees	178+800	178+900	Trees & Jungle	70	Petrol pump	
134	70	Under construction House, Electrical Pole (1) nod	178+900	178+950	-	-	Electrical Utility	
135	50	Shops (1) nod, Transformer & Electrical Pole (1) nod	178+950	179+000	Electrical Pole & Trees	70	Shops	
136	70	Electrical Pole (1) nod, Coconut farm & Jungle	179+000	179+170	Fencing, Electrical Poles (1) nod, Trees (1) nod & Jungle	70	Electrical Utility	
137	30	Electrical Pole (1) nod, Street light & Steel arch	179+170	179+200	Under construction house, Trees & Jungle	10	Houses	
138	30	Electrical Pole, Trees & Jungle	179+200	179+300	Trees & Jungle	70	Electrical Utility	
139	30	Trees (1) nod	179+300	179+180	Trees & Jungle	70	Trees	
140	30	Houses (1) nod, Trees & jungle	179+180	179+510	Electrical Poles (1) nod, Coconut Trees (1) nod & Existing culvert	30	Houses	
141	10	Houses (1) nod, Electrical Pole & Jungle	179+550	179+670	Small Temple & Jungle	10	Houses	
142	30	Transformer, Electrical Poles (1) nod, Trees & Jungle	179+670	179+/00	Electrical Pole & line crossing, Trees & Jungle	30	Electrical Utility	
143	50	Wooden work factory, Electrical Pole (1) nod, Trees & Jungle	179+/00	179+/50	Banana farm, Trees & Electrical Pole	50	Shops	
144	50	Trees (1) nod & Existing Culvert	179+800	179+850	Shops (1) nod, Entrance Arch, Coconut Trees	50	Shops	
145	50	Fencing & Trees	179+850	179+900	Fencing & Teak wood Trees	50	Trees	
146	50	Building, Electrical Pole, Trees (1) nod	179+900	179+950	Compound Wall, Electrical Pole & Trees	50	Houses	
147	70	Trees (1) nod & Jungle	179+950	130+000	Transformer, Electrical Poles (1) nod & Jungle	70	Electrical Utility	
148	70	Electrical Pole & Trees	130+000	130+170	Electrical Poles (1) nod, Arch & Trees	70	Electrical Utility	
149	60	Houses (1) nod, Electrical Pole (1) nod, Coconut & Teak wood Trees	130+170	130+200	Houses (1) nod, Electrical Poles (1) nod & Transformer	60	Houses	
150	50	Houses (1) nod, Electrical Pole & Trees (1) nod	130+200	130+250	Houses (1) nod, Electrical Poles (1) nod & Coconut Trees	50	Houses	
151	50	Houses Fencing (1) nod, Electrical Pole & Trees (1) nod	130+250	130+300	Houses (1) nod, Electrical Poles (1) nod & Coconut Trees	50	Houses	
152	50	Shops, Electrical Pole & Trees	130+300	130+350	Compound Wall, Electrical Pole (1) nod & Trees	50	Compound Wall	
153	50	Houses (1) nod, Electrical Poles (1) nod & Trees	130+350	130+100	Houses (1) nod, Electrical Poles (1) nod & Trees	50	Houses	
154	50	Houses (1) nod, Electrical Poles (1) nod & Trees	130+100	130+150	Houses (1) nod, Trees & Jungle	50	Houses	
155	50	Under construction building, Electrical Pole & Teak wood Trees	130+150	130+500	Fencing, Trees, Electrical Pole & Jungle	50	Houses	
156	70	Teak wood Trees & Jungle	130+500	130+550	Trees & Jungle	70	Trees	
157	70	Fencing, Trees & Jungle	130+550	130+600	Fencing Pole preparation shop, Trees & Jungle	70	Shops	
158	70	Trees & Jungle	130+600	130+/00	Shops (1) nod, Electrical Poles (1) nod & Trees	10	Shops	
159	30	House with Gate (1) nod, Electrical Pole (1) nod	130+/00	130+/80	Trees, Electrical Poles & Culvert structure	30	Houses	
160	10	Electrical Pole & Line crossing	130+/80	130+800	Electrical Pole & Line crossing	10	Electrical Utility	
161	10	Trees (1) nod, Trees & Jungle	130+800	130+900	Trees (1) nod, Electrical Pole, Trees & Jungle	10	Electrical Utility	
162	70	Electrical Pole (1) nod, Existing culvert & Jungle	130+900	131+000	Arch, Existing culvert, Electrical Pole, Trees & Jungle	70	Electrical Utility	
163	70	Trees (1) nod & Electrical Pole	131+000	131+100	Building (1) nod, Shop, Trees (1) nod, Electrical Pole & Trees	10	Shops	
164	70	Trees (1) nod & Electrical Pole	131+100	131+200	Temple (1) nod, Trees (1) nod & Jungle	75	Temple	
165	75	Hotel (1) nod & Electrical Pole (1) nod	131+200	131+300	Trees (1) nod & Electrical Pole	70	Hotel	
166	30	Carpenter Shop, Electrical Pole (1) nod & Jungle	131+300	131+100	Under construction building, Electrical Pole, Pump set, Trees & Jungle	30	Houses	
167	10	Electrical Poles (1) nod, Teak wood Trees & Jungle	131+100	131+500	Electrical Pole, Existing culvert & Jungle	35	Electrical Utility	
168	70	Fencing, Trees (1) nod & Jungle	131+500	131+600	Marble show room, Electrical Poles & Line crossing (1) nod, Trees & Jungle	10	Shops	

Sr.No.	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Type	Remarks
			From	To				
169	70	Fencing, Electrical Poles 0 nod, Existing culvert & Jungle	131+600	131+700	Electrical Pole, Trees & Jungle	70	Electrical Utility	
170	10	High mast light Sign boards, Houses 11 nod, Electrical Poles 12 nod & Trees 8 nod	131+700	131+800	Advertisement board, Fencing, Houses 11 nod, Electrical Poles 12 nod & Trees	10	Houses	
171	70	Houses 11 nod, Over head tank, Coconut Trees & Jungle	131+800	131+970	Trees & Jungle	70	Houses	
172	30	River crossing & Trees	131+970	132+000	River crossing & Trees	30	Trees	
173	10	Coconut farm	132+000	132+100	Trees & Jungle	10	Trees	
174	60	Banana farm & Trees 110 nod	132+100	132+700	Trees & Jungle	60	Trees	
175	50	Houses 13 nod, Shop 11 nod & Electrical Pole	132+700	132+750	Electrical Pole, Trees & Jungle	50	Houses	
176	50	Banana farm	132+750	132+300	Coconut farm	50	Trees	
177	60	House, Teak wood Trees, Banana & Coconut Trees	132+300	132+100	Teak wood Trees, Banana & Coconut Trees, Electrical Pole & Jungle	60	Houses	
178	10	Shop & Godown, Fencing with Gate	132+100	132+500	Teak wood Trees, Banana & Coconut Trees, Electrical Pole & Jungle	50	Shops	
179	30	Teak wood Trees & Trees 16 nod	132+500	132+600	Compound wall, Trees 16 nod & Jungle	30	Trees	
180	30	Bore well, Pump set Electrical Poles 12 nod & Line crossing & Trees	132+600	132+730	Under construction House 11 nod, Electrical Poles 11 nod & Line crossing & Trees	30	Bore well & Pump set	
181	75	Overhead Water Tank	132+730	132+800	Trees & Jungle	70	Water Tank	
182	50	Trees & Jungle	132+800	132+900	Coconut farm, Electrical Poles 12 nod, Teak wood Trees & Jungle	50	Electrical Utility	
183	100	Banana farm, Pump set & Trees	132+900	133+000	Pump set, Banana farm, Electrical Poles 12 nod & Line crossing & Coconut Trees	100	Electrical Utility	
184	100	Motor garage shop, Electrical Pole 12 nod & Banana farm	133+000	133+100	Coconut Trees, Existing culvert & Jungle	100	Electrical Utility	
185	15	Temple, Hand pump, 1 no. of buildings, Electrical Poles 12 nod & Trees	133+100	133+150	Electrical Poles 12 nod & line crossing & Trees	70	Temple	
186	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 12 nod & Trees	50	Shops	
187	10	Houses 13 nod, Mango & Coconut Trees & Electrical Pole 11 nod	133+200	133+280	Trees 16 nod & Jungle	10	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 17 nod	133+400	133+500	Trees, Existing culvert & Jungle	30	Trees	
191	60	Hotel 12 nod, Electrical Poles 12 nod & Trees	133+500	133+600	School compound wall Fencing & Trees 117 nod	50	Hotel	
192	30	Houses 12 nod, Electrical Pole 11 nod, School compound wall fencing	133+600	133+700	Compound wall, Transformer, Electrical Poles 12 nod, Arch & Trees 110 nod	60	Houses	
193	10	Compound Wall, Electrical Pole, Trees & Jungle	133+700	133+750	House 11 nod, Pond, Compound wall building & Electrical Poles & Trees	10	Electrical Utility	
194	30	House, Electrical Pole, Trees & Jungle	133+750	133+800	House, Electrical Poles & Trees	30	Houses	
195	50	Houses 13 nod, Trees & Jungle	133+800	133+900	House 11 nod, Electrical Poles 13 nod, Trees & Jungle	10	Houses	
196	30	Sign boards, Houses 12 nod, Building, Electrical Poles 12 nod	133+900	133+950	Shops, Lighting Pole 12 nod & Electrical Pole 12 nod	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	Myanam	10	Electrical Utility		
200	30	House & Trees	134+080	House & Trees	30	Houses	Encroachment	
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	-	-	POB @ CH: 134+315	
208	10	Electrical Pole & Line Crossing & Pump house	134+700	Standing Crop	-	Electrical Utility		
209	70	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	10	HT Tower & Banana Farm	135+100	Banana Farm & Trees	10	Electrical Utility		
214	10	Electrical Pole	135+110	Electrical Pole	10	Electrical Utility		
215	70	Electrical Pole & Trees	135+550	Well & Trees	70	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	Coconut trees	135+800	Coconut trees	50	Trees		
219	50	Electrical Pole & Line Crossing, Standing Crop & Trees	135+500	Electrical Pole & Line Crossing	70	Electrical Utility		
220	10	Electrical Pole & Line Crossing	136+100	Electrical Pole & Line Crossing	10	Electrical Utility		
221	100	Coconut farm & Electrical Pole	136+150	Coconut farm & Electrical Pole	100	Electrical Utility		
222	10	Road crossing, Electrical pole & Trees	136+300	Pathway from 50 animals Road	10	Electrical Utility	VUP @ CH: 136+287	
223	-	-	136+600	136+700	Electrical Tower & Vegetable farm	10	Electrical Utility	
224	10	Electrical Pole & Line crossing	137+010	Electrical Pole & Line crossing	10	Electrical Utility		
225	70	Road crossing & Electrical pole	137+100	House & Trees	70	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+670	Standing crop, Road crossing (Pathway from 50 animals Road) & Trees	70	Electrical Utility	
230	-	-	137+670	137+700	Standing crop & Electrical Pole	80	Trees	
231	10	Electrical Pole & Line Crossing	137+850	Electrical Pole & Line Crossing	10	Electrical Utility		

Sr.No.	Obstruction Length (ml)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (ml)	Type	Remarks
			From	To				
227	10	Electrical Pole	137+900		Electrical Pole	10	Electrical Utility	
228	60	Pump set Banana farm, Coconut farm & Teak wood Trees	138+710	138+300	Banana farm, Coconut farm & Teak wood Trees	60	Pump set	
231	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, Coconut farm & Canal crossing	138+450	138+550	Pump set Banana farm, Coconut farm & Canal crossing	100	Trees	
236	50	Fish pond, Banana farm & Trees	138+670	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	70	Road Crossing, Trees & EB Pole	138+730		Patheswaram to Pappinassam Road, Trees	70	Electrical Utility	
239	70	Coconut farm, Electrical Pole & Trees	138+730	138+750	Coconut farm, Electrical Pole & Trees	70	Electrical Utility	
240	50	Houses (1/ nod, Trees & Electrical Pole)	138+750	138+800	Coconut farm, Banana farm & Teak wood Trees	50	Houses	
241	100	River crossing & Trees	138+850	138+970	River crossing & Trees	100	Trees	Minor bridge @ CH: 138.901
242	170	Coconut Trees & Banana Trees	139+280	139+450	Coconut Trees & Banana Trees	170	Trees	
243	70	Electrical Poles & Line Crossing, Road crossing & Trees	139+450		Electrical Poles & Line Crossing, Road crossing & Trees	70	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+790		Electrical Pole & Line Crossing	10	Electrical Utility	
249	10	Electrical Pole	140+870		-	-	Electrical Utility	
250	-	-	140+860		Canal Crossing & Trees	70	Trees	
251	-	-	140+900		EB Pole & Line Crossing	70	Temple	
252	-	-	141+107		Nallur to Avuru Pond	15	Trees	
253	-	-	141+120	141+270	EB Pole & Line Crossing	90	Electrical Utility	
254	100	Coconut Trees & Electrical pole	141+300	141+400	Coconut 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+710		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		Koticherry to Kalachery	-	-	
260	70	Bore well, Pump house & Trees	142+260		EB Pole & Line Crossing	10	Bore well & Pump house	
261	70	Bore Well	142+500		Electrical Pole & Line Crossing	10	Bore well	
262	-	-	142+670		Pump set & Trees	70	Pump set	
263	70	High Tension Tower	142+850		-	-	Electrical Utility	
264	10	Bore Well	142+850		-	-	Bore well	
265	-	-	143+100		High Tension Tower	70	Electrical Utility	
266	10	Pump set & Bamboo trees	143+300		Bamboo trees	10	Pump set	
267	70	EB Pole & Trees	143+600		EB Pole & Trees	70	Electrical Utility	
268	-	-	143+850		Electrical Pole & Line Crossing & Trees	15	Electrical Utility	
269	15	Bore Well & Tree	144+150		-	-	Bore well	
270	50	Teak wood trees	144+750		Teak wood trees	50	Trees	
271	15	Trees	145+100		Trees	15	Trees	
272	-	-	145+570		Pump Set & Electrical Pole	70	Pump set	
273	10	Electrical Pole & Line Crossing	146+000		Electrical Pole & Line Crossing	10	Electrical Utility	
274	70	Pump set	146+050		Electrical Pole & Line Crossing	10	Pump set	
275	10	Electrical Pole & Line Crossing	146+070		-	-	Electrical Utility	
276	-	-	146+120		Electrical Pole & Line Crossing	10	Pump set	
277	10	Electrical Pole	146+700		-	-	Electrical Utility	
278	70	Trees & Electrical Pole	146+300		Trees & Electrical Pole	70	Electrical Utility	
279	-	River Crossing	146+630		River Crossing	-	Trees	
280	70	Electrical Pole & Line Crossing	146+700	146+770	Electrical Pole & Line Crossing & Trees	70	Electrical Utility	
281	10	Nala Crossing, Trees & Electrical Pole	146+780		Nala Crossing, Trees & Electrical Pole	10	Electrical Utility	
282	70	Pump set River Crossing, Trees & Electrical Pole	146+830		River Crossing, Trees & Electrical Pole	70	Pump set	
283	70	Pump set	146+900		Trees & EB Pole	70	Pump set	
284	30	Nala Crossing & Trees	146+900		Nala 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	10	Electrical Utility	
288	-	-	147+700		Bore well & trees	15	Bore well	
289	70	High Tension Tower	147+320		-	-	Electrical Utility	
290	70	Bore well & Pump house	147+380		-	-	Bore well & Pump house	
291	30	Nala Crossing & Trees	147+370	147+400	House	30	Houses	
292	-	-	147+410		Houses, Trees & Electrical line	10	Electrical Utility	
293	70	Teak wood trees	147+570		Teak wood trees	70	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	70	Road Crossing, Trees & EB Pole	147+900		Road Crossing, Trees & EB Pole	70	Electrical Utility	
297	-	-	147+900		Trees & EB Pole & Nala crossing	170	Trees	
298	750	Banana Farm, Pump set & EB Pole	148+300	148+550	Banana Farm, Pump set & EB Pole	750	Pump set	
299	10	EB Electrical Pole	148+700		Trees 10 nod	70	Electrical Utility	
300	70	Trees 10 nod & Pump set	149+000		EB Electrical Pole & Line crossing	10	Pump set	
301	10	EB Pole & trees 10 nod	149+100		Pump set & EB Pole	70	Pump set	
302	10	EB Electrical Pole	149+150		EB Electrical Pole	10	Electrical Utility	
303	10	EB Electrical Pole	149+700		-	-	Electrical Utility	
304	10	River crossing	149+300		-	-	Trees	
305	70	River crossing	149+100		-	-	Trees	
306	70	Pump set	149+900		Pump set & Electrical Pole	70	Pump set	
307	10	EB Pole & Line crossing	149+980		Pump set EB Pole & Line Crossing & Trees 10 nod	70	Pump set	
308	10	EB Pole & Line crossing	150+150		EB Pole & Line crossing	10	Electrical Utility	
309	10	EB Pole & Line crossing	150+710		-	-	Electrical Utility	
310	10	Trees 10 nod	150+710	150+300	Trees 10 nod & Pump set	10	Pump set	
311	10	EB Pole & Line crossing	150+160		EB Pole & Line crossing	10	Electrical Utility	
312	70	Pump house	150+610		EB Pole & Line crossing & Trees 10 nod	10	Pump house	

Sr.No.	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Type	Remarks
			From	To				
313	70	River Crossing, Trees & EB Pole	150+780		Regulator & trees	70	Water Regulator	
314	10	EB Pole & line crossing & Trees (7' nod)	151+000		EB Pole & Line crossing & Trees (7' nod)	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' nod) & Trees (1' nod)	-	Temple	
318	70	Pump set & Electrical Pole & line crossing	151+650		Electrical Pole	70	Pump set	
319	10	Electrical Pole	151+630		-	-	Electrical Utility	
320	-		151+930			-	Pump set	
321	10	Electrical Pole	152+070		Electrical Pole	10	Electrical Utility	
322	10	Electrical Pole	152+100		Electrical Pole	10	Electrical Utility	
323	-		152+150		Jungle	70	Trees	
324	-	Road Crossing, Trees & EB Pole	152+350		Salemangalam to Palavaludi	-	Electrical Utility	
325			152+100	152+500	Coconut Farm & Banyan trees	100	Trees	
326	-	Pump set well & Electrical Pole	152+130		Pump set well & Electrical Pole	-	Pump house	
327	70	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	70	Canal Crossing & Trees	152+900		Canal Crossing & Trees	70	Trees	
330	-		153+000		Trees (15' nod)	10	Trees	
331	70	EB Pole & Trees	153+280		Bore well & Pump set	70	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 (11' nod)	153+630		Electrical Poles & Trees (11' nod)	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	70	Canal Crossing & Trees	153+970		Canal Crossing & Trees	70	Trees	
339	15	Electrical Pole	154+050		Electrical Pole	15	Electrical Utility	
340	10	Electrical Pole	154+150		Electrical Pole	10	Electrical Utility	
341	10	Houses (6' nod), Electrical pole & Trees	154+590	154+630	Houses (6' nod), Electrical pole & Trees	10	Houses	
342	170	Bamboo trees & trees & Canal crossing	154+630	154+750	Bamboo trees & trees & Canal crossing	170	Trees	
343	10	Electrical Pole	154+650		Electrical Pole & Trees	15	Electrical Utility	
344	90	Houses (11' nod) & Trees	154+680	154+770	Bamboo trees	90	Houses	
345	130	Coconut Farm, River crossing & Electrical poles	155+950	155+080	Coconut Farm, River crossing & Electrical poles	130	Electrical Utility	
346	80	Bore well & Pump house & Electrical Poles & Next crop planted due to dispute in compensation.	155+170	155+250	Electrical poles & Trees & Next crop planted due to dispute in compensation.	80	Bore well & Pump house	
347	80	Electrical Pole & Next crop planted due to dispute in compensation.	155+200	155+280	Next crop planted due to dispute in compensation.	80	Electrical Utility	
348	100	Trees & Next crop planted due to dispute in compensation.	155+280	155+380	Bore well & trees & Next crop planted due to dispute in compensation.	100	Trees	
349	170	Coconut trees (6' nod) & Next crop planted due to dispute in compensation.	155+380	155+550	Bore well & Electrical Pole & Next crop planted due to dispute in compensation.	170	Trees	
350	50	Coconut Farm & Electrical Poles	155+700	155+750	Coconut Farm & Electrical Poles	50	Trees	
351	10	Coconut Farm, Pump set & Electrical poles	155+750	155+760	House, Coconut Farm & Electrical Pole	10	Houses	
352	10	Pump set & Electrical poles	155+760	155+770	Road crossing	10	Electrical Utility	
353	70	Water tank & Trees	155+780		Trees	70	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+270	156+350	Canal crossing & trees	130	Trees	
358	10	Pump set, Electrical Pole & Trees	156+280	156+170	Jungle, Electrical Pole & Trees	10	Pump set	
359	70	Electrical Pole	156+170	156+110	Teak wood trees	70	Electrical Utility	
360	30	Kalem	156+110	156+170	Jungle, Electrical Pole & Trees	30	Trees	
361	10	Road Crossing, Trees & EB Pole	156+170	156+180	Konduraththidal & Peruvallanallur	10	Electrical Utility	
362	70	Road Crossing, Trees & EB Pole	156+180	156+550	Konduraththidal & Peruvallanallur	70	Electrical Utility	
363	50	River crossing & Trees	156+550	156+600	River crossing & Trees	50	Trees	
364	10	House, Electrical pole	157+080		Coconut trees	80	Electrical Utility	
365	50	Road crossing, Electrical pole & Trees	157+150		Magalarambal to Thiruvannalur	50	Electrical Utility	
366	30	Nala Crossing, Electrical Pole & Trees	157+155		Nala Crossing & Trees	30	Electrical Utility	
367	50	Fish Pond, Electrical pole & Coconut trees	157+160	157+510	Fish Pond, Electrical pole & Coconut 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+970	157+980	Electrical Pole, Jungle & Trees	60	Electrical Utility	
370	70	High Tension Tower	158+850		-	-	Electrical Utility	
371	10	Canal crossing, Jungle & Trees	159+080	159+170	Canal crossing, Jungle & Trees	10	Trees	
372	10	Trees & Electrical Pole	159+100		Pump set, Bore well & Trees	70	Pump set	
373	10	Electrical Pole	159+150		Electrical Pole	10	Electrical Utility	
374	70	Electrical Pole & line crossing	159+580		House & Trees	70	Electrical Utility	
375	90	Trees, Jungle & Electrical Pole	159+610	159+700	Trees, Jungle & Electrical Pole	90	Electrical Utility	
376			159+700	159+770	Electrical Pole, Jungle & Trees	70	Pump set	
377	10	Electrical Pole	159+950				Electrical Utility	
378			160+080	160+170	Trees, Jungle & Electrical Pole	10	Trees	
379	10	Houses	160+170	160+160	Houses (6' nod), Water Tank & Trees	10	Houses	
380	70	House, Trees (70' nod), Electrical pole & line crossing	160+160	160+180			Houses	
381	10	Houses & Hut	160+180	160+270			Houses	
382	10	Electrical Poles	160+280		-	-	Electrical Utility	
383	10	Well, Pump set, Electrical Pole & Trees	160+510				Well	
384	10	Pump house, Electrical Pole & trees	160+670		Small structure, Electrical Pole & trees	10	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	70	Bore well, Trees (16' nod), Electrical Pole	160+950	161+070	Trees & Electrical Pole	70	Electrical Utility	

Sr.No.	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Type	Remarks
			From	To				
388	30	Jungle, Trees & Mud Road crossing	161+080	161+110	Jungle, Trees & Mud Road crossing	30	Trees	
389	10	Bore well & Pump set	161+110	161+120	Electrical Pole	10	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+120		Electrical Pole, Jungle & Trees	10	Electrical Utility	
392	10	Electrical Pole, Jungle & Trees	161+150	161+200	Electrical Pole, Jungle & Trees	50	Electrical Utility	
393	20	Pump room, Electrical pole	161+250				Pump house	
394	10	Pump set, Electrical Pole & Trees	161+800		Electrical Pole & Trees	10	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, B nod, Bore well & Pump Set	100	Houses	
398	20	Electrical Pole, Jungle & Trees	162+100		Electrical Pole, Jungle & Trees	20	Electrical Utility	
399	60	Trees B nod	162+270	162+330	Electrical Pole D nod, 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+510	House, Trees & Electrical Pole	10	Houses	
402	10	House, Electrical pole, Road Crossing & Trees	163+580	163+590	Electrical pole, Road Crossing & Trees	10	Houses	
403	-	-	163+670	163+680	House: D nod, Electrical pole, Road Crossing & Trees	10	Houses	
404	100	River crossing, Jungle & Trees	163+700	164+100	River crossing, Jungle & Trees	400	Trees	
405	70	High mast light, Electrical Pole	161+180	161+250	High mast light, Electrical Pole	70	Electrical Utility	
406	25	Shops B nod	161+250	161+275	Trees B nod	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 (2 nos), Electrical Pole & Trees	116+440	116+470	Houses (6 nos), Mango farm, Coconut farm & Electrical Pole (2 nos)	30		
	30	Houses (3 nos), Electrical Pole (2 nos) & Trees	116+470	116+500	Bus shelter & Electrical Transformer	30		
	20	Houses (2 nos), Electrical Pole & line- crossing & Trees	116+500	116+520	Houses (5 nos), & Coconut Trees (6 nos)	20		
	60	Houses (6 nos), Culvert & Trees	116+520	116+580	Trees	60		
	20	Electrical Pole & Trees	116+580	116+600	Canal crossing, culvert & Trees	20		
	50	Houses (4 nos), Electrical Pole & Trees	116+600	116+650	Canal crossing & Trees	50		
	50	Houses (2 nos), Electrical Pole & Trees	116+650	116+700	Bore Well, Pump set, Electrical Pole & Trees	50		
	50	Trees	116+700	116+750	Houses (7 nos), Electrical Pole & Trees	50		
	50	Houses (6 nos), Electrical Pole & Trees	116+750	116+800	Houses (4 nos) & Coconut Trees	50		
	50	Vinayagar Temple, Houses (7 nos) & Electrical Pole (3 nos)	116+800	116+850	Houses (5 nos), & Coconut Trees	50		
	50	Houses (7 nos), Electrical Poles & Trees	116+850	116+900	Houses (8 nos) & 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 (5 nos), Culvert, Electrical Poles & Coconut Trees	116+900	116+950	Houses (6 nos) & Coconut Trees	50		
	30	Houses (2 nos), Electrical Pole (3 nos) & Trees	116+950	117+980	Coconut Trees & Hala	30		
	20	Houses (2 nos), Electrical Poles & Trees	116+980	117+000	Coconut Trees, Fencing & Electrical Pole	20		
	50	Houses (7 nos), Electrical Pole (4 nos) & Trees	117+000	117+050	Church & Shops (3 nos)	50		
	50	Houses (5 nos), Electrical Poles & Trees	117+050	117+100	Houses (7 nos), Electrical Poles & Trees	50		
	20	Houses (3 nos), Electrical Pole & Trees	117+100	117+120	House (2 nos), Pond & Trees	20		
	30	Temple, Bus shelter, Houses (4 nos), Electrical Pole & Trees	117+120	117+150	House (2 nos), Pond & Trees	30		
	50	Houses (3 nos), Electrical Poles (3 nos) & Trees	117+150	117+200	Houses (6 nos), Pabon Shop, Electrical Poles, Trees & Pond	50		
	50	Temple, Houses (2 nos) & Coconut Trees	117+200	117+250	Houses (9 nos), Electrical Poles & Trees	50		
	50	Houses (3 nos), Electrical Poles & Trees	117+250	117+300	Houses (2 nos), Electrical Poles & Trees	50		
	50	Houses (3 nos), Electrical Poles & Trees	117+300	117+350	Houses (3 nos), Electrical Poles & Trees	50		
	50	Houses (4 nos), Electrical Poles & Trees	117+350	117+400	Houses (4 nos), Electrical Poles & Trees	50		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	50	Houses (5 nos), Electrical Poles & Trees	117+400	117+450	Houses (6 nos), Electrical Poles & Coconut Trees	50		
	50	Houses (4 nos), Bus shelter, Water Tank, Electrical Poles & Trees	117+450	117+500	Houses (5 nos), Electrical Poles & Trees	50		
	50	Houses (4 nos), Electrical Poles & Trees	117+500	117+550	Trees & Electrical Poles	50		
	50	Trees & Electrical Poles	117+550	117+600	Houses (4 nos), Electrical Poles & Trees	50		
	50	Houses (5 nos), Electrical Poles & Trees	117+600	117+650	Houses (3 nos), Electrical Poles & Trees	50		
	30	Teak Wood Trees	117+650	117+680	Demolished structure & Bamboo Trees	30		
	25	Pond, Electrical Pole & Trees	117+740		Trees	25		
	20	Electrical Pole & Teak wood Trees	117+800		Teak wood Trees	20		
	-	-	117+830		Pump set, Electrical Pole (2 nos) & Coconut Trees	15		
	-	-	117+900		Canal & Electrical Pole	15		
	-	-	117+950		Electrical Pole	10		
	10	Electrical Pole	118+000	118+050	Canal & Culvert	15		



Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	10	Electrical Pole	118 +280		Electrical Pole	-		
	10	Electrical Pole & Canal crossing	118 +300	118 +350	Electrical Pole	10		
	15	Trees	118 +470		Trees	15		
	10	Electrical Poles (3 nos)	118 +500		Electrical Poles (2 nos)	10		
	-	-	118 +530		Pump set, Electrical Pole (2 nos) & Canal crossing	30		
	10	Electrical Pole & Line crossing	118 +630		Electrical Pole & Line crossing	10		
	25	Electrical Poles (4 nos) & Road crossing	118 +650	118 +750	Electrical Poles (3 nos) & Road crossing	25		
	15	Concrete structure	118 +780		Cocunut Trees (3 nos)	10		
	10	Electrical Poles (2 nos) & Cocunut Trees	118 +840		Cocunut Trees	10		
	15	Demolished House Structure	118 +930		Demolished House Structure	15		
	10	Electrical Poles (2 nos) & Trees	118 +950		Electrical Poles (2 nos) & Trees	10		
	15	Trees (8 nos)	119 +080		-	-		






















Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	40	Cocunut farm & Teak wood Trees	119 +350		Cocunut farm & Teak wood Trees	40		
	15	Concrete Pump room structure & Trees	119 +430		-	-		
	-	-	119 +600		Govt School Building Structures (Partly)	15		
	10	Electrical Pole	119 +800		-	-		
	10	Trees	119 +900		Electrical Pole	10		
	20	House (1 no.) & Coconut Trees	120 +000		Electrical Pole	10		
	50	House (5 nos), Coconut farm, Electrical Pole (3 nos) & Line crossing & Trees	120 +000	120 +050	House, Electrical Pole (3 nos) & Trees	50		
	50	House (3 nos), Teak wood Trees	120 +050	120 +100	Bus shelter, House (3 nos), Electrical Pole (3 nos) & Teak wood Trees	50		
	50	Temple, House (3 nos), Electrical Pole & Coconut farm	120 +100	120 +150	House (3 nos), Electrical Poles (2 nos) & Coconut Trees	50		
	50	Cocunut farm, Trees	120 +150	120 +200	Houses (2 nos), Electrical Pole & Trees	50		
	50	Cocunut farm, Pond & Trees	120 +200	120 +250	Temple, Houses (2 nos) & Electrical Pole	50		
	30	Houses (2 nos), Electrical Pole, Culvert & Coconut farm	120 +250	120 +280	Houses (3 nos), Electrical Poles & Coconut farm	30		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	20	Houses (1 no.), Electrical Pole, Culvert, Hala & Coconut farm	120 +280	120 +300	Houses (2 no.), Electrical Poles & Coconut farm	20		
	50	Houses (4 no.), Electrical Poles & Coconut farm	120 +300	120 +350	Houses (3 no.), Electrical Poles, Culvert & Trees	50		
	50	Shops, Electrical Pole & Coconut farm	120 +350	120 +400	House, Electrical Pole & Teak wood Trees	50		
	50	Houses (2 no.), Electrical Poles & Coconut Trees	120 +400	120 +450	Houses (4 no.), Petrol Pump, Electrical Poles (2 no.) & Coconut Trees	50		
	50	Houses (2 no.), Shops, Coconut & Teak wood Trees	120 +450	120 +500	Houses (3 no.), Electrical Poles & Trees	50		
	50	Houses (8 no.), Electrical Poles, Coconut & Teak wood Trees	120 +500	120 +550	Houses (8 no.), Electrical Poles, Coconut & Teak wood Trees	50		
	50	Houses (4 no.) & Coconut farm	120 +550	120 +600	House (1 no.), Electrical Pole & Coconut Trees	50		
	50	Houses (6 no.), Fencing, Electrical Pole, Coconut & Teak wood Trees	120 +600	120 +650	Houses (5 no.), Fencing, Electrical Pole, Coconut, Mango Trees & Fish Pond	50		
	30	Houses, Coconut & Teak wood Trees	120 +650	120 +680	Pond & Trees	30		
	40	Shops, Coconut & Teak wood Trees	120 +680	120 +720	11ed crop planted & Fencing	40		
	80	11ed crop planted, Electrical Poles & Trees	120 +720	120 +800	House (1 no.), Transformer, Electrical Poles (4 no.) & Trees	80		
	50	Houses (3 no.), Culvert & Trees	120 +800	120 +850	Houses (2 no.), Electrical Poles (3 no.) & Trees	50		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	30	Houses (3 nos), Electrical Poles & Trees	120+900	121+930	Houses (1 no.), Fencing, Electrical Pole (4 nos) & Trees	30		
	20	Preparing for next crop, Electrical Pole & Trees	121+930	121+950	Houses (2 nos), Electrical Pole (2 nos) & Trees	20		
	50	Electrical Pole & Trees	121+950	121+000	Houses (2 nos), Electrical Pole (2 nos) & Trees	50		
	10	Electrical Pole & Trees	121+050		Transformer, Electrical Poles (3 nos) & Trees	20		
	-	-	121+100		Electrical Pole	10		
	50	Cocunut Trees, Teak-wood Trees & Jungle	121+150		Electrical Pole & Trees	20		
	50	Bus shelter, Houses (3 nos), Electrical Poles (2 nos) & Trees	121+200	121+250	Bus shelter, Trees & Jungle	50		
	50	House (1 no.), Electrical Pole & Trees	121+250	121+300	House (3 no.), Electrical Poles (5 nos) & Trees	50		
	50	Electrical Pole, Trees & Jungle	121+300	121+350	House (2 nos), Electrical Pole & Trees	50		
	80	Electrical Pole, Trees & Jungle	121+350	121+430	Houses (9 nos), Electrical Poles (3 nos) & Trees	80		
	70	Electrical Poles, Trees & Jungle	121+430	121+500	Electrical Poles, Trees & Jungle	70		
	50	House (1 no.), Electrical Poles, Trees & Jungle	121+500	121+550	Electrical Poles, Culvert, Trees & Jungle	50		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	70	Temple, Houses (3 nos) & Coconut Trees	121+550	121+620	Houses (2 nos), Electrical Pole, Mango Trees & Jungle	70		
	60	Shops, Houses, Electrical Poles, Coconut Trees, Jungle & Culvert	121+620	121+680	Coconut Trees (12 nos), Trees & Jungle	60		
	40	Pump set, Structure & Coconut Trees (8 nos)	121+680	121+720	Electrical Pole & Trees	40		
	20	Trees & Jungle	121+720	121+800	Electrical Pole	10		
	50	Transformer, Electrical Poles & Trees	121+800	121+850	Church Gate, Boundary Wall	50		
	15	Transformer, Electrical Poles (4 nos)	121+930		Electrical Poles (2 nos)	15		
	20	Electrical Poles, existing bridge structure & Trees	122+020		Electrical Pole & Trees	10		
		River crossing & Trees	122+030		River crossing & Trees			
			122+080		Temple, Electrical Pole, Canal & Banyan Trees	25		
	20	Electrical Pole & Trees	122+130		Trees (3 nos)	20		
	15	Electrical Poles, Canal, Banana farm & Teak wood Trees	122+200		Pump set & Electrical Poles	15		
	80	Banana farm, Canal, Teak wood Trees, Transformer & Electrical Poles	122+220	122+300	Teak wood Trees, Electrical Pole & Banana farm	80		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	100	Electrical Poles, Teak wood Trees & Canal	122+300	122+400	HP Petrol Bunk & Electrical Poles	100		
	100	Canal, Teak wood Trees	122+400	122+500	Cocunut 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	-	-		
	20	Teak wood Trees, Electrical Pole & Existing bridge structure (On Branch Road)	122+820		Bus shelter, Electrical Poles & Trees	15		
	10	Teak wood Trees & Canal	122+900		Electrical Pole & Jungle	10		
	100	Canal & Teak wood Trees	122+900	123+000	Electrical Pole, Trees & Jungle	100		
	150	Collage Boundary & Arch Structure, Lighting Posts & Canal crossings	123+000	123+150	Electrical Poles (3 nos)	150		
	70	Canal, Teak wood Trees & Jungle	123+230	123+300	Transformer, Electrical Poles (3 nos) & Trees	70		
	50	Electrical Pole & line crossing, Teak wood Trees, Existing Culvert & Jungle	123+300	123+350	Electrical Poles & Trees & Jungle	50		
	180	Electrical Pole, Teak wood Trees & Jungle	123+440	123+620	Electrical Poles, Trees & Jungle	180		
	20	Teak wood Trees & Jungle	123+650		Electrical Poles, Canal, Trees & Jungle	20		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	30	Houses (2 nos) & Trees	123+700		Electrical Poles, Trees & Jungle	10		
		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 (3 nos), Electrical Pole (2 nos) & Trees	123+950		Transformer, Electrical Poles (4 nos) & Trees	20		
	50	Trees (10 nos) & Jungle	124+100	124+150	-	-		
	-	-	124+250	12+310	Transformer, Electrical Pole (6 nos) & Trees	60		
	-	-	124+550		Pump house, Electrical Pole & Trees (3 nos)	30		
	70	Fencing, Electrical Poles & Trees (20 nos)	124+880	124+950	Trees (12 nos) & Electrical Poles	70		
	100	House, Hut (4 nos), Transformer	124+950	125+050	Electrical Poles & Fencing	100		
	50	Trees	125+050	125+100	Fencing	50		
	100	Trees (14 nos)	125+100	125+200	Trees (4 nos)	100		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	50	Electrical Poles (2 nos)	125 +300	125 +350	Trees (3 nos)	50		
	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 +400	125 +450	Advertisement board	50		
	50	House (5 nos), Electrical Poles & Trees	125 +450	125 +500	House (2 nos), Electrical Poles & Trees	50		
	50	House (3 nos), Electrical Poles & Trees	125 +500	125 +550	House (4 nos), Electrical Poles & Trees	50		
	50	House (4 nos), Electrical Poles & Trees	125 +550	125 +600	House (3 nos), Electrical Poles & Trees	50		
	50	House (3 nos), Electrical Poles & Trees	125 +600	125 +650	Temple, water tank, bore well, House (5 nos), Electrical Poles & Trees	50		
	50	House (3 nos), Electrical Poles & Trees	125 +650	125 +700	Demolished Govt building, House (3 nos), Electrical Poles & Trees	50		
	100	Electrical Pole & Trees	125 +700	125 +800	Compound Wall	100		
	50	Houses (3 nos), Electrical Poles & Trees	125 +800	125 +850	Houses (4 nos), Electrical Poles & Trees	50		
	50	Houses (4 nos), Electrical Poles & Trees	125 +850	125 +900	Houses (2 nos), Electrical Poles & Trees	50		
	50	Govt building, House (1 nos), Electrical Poles & Trees	125 +900	125 +950	Houses (3 nos), Electrical Poles & Trees	50		



Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	100	House (1 no), Water tap & Trees	125+950	126+050	Houses (3 nos) & Trees	100		
	50	Building, Hut (2 nos) & Trees (21 nos)	126+050	126+100	Temple, Houses (5 nos), Electrical Pole (4 nos) & Trees (13 nos)	50		
	100	Electrical Poles, Pond & Trees	126+100	126+200	House, Electrical Pole & Trees	100		
	100	Pond & Trees	126+400	126+500	Pond & Trees	100		
	100	House (3 nos), Electrical Poles & Line crossing & Trees	126+600	126+700	House (3 nos), Electrical Poles & Line crossing & Trees	100		
	100	Bus shelter, Fencing, Houses (4 nos), Electrical Pole & Trees (7 nos)	126+700	126+800	Rice Mill, Houses (4 nos), Hut, Electrical Pole & Trees (13 nos)	100		
	100	Houses (4 nos), Hand pump, Transformer & Electrical Poles	126+800	126+900	Temple, Houses (4 nos), Electrical Pole (2 nos) & Trees (13 nos)	100		
	100	Bus shelter, Pump house, Electrical Pole (4 nos) & Trees (13 nos)	126+900	127+000	Electrical Pole (4 nos), Telephone Pole, Sign board & Trees (14 nos)	100		
	100	Pump house, Electrical Pole (2 nos), Trees (2 nos) & (1)ala	127+000	127+100	Electrical Pole (4 nos) & Trees (3 nos)	100		
	100	Building (4 nos), Electrical Pole (4 nos), Sign boards (4 nos) & Trees (14 nos)	127+100	127+200	Pump house, Electrical Poles (4 nos), Transformer, Sign boards & Trees (10 nos)	100		
	100	Building (2 nos), Electrical Pole (9 nos), Sign boards (4 nos) & Trees (10 nos)	127+200	127+300	Arch, Compound Wall, Electrical Pole (5 nos) & Trees (3 nos)	100		
	20	Electrical Pole (4 nos) & Line crossing	127+450	127+500	Electrical Pole (4 nos), Sign boards (2 nos) & Trees (2 nos)	20		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	20	Electrical Pole (3 nos), Trees (3 nos & 11 lala)	127+500	127+650	Electrical Pole (4 nos), Transformer & Trees	20		
	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		
	25	Fencing	127+800	127+900	Fencing & Electrical pole	25		
	40	Trees & Electrical Pole	127+900	128+000	Compound Wall & Electrical Pole	80		
	20	Trees (5 nos)	128+000	128+120	Pump house, Bore well, Transformer & Electrical Pole (3 nos)	30		
	10	Electrical Pole (1 no)	128+120	128+200	Electrical Pole (4 nos)	40		
	-	-	128+200	128+300	Electrical Pole (2 nos)	20		
	25	Small Temple with Gate & Trees (4 nos)	128+300	128+350	Electrical Pole (2 nos)	20		
	10	Tree	128+350	128+400	Electrical Pole (2 nos)	20		
	15	Electrical Pole, Tree & Existing Culvert	128+400	128+500	Electrical Poles (3 nos)	30		
	10	Tree	128+500	128+550	Electrical Poles (2 nos)	20		
	-	-	128+550	128+600	Electrical Poles	10		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	30	Trees & Jungle	128+600	128+760	Shops (6 nos) & Houses (2 nos), Electrical Poles (5 nos) & Trees	40		
	60	Fencing, Trees & Jungle	128+700	128+800	-	-		
	40	Indian Oil Petrol Bus, Small Temple, steel pole & Trees	128+800	128+900	Trees & Jungle	20		
	20	Under construction House, Electrical Pole (3 nos)	128+900	128+950	-	-		
	50	Shops (9 nos), Transformer & Electrical Poles (5 nos)	128+950	129+000	Electrical Pole & Trees	20		
	20	Electrical Pole (3 nos), Coconut farm & Jungle	129+000	129+120	Fencing, Electrical Poles (2 nos), Trees (2 nos) & Jungle	20		
	30	Electrical Pole (3 nos), Street light & Steel arch	129+120	129+200	Under construction house, Trees & Jungle	40		
	30	Electrical Pole, Trees & Jungle	129+200	129+300	Trees & Jungle	20		
	30	Trees (4 nos)	129+300	129+480	Trees & Jungle	20		
	30	Houses (6 nos), Trees & jungle	129+480	129+510	Electrical Poles (4 nos), Coconut Trees (10 nos) & Existing culvert	30		
	40	Houses (2 nos), Electrical Pole & Jungle	129+550	129+620	Small Temple & Jungle	40		
	30	Transformer, Electrical Poles (3 nos), Trees & Jungle	129+620	129+700	Electrical Pole & line crossing, Trees & Jungle	30		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	50	Wooden work factory, Electrical Pole (4 nos), Trees & Jungle	129+700	129+750	Banana farm, Trees & Electrical Pole	50		
	50	Trees (5 nos) & Existing Culvert	129+800	129+850	Shops (10 nos), Entrance Arch, Coconut Trees	50		
	50	Fencing & Trees	129+850	129+900	Fencing & Teak wood Trees	50		
	50	Building, Electrical Pole, Trees (4 nos)	129+900	129+950	Compound Wall, Electrical Pole & Trees	50		
	20	Trees (4 nos) & Jungle	129+950	130+000	Transformer, Electrical Poles (2 nos) & Jungle	20		
	20	Electrical Pole & Trees	130+000	130+120	Electrical Poles (5 nos), Arch & Trees	20		
	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		
	50	Houses (2 nos), Electrical Pole & Trees (4 nos)	130+200	130+250	Houses (6 nos), Electrical Poles (2 nos) & Coconut Trees	50		
	50	Houses Fencing (1 nos), Electrical Pole & Trees (3 nos)	130+250	130+300	Houses (4 nos), Electrical Poles (2 nos) & Coconut Trees	50		
	50	Shops, Electrical Pole & Trees	130+300	130+350	Compound Wall, Electrical Pole (3 nos) & Trees	50		
	50	Houses (3 nos), Electrical Poles (2 nos) & Trees	130+350	130+400	Houses (6 nos), Electrical Poles (2 nos) & Trees	50		
	50	Houses (7 nos), Electrical Poles (2 nos) & Trees	130+400	130+450	Houses (3 nos), Trees & Jungle	50		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	50	Under construction building, Electrical Pole & Teak wood Trees	130 +450	130 +500	Fencing, Trees, Electrical Pole & Jungle	50		
	20	Teak 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 (6 nos), Electrical Poles (2 nos) & Trees	40		
	30	House with Gate (1 no), Electrical Pole (3 nos)	130 +700	130 +780	Trees, Electrical Poles & Culvert structure	30		
	10	Electrical Pole & Line crossing	130 +780	130 +800	Electrical Pole & Line crossing	10		
	40	Trees (10 nos), Trees & Jungle	130 +800	130 +900	Trees (6 nos), Electrical Pole, Trees & Jungle	40		
	20	Electrical Pole (3 nos), Existing culvert & Jungle	130 +900	131 +000	Arch, Existing culvert, Electrical Pole, Trees & Jungle	20		
	20	Trees (7 nos) & Electrical Pole	131 +000	131 +100	Building (4 nos), Shop, Trees (3 nos), Electrical Pole & Trees	40		
	20	Trees (6 nos) & Electrical Pole	131 +100	131 +200	Temple (1 no), Trees (4 nos) & Jungle	25		
	25	Hotel (1 no) & Electrical Pole (2 nos)	131 +200	131 +300	Trees (3 nos) & Electrical Pole	20		
	30	Carpenter Shop, Electrical Pole (4 nos) & Jungle	131 +300	131 +400	Under construction building, Electrical Pole, Pump set, Trees & Jungle	30		




Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	40	Electrical Poles (2 nos), Teak wood Trees & Jungle	131+400	131+500	Electrical Pole, Existing culvert & Jungle	35		
	20	Fencing, Trees (6 nos) & Jungle	131+500	131+600	Marble showroom, Electrical Poles & Line crossing (2 nos), Trees & Jungle	40		
	20	Fencing, Electrical Poles (2 nos), Existing culvert & Jungle	131+600	131+700	Electrical Pole, Trees & Jungle	20		
	40	High mast light, Sign boards, Houses (4 nos), Electrical Poles (3 nos) & Trees (8 nos)	131+700	131+800	Advertisement board, Fencing, Houses (4 nos), Electrical Poles (2 nos) & Trees	40		
	20	Houses (4 nos), 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 (10 nos)	132+100	132+200	Trees & Jungle	40		
	50	Houses (3 nos), Shop (1 no.) & Electrical Pole	132+200	132+250	Electrical Pole, Trees & Jungle	50		
	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		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	30	Teak wood Trees & Trees (6 nos)	132+500	132+600	Compound wall, Trees (6 nos) & Jungle	30		
	30	Bore well, Pump set, Electrical Poles (9 nos) & Line crossing & Trees	132+600	132+730	Under construction House (1 no.), Electrical Poles (4 nos) & Line crossing & Trees	30		
	25	Overhead Water Tank	132+730	132+800	Trees & Jungle	20		
	50	Trees & Jungle	132+800	132+900	Cocunut farm, Electrical Poles (2 nos), Teak wood Trees & Jungle	50		
	100	Banana farm, Pump set & Trees	132+900	133+000	Pump set, Banana farm, Electrical Poles (2 nos) & Line crossing & Cocunut Trees	100		
	100	Motor garage shop, Electrical Pole (2 nos) & Banana farm	133+000	133+100	Cocunut Trees, Existing culvert & Jungle	100		
	45	Temple, Hand pump, 1 no. of buildings, Electrical Poles (2 nos) & Trees	133+100	133+150	Electrical Poles (2 nos) & line crossing & Trees	20		
	50	High mast light, 3 no. of buildings, Electrical Poles (4 nos) & Trees	133+150	133+200	Houses (3 nos), Street lighting pole, Electrical Poles (2 nos) & Trees	50		
	40	Houses (3 nos), Mango & Cocunut Trees & Electrical Pole (1 no.)	133+200	133+280	Trees (6 nos) & Jungle	40		
	30	River crossing & Trees (Approached)	133+280	133+350	River crossing & Trees (Approached)	30		
	50	Cocunut farm, Pump set & Trees	133+350	133+400	Trees & Jungle	50		
	50	Compound wall, Electrical Pole & Trees (7 nos)	133+400	133+500	Trees, Existing culvert & Jungle	30		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	60	Hotels (2 no), Electrical Poles (2 no) & Trees	133+500	133+600	School compound wall Fencing & Trees (12 no)	50		
	30	Houses (2 no), Electrical Pole (1 no), School compound wall fencing	133+600	133+700	Compound wall, Transformer, Electrical Poles (2 no), Arch & Trees (10 no)	60		
	40	Compound Wall, Electrical Pole, Trees & Jungle	133+700	133+750	House (1 no), Pond, Compound wall, Building & Electrical Poles & Trees	40		
	30	House, Electrical Pole, Trees & Jungle	133+750	133+800	House, Electrical Poles & Trees	30		
	50	Houses (3 no), Trees & Jungle	133+800	133+900	House (1 no), Electrical Poles (3 no), Trees & Jungle	40		
	30	Sign boards, Houses (2 no), Building, Electrical Poles (2 no),	133+900	133+950	Shops, Lighting Poles (2 no) & Electrical Poles (2 no)	30		
	30	High mast light, Sign boards & Electrical Poles	133+950	134+000	High mast light, Sign boards & Electrical Poles	30		
	-	-	134+000	-	Commercial Building	15		
	10	Electrical Pole	134+030	-	Mayanam	10		
	30	House & Trees	134+080	-	House & Trees	30		Encroachment
	10	Electrical Pole	134+100	-	Tree	10		
	10	Electrical Pole	134+120	-	-	-		












Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	10	Electrical Pole	134+200		-	-		
	10	Electrical Pole	134+280		-	-		
	10	Electrical Pole	134+300		House	30		
	30	Pond & Trees	134+350		Electrical Pole	10		
	-	Railway Crossing	134+380		Railway Crossing	-		FOB @ CH: 134+345
	10	Electrical Pole & Line Crossing & Pump house	134+700		Standing Crop	100		
	20	Regulator & Trees	134+710		-	-		water regulator slice 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+400		Banana Farm & Trees	40		
	10	Electrical Pole	135+410		Electrical Pole	10		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	20	Electrical Pole & Trees	135+550		Well & Trees	20		
	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	Cocunut trees	135+800		Cocunut trees	50		
	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	Cocunut farm & Electrical Pole	136+150	136+250	Cocunut farm & Electrical Pole	100		
	10	Food crossing, Electrical pole & Trees	136+300		Pattaswaram to Swarnimalai Road	10		VUP @ CH: 136+282
	50	Cocunut farm	136+450		House & Cocunut farm	50		
	90	Cocunut farm & Vegetable farm	136+550	136+640	Houses (2 nos) & Cocunut farm	90		
	20	Cocunut farm	136+620	136+660	Ilala crossing & Trees	20		
	40	Cocunut farm & Vegetable farm	136+660	136+700	Electrical Tower & Vegetable farm	40		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	70	Jungle & Trees	136+700	136+770	Jungle & Trees	70		
	30	Jungle & Trees	136+900	136+930	Jungle & Trees	30		
	10	Electrical Pole & Line crossing	137+040		Electrical Pole & Line crossing	10		
	20	Road crossing & Electrical pole	137+100		House & Trees	20		
	-	-	137+150		Electrical Pole	10		
	70	Fish Pond & Trees	137+180	137+250	Fish Pond & Trees	70		
	10	Electrical Pole	137+250		-	-		
	100	Fish Pond	137+300	137+400	Fish Pond & Trees (10 nos)	100		
	150	Standing Crop, Teak wood Trees & Electrical Pole	137+400	137+550	Standing Crop & Teak wood Trees & Electrical Pole	150		
	70	Standing crop, Transformer, Electrical Pole & Trees	137+550	137+620	Standing crop, Road crossing (Pattavaram to Sundaraperumal) oil & Trees	70		
	80	Cocunut farm	137+620	137+700	Standing crop & Electrical Pole	80		
	50	Cocunut farm	137+700	137+750	Cocunut farm	50		

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	137+850		Electrical Pole & Line Crossing	10		
	10	Electrical Pole	137+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		
	40	Pump set & Trees	138+200	138+240	Trees	40		
	60	Pump set, Banana farm, Coconut farm & Teak wood Trees	138+240	138+300	Banana farm, Coconut farm & Teak wood Trees	60		
	150	Mango farm & Teak wood Trees	138+300	138+450	Pump set, Mango farm & Teak wood Trees	150		
	100	Pump set, Banana farm, Coconut farm & Canal crossing	138+450	138+550	Pump set, Banana farm, Coconut farm & Canal crossing	100		
	50	Fish pond, Banana farm & Trees	138+620	138+670	Pump set, Fish pond, Banana farm & Trees	50		
	10	Electrical Pole & Line Crossing & Trees	138+680		Electrical Pole & Line Crossing & Trees	10		
	20	Food Crossing, Trees & EB Pole	138+730		Pattaswaram to Papanasam Road, Trees	20		
	20	Coconut farm, Electrical Pole & Trees	138+730	138+750	Coconut farm, Electrical Pole & Trees	20		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	50	Houses (7 nos), Trees & Electrical Poles	138 +750	138 +800	Cocunut farm, Banana farm & Teak wood Trees	50		
	100	River crossing & Trees	138 +850	138 +920	River crossing & Trees	100		Minor bridge @ CH: 138.901
	60	Trees & Cultivation	138 +920	138 +960	Well & Trees	60		
	90	Cocunut Trees	138 +960	139 +050	Cocunut Trees	90		
	100	Cocunut Trees	139 +050	139 +150	Cocunut Trees	100		
	100	Cocunut Trees & Banana Trees	139 +150	139 +250	Cocunut Trees & Banana Trees	100		
	30	River crossing & Trees	139 +250	139 +280	River crossing & Trees	30		
	120	Cocunut Trees & Banana Trees	139 +280	139 +400	Cocunut Trees & Banana Trees	120		
	20	Electrical Poles & Line Crossing, Road crossing & Trees	139 +450		Electrical Poles & Line Crossing, Road crossing & Trees	20		
	-	-	139 +460		Bump, Pump house & Bore Well	30		
	40	Cocunut Trees	139 +650		Cocunut Trees	40		
	10	Electrical Pole & Line Crossing	139 +680		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	139+950		Electrical Pole & Line Crossing	10		
	10	Electrical Pole & Line Crossing	139+970		Electrical Pole & Line Crossing	10		
	10	Electrical Pole & Line Crossing	140+290		Electrical Pole & Line Crossing	10		
	10	Electrical Pole	140+820		-	-		
	20	Canal Crossing & Trees	140+860		Canal Crossing & Trees	20		
	20	Small Temple	140+900		EB Pole & Line Crossing	20		
	15	Road crossing & Trees	141+102		Hallar to Avuru Road	15		
	90	Standing Crop	141+130	141+220	EB Pole & Line Crossing	90		
	100	Coconut Trees & Electrical pole	141+300	141+400	Coconut Trees & Electrical pole	100		
	-	Electrical Pole & Line Crossing & Trees	141+330		Electrical Pole & Line Crossing & Trees	-		
	30	Road crossing & Trees	141+550		-	-		
	30	Coconut trees	141+650		-	-		

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	141+740		Electrical Pole & Line Crossing	10		
	10	Electrical Pole & Line Crossing	141+760		Electrical Pole & Line Crossing	10		
	20	Jungle & Trees	141+900		Jungle & Trees	20		
	10	Electrical Pole & Line Crossing	141+900		Electrical Pole & Line Crossing	10		
	-	Road crossing	142+000		Kotaichery to Kalachery	-		
	20	Bore well, Pump house & Trees	142+260		EB Pole & Line Crossing	10		
	120	Coconut Trees	142+300	142+420	Coconut Trees	120		
	20	Bore Well	142+500		Electrical Pole & Line Crossing	10		
	80	Bamboo, Mango trees & Sugarcane farm	142+570	142+650	Bamboo, Mango trees & Sugarcane farm	80		
	-	-	142+670		Pump set & Trees	20		
	20	High Tension Tower	142+850		-	-		
	10	Bore Well	142+850		-	-		












Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
			143+100		High Tension Tower	20		
	30	River crossing & Trees	143+115		River crossing & Trees	30		
	30	Trees & Jungle	143+200		Trees & Jungle	30		
	40	Pump set & Bamboo trees	143+300		Bamboo trees	40		
	20	Trees	143+400		Trees	20		
	20	Trees	143+450		Trees	20		
	10	Trees	143+600		Trees	10		
	50	Onion Farm	143+550	143+600	Onion Farm	50		
	20	EB Pole & Trees	143+600		EB Pole & Trees	20		
	200	Coconut Trees	143+600	143+800	Coconut Trees	200		
			143+850		Electrical Pole & Line Crossing & Trees	15		
	30	River crossing & Trees	144+050		River crossing & Trees	30		
















Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	200	Jungle, Bamboo Trees	144+100	144+300	Jungle, Bamboo Trees	200		
	10	Trees	144+330		Trees	10		
	15	Bore Well & Tree	144+450		-	-		
	50	Teak wood trees	144+750		Teak wood trees	50		
	15	Trees	145+100		Trees	15		
	10	Tree	145+400		-	-		
	20	Temple	145+500		-	-		
	-	-	145+520		Pump Set & Electrical Pole	20		
	-	-	145+620		Trees	20		
	20	Coconut Trees	145+850		Coconut Trees	20		
	10	Electrical Pole & Line Crossing	146+000		Electrical Pole & Line Crossing	10		
	20	Pump set	146+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	146+070		Trees	10		
	20	Pump set & Trees	146+130		Electrical Pole & Line Crossing	10		
	10	Electrical Pole	146+200		-	-		
	20	Trees & Electrical Pole	146+300		Trees & Electrical Pole	20		
	20	Trees	146+550		Trees	20		
	-	River Crossing	146+630		River Crossing	-		
	20	Electrical Pole & Line Crossing	146+700	146+720	Electrical Pole & Line Crossing & Trees	20		
	10	Hala Crossing, Trees & Electrical Pole	146+780		Hala Crossing, Trees & Electrical Pole	10		
	20	Pump set, River Crossing, Trees & Electrical Pole	146+830		River Crossing, Trees & Electrical Pole	20		
	20	Pump set	146+900		Trees & EB Pole	20		
	30	Hala Crossing & Trees	146+900		Hala Crossing & Trees	30		
	80	Standing Crop	146+980		Pump set & Standing Crop	80		

















Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	15	Pump set	147+050		-	-		
	40	Cocunut Trees & Banana Trees	147+100		High Tension Tower	40		
	50	Banana Trees	147+120	147+170	Pump set	50		
	-	-	147+200		Bore well & trees	15		
	20	High Tension Tower	147+330		-	-		
	20	Bore well & Pump house	147+380		-	-		
	30	Ilala Crossing & Trees	147+370	147+400	House	30		
	-	-	147+410	147+450	Houses, Trees & Electrical Line	40		
	20	Teak wood trees	147+520		Teak wood trees	20		
	30	Trees	147+850		Trees	30		
	30	Electrical Pole & Line Crossing	147+880		Electrical Pole & Line Crossing	30		
	20	Road Crossing, Trees & EB Pole	147+900		Road Crossing, Trees & EB Pole	20		


















Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	120	Banana Farm & Ijala crossing	147+900	148+020	Trees & EB Pole & Ijala crossing	120		
	20	Canal Crossing & Trees	148+050		Canal Crossing & Trees	20		
	200	Mango Farm	148+100	148+300	Mango Farm	200		
	250	Banana Farm, Pump set & EB Pole	148+300	148+550	Banana Farm, Pump set & EB Pole	250		
	15	Cocunut trees (12 nos)	148+600		Cocunut trees (8 nos)	15		
	10	EB Electrical Pole	148+700		Trees (6 nos)	20		
	20	Trees (2 nos) & Pump set	149+000		EB Electrical Pole & Line crossing	10		
	10	EB Pole & trees (5 nos)	149+100		Pump set & EB Pole	20		
	10	EB Electrical Pole	149+150		EB Electrical Pole	10		
	10	EB Electrical Pole	149+200		-	-		
	40	River crossing	149+300		Trees (4 nos)	40		
	20	River crossing	149+400		Trees (2 nos)	20		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	20	Pump set	149+900		Pump set & Electrical Pole	20		
	10	EB Pole & Line crossing	149+980		Pump set, EB Pole & Line Crossing & Trees (4 nos)	20		
	10	EB Pole & Line crossing	150+150		EB Pole & Line crossing	10		
	10	EB Pole & Line crossing	150+210		Trees (2 nos)	10		
	10	Trees (3 nos)	150+210	150+300	Trees (2 nos) & Pump set	10		
	10	EB Pole & Line crossing	150+460		EB Pole & Line crossing	10		
	50	Jungle	150+550		-	-		
	20	Pump house	150+610		EB Pole & Line crossing & Trees (2 nos)	10		
	70	River Crossing, Trees & EB Pole	150+780		Regulator & trees	70		
	20	Jungle	150+900		Tree	20		
	10	EB Pole & Line crossing & Trees (2 nos)	151+000		EB Pole & Line crossing & Trees (2 nos)	10		
	50	Trees (8 nos) & lala crossing	151+050	151+100	Trees (6 nos) & lala crossing	50		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	100	Jungle & Trees	151+100	151+200	Jungle & Trees	100		
	-	Next crop planted	151+200		Pump set & Trees (2 nos)	15		
	50	Jungle & Trees (4 nos)	151+250	151+300	-	50		
	60	Coconut Farm	151+300	151+360	Electrical Pole	60		
	130	Coconut Farm & Teak wood trees	151+500	151+630	Coconut Farm & Teak wood trees	130		
	-	Trees	151+600		Small Temple (3 nos) & Trees (7 nos)	-		
	20	Pump set & Electrical Pole & line crossing	151+650		Electrical Pole	20		
	10	Electrical Pole	151+830		-	-		
	15	Trees	151+850		Trees	15		
	-	-	151+930		Pump set & Trees (2 nos)	20		
	10	Electrical Pole	152+020		Electrical Pole	10		
	10	Electrical Pole	152+100		Electrical Pole	10		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	-	-	152+150		Jungle	20		
	-	Food Crossing, Trees & EB Pole	152+350		Sulamangalam to Palasakudi	-		
	100	Coconut Farm & Banyan trees	152+400	152+500	Coconut Farm & Banyan trees	100		
	-	Pump set, well & Electrical Pole	152+430		Pump set, well & Electrical Pole	-		
	20	Bore well & Pump house	152+730		Trees	20		
	30	River crossing, Pump set & Trees	152+880		River crossing Trees	30		
	20	Canal Crossing & Trees	152+900		Canal Crossing & Trees	20		
	-	-	153+000		Trees (15 nos)	10		
	20	EB Pole & Trees	153+280		Bore well & Pump set	20		
	10	EB Pole & Trees	153+500		EB Pole & Trees	10		
	10	Electrical Pole	153+550		Electrical Pole	10		
	30	Bore well & Pump house	153+600		Electrical Pole & Trees	30		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	60	Electrical Poles & Trees (4 nos)	153+630		Electrical Poles & Trees (4 nos)	60		
	15	Electrical Tower	153+720		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	154+050		Electrical Pole	15		
	10	Electrical Pole	154+150		Electrical Pole	10		
	60	Jungle & Trees	154+530	154+590	Jungle & Trees	60		
	40	Houses (6 nos), Electrical pole & Trees	154+590	154+630	Houses (6 nos), Electrical pole & Trees	40		
	120	Bamboo trees & trees & Canal crossing	154+630	154+750	Bamboo trees & trees & Canal crossing	120		
	10	Electrical Pole	154+650		Electrical Pole & Trees	15		
	90	Houses (4 nos) & Trees	154+680	154+770	Bamboo trees	90		
	110	Coconut Farm	154+770	154+880	Coconut Farm & Trees	110		



Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	70	Canal Crossing & Trees	154+880	154+950	Canal Crossing & Trees	70		
	130	Coconut Farm, River crossing & Electrical poles	155+950	155+080	Coconut Farm, River crossing & Electrical poles	130		
	40	Jungle & Trees (3 nos) & 11 feet crop planted due to dispute in compensation.	155+080	155+120	Jungle & Trees (3 nos) & 11 feet crop planted due to dispute in compensation.	40		
	80	Bore well & Pump house & Electrical Poles & 11 feet crop planted due to dispute in compensation.	155+120	155+200	Electrical poles & Trees & 11 feet crop planted due to dispute in compensation.	80		
	80	Electrical Pole & 11 feet crop planted due to dispute in compensation.	155+200	155+280	11 feet crop planted due to dispute in compensation.	80		
	100	Trees & 11 feet crop planted due to dispute in compensation.	155+280	155+380	Bore well & trees & 11 feet crop planted due to dispute in compensation.	100		
	120	Coconut trees (5 nos) & 11 feet crop planted due to dispute in compensation.	155+380	155+500	Bore well & Electrical Pole & 11 feet crop planted due to dispute in compensation.	120		
	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	Road crossing	10		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	20	Next crop planted due to dispute in compensation.	155+775		Pump room	20		
	20	Water tank & Trees	155+780		Trees	20		
	150	Next crop planted due to dispute in compensation.	155+800	155+950	Next crop planted due to dispute in compensation.	150		
	10	Electrical Pole & Tree	155+950		Electrical Pole	10		
	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		
	40	Pump set, Electrical Pole & Trees	156+380	156+420	Jungle, Electrical Pole & Trees	40		
	20	Electrical Pole	156+420	156+440	Teak wood trees	20		
	30	Kalam	156+440	156+470	Jungle, Electrical Pole & Trees	30		
	10	Food Crossing, Trees & EB Pole	156+470	156+480	Kondavattathidal & Peruvakkannallur	10		
	70	Food Crossing, Trees & EB Pole	156+480	156+550	Kondavattathidal & Peruvakkannallur	70		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	50	River crossing & Trees	156+550	156+600	River crossing & Trees	50		
	50	Jungle	156+650		Jungle	50		
	60	River crossing & Trees	156+700		River crossing & Trees	60		
	100	Jungle & Trees	156+850	156+950	Jungle & Trees	100		
	50	Jungle	156+950	157+000	Jungle	50		
	10	House, Electrical pole	157+080		Cocnut trees	80		
	60	Fish Pond, Water storage tank & Trees	157+100		Fish Pond, Water storage tank & Trees	60		
	50	Road crossing, Electrical pole & Trees	157+150		Manalarambal to Thirukuralur	50		
	30	Hala Crossing, Electrical Pole & Trees	157+155		Hala Crossing & Trees	30		
			157+330		Jungle & Trees (4 nos)	25		
	30	Jungle & Trees	157+460		Jungle & Trees	30		
	50	Fish Pond, Electrical pole & Cocnut trees	157+460	157+510	Fish Pond, Electrical pole & Cocnut trees	50		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	10	Well, Electrical Pole & Trees	157+510		Well, Electrical Pole & Trees	10		
	60	Fish pond & Coconut trees (15 nos)	157+720	157+780	Trees (20 nos)	60		
	70	Fish pond	157+780	157+850	Fish pond	70		
	70	Fish pond & Coconut trees	157+850	157+920	Fish pond & Coconut trees	70		
	60	Electrical Pole, Jungle & Trees	157+920	157+980	Electrical Pole, Jungle & Trees	60		
	70	Next crop planted due to dispute in compensation, Electrical pole & Trees	157+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+280	Next crop planted due to dispute in compensation, Canal crossing & Trees	130		
	30	Trees	158+280		Trees	30		
	20	High Tension Tower	158+850		-	-		
	40	Canal crossing, Jungle & Trees	159+080	159+120	Canal crossing, Jungle & Trees	40		
	40	Canal crossing, Jungle & Trees	159+120	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+400		Pump set, Bore well & Trees	20		
	10	Electrical Pole	159+450		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		
	15	Trees	159+720	159+800	Jungle	15		
	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					
	40	Trees & Jungle	160+080	160+120	Trees, Jungle & Electrical Pole	40		
	40	Houses	160+120	160+160	Houses (6 nos), Water Tank & Trees	40		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	20	House, Trees (20 nos), Electrical pole & line crossing	1 60 +1 60	1 60 +180	Cocunut Trees	20		
	40	Houses & Huf	1 60 +180	1 60 +220	Standing Crop	40		
	10	Electrical Poles	1 60 +280		-	-		
	30	Cocunut Trees (1 6 nos)	1 60 +330		1 1/2 crop planted due to dispute in compensation. & Electrical Pole	80		
	40	Well, Pump set, Electrical Pole & Trees	1 60 +540		1 1/2 crop planted due to dispute in compensation.	100		
	40	Pump house, Electrical Pole & trees	1 60 +620		Small structure, Electrical Pole & trees	40		
	70	Canal crossing, Jungle, Trees & Electrical Pole	1 60 +710	1 60 +780	Canal crossing, Jungle, Trees & Electrical Pole	70		
	50	Temple, Electrical Pole, Trees & Jungle	1 60 +780		Temple & Electrical Pole	50		
	20	Bore well, Trees (1 6 nos), Electrical Pole	1 60 +950	1 61 +020	Trees & Electrical Pole	20		
	60	River crossing & Trees	1 61 +020	1 61 +080	River crossing & Trees	60		
	30	Jungle, Trees & Mud Road crossing	1 61 +080	1 61 +110	Jungle, Trees & Mud Road crossing	30		
	40	Bore well & Pump set	1 61 +110	1 61 +150	Electrical Pole	40		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	20	Canal crossing, Jungle & Trees	1 61 +200	1 61 +220	Canal crossing, Jungle & Trees	20		
	10	Electrical Pole, Jungle & Trees	1 61 +420		Electrical Pole, Jungle & Trees	40		
	10	Electrical Pole, Jungle & Trees	1 61 +450	1 61 +500	Electrical Pole, Jungle & Trees	50		
	30	Pump room, Electrical pole	1 61 +550		Trees & Jungle	30		
	40	Jungle & Trees	1 61 +600		Jungle & Trees	40		
	50	Jungle & Trees	1 61 +700		Jungle & Trees	50		
	40	Pump set, Electrical Pole & Trees	1 61 +800		Electrical Pole & Trees	40		
	20	Jungle & Trees	1 61 +820	1 62 +000	Jungle & Trees	20		
	100	Standing Crop, Electrical Poles & Road crossing	1 62 +000	1 62 +100	Standing Crop, Electrical Poles & Road crossing	100		
	50	Standing Crop, Electrical Poles & Trees & Pond	1 62 +100	1 62 +150	Pump set, Standing Crop, Electrical Poles & Trees & Pond	50		
	100	Canal crossing, Electrical Poles	1 62 +150	1 62 +250	House, Trees (5 nos), Bore well & Pump Set	100		
	40	Jungle & Trees	1 62 +250		Jungle & Trees	40		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	80	Well, Pond & Trees	162+350		Pond & Trees	80		
	20	Electrical Pole, Jungle & Trees	162+400		Electrical Pole, Jungle & Trees	20		
	60	Trees (3 nos)	162+520	162+580	Electrical Pole (2 nos), Jungle & Trees	60		
	70	River crossing, Jungle & Trees	162+580	162+650	River crossing, Fencing, Jungle & Trees	70		
	30	Temples (3 nos), 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		
	10	Electrical Poles, Jungle, Trees & Road crossing	163+500	163+550	House, Trees & Electrical Pole	50		
	40	House, Electrical pole, Road Crossing & Trees	163+580	163+620	Electrical pole, Road Crossing & Trees	40		
			163+620	163+650	Houses (2 nos), Electrical pole, Road Crossing & Trees	30		
	400	River crossing, Jungle & Trees	163+700	164+100	River crossing, Jungle & Trees	400		
	70	High mast light, Electrical Pole	164+180	164+250	High mast light, Electrical Pole	70		
	25	Shops (6 nos)	164+250	164+275	Trees (7 nos)	25		
Total Hindrance on LHS in M	20885					21105	Total Hindrance on RHS in M	



## 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	33	Work to be Commenced

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	15	Work in Progress	Supervision charges yet to be paid.

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 final sanctions of Estimates are in progress with the RO, NHAI, Madurai. 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.	4	0	4	
4	TNEB	Electrical Lines	Kms.	19.215	4.3	14.915	Work in Progress

## 2.4. Tree felling

Table 2.4-1: Status of Tree felling

Sl. No.	Name of the District	Chainages			Effectd Length in Kms	Completed as on Date	Balance as on Date	Balance no. of Trees	Remarks
		From	To	Length in Km					
1	Thanjavur	116+440	164+275	47.837	15.310	0	13.885	1145	Work in Progress
Total				47.835					

## 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	-
2	Plan & Profile	Km	47.835	47.835	-
3	Typical Cross Sections	Type	3	3	-
4	Major Intersections	No	20	-	-
5	Minor Intersections	No	22	-	-
6	Toll Plaza (Typical Details)	No	01	-	-
7	Rest Area	No	01	-	-
8	BusBay	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	31	-
3	Grade Separated Intersection	No	06	6	-
4	VUP/PUP	No	12	12	-
5	Box /Slab Culvert	No	103	47	19(GFC)
6	ROB	No	01	0	GAD approved

## 4. Physical Progress of Work

## 4.1. Physical Progress of Work

The Progress of the Major Works carried out at the Site in the Month of November 2018 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	13	90
2	Light Vehicular Underpass	2	0	0	2
3	Vehicular Underpass	10	0	0	10
4	Minor Bridges	56	0	0	56
5	Major Bridge	5	0	0	5
6	Flyover	6	0	0	6

Table 4.2 : Strip Chart for Highway works

Stationing	Work Item	Quantity	Unit	Code	Start Station	End Station	Work Status	Material
<b>Design Challenge</b>								
138+600	Work Front Available - RH 8	1	M					
138+400	L.A. Pending							
138+400	Existing Structures							
138+400	Trees							
138+400	Rural Water supply Pipe Lines							
138+400	Clearing & Grubbing							
138+400	Embankment							
138+400	Subgrade							
138+400	CTBB							
138+400	RH 8-Service Road Work Front							
138+400	RH 8-Service Road Construction							
138+400	By-pass							
138+400	Structure Structure							
138+400	Number of Structures							
138+400	Type of Structure							
138+400	138-Service Road Construction	1	M					
138+400	138-Service Road Work Front							
138+400	138-Subgrade							
138+400	138-Embankment							
138+400	138-Clearing & Grubbing							
138+400	138-Rural Water supply Pipe Lines							
138+400	138-Existing Structures							
138+400	138-Trees							
138+400	138-L.A. Pending							
138+400	138-Work Front Available - LH 8							
138+400	138-Design Challenge							
138+400	138-Work Front Available - RH 8							
138+400	138-L.A. Pending							
138+400	138-Existing Structures							
138+400	138-Trees							
138+400	138-Rural Water supply Pipe Lines							
138+400	138-Clearing & Grubbing							
138+400	138-Embankment							
138+400	138-Subgrade							
138+400	138-CTBB							
138+400	138-RH 8-Service Road Work Front							
138+400	138-RH 8-Service Road Construction							
138+400	138-By-pass							
138+400	138-Structure Structure							
138+400	138-Number of Structures							
138+400	138-Type of Structure							

Legend	
Paday/Co-bn Field	M
Rural Water Supply Lines	M
Electrical Lines	M
Trees	M
Work in Progress	M







Table 4.2 : Gantt Chart for Highway works

Activity / Task	Start Date	End Date	Duration	Task ID	Task Category
LRS-Service Road Construction	15-01-20	15-01-20	1	SC	Construction
LRS-Service Road Work Front	15-01-20	15-01-20	1		Construction
CTBB	15-01-20	15-01-20	1		Construction
Subgrade	15-01-20	15-01-20	1		Construction
Embankment	15-01-20	15-01-20	1		Construction
Clearing & Grubbing	15-01-20	15-01-20	1		Construction
Rural Water Supply Pipe Lines	15-01-20	15-01-20	1		Construction
Elec Hoal Line	15-01-20	15-01-20	1		Construction
Trees	15-01-20	15-01-20	1		Construction
Existing Structures	15-01-20	15-01-20	1		Construction
L.A. Pending	15-01-20	15-01-20	1		Construction
Work Front Available - LRS	15-01-20	15-01-20	1		Construction
Design Change	15-01-20	15-01-20	1		Construction
Work Front Available - RRS	15-01-20	15-01-20	1		Construction
L.A. Pending	15-01-20	15-01-20	1		Construction
Existing Structures	15-01-20	15-01-20	1		Construction
Trees	15-01-20	15-01-20	1		Construction
Rural Water Supply Pipe Lines	15-01-20	15-01-20	1		Construction
Clearing & Grubbing	15-01-20	15-01-20	1		Construction
Embankment	15-01-20	15-01-20	1		Construction
Subgrade	15-01-20	15-01-20	1		Construction
CTBB	15-01-20	15-01-20	1		Construction
RHS-Service Road Work Front	15-01-20	15-01-20	1		Construction
RHS-Service Road Construction	15-01-20	15-01-20	1		Construction
Bypass	15-01-20	15-01-20	1		Construction
Status of Structures	15-01-20	15-01-20	1		Construction
Number of Structures	15-01-20	15-01-20	1		Construction
Type of Structures	15-01-20	15-01-20	1		Construction
LRS-Service Road Construction	15-01-20	15-01-20	1		Construction
LRS-Service Road Work Front	15-01-20	15-01-20	1		Construction
CTBB	15-01-20	15-01-20	1		Construction
Subgrade	15-01-20	15-01-20	1		Construction
Embankment	15-01-20	15-01-20	1		Construction
Clearing & Grubbing	15-01-20	15-01-20	1		Construction
Rural Water Supply Pipe Lines	15-01-20	15-01-20	1		Construction
Elec Hoal Line	15-01-20	15-01-20	1		Construction
Trees	15-01-20	15-01-20	1		Construction
Existing Structures	15-01-20	15-01-20	1		Construction
L.A. Pending	15-01-20	15-01-20	1		Construction
Work Front Available - LRS	15-01-20	15-01-20	1		Construction
Design Change	15-01-20	15-01-20	1		Construction
Work Front Available - RRS	15-01-20	15-01-20	1		Construction
L.A. Pending	15-01-20	15-01-20	1		Construction
Existing Structures	15-01-20	15-01-20	1		Construction
Trees	15-01-20	15-01-20	1		Construction
Rural Water Supply Pipe Lines	15-01-20	15-01-20	1		Construction
Clearing & Grubbing	15-01-20	15-01-20	1		Construction
Embankment	15-01-20	15-01-20	1		Construction
Subgrade	15-01-20	15-01-20	1		Construction
CTBB	15-01-20	15-01-20	1		Construction
RHS-Service Road Work Front	15-01-20	15-01-20	1		Construction
RHS-Service Road Construction	15-01-20	15-01-20	1		Construction
Bypass	15-01-20	15-01-20	1		Construction
Status of Structures	15-01-20	15-01-20	1		Construction
Number of Structures	15-01-20	15-01-20	1		Construction
Type of Structures	15-01-20	15-01-20	1		Construction

Table 4.2 : Strip Chart for Highway works

Work Front Description	Stationing																				Work Front Description	Stationing																				Work Front Description	Stationing																																																													
	134+000	134+050	134+100	134+150	134+200	134+250	134+300	134+350	134+400	134+450	134+500	134+550	134+600	134+650	134+700	134+750	134+800	134+850	134+900	134+950		135+000	136+000	136+050	136+100	136+150	136+200	136+250	136+300	136+350	136+400	136+450	136+500	136+550	136+600	136+650	136+700	136+750	136+800	136+850	136+900		136+950	137+000	137+000	137+050	137+100	137+150	137+200	137+250	137+300	137+350	137+400	137+450	137+500	137+550	137+600	137+650	137+700	137+750	137+800	137+850	137+900	137+950	138+000	138+000	138+050	138+100	138+150	138+200	138+250	138+300	138+350	138+400	138+450	138+500	138+550	138+600	138+650	138+700	138+750	138+800	138+850	138+900	138+950	139+000	139+000	139+050	139+100	139+150	139+200	139+250	139+300	139+350	139+400	139+450	139+500	139+550	139+600	139+650	139+700	139+750	139+800	139+850
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TABLE 4.3 - 1 STRIP CHART FOR STATUS OF BOX CULVERTS ON EXISTING ROAD

Sr. No.	As Approved by IE	Type of Structure	LHS						RHS						
			Number and Length of Spans (m)	Protection Work	Slab	Wall	Rdft	PCC	Excavation	Protection Work	Slab	Wall	Rdft	PCC	Excavation
1	116.602	EXISTING	1 x 2.0m	Slab Culvert											
2	116.837	EXISTING	1 x 2.0m	Slab Culvert											
3	116.954	EXISTING	1 x 1.6m	Slab Culvert											
4	120.068	EXISTING	1 x 3.0	Slab Culvert											
5	120.280	EXISTING	1 x 1.5	Slab Culvert											
6	120.346	EXISTING	1 x 1.5	Box Culvert											
7	120.836	EXISTING	1 x 2.0m	Box Culvert											
8	121.540	EXISTING	1 x 3.0m	Slab Culvert											
9	121.683	EXISTING	1 x 1.5m	Slab Culvert											
10	121.885	EXISTING	2 x 1.0m	Pipe Culvert											
11	122.375	EXISTING	1 x 1.0m	Pipe Culvert						1			1		
12	122.497	EXISTING	2 x 1.0m	Pipe Culvert						1			1		
13	122.678	EXISTING	2 x 1.0m	Pipe Culvert						1			1		
14	122.835	EXISTING	1 x 3.0m	Slab Culvert											
15	122.943	EXISTING	2 x 1.0m	Pipe Culvert											
16	124.118	EXISTING	1 x 1.5m	Slab Culvert											
17	124.820	EXISTING	1 x 1.0m	Pipe Culvert											
18	125.682	EXISTING	1 x 1.5m	Slab Culvert											
19	126.836	EXISTING	1 x 3.0	Slab Culvert											
20	126.987	EXISTING	1 x 2.0	Slab Culvert											
21	127.488	EXISTING	1 x 1.2	Pipe Culvert											
22	127.600	EXISTING	3 x 1.2	Pipe Culvert											
23	127.788	EXISTING	1 x 0.9m	Pipe Culvert											
24	128.267	EXISTING	1 x 0.9m	Pipe Culvert											
25	128.494	EXISTING	1 x 1.2	Pipe Culvert											
26	128.675	EXISTING	1 x 2.0	Box Culvert											
27	128.682	EXISTING	1 x 2.0	Slab Culvert											
28	128.727	EXISTING	3 x 1.2	Pipe Culvert											
29	128.904	EXISTING	1 x 1.2	Pipe Culvert											
30	129.067	EXISTING	1 x 1.2	Pipe Culvert											
31	129.246	EXISTING	1 x 0.9m	Pipe Culvert											
32	129.507	EXISTING	1 x 3.0m	Slab Culvert											
33	129.707	EXISTING	1x2.5m	Slab Culvert											
34	129.823	EXISTING	1 x 0.9m	Pipe Culvert											

Sr. No.	As Approved by IE	Type of Structure	LHS						RHS																
			Protection Work	Slab	Wall	Raft	PCC	Excavation	Protection Work	Slab	Wall	Raft	PCC	Excavation											
35	130.096	EXISTING	1 x 1.2	EXISTING	Pipe Culvert																				
36	130.307	EXISTING	1 x 1.5	EXISTING	Slab Culvert																				
37	130.357	EXISTING	1 x 1.5	EXISTING	Slab Culvert																				
38	130.680	EXISTING	2 x 1.2	EXISTING	Pipe Culvert																				
39	130.827	EXISTING	1 x 0.9m	EXISTING	Pipe Culvert																				
40	130.989	EXISTING	1 x 3.0m	EXISTING	Slab Culvert																				
41	131.146	EXISTING	1 x 0.9m	EXISTING	Pipe Culvert																				
42	131.505	EXISTING	1 x 3.0	EXISTING	Slab Culvert																				
43	131.722	EXISTING	1 x 1.2	EXISTING	Pipe Culvert																				
44	131.780	EXISTING	1 x 1.2	EXISTING	Pipe Culvert																				
45	132.300	EXISTING	1 x 3.0m	EXISTING	Slab Culvert																				
46	132.557	EXISTING	1 x 3.0m	EXISTING	Slab Culvert																				
47	132.730	EXISTING	1 x 3.0m	EXISTING	Slab Culvert																				
48	132.789	EXISTING	1 x 2.0m	EXISTING	Slab Culvert																				
49	133.115	EXISTING	1 x 5.0m	EXISTING	Slab Culvert																				
50	133.210	EXISTING	1 x 2.0m	EXISTING	Slab Culvert																				
51	133.240	EXISTING	1 x 0.9m	EXISTING	Pipe Culvert																				
52	133.635	EXISTING	1 x 2.0	EXISTING	Slab Culvert																				
53	133.734	EXISTING	1 x 2.0	EXISTING	Slab Culvert																				
54	133.935	EXISTING	1 x 1.2	EXISTING	Pipe Culvert																				
55	133.987	EXISTING	1 x 1.5	EXISTING	Slab Culvert																				
56	163.700	EXISTING	2 x 0.9m	EXISTING	Pipe Culvert																				
57	163.793	EXISTING	1 x 0.9m	EXISTING	Pipe Culvert																				
			0	0	0	0	0	2	4	5	0	5	5	2	0	0	0	0	0	0	0	0	0	0	0

TABLE 4.3 - 2 STRIP CHART FOR STATUS OF BOX CULVERTS ON BYPASS

Sr. No.	As Approved by IE	Number and Length of Spans (m)	Type of Structure	LHS					RHS											
				Protection Work	Slab	Wall	Raft	PCC	Excavation	Excavation	PCC	Raft	Wall	Slab	Protection Work					
1	119.971	BYPASS	1 x 1.5	Stab Culvert																
2	134.500	BYPASS	1 x 2.0m x 2.0m	Box Culvert																
3	138.492	BYPASS	1 x 4.0m x 2.0m	Box Culvert																
4	139.827	BYPASS	1 x 2.0m x 2.0m	Box Culvert																
5	140.010	BYPASS	1 x 2.0m x 2.0m	Box Culvert																
6	140.292	BYPASS	1 x 3.0m x 2.0m	Box Culvert																
7	140.911	BYPASS	1 x 4.0m x 2.0m	Box Culvert																
8	142.189	BYPASS	1 x 4.0m x 2.0m	Box Culvert																
9	142.776	BYPASS	1 x 4.0m x 2.0m	Box Culvert																
10	144.426	BYPASS	1 x 4.0m x 2.0m	Box Culvert																
11	146.049	BYPASS	1 x 3.0m x 2.0m	Box Culvert																
12	147.060	BYPASS	1 x 4.0m x 2.0m	Box Culvert																
13	148.650	BYPASS	1 x 4.0m x 2.0m	Box Culvert																
14	150.237	BYPASS	1 x 4.0m x 2.0m	Box Culvert																
15	150.780	BYPASS	1 x 4.0m x 2.0m	Box Culvert																
16	152.390	BYPASS	1 x 4.0m x 2.0m	Box Culvert																
17	153.781	BYPASS	1 x 2.0m x 2.0m	Box Culvert																
18	154.129	BYPASS	1 x 4.0m x 2.0m	Box Culvert																
19	154.900	BYPASS	1 x 3.0m x 2.0m	Box Culvert																
20	155.381	BYPASS	1 x 3.0m x 2.0m	Box Culvert																
21	155.601	BYPASS	1 x 4.0m x 2.0m	Box Culvert																
22	155.645	BYPASS	1 x 3.0m x 2.0m	Box Culvert																
23	155.743	BYPASS	1 x 2.0m x 2.0m	Box Culvert																
24	155.938	BYPASS	1 x 4.0m x 2.0m	Box Culvert																
25	156.984	BYPASS	1 x 3.0m x 2.0m	Box Culvert																
26	157.283	BYPASS	1 x 4.0m x 2.0m	Box Culvert																
27	157.678	BYPASS	1 x 4.0m x 2.0m	Box Culvert																
28	158.283	BYPASS	1 x 2.0m x 2.0m	Box Culvert																
29	158.531	BYPASS	1 x 2.0m x 2.0m	Box Culvert																
30	158.639	BYPASS	1 x 2.0m x 2.0m	Box Culvert																
31	158.852	BYPASS	1 x 5.0m x 2.0m	Box Culvert																
32	159.282	BYPASS	1 x 4.0m x 2.0m	Box Culvert																
33	159.361	BYPASS	1 x 3.0m x 2.0m	Box Culvert																
34	160.157	BYPASS	1 x 4.0m x 2.0m	Box Culvert																
35	160.326	BYPASS	1 x 3.0m x 2.0m	Box Culvert																
36	160.420	BYPASS	1 x 2.0m x 2.0m	Box Culvert																
37	160.572	BYPASS	1 x 2.0m x 2.0m	Box Culvert																
38	160.655	BYPASS	1 x 2.0m x 2.0m	Box Culvert																
39	160.733	BYPASS	1 x 2.0m x 2.0m	Box Culvert																
40	160.798	BYPASS	1 x 2.0m x 2.0m	Box Culvert																
41	161.288	BYPASS	1 x 4.0m x 2.0m	Box Culvert																
42	161.499	BYPASS	1 x 2.0m x 2.0m	Box Culvert																
43	161.573	BYPASS	1 x 4.0m x 2.0m	Box Culvert																
44	161.693	BYPASS	1 x 2.0m x 2.0m	Box Culvert																
45	161.757	BYPASS	1 x 2.0m x 2.0m	Box Culvert																
46	162.243	BYPASS	1 x 4.0m x 2.0m	Box Culvert																
					0	0	0	0	2	7	7	0	7	0	7	7	0	0	0	0

TABLE 4.3 - 3 STRIP CHART FOR STATUS OF MNB-BOX

Sr. No	Design Chaining As per CA	Number and Length of Spans (m)	LHS							RHS							
			Protection Work	Slab	Wall	Raft	PCC	Excavation	Excavation	PCC	Raft	Wall	Slab	Protection Work			
1	121.024	1 x 6.0m	Existing														
2	122.046	3 x 7.5m	Existing														
3	126.134	1 x 20.0m	Existing														
4	133.345	3 x 12.5m	Existing														
1	117.764	2 x 10.0m	Bypass														
2	118.217	1 x 8.0m	Bypass														
3	118.400	1 x 6.0m	Bypass														
4	118.480	1 x 6.0m	Bypass														
5	118.539	1 x 8.0m	Bypass														
6	118.919	1 x 6.0m	Bypass														
7	134.320	2 x 10.0m	Bypass														
8	134.770	1 x 10.0m	Bypass														
9	136.705	1 x 6.0m	Bypass														
10	138.555	1 x 6.0m	Bypass														
11	138.901	3 x 15.0m	Bypass														
12	139.105	2 x 15.0m	Bypass														
13	139.299	2 x 15.0m	Bypass														
14	139.453	1 x 7.0m	Bypass														
15	140.605	1 x 6.0m	Bypass														
16	140.860	1 x 8.0m	Bypass														
17	141.164	1 x 10.0m	Bypass														
18	141.445	1 x 8.0m	Bypass														
19	141.727	1 x 8.0m	Bypass														
20	142.204	1 x 8.0m	Bypass														
21	142.657	1 x 6.0m	Bypass														
22	142.897	2 x 8.0m	Bypass														
23	143.115	3 x 15.0m	Bypass														
24	143.823	2 x 8.0m	Bypass														
25	144.000	2 x 10.0m	Bypass														
26	144.880	2 x 15.0m	Bypass														
27	146.639	1 x 10.0m	Bypass														
28	147.396	1 x 8.0m	Bypass														
29	148.560	1 x 8.0m	Bypass														
30	149.940	1 x 10.0m	Bypass														
31	149.997	1 x 6.0m	Bypass														
32	152.876	2 x 10.0m	Bypass														
33	153.263	1 x 10.0m	Bypass														
34	153.528	1 x 6.0m	Bypass														
35	153.939	1 x 10.0m	Bypass														
36	154.626	1 x 6.0m	Bypass														
37	154.739	1 x 10.0m	Bypass														
38	155.049	1 x 15.0m	Bypass														
39	156.014	1 x 8.0m	Bypass														
40	156.216	1 x 6.0m	Bypass														
41	156.336	1 x 6.0m	Bypass														
42	156.707	1 x 10.0m	Bypass														
43	157.458	1 x 7.0m	Bypass														
44	157.494	1 x 8.0m	Bypass														
45	158.128	1 x 7.0m	Bypass														
46	158.972	1 x 6.0m	Bypass														

Sr. No	Design Chainage As per CA	Number and Length of Spans (m)	LHS						RHS											
			Protection Work	Slab	Wall	Raft	PCC	Excavation	Protection Work	Slab	Wall	Raft	PCC	Excavation						
47	159.076	1 x 8.0m Bypass																		
48	159.522	1 x 15.0m Bypass																		
49	159.723	1 x 6.0m Bypass																		
50	159.801	1 x 6.0m Bypass																		
51	161.208	1 x 8.0m Bypass																		
52	162.595	2 x 15.0m Bypass																		
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

**TABLE 4.3 - 4 STRIP CHART FOR STATUS OF PUP**

Str. No.	PUP at Chainage	Number and Length of Spans (m)	LHS					RHS										
			Protection Work	Slab	Wall	Raft	PCC	Excavation	Excavation	PCC	Raft	Wall	Slab	Protection Work				
1	147.917	1 x 7 m																
2	149.988	1 x 7 m																

TABLE 4.3 - 5 STRIP CHART FOR STATUS OF MJB																				
MJB at Chainage 131+963 (6x12.50) - EXISTING																				
LHS/LSR							RHS/LSR													
Crash Barrier	Slab	Girder Launc hing	Girder Castin g	Pier Cap/A bt Cap	Pier/A bt	Pile Cap	Pier Cap/A bt Cap	Girder Launc hing	Girder Castin g	Pier Cap/A bt Cap	Pier/A bt	Pile Cap	Crash Barrier	Slab	Girder Launc hing	Girder Castin g	Pier Cap/A bt Cap	Pier/A bt	Pile Cap	
A1																				
P1																				
P2																				
P3																				
P4																				
P5																				
A2																				
Total Completed	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MJB at Chainage 146+902 (4x20) - BYPASS																				
LHS/LSR							RHS/LSR													
Crash Barrier	Slab	Girder Launc hing	Girder Castin g	Pier Cap/A bt Cap	Pier/A bt	Pile Cap	Pier Cap/A bt Cap	Girder Launc hing	Girder Castin g	Pier Cap/A bt Cap	Pier/A bt	Pile Cap	Crash Barrier	Slab	Girder Launc hing	Girder Castin g	Pier Cap/A bt Cap	Pier/A bt	Pile Cap	
A1																				
P1																				
P2																				
P3																				
A2																				
Total Completed	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MJB at Chainage 148+017 (3x20) - BYPASS																				
LHS/LSR							RHS/LSR													
Crash Barrier	Slab	Girder Launc hing	Girder Castin g	Pier Cap/A bt Cap	Pier/A bt	Pile Cap	Pier Cap/A bt Cap	Girder Launc hing	Girder Castin g	Pier Cap/A bt Cap	Pier/A bt	Pile Cap	Crash Barrier	Slab	Girder Launc hing	Girder Castin g	Pier Cap/A bt Cap	Pier/A bt	Pile Cap	
A1																				
P1																				
P2																				
A2																				
Total Completed	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

MJB at Chainage 1.49+334 (3x20) - BYPASS													
LHS/LSR							RHS/LSR						
Crash Barrier	Slab	Girder Launc hing	Girder Castin g	Pier Cap/A bt Cap	Pier/A bt	Pile Cap	Crash Barrier	Slab	Girder Launc hing	Girder Castin g	Pier Cap/A bt Cap	Pier/A bt	Pile Cap
A1													
P1													
P2													
P3													
P4													
P5													
A2													
Total Completed	0	0	0	0	0	0	0	0	0	0	0	0	0
MJB at Chainage 1.56+559(6x20) - BYPASS													
LHS/LSR							RHS/LSR						
Crash Barrier	Slab	Girder Launc hing	Girder Castin g	Pier Cap/A bt Cap	Pier/A bt	Pile Cap	Crash Barrier	Slab	Girder Launc hing	Girder Castin g	Pier Cap/A bt Cap	Pier/A bt	Pile Cap
A1													
P1													
P2													
P3													
P4													
P5													
A2													
Total Completed	0	0	0	0	0	0	0	0	0	0	0	0	0
MJB at Chainage 1.61+019(6x20) - BYPASS													
LHS/LSR							RHS/LSR						
Crash Barrier	Slab	Girder Launc hing	Girder Castin g	Pier Cap/A bt Cap	Pier/A bt	Pile Cap	Crash Barrier	Slab	Girder Launc hing	Girder Castin g	Pier Cap/A bt Cap	Pier/A bt	Pile Cap
A1													
P1													
P2													
P3													
P4													
P5													
A2													
Total Completed	0	0	0	0	0	0	0	0	0	0	0	0	0



TABLE 4.3 - 6 STRIP CHART FOR STATUS OF FLYOVER

Sr.No.	FO of Chainage	Span	BYPASS/EXISTING	LHS								RHS											
				Crash Barrier	Slab	Girder Launching	Girder Castin	Piercap / Abtca	Pier/Abt	Pile Cap	Pile	Crash Barrier	Slab	Girder Launching	Girder Castin	Piercap / Abtca	Pier/Abt	Pile Cap	Pile				
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																			
				P1																			
				A2																			
6	157.100	1 x 30 m	BYPASS	A1																			
				P1																			
				A2																			
				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

TABLE 4.3 - 7 STRIP CHART FOR STATUS OF VUP

SR.NO.	VUP at Chainage	Span	LHS							RHS								
			Crash Barrier	Slab	Girder Launching	Girder Casting	Piercap /Abutment	Pier/Abutment	Pile Cap	Pile	Crash Barrier	Slab	Girder Launching	Girder Casting	Piercap /Abutment	Pier/Abutment	Pile Cap	Pile
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														
				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

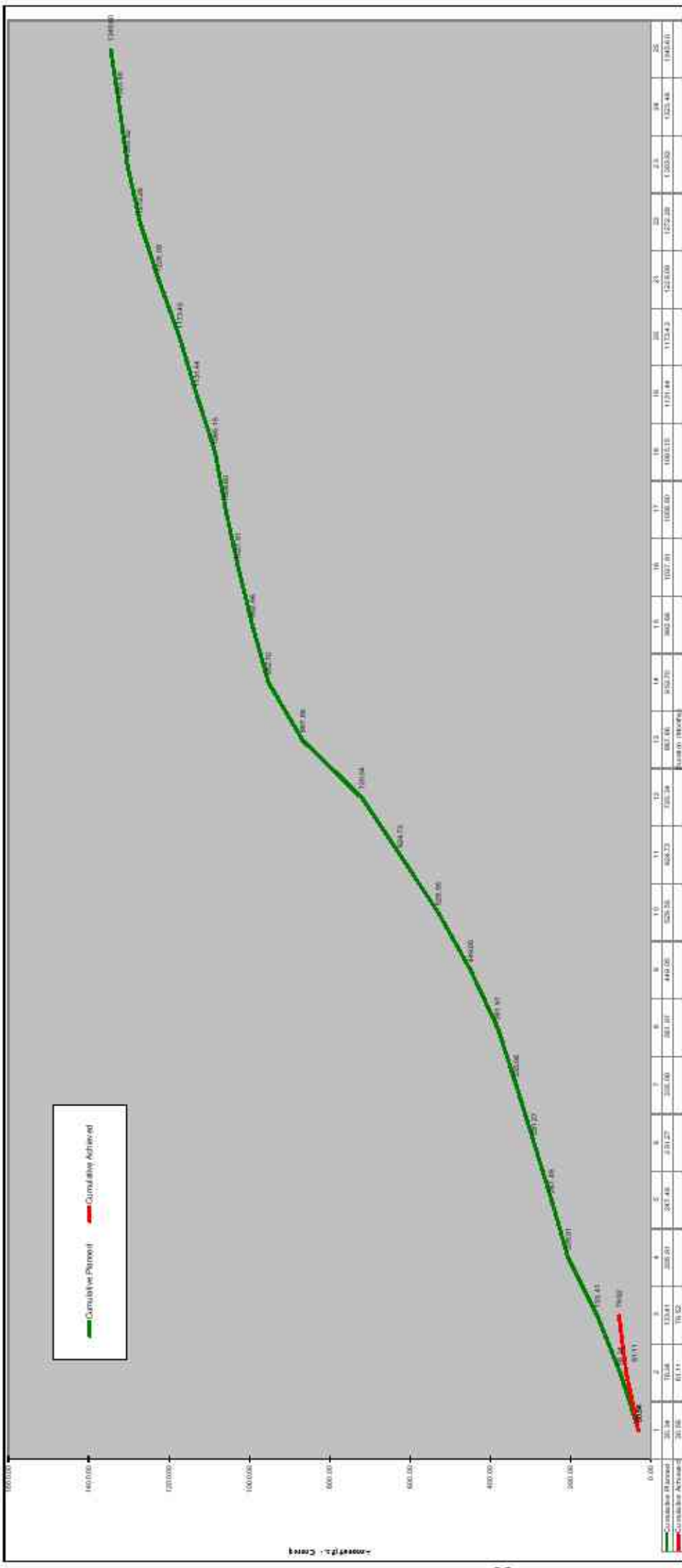
5. Financial Progress of Work

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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)



Schedule	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	
Planned/Actual	30.34	46.00	57.07	72.80	41.58	43.78	43.78	45.31	67.08	80.50	85.17	85.61	142.32	85.84	39.97	35.24	30.50	25.94	46.23	41.93	52.97	46.13	81.64	19.56	22.12	
Actual/Planned (%)	30.56	30.56	16.41																							
Cumulative Planned	30.34	76.34	133.41	205.91	247.49	291.27	335.06	381.97	439.05	609.55	624.33	720.34	867.66	952.70	992.66	1027.91	1058.80	1085.15	1131.44	1173.43	1226.09	1272.28	1303.92	1323.48	1345.60	
Cumulative Achieved	30.56	61.11	79.52																							
Planned/Actual (%)	2.1%	3.1%	3.9%	6.0%	2.8%	3.0%	3.0%	3.2%	4.6%	6.5%	6.5%	6.5%	10.1%	6.8%	2.7%	2.4%	2.1%	1.8%	3.2%	2.9%	3.6%	3.2%	2.2%	1.3%	1.5%	
Actual/Planned (%)	2.1%	2.1%	1.3%																							
Schedule Planned (%)	2.1%	5.2%	9.1%	14.1%	16.9%	19.9%	22.9%	26.1%	30.7%	36.2%	42.8%	49.3%	59.4%	65.2%	67.9%	70.4%	72.5%	74.3%	77.4%	80.3%	83.9%	87.1%	89.2%	90.6%	92.1%	
Cumulative achieved (%)	2.1%	1.2%	5.4%																							

## 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) CONCRETE WORKS</b>		
41	Compressive Testing machine(2000KN)	1
42	Flextural strength testing machine digital	1
43	Concrete Cube Moulds With Base Plate(15cm)	200
44	Concrete Cube Moulds With Base Plate(10cm)	18
45	Motor Cube Moulds (7.06cm) with Base Plate	12
46	Motor Cube Vibrating Machine(12000 Rmp)	1
47	Concrete Mixer Electrically Operated	1
48	Cube Vibrating Machine (Big)	1
49	Slump Cone Testing Apparatus	10
50	Vicat Needle Apparatus , with dash pot complete with set of needles and brass mould	2
51	Soundness Testing Apparatus	2
52	Trowels With Wodden Handles	4
53	A I V Testing Machine	1
54	Loss Angels abrasion Testing Machine	1
55	Sand Equivalant Testing Apparatus	1
56	Flakiness Index Test Guage	1
57	Elongation Index Test Guage	1
58	Density Basket	2
59	Bulk Density Cylinder (5lt)	1
60	Bulk Density Cylinder (15lt)	1
61	Bulk Density Cylinder (30lt)	1
62	Gi trays -450x600x50mm	9
63	Enamel trays -300x250x40 mm	9
64	Trays for Samples Collections	12
65	Riffle Box ( 40 MM )	1
66	Riffle Box ( 20 MM )	1
67	PYcnometer Bottels ( 1000 ml)	4
68	Specific Gravity & water 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) BITUMINOUS WORKS</b>		
74	Specific Gravity Bottels ( 50 ml )	2
75	Specific Gravity Bottels ( 100 ml )	2

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

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



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

## 6.2. Quality Control Test Summary

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

The detailed list of quality control test conducted up to the month of September - 2018 are tabulated below -

Quality Control/Quality Assurance Summary for the Month of November 2018

S. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month			Tests conducted during reporting month 11/11/2018			Test conducted upto this month			
				No. of test Conducted EPC/ Concessionaire	Passed	Failed	No. of test withheld by IE	No. of test Conducted EPC/ Concessionaire	Passed	Failed	No. of test withheld by IE	No. of test Conducted EPC/ Concessionaire	Passed
<b>1.0 Tests on OGI</b>													
1.1	Grain size analysis	IS:2720 (Part4)	1 test / 25.0 meters	135	135	0	44	0	0	0	0	0	44
1.2	Atterberg Limits	IS:2720 (Part5)	1 test / 25.0 meters	135	135	0	44	0	0	0	0	0	44
1.3	Proctor	IS:2720 (Part8)	1 test / 25.0 meters	135	135	0	44	0	0	0	0	0	44
1.4	Free Swell index	IS:2720 (Part40)	1 test / 25.0 meters	135	135	0	44	0	0	0	0	0	44
1.5	California bearing ratio	IS:2720 (Part16)	As required	0	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>	148	148	0	11	0	27	0	15	175	0
2.2	Atterberg Limits	IS:2720 (Part5)	1 test /1500 m <sup>3</sup>	148	148	0	13	0	27	0	15	175	0
2.3	Proctor	IS:2720 (Part8)	1 test /1500 m <sup>3</sup>	148	148	0	14	0	27	0	15	175	0
2.4	Free Swell index	IS:2720 (Part40)	1 test /1500 m <sup>3</sup>	148	148	0	15	0	27	0	15	175	0
2.5	California bearing ratio	IS:2720 (Part16)	1 test / 3000 m <sup>3</sup>	0	0	0	0	0	0	0	0	0	0
<b>3.0 Curing 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	0
3.2	Atterberg Limits	IS:2720 (Part5)	1 test /1500 m <sup>3</sup>	0	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	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	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	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	0	0	0	0	1920	0
4.2	EMB field density	IS:2720 (Part28)	1 test /3000 sqm	1196	1190	6	376	0	0	0	0	1196	6
4.3	SG field density	IS:2720 (Part28)	1 test / 2000 sqm	0	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	0
<b>5.0 Filter Media &amp; Back-filling MoRT&amp;H 2500</b>													
5.1	Gradation		As required	0	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	0
5.3	RE Wall field density		As required	0	0	0	0	0	0	0	0	0	0
<b>6.0 Safe Bearing capacity of soil</b>													
6.1	Free Swell index	IS:2720 (Part40)	As required	32	32	0	6	0	9	0	2	41	0
6.2	Grain size analysis	IS:2720 (Part4)	As required	32	32	0	6	0	9	0	2	41	0
6.3	Atterberg limits	IS:2720 (Part5)	As required	32	32	0	6	0	9	0	2	41	0
6.4	Proctor	IS:2720 (Part8)	As required	32	32	0	6	0	9	0	2	41	0
6.5	Direct shear Test	IS:2720 (Part13)	As required	32	32	0	6	0	9	0	2	41	0
6.6	Bearing Capacity / Plate Load Test	IS:6403 / IS 1888	As required	32	0	32	6	0	11	2	9	43	2

S. No.	Description	IS Specification Clause	Frequency of Tests	Tests conducted upto Previous month			Tests conducted during reporting month 11 Oct-2018			Test conducted upto this month		
				No. of test Conducted EPC/ Concessionaire	Passed	Failed	No. of test addressed by IE	No. of test Conducted EPC/ Concessionaire	Passed	Failed	No. of test Conducted EPC/ Concessionaire	Passed
<b>7.0 CTBS 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
7.2	Atterberg Limits	IS:2720 (Part5)	1 test/400m <sup>3</sup>	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
7.4	CBR Test or unconfined compressive strength test	IS:2720 (Part16)	As required	0	0	0	0	0	0	0	0	0
7.5	Quality of cement		Minimum 1 test/5 tons	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
7.7	Field Density	IS:2720 (Part28)	1 set of 2 Test per 5005sqm	0	0	0	0	0	0	0	0	0
<b>8.0 GSB Mix Design/Site Frequency MoRT&amp;H 401</b>												
8.1	Gradation	Table 400-1	1 test/400m <sup>3</sup>	14	14	0	14	0	0	0	14	0
8.2	Atterberg Limits	IS:2720 (Part5)	1 test/400 m <sup>3</sup>	14	14	0	14	0	0	0	14	0
8.3	Proctor	IS:2720 (Part8)	As required	3	3	0	3	0	0	0	3	0
8.4	CBR Test	IS:2720 (Part16)	As required	1	1	0	1	0	0	0	1	0
8.5	Aggregate Impact value	IS:2386 Part-4	As required	1	1	0	1	0	0	0	1	0
8.6	Field Density	IS:2720 (Part28)	1 Test per 1000Sq.m.	285	285	0	285	0	0	0	285	0
<b>9.0 WMM Mix Design/Site Frequency MoRT&amp;H 406</b>												
9.1	Combined Gradation	Table 400-3	1 test/200m <sup>3</sup>	0	0	0	0	0	0	0	0	0
9.2	Aggregate Impact Value	IS:2386 Part-4	1 test/ 1000 m <sup>2</sup>	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
9.4	Atterberg Limits	IS:2720 (Part5)	1 test/200m <sup>3</sup>	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
9.6	Proctor	IS:2720 (Part8)	As required	0	0	0	0	0	0	0	0	0
9.7	Field Density	IS:2720 (Part28)	1 set Test per 1000Sq.m / 3 pits	0	0	0	0	0	0	0	0	0
<b>10.0 Prime Coat</b>												
10.1	Rate of Spread of Binder		Three tests per day	0	0	0	0	0	0	0	0	0
11.0	Tack Coat											
11.1	Rate of Spread of Binder		Three tests per day	0	0	0	0	0	0	0	0	0
<b>12.0 Fine Aggregate MoRT&amp;H 1008</b>												
12.1	Grade / Sieve analysis	IS:2386 (Part 1)	1 test per day	21	21	0	18	3	3	0	24	0
12.2	Specific gravity & Water absorption	IS:2386 (Part2)	As required	2	2	0	2	0	0	0	2	0
12.3	Fineness Modulus	MoRT&H Sec. 1008 6383	1 test per day	21	21	0	18	3	3	0	24	0
12.4	Alkali aggregate reactivity test	IS:2386 (Part-7) IS : 456	1 test per source	1	1	0	0	0	0	0	1	0
12.5	Deleterious material/silt	IS:2386 (Part2)	1 test per source	1	1	0	0	0	0	0	1	0

S. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month			Tests conducted during reporting month			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 withheld by IE	
<b>13.0 Coarse Aggregate MoRT&amp;H 1007</b>														
13.1	Gradation	IS:2386 (Part2)	1 test per day	38	38	0	30	3	0	3	41	41	0	33
13.2	Specific gravity & Water absorption	IS:2386 (Part3)	As required	4	4	0	4	0	0	0	4	4	0	4
13.3	Aggregate Impact Value	IS:2386 (Part4)	1 test / each source monthly	15	15	0	13	1	0	1	16	16	0	14
13.4	Flakiness index	IS:2386 (Part1)	1 test / each source monthly	15	15	0	13	1	0	1	16	16	0	14
13.5	Soundness	IS:2386 (Part5)	As required	1	1	0	1	0	0	0	1	1	0	1
13.6	Alkali aggregate reactivity test	IS:2386 (Part7) IS: 456	1 test per source	1	1	0	1	0	0	0	1	1	0	1
13.7	Detritious constituents	IS:2386 (Part2)	1 test per source	1	1	0	1	0	0	0	1	1	0	1
13.8	Petrographic Examination	IS:2386 (Part8)	1 test per source	1	1	0	1	0	0	0	1	1	0	1
<b>14.0 Cement MoRT&amp;H 1006</b>														
14.1	Chemical test / Physical test	IS:1031-1032	1 test per source	4	4	0	4	0	0	0	4	4	0	4
14.2	Fineness	IS:1031 (Part1)	Every batch	7	7	0	7	3	0	3	10	10	0	10
14.3	Normal Consistency	IS:1031 (Part4)	Every batch	7	7	0	7	3	0	3	10	10	0	10
14.4	Initial/Final setting time	IS:1031 (Part5)	Every batch	7	7	0	7	3	0	3	10	10	0	10
14.5	Soundness of Cement	IS:1031 (Part3)	Every batch	7	7	0	7	3	0	3	10	10	0	10
14.6	Compressive Strength - set	IS:1031 (Part6)		7	7	0	7	3	0	3	10	10	0	10
	3 days		1 test per Lot	8	8	0	8	4	0	4	12	12	0	12
	7 days		1 test per Lot	8	8	0	8	4	0	4	12	12	0	11
	28 days		1 test per Lot	4	4	0	4	7	0	7	11	11	0	11
<b>15.0 Concrete-cube MoRT&amp;H 1700</b>														
<b>Compressive Strength site Cubes &amp; Mix Design Cubes</b>														
M15 PCC														
15.1	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700	62	62	0	51	6	0	3	68	68	0	54
	28Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700	35	35	0	24	32	0	27	67	67	0	51
M20 PCC														
15.2	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700	15	15	0	15	0	0	0	15	15	0	15
	28Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700	9	9	0	9	9	0	9	18	18	0	18

S. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month			Tests conducted during reporting month 11/01/2018			Test conducted upto this month					
				No. of test Conducted EPC/ Concessionaire	Passed	Failed	No. of test withpassed by IE	No. of test Conducted EPC/ Concessionaire	Passed	Failed	No. of test withpassed by IE	No. of test Conducted EPC/ Concessionaire	Passed	Failed	No. of test withpassed by IE
M25 RCC															
15.3	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700	15	15	0	15	0	0	0	0	15	15	0	15
	28Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700	0	0	0	0	0	15	15	0	15	15	0	15
M30 RCC															
	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700	52	52	0	51	9	9	9	0	61	61	0	58
	28Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700	9	9	0	9	21	21	0	20	30	30	0	29
M35 RCC															
15.5	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700	9	9	0	9	3	3	0	3	12	12	0	12
	28Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700	9	9	0	9	15	15	0	15	24	24	0	24
M35 RCC PLUNG															
15.6	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700	55	55	0	41	0	0	0	0	55	55	0	41
	28Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700	9	9	0	9	10	10	0	10	19	19	0	19
M35 RE BLOCK															
15.7	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700	43	43	0	33	21	21	0	9	64	64	0	42
	28Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700	9	9	0	9	38	38	0	9	47	47	0	18
M40 RCC															
15.8	7Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700	15	15	0	15	9	9	0	9	24	24	0	24
	28Days Compressive Strength	MORT&H Sec. 1700	MORT&H Sec. 1700	0	0	0	0	9	9	0	9	9	9	0	9
16.0 Water.															
16.1	Chemical test	IS 2386	1 test per source	3	3	0	3	0	0	0	0	3	3	0	3
17.0 Admixture															
17.1	Physical Properties	IS 9103	1 test per Lot	2	2	0	2	0	0	0	0	2	2	0	2
17.2	Chemical Test	IS 9103	1 test per source	2	2	0	2	0	0	0	0	2	2	0	2
18.0 Steel															
17.1	8 mm Dia	IS 1786	Physical Properties & Chemical Test 2 test per Lot	1	1	0	1	2	2	0	2	3	3	0	3
17.2	10 mm Dia	IS 1786		2	2	0	2	3	3	0	3	5	5	0	5
17.3	12 mm Dia	IS 1786		1	1	0	1	3	3	0	3	4	4	0	4
17.4	16 mm Dia	IS 1786		1	1	0	1	2	2	0	2	3	3	0	3
17.5	20 mm Dia	IS 1786		2	2	0	2	3	3	0	3	5	5	0	5
17.6	25 mm Dia	IS 1786		1	1	0	1	2	2	0	2	3	3	0	3
17.7	32 mm Dia	IS 1786		0	0	0	0	1	1	0	1	1	1	0	2

## 7. Weather Report

DATE	Temperature (°C)		Rainfall in mm	Humidity in %		Remarks
	Min	Max		Min	Max	
01-11-2018	31.1	25.7	90.0	87.0	69.0	Rainy
02-11-2018	30.4	24.2	45.0	90.0	70.0	Rainy
03-11-2018	36.2	25.5	2.0	91.0	53.0	Sunny
04-11-2018	37.2	25.8	0	89.0	50.0	Sunny
05-11-2018	37.0	25.7	0	87.0	49.0	Sunny
06-11-2018	37.2	25.8	0	88.0	49.0	Sunny
07-11-2018	37.5	25.7	0	85.0	50.0	Sunny
08-11-2018	38.8	25.1	0	84.0	47.0	Sunny
09-11-2018	37.6	25.3	0	88.0	51.0	Sunny
10-11-2018	38.1	25.6	0	89.0	49.0	Sunny
11-11-2018	35.5	24.8	0	84.0	50.0	Sunny
12-11-2018	36.0	24.5	0	82.0	42.0	Sunny
13-11-2018	37.1	24.5	0	82.0	40.0	Sunny
14-11-2018	35.9	24.2	0	78.0	41.0	Sunny
15-11-2018	33.1	25.6	150.0	88.0	54.0	Rainy
16-11-2018	30.2	24.3	0	92.0	67.0	Sunny
17-11-2018	34.4	25.8	0	86.0	54.0	Sunny
18-11-2018	35.2	25.8	0	86.0	51.0	Sunny
19-11-2018	35.9	25.8	18.5	83.0	54.0	Rainy
20-11-2018	29.6	23.6	37.0	87.0	75.0	Rainy
21-11-2018	30.9	25.3	5.0	84.0	65.0	Cloudy
22-11-2018	32.7	26.1	6.0	88.5	62.0	Cloudy
23-11-2018	30.9	24.9	180.0	94.0	77.0	Rainy
24-11-2018	32.8	24.4	0	96.0	61.0	Sunny
25-11-2018	34.9	23.3	0	96.0	57.0	Sunny
26-11-2018	32.5	21.8	0	87.0	50.0	Sunny
27-11-2018	33.2	22.5	0	80.0	49.0	Sunny
28-11-2018	32.9	25.0	84	88	52	Rainy
29-11-2018	28.8	25.1	53	90	76	Rainy
30-11-2018	36.3	27.5	0	77	50	Sunny

- Various issues related to environment and safety, such as traffic management, safety signages, 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.



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.
2. Payment of Supervision charges for TNEB for relocation of Electrical lines in Thanjavur District.
3. Relocation of High Tension transmission tower lines.
4. NOC from PWD/WRO for commencement of construction activities for Irrigation Structures.
5. Permission from Local Authorities for procurement of Borrow Earth from Irrigation Tanks.
6. Rerouting of existing canal between Km:124+150 to 124+750 Km:117+760 to 118+480 and 146+600 to 148+100
7. Removal/relocation of existing irrigation sluice and regulator in the locations of Km:150+800, Km:152+900.
8. Additional land acquisition for Toll plaza location, Bus bays. Turning radius at Major junctions.



Table 10.1. Details of Important Events			
Sl. No	Date of Events	Description of Events	Remarks
1)	15-11-2018	District Collector meeting for taking Precautionary measures for GAJA cyclone	
2)	17-11-2018	GAJA CYCLONE	
3)	26-11-2018	Project Director-NHAI Site Inspection	

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 - 04 - ORGANIZATION CHART - EPC TEAM

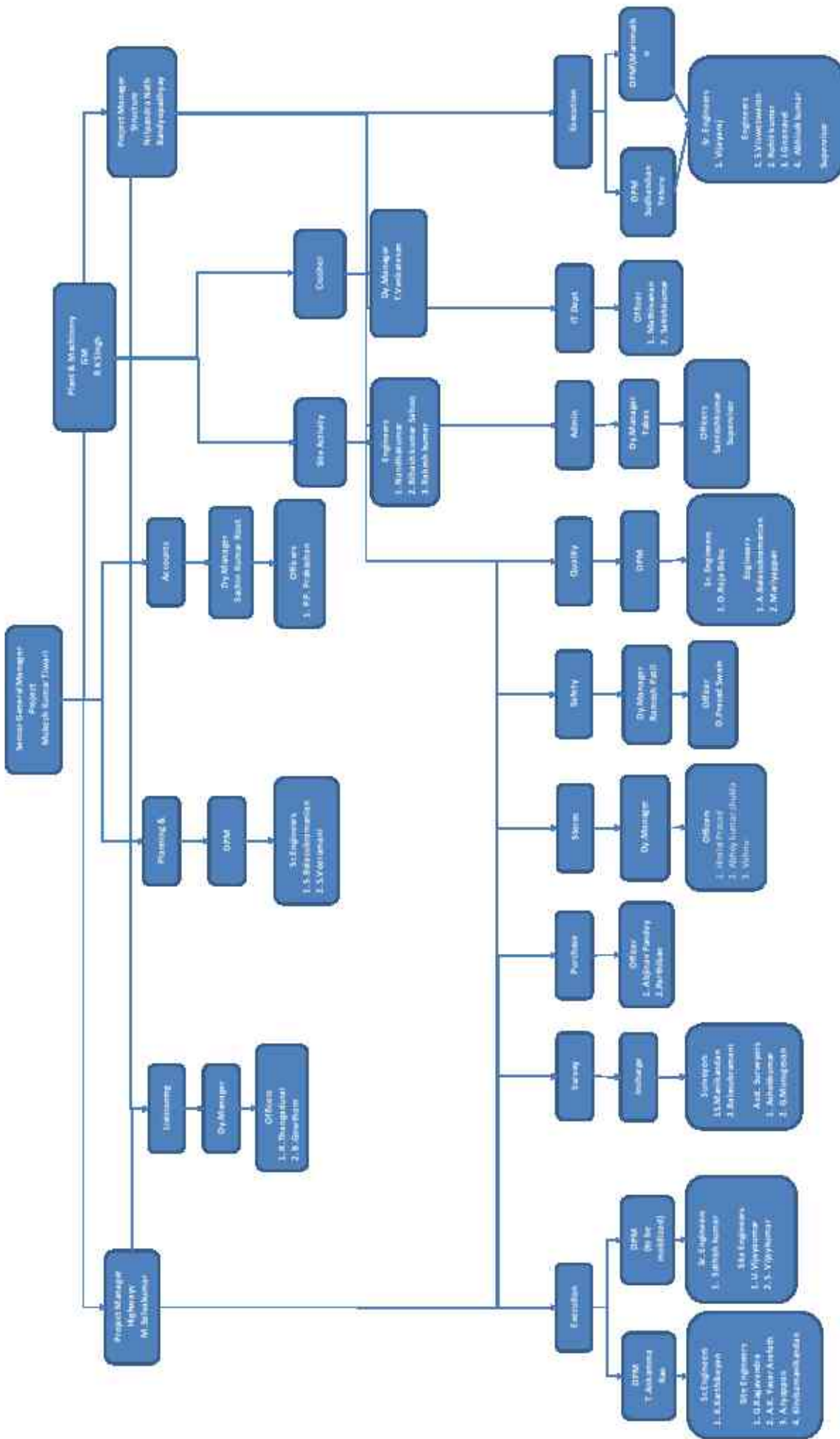
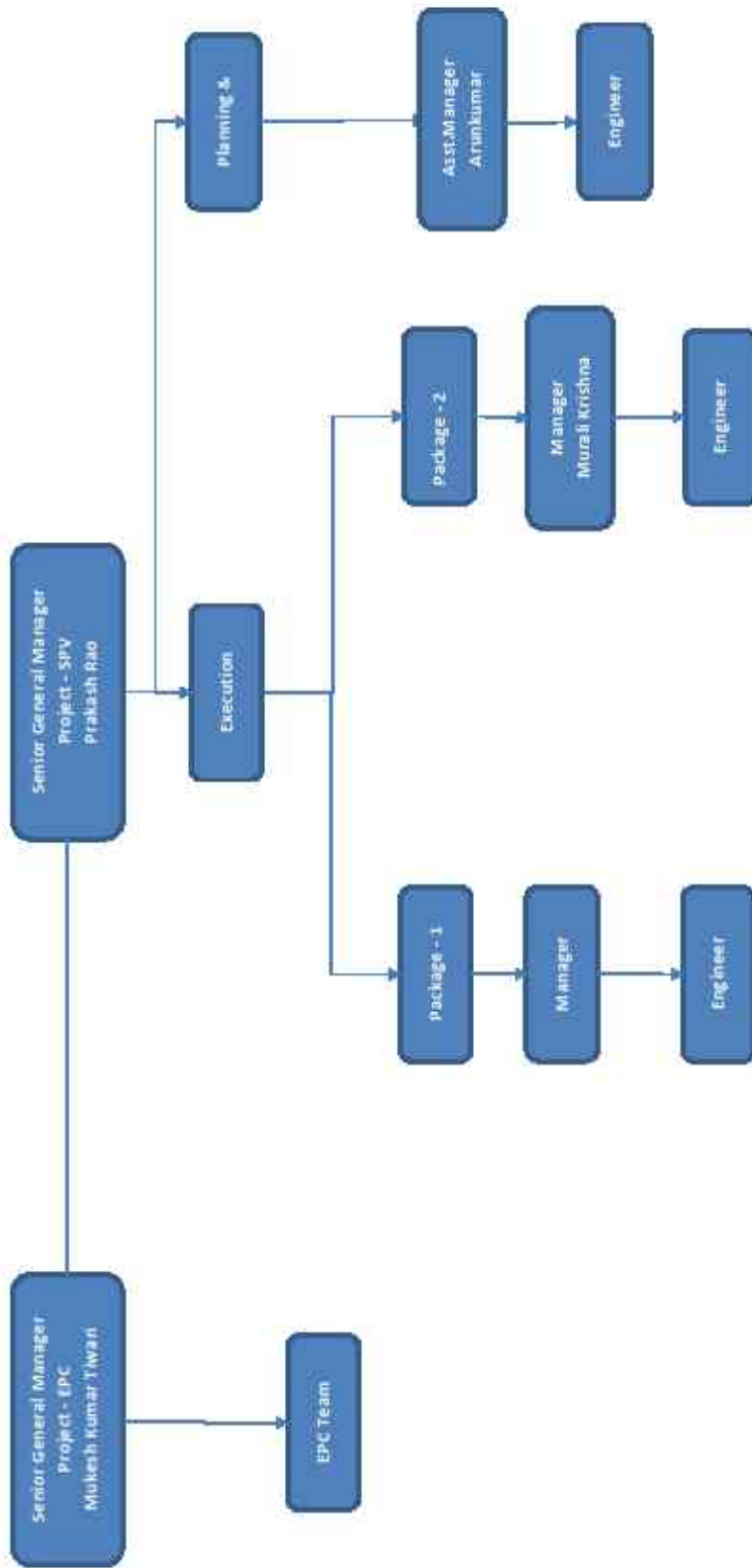


Figure - 05 - ORGANAIZATION CHART - SPV TEAM



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

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

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	03.11.2018	PCTHPL/CTP/NHAI/2018/146	Submission of Design & drawings of Proposed ROB 134+555.	
2	14.11.2018	PCTHPL/CTP/NHAI/2018/150	Preparedness for Red Alert due to cyclone GAJA	
3	13.11.2018	PCTHPL/HO/NHAI/058/2018	Regarding Additional land requirement for Toll Plaza, Rest Area, Major Junctions, Bus Bays for the work of - "Four laning of Cholapuram-Thanjavur section of NH-45 C in the state of Tamil Nadu project on HAM	
4	22.11.2018	PCTHPL/CTP/NHAI/2018/164	RA Bill No 1 - Shifting of Water Supply Utilities as per Concession Agreement	



TABLE 14.2 - CORRESPONDANCE - IIRAITO CONCESSIONNAIRE

Site	Date	Lettre No	Subject	Remarks
1	15.11.2018	IHA/PIU/Thonj/1102 a/12/2018/2131	Shifting of Electrical Utilities like HT LT Lines & Structures - Work Order issued	
2	19.11.2018	IHA/PIU/Thonj/1102 a/12/2018/2173	Independent Consultancy Services for the months of October/2018-50% Claim	

TABLE 14.3 - CORRESPONDANCE - CONCESSIONAIRE TO II DEPEI IDEI IT EIGIIIEEP

S.No	Date	Letter No	Submission of Third Party Test Reports	Remarks
1	13.11.2018	PCTHPL/CTP/IE/2018/147	Procurement of Elastomeric Bearing from M/s Sanfield (India) Ltd	
2	13.11.2018	PCTHPL/CTP/IE/2018/148	Compliance Report-Work Programme	
3	13.11.2018	PCTHPL/CTP/IE/2018/149	Submission of Monthly Progress Report for the Month of Oct 2018	
4	17.11.2018	PCTHPL/CTP/IE/2018/152	Submission of credential of M/s Waretex System Pvt. Ltd.	
5	17.11.2018	PCTHPL/CTP/IE/2018/153	Authorization for test check and signing of RFPs & Test reports	
6	19.11.2018	PCTHPL/CTP/IE/2018/154	Submission of Third Party Test Reports	
7	19.11.2018	PCTHPL/CTP/IE/2018/155	Submission of Calibration report of QA/QC lab equipment's	
8	19.11.2018	PCTHPL/CTP/IE/2018/156	Approval of Quality Assurance Plan (QAP)	
9	19.11.2018	PCTHPL/CTP/IE/2018/157	Submission of Credential of M/s. SMS labs Services Pvt. Ltd	
10	21.11.2018	PCTHPL/CTP/IE/2018/158	Procurement of Elastomeric Bearing from M/s Ammenji Rubber Pvt Ltd	
11	21.11.2018	PCTHPL/CTP/IE/2018/159	Procurement of Elastomeric Bearing from M/s Kantaflex (India) Private limited	
12	21.11.2018	PCTHPL/CTP/IE/2018/160	Material Consumption register	
13	21.11.2018	PCTHPL/CTP/IE/2018/161	Repair and calibration of Compression testing machine (CTM)	
14	21.11.2018	PCTHPL/CTP/IE/2018/162	Submission of Working bench Marks	
15	21.11.2018	PCTHPL/CTP/IE/2018/163	Submission of SBC test reports	
16	23.11.2018	PCTHPL/CTP/IE/2018/166	Submission of Revised Structure Design and Drawing of 18 Nos. of Box Culverts (R1) for the above cited Highway Project	
17	24.11.2018	PCTHPL/CTP/IE/2018/167	Construction Activities hampered due to unprecedented monsoon rainfall	
18	26.11.2018	PCTHPL/CTP/IE/2018/168	Submission of Revised Drawings of Minor bridges (R1)	
19	26.11.2018	PCTHPL/CTP/IE/2018/169	Damages for the occurrence of unprecedented Cyclonic storm GAJA	
20	26.11.2018	PCTHPL/CTP/IE/2018/170	Submission of credential of M/s Anu lab - for conducting the third party testing	
21	30.11.2018	PCTHPL/CTP/IE/2018/173	Submission of 47 Nos of Box Culverts & 44 Nos of Minor Bridges	
22	30.11.2018	PCTHPL/CTP/IE/2018/174	Submission of Third Party Test Reports	
23	30.11.2018	PCTHPL/CTP/IE/2018/175	Repair & Calibration of Compression testing machine	
24	30.11.2018	PCTHPL/CTP/IE/2018/176	Procurement of Micro Silica from Elkem South Asia Limited	
25	30.11.2018	PCTHPL/CTP/IE/2018/177	Procurement of Reinforcement Steel	
26	30.11.2018	PCTHPL/CTP/IE/2018/178	Procurement of Spherical bearing from m/s Sanfield India Limited	
27	30.11.2018	PCTHPL/CTP/IE/2018/179	Procurement of POT-PTFE from m/s Sanfield India Limited	

TABLE 14.4 - CORRESPONDANCE - INDEPENDENT ENGINEER TO CONCESSIONAIRE / IHAJ

S.No	Date	Letter No.	Subject	Remarks
1	07.11.2018	THEME/IHAJ/CHO-TIUR/CON/1118/101	Unauthorized access to Fuel Retail Outlets and Service Stations along National Highways in the State of Tamil Nadu- Violation of Ministry's Guidelines Regularization	
2	08.11.2018	THEME/IHAJ/CHO-TIUR/CON/1118/102	Representation from Public - action requested	
3	12.11.2018	THEME/IHAJ/CHO-TIUR/CON/1118/103	Tree Branches Very Low in Height - Request for Removal	
4	12.11.2018	THEME/IHAJ/CHO-TIUR/CON/1118/104	Submission of Monthly Progress Report for the Month of October-2018	
5	12.11.2018	THEME/IHAJ/CHO-TIUR/CON/1118/105	Procurement of POT-PTFE Bearing from M/s. BBR (India) Pvt. Ltd.	
6	13.11.2018	THEME/IHAJ/CHO-TIUR/CON/1118/107	Reminder for Submission of Third Party Test Reports	
7	13.11.2018	THEME/IHAJ/CHO-TIUR/CON/1118/108	OGL & SBC Test Reports	
8	13.11.2018	THEME/IHAJ/CHO-TIUR/CON/1118/109	Repair and Calibration of Compression Testing Machine (CTM)	
9	13.11.2018	THEME/IHAJ/CHO-TIUR/CON/1118/110	Material Stock Consumption Register	
10	13.11.2018	THEME/IHAJ/CHO-TIUR/CON/1118/111	Source Approval of Steel and RO Instructions	
11	15.11.2018	THEME/IHAJ/CHO-TIUR/CON/1118/113	Compliance report required for Inspection Report Communicated by IHAJ- Inspection made by GM (T) & Regional Officer Madurai Region on 24.10.2018 & 25.10.2018	

## 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.	Utility -200mm Pipes unloaded at Site			



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






Sl. No	Description	Location	Side	Remarks
9.	Dismantling of Shops	130+600	RHS	



Sl. No	Description	Location	Side	Remarks
10.	Mosque Dismantling in Progress	130+200		





Sl. No	Description	Location	Side	Remarks
11.	Box Culvert PCC In Progress	130+318		



Sl. No	Description	Location	Side	Remarks
12.	Box Culvert PCC In Progress	130+368		



Sl. No	Description	Location	Side	Remarks
13.	Box Culvert PCC In Progress	131+159		
				
Sl. No	Description	Location	Side	Remarks
14.	Maintenance of Existing Road			
				

Sl. No	Description	Location	Side	Remarks
13.	GAJA Cyclone Contribution for affected victims			
				