



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.

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MONTHLY PROGRESS REPORT
OCTOBER 2018

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Executive Summary

The old National Highway (NH -36) runs through the state of Tamil Nadu. The project road is part of the 168 km long Vikravandi to Thanjavur section of the existing National Highway 36 (NH-36). Recently MORTH has amended the number and Length of the National Highways. The old NH 12 in the state of Tamil Nadu has become the part of the New National Highway 45C. It links Chennai with Thanjavur and is 418 km long.

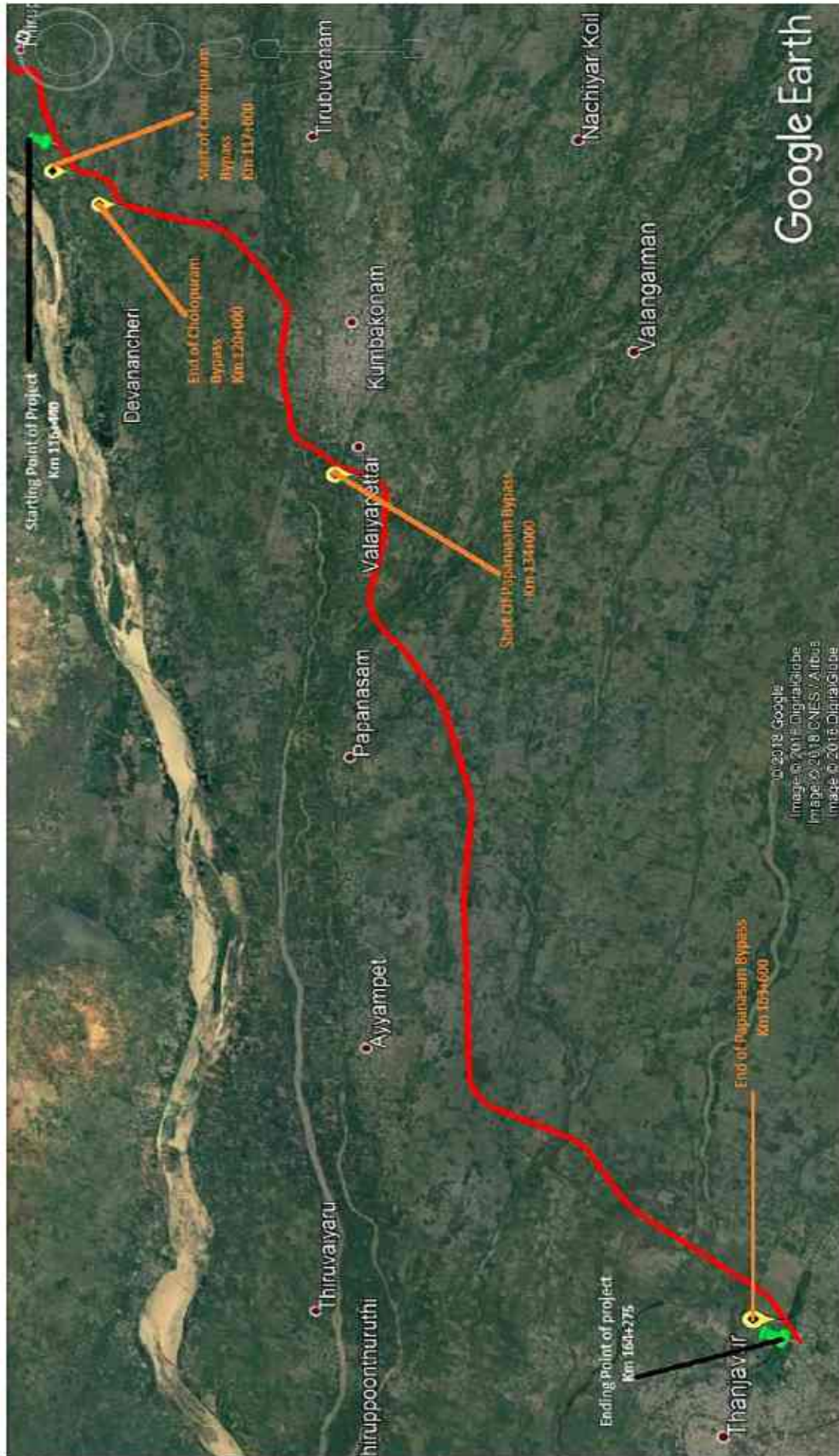
The Cholopuram to Thanjavur section of NH-45C is an important link to connect Metropolitan city of Chennai to religious and tourist places of Kumbakonam, Thanjavur, Tiruchirapalli. The project is also expected to provide improved connectivity to other religious places & other major cities like Thanjavur,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

Project Synopsis

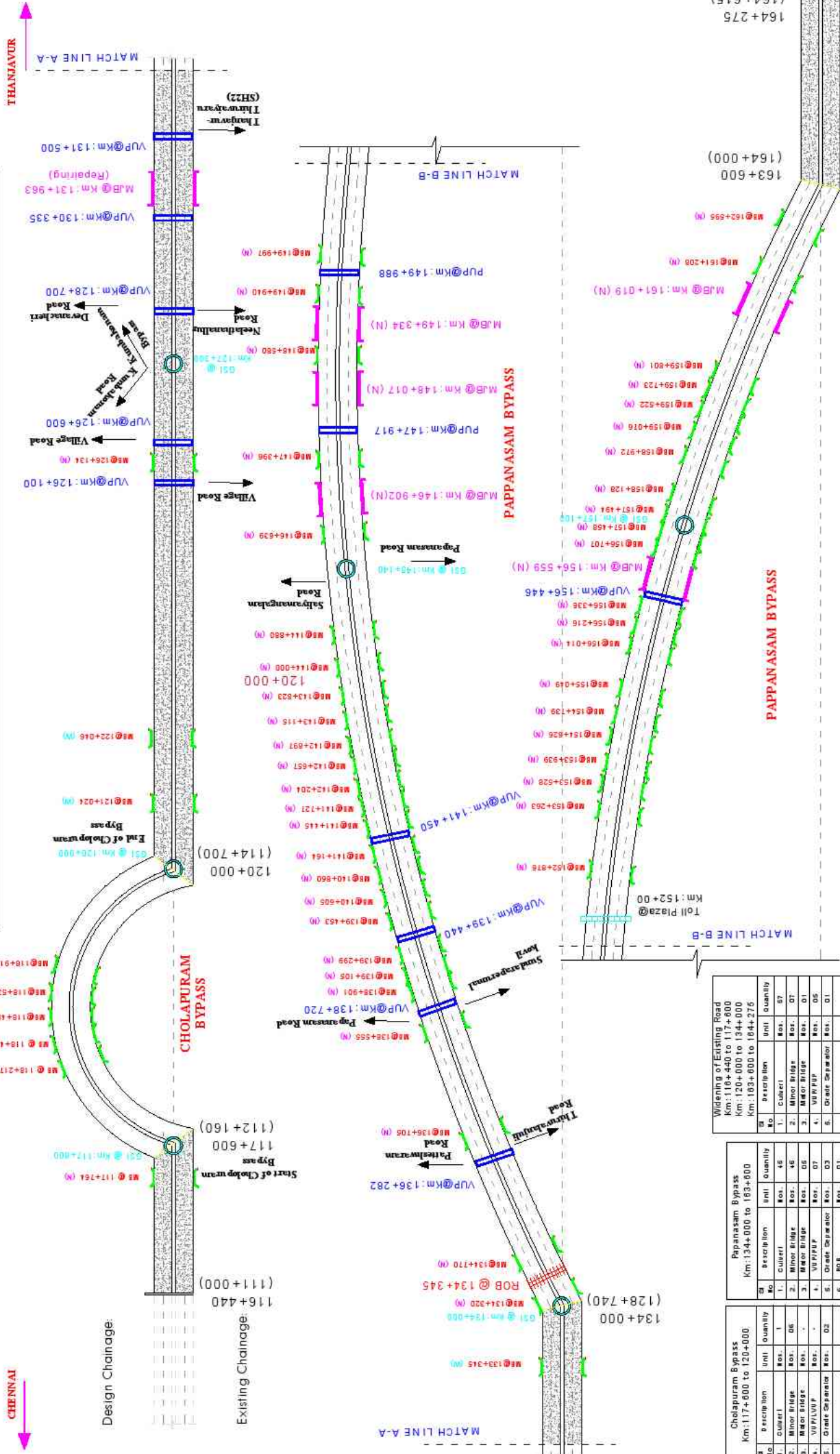
The Government of India had entrusted to the National Highway Authority of India (NHAI) the development, maintenance and management of National Highway No. 45C including the section from km 116.440 to Km 164.275 (approx. 47.835 Km). The Authority had resolved to augment for four Lining of Cholopuram - 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/VVP	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/VVP	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/VVP	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/VVP	Box	12	ROB
9.	Grade Separator Structure	Box	06	ROB
10.	ROB	Box	01	ROB

Sl. No.	Description	Unit	Quantity	Scope
11.	Minor Intersection	Box	22	ROB
12.	Major Intersection	Box	20	ROB
13.	Box Box and Shelter	Box	06	ROB
14.	Toll Plaza	Box	01	ROB

LEGEND:

- Major Bridge(MJB)
- Minor Bridge(MB)
- Grade Separated structure
- ROB
- Vehicle Under Pass (LVUP/VVP)
- 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 th Street, R.S College (Post), Thanjavur-613005.
EPC Contractor	M/s. Patel Infrastructure Limited, Patel House, Beside Prakruti Resorts, Chanani Road,Vadodara Gujarat- 391740, Tel: +91-265 277 6678 Fax: +91-265 277 7878
Design Consultant	CTL Global Services Pvt. Ltd. 101, IST Floor, Krishna Chambers, HAL, Airport Road, Bangalore-560017
Senior Lender	Punjab National Bank, Large Corporate Branch, Neelkamal Building, Opp. Sales India, Ashram Road, Ahmedabad - 380009
Lenders Independent Engineers	Sharul Techno-Financial Consultancy Services Pvt. Ltd., 403, Aspire Tower 5, Amanora Park Town, Hadapsar, Pune - 411028.
Length of Road (Design Length)	47.835 Kms.
Total Bid Cost	Rs. 1345.60 Crores (as per concession agreement)
Date of Concession Agreement	October 12, 2017
Concession Period	17 Years (Construction Period 2 Years from Appointed date, Operation period 15 years from COD)
Appointed Date	06.09.2018
Construction Period	02 years from Appointed date
Completion Date	05.09.2020
Maintenance Period	15 years from COD

1.2. Salient Project Features

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

4 - Lane Divided Carriage Way	47.835 Kms
Service Road/ Slip Road	27.100 Kms
Major Bridge	06 Nos.
Minor Bridge	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 th day from the Appointed Date.	08 th April 2019
Mile Stone-II	Concessionaire shall expended not less than 35% of the Total capital cost and shall have commenced construction of the project and achieved 35% of physical progress on 334 th day from the Appointed Date	06 th August 2019
Mile Stone-III	Concessionaire shall expended not less than 75 % of the Total capital cost and shall have commenced construction of the project and achieved 75% of physical progress on 584 th day from the Appointed Date	12 nd April 2020
Scheduled Completion	Concessionaire shall have completed Project on 730 th day from the Appointed Date	05 th 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 & 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 to be commenced, 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. 10 Estimates approved by Competent Authority and Balance 5 estimates are under the process of obtaining sanction from the Competent Authority. 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	15.915	
iv)	Trees	Km	15.310	
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 Obstacles Under Hindrance								
Sr No.	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Type	Remarks
			From	To				
1	30	Houses 0 nod, Electrical Pole & Trees	116+110	116+140	Houses 0 nod, Mango farm, Coconut farm & Electrical Pole 0 nod	30	Houses	
2	30	Houses 0 nod, Electrical Pole 0 nod & Trees	116+140	116+170	Bus shelter & Electrical Transformer	30	Bus Shelter	
3	20	Houses 0 nod, Electrical Pole & line crossing & Trees	116+170	116+190	Houses 0 nod & Coconut Trees 0 nod	20	Houses	
4	60	Houses 0 nod, Culvert & Trees	116+170	116+230	Trees	60	Houses	
5	20	Electrical Pole & Trees	116+180	116+200	Canal crossing, culvert & Trees	20	Electrical Utility	
6	50	Houses 0 nod, Electrical Pole & Trees	116+200	116+250	Canal crossing & Trees	50	Electrical Utility	
7	50	Houses 0 nod, Electrical Pole & Trees	116+250	116+300	Bore Well, Pump set, Electrical Pole & Trees	50	Bore well & Pump set	
8	50	Trees	116+300	116+350	Houses 0 nod, Electrical Pole & Trees	50	Houses	
9	50	Houses 0 nod, Electrical Pole & Trees	116+350	116+400	Houses 0 nod & Coconut Trees	50	Houses	
10	50	Vinegar Temple, Houses 0 nod & Electrical Pole 0 nod	116+400	116+450	Houses 0 nod & Coconut Trees	50	Temple	
11	50	Houses 0 nod, Electrical Pole & Trees	116+450	116+500	Houses 0 nod & Coconut Trees	50	Houses	
12	50	Houses 0 nod, Culvert, Electrical Pole & Coconut Trees	116+500	116+550	Houses 0 nod & Coconut Trees	50	Houses	
13	30	Houses 0 nod, Electrical Pole 0 nod & Trees	116+550	117+000	Coconut Trees & Nala	30	Houses	
14	20	Houses 0 nod, Electrical Pole & Trees	116+580	117+000	Coconut Trees, Fencing & Electrical Pole	20	Houses	
15	50	Houses 0 nod, Electrical Pole 0 nod & Trees	117+000	117+050	Church & Shop: 0 nod	50	Church	
16	50	Houses 0 nod, Electrical Pole & Trees	117+050	117+100	Houses 0 nod, Electrical Pole & Trees	50	Houses	
17	20	Houses 0 nod, Electrical Pole & Trees	117+100	117+120	Houses 0 nod, Pond & Trees	20	Houses	
18	30	Temple, Bus shelter, Houses 0 nod, Electrical Pole & Trees	117+120	117+150	Houses 0 nod, Pond & Trees	30	Houses	
19	50	Houses 0 nod, Electrical Pole 0 nod & Trees	117+150	117+200	Houses 0 nod, Petrol Shop, Electrical Pole, Trees & Pond	50	Houses	
20	50	Temple, Houses 0 nod & Coconut Trees	117+200	117+250	Houses 0 nod, Electrical Pole & Trees	50	Houses	
21	50	Houses 0 nod, Electrical Pole & Trees	117+250	117+300	Houses 0 nod, Electrical Pole & Trees	50	Houses	
22	50	Houses 0 nod, Electrical Pole & Trees	117+300	117+350	Houses 0 nod, Electrical Pole & Trees	50	Houses	
23	50	Houses 0 nod, Electrical Pole & Trees	117+350	117+400	Houses 0 nod, Electrical Pole & Trees	50	Houses	
24	50	Houses 0 nod, Electrical Pole & Trees	117+400	117+450	Houses 0 nod, Electrical Pole & Coconut Trees	50	Houses	
25	50	Houses 0 nod, Bus shelter, Water Tank, Electrical Pole & Trees	117+450	117+500	Houses 0 nod, Electrical Pole & Trees	50	Houses	
26	50	Houses 0 nod, Electrical Pole & Trees	117+500	117+550	Trees & Electrical Pole	50	Houses	
27	50	Trees & Electrical Pole	117+550	117+600	Houses 0 nod, Electrical Pole & Trees	50	Houses	
28	50	Houses 0 nod, Electrical Pole & Trees	117+600	117+650	Houses 0 nod, Electrical Pole & Trees	50	Houses	
29	50	Houses 0 nod, Coconut farm, Electrical Pole 0 nod & line crossing & Trees	120+000	120+050	Houses, Electrical Pole 0 nod & Trees	50	Electrical Utility	
30	50	Houses 0 nod, Teak wood Trees	120+050	120+100	Bus shelter, House 0 nod, Electrical Pole 0 nod & Teak wood Trees	50	Houses	
31	50	Temple, House 0 nod, Electrical Pole & Coconut farm	120+100	120+150	Houses 0 nod, Electrical Pole 0 nod & Coconut Trees	50	Houses	
32	50	Coconut farm, Trees	120+150	120+200	Houses 0 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 0 nod, Electrical Pole & Coconut farm	30	Houses	
35	20	Houses 0 nod, Electrical Pole, Culvert, Nala & Coconut farm	120+280	120+300	Houses 0 nod, Electrical Pole & Coconut farm	20	Houses	
36	50	Houses 0 nod, Electrical Pole & Coconut farm	120+300	120+350	Houses 0 nod, Electrical Pole, Culvert & Trees	50	Houses	
37	50	Shops, Electrical Pole & Coconut farm	120+350	120+400	Houses, Electrical Pole & Teak wood Trees	50	Houses	
38	50	Houses 0 nod, Electrical Pole & Coconut Trees	120+400	120+450	Houses 0 nod, Petrol Pump, Electrical Pole 0 nod & Coconut Trees	50	Petrol pump	
39	50	Houses 0 nod, Shops, Coconut & Teak wood Trees	120+450	120+500	Houses 0 nod, Electrical Pole & Trees	50	Houses	
40	50	Houses 0 nod, Electrical Pole, Coconut & Teak wood Trees	120+500	120+550	Houses 0 nod, Electrical Pole, Coconut & Teak wood Trees	50	Houses	
41	50	Houses 0 nod & Coconut farm	120+550	120+600	Houses 0 nod, Electrical Pole & Coconut Trees	50	Houses	
42	50	Houses 0 nod, Fencing, Electrical Pole, Coconut & Teak wood Trees	120+600	120+650	Houses 0 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+720	Next crop planted & Fencing	40	Shops	
45	80	Next crop planted, Electrical Pole & Trees	120+720	120+800	Houses 0 nod, Transformer, Electrical Pole 0 nod & Trees	80	Electrical Utility	
46	50	Houses 0 nod, Culvert & Trees	120+800	120+850	Houses 0 nod, Electrical Pole 0 nod & Trees	50	Houses	
47	30	Houses 0 nod, Electrical Pole & Trees	120+900	121+930	Houses 0 nod, Fencing, Electrical Pole 0 nod & Trees	30	Houses	
48	20	Preparing for next crop, Electrical Pole & Trees	121+930	121+950	Houses 0 nod, Electrical Pole 0 nod & Trees	20	Electrical Utility	
49	50	Electrical Pole & Trees	121+950	121+000	Houses 0 nod, Electrical Pole 0 nod & Trees	50	Houses	

Sr No.	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Type	Remarks
			From	To				
50	10	Electrical Pole & Trees	171+050		Transformer, Electrical Poles (2 nos) & Trees	20	Electrical Utility	
51	-	-	171+100		Electrical Pole	10	Electrical Utility	
52	50	Coconut Trees, Teak wood Trees & Jungle	171+150		Electrical Pole & Trees	20	Electrical Utility	
53	50	Bus shelter, Houses (3 nos), Electrical Poles (2 nos) & Trees	171+200	171+250	Bus shelter, Trees & Jungle	50	Bus Shelter	
54	50	House (1 no), Electrical Pole & Trees	171+250	171+300	House (2 nos), Electrical Poles (2 nos) & Trees	50	Houses	
55	50	Electrical Pole, Trees & Jungle	171+300	171+350	House (2 nos), Electrical Pole & Trees	50	Houses	
56	80	Electrical Pole, Trees & Jungle	171+350	171+430	Houses (4 nos), Electrical Poles (3 nos) & Trees	80	Houses	
57	70	Electrical Poles, Trees & Jungle	171+430	171+500	Electrical Poles, Trees & Jungle	70	Electrical Utility	
58	50	House (1 no), Electrical Poles, Trees & Jungle	171+500	171+550	Electrical Poles, Culvert Trees & Jungle	50	Electrical Utility	
59	70	Temple, Houses (3 nos) & Coconut Trees	171+550	171+620	Houses (2 nos), Electrical Pole, Mango Trees / Jungle	70	Temple	
60	60	Shops, Houses, Electrical Poles, Coconut Trees, Jungle & Culvert	171+620	171+680	Coconut Trees (12 nos), Trees & Jungle	60	Houses	
61	40	Pump set Structure & Coconut Trees (8 nos)	171+680	171+720	Electrical Pole & Trees	40	Pump house	
62	20	Trees & Jungle	171+720	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 (1 no)	171+930		Electrical Poles (2 nos)	15	Electrical Utility	
65	20	Electrical Poles, existing bridge structure & Trees	172+020		Electrical Pole & Trees	10	Electrical Utility	
66	-	Pier crossing & Trees	172+030		Pier crossing & Trees		Trees	
67	-	-	172+080		Temple, Electrical Pole, Canal & Banana Trees	25	Temple	
68	20	Electrical Pole & Trees	172+130		Trees (3 nos)	20	Electrical Utility	
69	15	Electrical Poles, Canal, Banana farm & Teak wood Trees	172+200		Pump set & Electrical Poles	15	Pump set	
70	80	Banana farm, Canal, Teak wood Trees, Transformer & Electrical Poles	172+220	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	120	Teak Wood Trees, Canal & Jungle	172+600	172+820	-	-	Trees	
75	20	Teak wood Trees, Electrical Pole & Existing bridge structure (On Branch Road)	172+820		Bus shelter, Electrical Poles & Trees	15	Bus Shelter	
76	10	Teak wood Trees & Canal	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 (3 nos)	150	Compound Wall	
79	70	Canal, Teak wood Trees & Jungle	173+230	173+300	Transformer, Electrical Poles (3 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+440	173+620	Electrical Poles, Trees & Jungle	180	Electrical Utility	
82	20	Teak wood Trees & Jungle	173+650		Electrical Poles, Canal, Trees & Jungle	20	Electrical Utility	
83	30	Houses (2 nos) & Trees	173+700		Electrical Poles, Trees & Jungle	10	Houses	
84	30	Electrical Poles, Trees & Jungle	173+750		Electrical Poles, Trees & Jungle	15	Electrical Utility	
85	25	Temple & Trees	173+850		Bus shelter, Godown, Overhead Tank & Electrical Poles	25	Temple	
86	10	Canal crossing & Trees	173+900		Pump set & Electrical Poles	15	Pump set	
87	20	Houses (3 nos), Electrical Pole (2 nos) & Trees	173+950		Transformer, Electrical Poles (1 no) & Trees	20	Houses	
88	50	Trees (10 nos) & Jungle	174+100	174+150	-	-	Trees	
89	-	-	174+250	174+310	Transformer, Electrical Pole (6 nos) & Trees	60	Electrical Utility	
90	-	-	174+550		Pump house, Electrical Pole & Trees (3 nos)	30	Pump house	
91	70	Fencing, Electrical Poles & Trees (20 nos)	174+880	174+950	Trees (12 nos) & Electrical Poles	70	Electrical Utility	
92	100	House, Hut (1 no), Transformer	174+950	175+050	Electrical Poles & Fencing	100	Houses	
93	50	Trees	175+050	175+100	Fencing	50	Trees	
94	100	Trees (14 nos)	175+100	175+200	Trees (14 nos)	100	Trees	
95	50	Electrical Poles (2 nos)	175+300	175+350	Trees (3 nos)	50	Electrical Utility	
96	50	Bore well, Water tap, Electrical Pole & line crossing, Advertisement board & Trees	175+350	175+400	Electrical Pole & line crossing, Encroachment	50	Houses	
97	50	Trees (10 nos) & Jungle	175+400	175+450	Advertisement board	50	Trees	
98	50	House (3 nos), Electrical Poles & Trees	175+450	175+500	House (2 nos), Electrical Poles & Trees	50	Houses	
99	50	House (3 nos), Electrical Poles & Trees	175+500	175+550	House (1 no), Electrical Poles & Trees	50	Houses	
100	50	House (1 no), Electrical Poles & Trees	175+550	175+600	House (3 nos), Electrical Poles & Trees	50	Houses	
101	50	House (3 nos), Electrical Poles & Trees	175+600	175+650	Temple, water tank, bore well, House (5 nos), Electrical Poles & Trees	50	Temple	
102	50	House (3 nos), Electrical Poles & Trees	175+650	175+700	Demolished Govt building, House (3 nos), Electrical Poles & Trees	50	Houses	
103	100	Electrical Pole & Trees	175+700	175+800	Compound Wall	100	Compound Wall	
104	50	Houses (3 nos), Electrical Poles & Trees	175+800	175+850	Houses (1 no), Electrical Poles & Trees	50	Houses	
105	50	Houses (1 no), Electrical Poles & Trees	175+850	175+900	Houses (2 nos), Electrical Poles & Trees	50	Houses	
106	50	Govt building, House (1 no), Electrical Poles & Trees	175+900	175+950	Houses (3 nos), Electrical Poles & Trees	50	Houses	
107	100	House (1 no), Water tap & Trees	175+950	176+050	Houses (3 nos) & Trees	100	Houses	

Sr No.	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Type	Remarks
			From	To				
108	50	Building, Hut 0 nod & Trees 01 nod	126+050	126+100	Temple, House 0 nod, Electrical Pole 11 nod & Trees 113 nod	50	Houses	
109	100	Electrical Poles, Pond & Trees	126+100	126+200	House, Electrical Pole & Trees	100	Houses	
110	100	Pond & Trees	126+100	126+500	Pond & Trees	100	Trees	
111	100	House 03 nod, Electrical Poles & Line crossing & Trees	126+600	126+700	House 03 nod, Electrical Poles & Line crossing & Trees	100	Houses	
112	100	Bus shelter, Fencing, Houses 11 nod, Electrical Pole & Trees 1/ nod	126+700	126+800	Rice Mill, Houses 11 nod, Hut Electrical Pole & Trees 113 nod	100	Houses	
113	100	Houses 11 nod, Hand pump, Transformer & Electrical Pole	126+800	126+900	Temple, House 11 nod, Electrical Pole 0 nod & Trees 113 nod	100	Houses	
114	100	Bus shelter, Pump house, Electrical Pole 11 nod & Trees 113 nod	126+900	127+000	Electrical Pole 11 nod, Telephone Pole, Sign board & Trees 114 nod	100	Houses	
115	100	Pump house, Electrical Pole 0 nod, Trees 0 nod & Nala	127+000	127+100	Electrical Pole 11 nod & Trees 03 nod	100	Pump house	
116	100	Building 11 nod, Electrical Pole 11 nod, Sign boards 11 nod & Trees 114 nod	127+100	127+200	Pump house, Electrical Poles 11 nod, Transformer, Sign boards & Trees 110 nod	100	Houses	
117	100	Building 0 nod, Electrical Pole 19 nod, Sign boards 11 nod & Trees 110 nod	127+200	127+300	Arch, Compound Wall, Electrical Pole 13 nod & Trees 03 nod	100	Houses	
118	20	Electrical Pole 11 nod & Line crossing	127+150	127+500	Electrical Pole 11 nod, Sign boards 0 nod & Trees 0 nod	20	Electrical Utility	
119	20	Electrical Pole 03 nod, Trees 03 nod & Nala	127+500	127+600	Electrical Pole 11 nod, Transformer & Trees	20	Electrical Utility	
120	30	Commercial building 03 nod, Electrical Pole 10 nod & Line crossing & Trees 03 nod	127+650	127+800	Building Compound Wall, Electrical Pole 10 nod & Trees 0 nod	30	Compound Wall	
121	25	Fencing	127+800	127+900	Fencing & Electrical pole	25	Compound Wall	
122	10	Trees & Electrical Pole	127+900	128+000	Compound Wall & Electrical Pole	80	Compound Wall	
123	20	Trees 03 nod	128+000	128+120	Pump house, Bone well, Transformer & Electrical Pole 03 nod	30	Pump house	
124	10	Electrical Pole 11 nod	128+120	128+200	Electrical Pole 11 nod	10	Electrical Utility	
125	-	-	128+200	128+300	Electrical Pole 0 nod	20	Electrical Utility	
126	25	Small Temple with Gate & Trees 11 nod	128+300	128+350	Electrical Pole 0 nod	20	Temple	
127	10	Tree	128+350	128+100	Electrical Pole 0 nod	20	Electrical Utility	
128	15	Electrical Pole, Tree & Existing Culvert	128+100	128+500	Electrical Pole 03 nod	30	Electrical Utility	
129	10	Tree	128+500	128+550	Electrical Poles 0 nod	20	Electrical Utility	
130	-	-	128+550	128+600	Electrical Poles	10	Electrical Utility	
131	30	Trees & Jungle	128+600	128+700	Shops 10 nod & Houses 0 nod, Electrical Pole 13 nod & Trees	10	Houses	
132	60	Fencing, Trees & Jungle	128+700	128+800	-	-	Fencing	
133	10	Indian Oil Petrol Bunk, Small Temple, steel pole & Trees	128+800	128+900	Trees & Jungle	20	Petrol pump	
134	20	Under construction House, Electrical Pole 03 nod	128+900	128+950	-	-	Electrical Utility	
135	50	Shops 19 nod, Transformer & Electrical Pole 13 nod	128+950	129+000	Electrical Pole & Trees	20	Shops	
136	20	Electrical Pole 08 nod, Coconut farm & Jungle	129+000	129+120	Fencing, Electrical Pole 0 nod, Trees 0 nod & Jungle	20	Electrical Utility	
137	30	Electrical Pole 03 nod, Street light & Steel arch	129+120	129+200	Under construction house, Trees & Jungle	10	Houses	
138	30	Electrical Pole, Trees & Jungle	129+200	129+300	Trees & Jungle	20	Electrical Utility	
139	30	Trees 11 nod	129+300	129+180	Trees & Jungle	20	Trees	
140	30	Houses 10 nod, Trees & jungle	129+180	129+510	Electrical Poles 11 nod, Coconut Trees 110 nod & Existing culvert	30	Houses	
141	10	Houses 0 nod, Electrical Pole & Jungle	129+550	129+620	Small Temple & Jungle	10	Houses	
142	30	Transformer, Electrical Poles 03 nod, Trees & Jungle	129+620	129+700	Electrical Pole & line crossing, Trees & Jungle	30	Electrical Utility	
143	50	Wooden wash factory, Electrical Pole 11 nod, Trees & Jungle	129+700	129+750	Banana farm, Trees & Electrical Pole	50	Shops	
144	50	Trees 03 nod & Existing Culvert	129+800	129+850	Shops 110 nod, Entrance Arch, Coconut Trees	50	Shops	
145	50	Fencing & Trees	129+850	129+900	Fencing & Teak wood Trees	50	Trees	
146	50	Building, Electrical Pole, Trees 11 nod	129+900	129+950	Compound Wall, Electrical Pole & Trees	50	Houses	
147	20	Trees 11 nod & Jungle	129+950	130+000	Transformer, Electrical Poles 0 nod & Jungle	20	Electrical Utility	
148	20	Electrical Pole & Trees	130+000	130+120	Electrical Poles 13 nod, Arch & Trees	20	Electrical Utility	
149	60	Houses 11 nod, Electrical Pole 03 nod, Coconut & teak wood Trees	130+120	130+200	Houses 03 nod, Electrical Poles 11 nod & Transformer	60	Houses	
150	50	Houses 0 nod, Electrical Pole & Trees 11 nod	130+200	130+250	Houses 10 nod, Electrical Poles 0 nod & Coconut Trees	50	Houses	
151	50	Houses Fencing 11 nod, Electrical Pole & Trees 02 nod	130+250	130+300	Houses 11 nod, Electrical Poles 0 nod & Coconut Trees	50	Houses	
152	50	Shops, Electrical Pole & Trees	130+300	130+350	Compound Wall, Electrical Pole 03 nod & Trees	50	Compound Wall	
153	50	Houses 03 nod, Electrical Poles 0 nod & Trees	130+350	130+100	Houses 10 nod, Electrical Poles 0 nod & Trees	50	Houses	
154	50	Houses 1/ nod, Electrical Poles 0 nod & Trees	130+100	130+150	Houses 03 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	20	Teak wood Trees & Jungle	130+500	130+550	Trees & Jungle	20	Trees	
157	20	Fencing, Trees & Jungle	130+550	130+600	Fencing Pole preparation shop, Trees & Jungle	20	Shops	
158	20	Trees & Jungle	130+600	130+700	Shops 10 nod, Electrical Poles 0 nod & Trees	10	Shops	
159	30	House with Gate 11 nod, Electrical Pole 03 nod	130+700	130+780	Trees, Electrical Poles & Culvert structure	30	Houses	
160	10	Electrical Pole & Line crossing	130+780	130+800	Electrical Pole & Line crossing	10	Electrical Utility	
161	10	Trees 110 nod, Trees & Jungle	130+800	130+900	Trees 10 nod, Electrical Pole, Trees & Jungle	10	Electrical Utility	

Sr. No.	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Type	Remarks
			From	To				
162	20	Electrical Pole (3 nod. Existing culvert & Jungle	130+900	131+000	Arch. Existing culvert Electrical Pole, Trees & Jungle	20	Electrical Utility	
163	20	Trees (7 nod & Electrical Pole	131+000	131+100	Building (1 nod. Shop, Trees (3 nod. Electrical Pole & Trees	10	Shops	
164	20	Trees (6 nod & Electrical Pole	131+100	131+200	Temple (1 nod. Trees (11 nod & Jungle	25	Temple	
165	25	Hotel (1 nod) & Electrical Pole (1 nod	131+200	131+300	Trees (3 nod & Electrical Pole	20	Hotel	
166	30	Scrapyard 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	25	Electrical Utility	
168	20	Fencing, Trees (6 nod & Jungle	131+500	131+600	Marble showroom, Electrical Poles & Line crossing (1 nod. Trees & Jungle	10	Shops	
169	20	Fencing, Electrical Poles (1 nod, Existing culvert & Jungle	131+600	131+700	Electrical Pole, Trees & Jungle	20	Electrical Utility	
170	10	High mast light, Sign boards, Houses (1 nod, Electrical Poles (3 nod & Trees (8 nod	131+700	131+800	Advertisement board, Fencing, Houses (1 nod, Electrical Poles (1 nod & Trees	10	Houses	
171	20	Houses (1 nod, Over head tank, Coconut Trees & Jungle	131+800	131+920	Trees & Jungle	20	Houses	
172	30	River crossing & Trees	131+920	132+000	River crossing & Trees	30	Trees	
173	10	Coconut farm	132+000	132+100	Trees & Jungle	10	Trees	
174	60	Banana farm & Trees (10 nod	132+100	132+700	Trees & Jungle	10	Trees	
175	50	Houses (3 nod, Shop (1 no. & 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	Houses, 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 (6 nod	132+500	132+600	Compound wall, Trees (6 nod & Jungle	30	Trees	
180	30	Bore well, Pump set, Electrical Poles (1 nod & Line crossing & Trees	132+600	132+730	Under construction House (1 nod, Electrical Pole (1 nod & Line crossing & Trees	30	Bore well & Pump set	
181	25	Overhead Water Tank	132+730	132+800	Trees & Jungle	20	Water Tank	
182	50	Trees & Jungle	132+800	132+900	Coconut farm, Electrical Poles (1 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 (1 nod & Line crossing & Coconut Trees	100	Electrical Utility	
184	100	Motor garage shop, Electrical Pole (1 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 (1 nod & Trees	133+100	133+150	Electrical Poles (1 nod & Line crossing & Trees	20	Temple	
186	50	High mast light (3 no. of buildings, Electrical Poles (11 nod & Trees	133+150	133+200	Houses (3 nod, Street lighting pole, Electrical Poles (1 nod & Trees	50	Shops	
187	10	Houses (3 nod, Mango & Coconut Trees & Electrical Pole (1 nod	133+200	133+280	Trees (6 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+100	Trees & Jungle	50	Trees	
190	50	Compound wall, Electrical Pole & Trees (1 nod	133+100	133+500	Trees, Existing culvert & Jungle	30	Trees	
191	60	Hotel (1 nod, Electrical Poles (1 nod & Trees	133+500	133+600	School compound wall, Fencing & Trees (12 nod	50	Hotel	
192	30	Houses (1 nod, Electrical Pole (1 no), School compound wall fencing	133+600	133+700	Compound wall, Transformer, Electrical Pole (1 nod, Arch & Trees (10 nod	60	Houses	
193	10	Compound Wall, Electrical Pole, Trees & Jungle	133+700	133+750	House (1 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 (3 nod, Trees & Jungle	133+800	133+900	House (1 nod, Electrical Poles (3 nod, Trees & Jungle	10	Houses	
196	30	Sign boards, Houses (1 nod, Building, Electrical Poles (1 nod	133+900	133+950	Shops, Lighting Poles (1 nod & Electrical Pole (1 nod	30	Electrical Utility	
197	30	High mast light, Sign boards & Electrical Poles	133+950	131+000	High mast light, Sign boards & Electrical Pole	30	Electrical Utility	
198	-	-	131+000	-	Commercial Building	15	Shops	
199	10	Electrical Pole	131+030	-	Miyannam	10	Electrical Utility	
200	30	House & Trees	131+080	-	House & Trees	30	Houses	Encroachment
201	10	Electrical Pole	131+100	-	Tree	10	Electrical Utility	
202	10	Electrical Pole	131+170	-	-	-	Electrical Utility	
203	10	Electrical Pole	131+200	-	-	-	Electrical Utility	
204	10	Electrical Pole	131+280	-	-	-	Electrical Utility	
205	10	Electrical Pole	131+300	-	House	30	Houses	
206	30	Pond & Trees	131+350	-	Electrical Pole	10	Electrical Utility	
207	-	Railway Crossing	131+380	-	Railway Crossing	-	-	FOB @ CH: 131+315
208	10	Electrical Pole & Line Crossing & Pump house	131+700	-	Standing Crop	-	Electrical Utility	
209	20	Regulator & Trees	131+710	-	-	-	Trees	Water regulator valve 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	20	Electrical Pole & Trees	135+550	-	Wall & Trees	20	Wall	
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	20	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	136+250	Coconut farm & Electrical Pole	100	Electrical Utility	

Sr No.	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Type	Remarks
			From	To				
222	10	Road crossing, Electrical pole & Trees	136+300		Pathanam to Saramela Road	10	Electrical Utility	VUP @ CH: 136+382
223			136+660	136+700	Electrical Tower & Vegetable farm	40	Electrical Utility	
224	10	Electrical Pole & Line crossing	137+010		Electrical Pole & Line crossing	10	Electrical Utility	
225	20	Road crossing & Electrical pole	137+100		House & Trees	20	House	
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+100	137+350	Standing Crop & Teak wood Trees & Electrical Pole	150	Electrical Utility	
229	70	Standing crop, Transformer, Electrical Pole & Trees	137+550	137+620	Standing crop, Road crossing (Pathanam to Sundarapriya Oil) & 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	
232	10	Electrical Pole	137+900		Electrical Pole	10	Electrical Utility	
233	60	Pump set, Banana farm, Coconut farm & Teak wood Trees	138+710	138+300	Banana farm, Coconut farm & Teak wood Trees	60	Pump set	
234	150	Mango farm & Teak wood Trees	138+300	138+150	Pump set, Mango farm & Teak wood Trees	150	Pump set	
235	100	Pump set, Banana farm, Coconut farm & Canal crossing	138+150	138+350	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	20	Road Crossing, Trees & EB Pole	138+730		Pathanam to Papanasam Road, Trees	20	Electrical Utility	
239	20	Coconut farm, Electrical Pole & Trees	138+730	138+750	Coconut farm, Electrical Pole & Trees	20	Electrical Utility	
240	50	House / Road, Trees & Electrical Poles	138+750	138+800	Coconut farm, Banana farm & Teak wood Trees	50	House	
241	100	River crossing & Trees	138+850	138+920	River crossing & Trees	100	Trees	Minor bridge @ CH: 138,901
242	120	Coconut Trees & Banana Trees	139+280	139+100	Coconut Trees & Banana Trees	120	Trees	
243	20	Electrical Poles & Line Crossing, Road crossing & Trees	139+150		Electrical Poles & Line Crossing, Road crossing & Trees	20	Electrical Utility	
244	-	-	139+160		Pump, Pump house & Bare Wall	30	Pump house	
245	10	Electrical Pole & Line Crossing	139+680		Electrical Pole & Line Crossing	10	Electrical Utility	
246	10	Electrical Pole & Line Crossing	139+950		Electrical Pole & Line Crossing	10	Electrical Utility	
247	10	Electrical Pole & Line Crossing	139+970		Electrical Pole & Line Crossing	10	Electrical Utility	
248	10	Electrical Pole & Line Crossing	140+290		Electrical Pole & Line Crossing	10	Electrical Utility	
249	10	Electrical Pole	140+870		-	-	Electrical Utility	
250			140+860		Canal Crossing & Trees	20	Trees	
251			140+900		EB Pole & Line Crossing	20	Temple	
252			141+105		Nalla to Aruru Road	15	Trees	
253			141+130	141+220	EB Pole & Line Crossing	90	Electrical Utility	
254	100	Coconut Trees & Electrical pole	141+300	141+100	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		Katchery to Katchery	-		
260	20	Bare wall, Pump house & Trees	142+260		EB Pole & Line Crossing	10	Bare wall & Pump house	
261	20	Bare Wall	142+500		Electrical Pole & Line Crossing	10	Bare wall	
262	-	-	142+670		Pump set & Trees	20	Pump set	
263	20	High Tension Tower	142+850		-	-	Electrical Utility	
264	10	Bare Wall	142+850		-	-	Bare wall	
265	-	-	143+100		High Tension Tower	20	Electrical Utility	
266	10	Pump set & Bamboo trees	143+300		Bamboo trees	10	Pump set	
267	20	EB Pole & Trees	143+600		EB Pole & Trees	20	Electrical Utility	
268	-	-	143+850		Electrical Pole & Line Crossing & Trees	15	Electrical Utility	
269	15	Bare Wall & Tree	144+150		-	-	Bare wall	
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	20	Pump set	
273	10	Electrical Pole & Line Crossing	146+000		Electrical Pole & Line Crossing	10	Electrical Utility	
274	20	Pump set	146+050		Electrical Pole & Line Crossing	10	Pump set	
275	10	Electrical Pole & Line Crossing	146+070				Electrical Utility	
276			146+130		Electrical Pole & Line Crossing	10	Pump set	
277	10	Electrical Pole	146+200		-	-	Electrical Utility	
278	20	Trees & Electrical Pole	146+300		Trees & Electrical Pole	20	Electrical Utility	
279	-	River Crossing	146+630		River Crossing	-	Trees	
280	20	Electrical Pole & Line Crossing	146+700	146+720	Electrical Pole & Line Crossing & Trees	20	Electrical Utility	
281	10	Nala Crossing, Trees & Electrical Pole	146+780		Nala Crossing, Trees & Electrical Pole	10	Electrical Utility	
282	20	Pump set, River Crossing, Trees & Electrical Pole	146+830		River Crossing, Trees & Electrical Pole	20	Pump set	
283	20	Pump set	146+900		Trees & EB Pole	20	Pump set	
284	30	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+200		Bare wall & trees	15	Bare wall	
289	20	High Tension Tower	147+330		-	-	Electrical Utility	
290	20	Bare wall & Pump house	147+380		-	-	Bare wall & Pump house	
291	30	Nala Crossing & Trees	147+370	147+100	House	30	House	
292	-	-	147+110	147+150	Houses, Trees & Electrical Line	10	Electrical Utility	
293	20	Teak wood trees	147+570		Teak wood trees	20	Trees	
294	30	Trees	147+850		Trees	30	Trees	
295	30	Electrical Pole & Line Crossing	147+880		Electrical Pole & Line Crossing	30	Electrical Utility	
296	20	Road Crossing, Trees & EB Pole	147+900		Road Crossing, Trees & EB Pole	20	Electrical Utility	
297			147+900	148+020	Trees & EB Pole & Nala crossing	120	Trees	
298	250	Banana Farm, Pump set & EB Pole	148+300	148+550	Banana Farm, Pump set & EB Pole	250	Pump set	

Sr. No.	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Type	Remarks
			From	To				
299	10	EB Electrical Pole	118+700		Trees 10 nod	70	Electrical Utility	
300	20	Trees 0' nod & Pump set	119+000		EB Electrical Pole & Line crossing	10	Pump set	
301	10	EB Pole & trees 10 nod	119+100		Pump set & EB Pole	20	Pump set	
302	10	EB Electrical Pole	119+150		EB Electrical Pole	10	Electrical Utility	
303	10	EB Electrical Pole	119+200		-	-	Electrical Utility	
304	10	Pier crossing	119+300				Trees	
305	20	Pier crossing	119+400				Trees	
306	20	Pump set	119+900		Pump set & Electrical Pole	20	Pump set	
307	10	EB Pole & Line crossing	119+980		Pump set EB Pole & Line Crossing & Trees 11 nod	20	Pump set	
308	10	EB Pole & Line crossing	150+150		EB Pole & line crossing	10	Electrical Utility	
309	10	EB Pole & Line crossing	150+210				Electrical Utility	
310	10	Trees 10 nod	150+210	150+300	Trees 0' nod & Pump set	10	Pump set	
311	10	EB Pole & Line crossing	150+160		EB Pole & line crossing	10	Electrical Utility	
312	20	Pump house	150+610		EB Pole & line crossing & Trees 0' nod	10	Pump house	
312	70	Pier Crossing, Trees & EB Pole	150+780		Regulator & trees	70	Water Regulator	
314	10	EB Pole & Line crossing & Trees 0' nod	151+000		EB Pole & line crossing & Trees 0' 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 10 nod & Trees 17 nod	-	Temple	
318	20	Pump set & Electrical Pole & line crossing	151+650		Electrical Pole	20	Pump set	
319	10	Electrical Pole	151+830		-	-	Electrical Utility	
320	-		151+930				Pump set	
321	10	Electrical Pole	152+070		Electrical Pole	10	Electrical Utility	
322	10	Electrical Pole	152+100		Electrical Pole	10	Electrical Utility	
323	-		152+150		Jungle	20	Trees	
324	-	Road Crossing, Trees & EB Pole	152+350		Gulmangalam to Palasahudi	-	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	20	Bore well & Pump house	152+730		Trees		Bore well & Pump set	
328	30	Pier crossing, Pump set & Trees	152+880		Pier crossing Trees	30	Trees	
329	20	Canal Crossing & Trees	152+900		Canal Crossing & Trees	20	Trees	
330	-		153+000		Trees 115 nod	10	Trees	
331	20	EB Pole & Trees	153+280		Bore well & Pump set	20	Bore well & Pump set	
332	10	EB Pole & Trees	153+500		EB Pole & Trees	10	Electrical Utility	
333	10	Electrical Pole	153+550		Electrical Pole	10	Electrical Utility	
334	30	Bore well & Pump house	153+600		Electrical Pole & Trees	30	Bore well & Pump set	
335	60	Electrical Poles & Trees 11 nod	153+630		Electrical Poles & Trees 11 nod	60	Electrical Utility	
336	15	Electrical Tower	153+770		Electrical Pole & Trees	15	Electrical Utility	
337	15	Road crossing & Trees	153+900		Road crossing & Trees	15	Trees	
338	20	Canal Crossing & Trees	153+920		Canal Crossing & Trees	20	Trees	
339	15	Electrical Pole	151+050		Electrical Pole	15	Electrical Utility	
340	10	Electrical Pole	151+150		Electrical Pole	10	Electrical Utility	
341	10	Houses 10 nod, Electrical pole & Trees	151+590	151+630	Houses 10 nod, Electrical pole & Trees	40	Houses	
342	170	Bamboo trees & trees & Canal crossing	151+630	151+790	Bamboo trees & trees & Canal crossing	170	Trees	
343	10	Electrical Pole	151+650		Electrical Pole & Trees	10	Electrical Utility	
344	90	Houses 11 nod & Trees	151+680	151+770	Bamboo trees	90	Houses	
345	130	Coconut Farm, Pier crossing & Electrical poles	155+950	155+080	Coconut Farm, Pier crossing & Electrical poles	130	Electrical Utility	
346	80	Bore well & Pump house & Electrical Poles & Next crop planted due to dispute in compensation.	155+120	155+200	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 10 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	20	Water tank & Trees	155+780		Trees	20	Trees	
354	10	Electrical Pole & Tree	155+950		Electrical Pole	10	Electrical Utility	
355	10	Canal crossing & Electrical Pole & Line crossing	156+000		Canal crossing & Electrical Pole & Line crossing	10	Electrical Utility	
356	10	Electrical Pole & line crossing	156+050		Electrical Pole & line crossing	10	Electrical Utility	
357	130	Canal crossing & trees	156+270	156+350	Canal crossing & trees	130	Trees	
358	10	Pump set, Electrical Pole & Trees	156+380	156+470	Jungle, Electrical Pole & Trees	10	Pump set	
359	20	Electrical Pole	156+170	156+110	Teak wood trees	20	Electrical Utility	
360	30	Kalam	156+110	156+170	Jungle, Electrical Pole & Trees	30	Trees	
361	10	Road Crossing, Trees & EB Pole	156+170	156+180	Konda: athathidal & Peruvakkannallur	10	Electrical Utility	
362	70	Road Crossing, Trees & EB Pole	156+180	156+550	Konda: athathidal & Peruvakkannallur	70	Electrical Utility	
363	50	Pier crossing & Trees	156+550	156+600	Pier 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		Nizhalarambal 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	Wall, Electrical Pole & Trees	157+510		Wall, Electrical Pole & Trees	10	Wall	
369	60	Electrical Pole, Jungle & Trees	157+970	157+980	Electrical Pole, Jungle & Trees	60	Electrical Utility	
370	20	High Tension Tower	158+850		-	-	Electrical Utility	
371	10	Canal crossing, Jungle & Trees	159+080	159+120	Canal crossing, Jungle & Trees	10	Trees	
372	10	Trees & Electrical Pole	159+100		Pump set Bore well & Trees	20	Pump set	
373	10	Electrical Pole	159+150		Electrical Pole	10	Electrical Utility	

Sr No.	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Type	Remarks
			From	To				
371	20	Electrical Pole & line crossing	159+580		Houses & Trees	20	Electrical Utility	
375	90	Trees, Jungle & Electrical Pole	159+610	159+700	Trees, Jungle & Electrical Pole	90	Electrical Utility	
376			159+700	159+720	Electrical Pole, Jungle & Trees	20	Pump set	
377	10	Electrical Pole	159+950				Electrical Utility	
378			160+080	160+120	Trees, Jungle & Electrical Pole	40	Trees	
379	10	Houses	160+120	160+160	Houses & mod, Water Tank & Trees	40	Houses	
380	20	Houses, Trees (D mod), Electrical pole & line crossing	160+160	160+180			Houses	
381	10	Houses & Hut	160+180	160+220			Houses	
382	10	Electrical Poles	160+280				Electrical Utility	
383	10	Well, Pump set, Electrical Pole & Trees	160+540				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	20	Bore well, Trees (D mod), Electrical Pole	160+950	161+020	Trees & Electrical Pole	20	Electrical Utility	
388	30	Jungle, Trees & Mud Road crossing	161+080	161+110	Jungle, Trees & Mud Road crossing	30	Trees	
389	10	Bore well & Pump set	161+110	161+150	Electrical Pole	40	Bore well & Pump house	
390	20	Canal crossing, Jungle & Trees	161+200	161+220	Canal crossing, Jungle & Trees	20	Trees	
391	10	Electrical Pole, Jungle & Trees	161+170		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	30	Pump room, Electrical pole	161+550				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	Houses, Trees (D mod), Bore well & Pump Set	100	Houses	
398	20	Electrical Pole, Jungle & Trees	162+100		Electrical Pole, Jungle & Trees	20	Electrical Utility	
399	60	Trees (D mod)	162+570	162+630	Electrical Pole (D mod), Jungle & Trees	60	Electrical Utility	
100	70	River crossing, Jungle & Trees	162+580	162+650	River crossing, Fencing, Jungle & Trees	70	Trees	
101	10	Electrical Poles, Jungle, Trees & Road crossing	163+500	163+510	Houses, Trees & Electrical Pole	50	Houses	
102	10	Houses, Electrical pole, Road Crossing & Trees	163+580	163+670	Electrical pole, Road Crossing & Trees	10	Houses	
103	-	-	163+670	163+650	Houses (D mod), Electrical pole, Road Crossing & Trees	30	Houses	
104	100	River crossing, Jungle & Trees	163+700	161+100	River crossing, Jungle & Trees	100	Trees	
105	70	High mast light, Electrical Pole	161+180	161+250	High mast light, Electrical Pole	70	Electrical Utility	
106	25	Shops (D mod)	161+250	161+275	Trees (D mod)	25	Shops	
	15280	Total Hindred length on LHS in (M)			Total Hindred length on RHS in (M)	15850		

Table 2.1.6 - Hindrance Photographs

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	30	Houses 0 nod. Electrical Pole & Trees	116+110	116+140	Houses 16 nod. Mango farm, Coconut farm & Electrical Pole & nod.	30		
	30	Houses 12 nod. Electrical Pole 0 nod & Trees	116+140	116+170	Bus shelter & Electrical Transformer	30		
	70	Houses 0 nod. Electrical Pole & line crossing & Trees	116+170	116+240	Houses 13 nod. & Coconut Trees 16 nod.	70		
	60	Houses 16 nod. Culvert & Trees	116+270	116+330	Trees	60		
	70	Electrical Pole & Trees	116+380	116+450	Canal crossing, culvert & Trees	70		
	50	Houses 11 nod. Electrical Pole & Trees	116+460	116+510	Canal crossing & Trees	50		
	50	Houses 0 nod. Electrical Pole & Trees	116+610	116+660	Bore Well Pump set Electrical Pole & Trees	50		
	50	Trees	116+700	116+750	Houses 17 nod. Electrical Pole & Trees	50		
	50	Houses 16 nod. Electrical Pole & Trees	116+750	116+800	Houses 11 nod. & Coconut Trees	50		
	50	Vinayagar Temple Houses 17 nod. & Electrical Pole 12 nod.	116+800	116+850	Houses 13 nod. & Coconut Trees	50		
	50	Houses 17 nod. Electrical Poles & Trees	116+850	116+900	Houses 18 nod. & Coconut Trees	50		
	50	Houses 15 nod. Culvert Electrical Poles & Coconut Trees	116+900	116+950	Houses 16 nod. & Coconut Trees	50		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	30	Houses D nod, Electrical Pole G nod & Trees	11/4950	11/4980	Cocunut Trees & Nala	30		
	70	Houses D nod, Electrical Poles & Trees	11/4980	11/4000	Cocunut Trees, Fencing & Electrical Pole	70		
	50	Houses I / nod, Electrical Pole H nod & Trees	11/4000	11/4050	Church & Shop G nod	50		
	50	Houses D nod, Electrical Poles & Trees	11/4050	11/4100	Houses I / nod, Electrical Poles & Trees	50		
	70	Houses G nod, Electrical Pole & Trees	11/4100	11/4170	House D nod, Pond & Trees	70		
	30	Temple, Sur-shalke, Houses H nod, Electrical Pole & Trees	11/4170	11/4150	House D nod, Pond & Trees	30		
	50	Houses B nod, Electrical Poles G nod & Trees	11/4150	11/4200	Houses B nod, Pation Shop, Electrical Poles, Trees & Pond	50		
	50	Temple, Houses D nod & Cocunut Trees	11/4200	11/4250	Houses P nod, Electrical Poles & Trees	50		
	50	Houses G nod, Electrical Poles & Trees	11/4250	11/4300	Houses D nod, Electrical Poles & Trees	50		
	50	Houses G nod, Electrical Poles & Trees	11/4300	11/4350	Houses G nod, Electrical Poles & Trees	50		
	50	Houses H nod, Electrical Poles & Trees	11/4350	11/4400	Houses H nod, Electrical Poles & Trees	50		
	50	Houses D nod, Electrical Poles & Trees	11/4400	11/4450	Houses B nod, Electrical Poles & Cocunut Trees	50		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	50	Houses H mod, Bus shelter, Water Tank, Electrical Poles & Trees	11/+150	11/+300	Houses D mod, Electrical Poles & Trees	50		
	50	Houses H mod, Electrical Poles & Trees	11/+300	11/+350	Trees & Electrical Poles	50		
	50	Trees & Electrical Poles	11/+350	11/+400	Houses H mod, Electrical Poles & Trees	50		
	50	Houses D mod, Electrical Poles & Trees	11/+400	11/+450	Houses I3 mod, Electrical Poles & Trees	50		
	30	Teak Wood Trees	11/+450	11/+480	Demolished structure & Bamboo Trees	30		
	25	Food, Electrical Pole & Trees	11/+710		Trees	25		
	20	Electrical Pole & Teak wood Trees	11/+800		Teak wood Trees	20		
	-	-	11/+830		Pump set, Electrical Pole D mod & Coconut Trees	15		
	-	-	11/+900		Canal & Electrical Pole	15		
	-	-	11/+950		Electrical Pole	10		
	10	Electrical Pole	118+000	118+050	Canal & Culvert	15		
	10	Electrical Pole	118+280		Electrical Pole	-		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	10	Electrical Pole & Canal crossing	118+300	118+350	Electrical Pole	10		
	15	Trees	118+1/0		Trees	15		
	10	Electrical Poles & road	118+500		Electrical Poles & road	10		
	-	-	118+530		Pump set Electrical Pole & road & Canal crossing	30		
	10	Electrical Pole & Line crossing	118+630		Electrical Pole & Line crossing	10		
	25	Electrical Poles & road & Road crossing	118+650	118+750	Electrical Poles & road & Road crossing	25		
	15	Concrete structure	118+780		CocunutTrees & road	10		
	10	Electrical Poles & road & CocunutTrees	118+810		CocunutTrees	10		
	15	Demolished House Structure	118+930		Demolished House Structure	15		
	10	Electrical Poles & road & Trees	118+950		Electrical Poles & road & Trees	10		
	15	Trees & road	119+080		-	-		
	10	Cocunutfarm & Teak woodTrees	119+350		Cocunutfarm & Teak woodTrees	10		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	15	Concrete Pump room structure & Trees	119+130		-	-		
	-	-	119+600		Govt School Building Structures (Park)	15		
	10	Electrical Pole	119+800		-	-		
	10	Trees	119+900		Electrical Pole	10		
	20	House 11 and Coconut Trees	120+000		Electrical Pole	10		
	50	House 12 and Coconut farm, Electrical Pole & line crossing & Trees	120+000	120+050	House, Electrical Pole & line crossing & Trees	50		
	50	House 13 and Teak wood Trees	120+050	120+100	Bus shelter, House 13 and Teak wood Trees	50		
	50	Temple, House 14, Electrical Pole & Coconut farm	120+100	120+150	House 14 and Electrical Poles & Coconut Trees	50		
	50	Coconut farm, Trees	120+150	120+200	Houses 15 and Electrical Pole & Trees	50		
	50	Coconut farm, Pond & Trees	120+200	120+250	Temple, Houses 16 and Electrical Pole	50		
	30	Houses 17 and Electrical Pole, Culvert & Coconut farm	120+250	120+280	Houses 17 and Electrical Poles & Coconut farm	30		
	20	Houses 18 and Electrical Pole, Culvert & Coconut farm	120+280	120+300	Houses 18 and Electrical Poles & Coconut farm	20		



Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	50	Houses H nod, Electrical Poles & Coconut farm	170+300	170+350	Houses I3 nod, Electrical Poles, Culvert & Trees	50		
	50	Shops, Electrical Pole & Coconut farm	170+350	170+400	House, Electrical Pole & Teak wood Trees	50		
	50	Houses D nod, Electrical Poles & Coconut Trees	170+400	170+450	Houses H nod, Petrol Pump, Electrical Poles, D nod & Coconut Trees	50		
	50	Houses D nod, Shops, Coconut & Teak wood Trees	170+450	170+500	Houses I3 nod, Electrical Poles & Trees	50		
	50	Houses I3 nod, Electrical Poles, Coconut & Teak wood Trees	170+500	170+550	Houses I3 nod, Electrical Poles, Coconut & Teak wood Trees	50		
	50	Houses H nod & Coconut farm	170+550	170+600	House I1 nod, Electrical Pole & Coconut Trees	50		
	50	Houses I3 nod, Fencing, Electrical Pole, Coconut & Teak wood Trees	170+600	170+650	Houses I3 nod, Fencing, Electrical Pole, Coconut, Mango Trees & Fish Pond	50		
	30	Houses, Coconut & Teak wood Trees	170+650	170+680	Pond & Trees	30		
	10	Shops, Coconut & Teak wood Trees	170+680	170+700	Next crop planted & Fencing	10		
	80	Next crop planted, Electrical Poles & Trees	170+700	170+800	House I1 nod, Transformer, Electrical Poles, I1 nod & Trees	80		
	50	Houses I3 nod, Culvert & Trees	170+800	170+850	Houses D nod, Electrical Poles I3 nod & Trees	50		
	30	Houses I3 nod, Electrical Poles & Trees	170+900	171+930	Houses I1 nod, Fencing, Electrical Pole I1 nod & Trees	30		

























Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	20	Preparing for next crop, Electrical Pole & Trees	121+930	121+950	Houses D' road, Electrical Pole D' road & Trees	20		
	50	Electrical Pole & Trees	121+950	121+000	Houses D' road, Electrical Pole D' road & Trees	50		
	10	Electrical Pole & Trees	121+050		Transformer, Electrical Poles B' road & Trees	20		
	-	-	121+100		Electrical Pole	10		
	50	Coconut Trees, Teak wood Trees & Jungle	121+150		Electrical Pole & Trees	20		
	50	Bus shelter, Houses B' road, Electrical Poles D' road & Trees	121+200	121+250	Bus shelter, Trees & Jungle	50		
	50	House II' road, Electrical Pole & Trees	121+250	121+300	House B' road, Electrical Poles B' road & Trees	50		
	50	Electrical Pole, Trees & Jungle	121+300	121+350	House D' road, Electrical Pole & Trees	50		
	80	Electrical Pole, Trees & Jungle	121+350	121+430	Houses P' road, Electrical Poles B' road & Trees	80		
	70	Electrical Poles, Trees & Jungle	121+430	121+500	Electrical Poles, Trees & Jungle	70		
	50	House II' road, Electrical Poles, Trees & Jungle	121+500	121+550	Electrical Poles, Coconut Trees & Jungle	50		
	70	Temple, Houses B' road & Coconut Trees	121+550	121+620	Houses D' road, Electrical Pole, Mango Trees / Jungle	70		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	60	Shops, Houses, Electrical Poles, Coconut Trees, Jungle & Culvert	121+670	121+680	Coconut Trees, 127 nod, Trees & Jungle	60		
	10	Pump set Structure & Coconut Trees 18 nod	121+680	121+700	Electrical Pole & Trees	10		
	70	Trees & Jungle	121+700	121+800	Electrical Pole	10		
	50	Transformer, Electrical Poles & Trees	121+800	121+850	Church Gate, Boundary Wall	50		
	15	Transformer, Electrical Poles 11 nod	121+930		Electrical Poles 0 nod	15		
	70	Electrical Poles, existing bridge structure & Trees	122+070		Electrical Pole & Trees	10		
		River crossing & Trees	122+030		River crossing & Trees			
			122+080		Temple, Electrical Pole, Canal & Banyan Trees	75		
	70	Electrical Pole & Trees	122+130		Trees 13 nod	70		
	15	Electrical Poles, Canal, Banana farm & Teak wood Trees	122+700		Pump set & Electrical Poles	15		
	80	Banana farm, Canal, Teak wood Trees, Transformer & Electrical Poles	122+270	122+300	Teak wood Trees, Electrical Pole & Banana farm	80		
	100	Electrical Poles, Teak wood Trees & Canal	122+300	122+400	HP Febal Bank & Electrical Poles	100		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	100	Canal Teak wood Trees	122+100	122+500	Coconut farm, Canal Teak wood Trees	100		
	100	Small structure (Entrance Arch), Teak wood Trees & canal	122+500	122+600	Teak wood Trees & Jungle	100		
	120	Teak Wood Trees, Canal & Jungle	122+700	122+820	-	-		
	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	College Boundary & Arch Structure, Lighting Posts & Canal crossings	123+000	123+150	Electrical Poles & road	150		
	70	Canal Teak wood Trees & Jungle	123+230	123+300	Transformer, Electrical Poles & road & Trees	70		
	50	Electrical Pole & line crossing, Teak wood Trees, Existing Culvert & Jungle	123+300	123+350	Electrical Poles & Trees & Jungle	50		
	180	Electrical Pole, Teak wood Trees & Jungle	123+110	123+620	Electrical Poles, Trees & Jungle	180		
	20	Teak wood Trees & Jungle	123+650		Electrical Poles, Canal, Trees & Jungle	20		
	30	Houses & road & Trees	123+700		Electrical Poles, Trees & Jungle	10		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
		Electrical Poles, Trees & Jungle	173+750		Electrical Poles, Trees & Jungle	15		
	75	Temple & Trees	173+850		Bus shelter, Godown, Overhead Tank & Electrical Pole	75		
	10	Canal crossing & Trees	173+900		Pump set & Electrical Pole	15		
	70	House, 12 nod, Electrical Pole 17 nod & Trees	173+950		Transformer, Electrical Pole 11 nod & Trees	90		
	50	Trees 110 nod & Jungle	171+100	171+150	-	-		
	-	-	171+250	171+310	Transformer, Electrical Pole 16 nod & Trees	60		
	-	-	171+550		Pump house, Electrical Pole & Trees 13 nod	30		
	70	Fencing, Electrical Pole & Trees 10 nod	171+880	171+950	Trees 117 nod & Electrical Pole	70		
	100	House, Hut 11 nod, Transformer	171+950	175+050	Electrical Pole & Fencing	100		
	50	Trees	175+050	175+100	Fencing	50		
	100	Trees 114 nod	175+100	175+200	Trees 11 nod	100		
	50	Electrical Pole 17 nod	175+300	175+350	Trees 13 nod	50		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	50	Bare well, Water tap, Electrical Pole & line crossing, Advertisement board & Trees	175+350	175+400	Electrical Pole & line crossing, Encroachment	50		
	50	Trees (10 nos) & Jungle	175+100	175+150	Advertisement board	50		
	50	House D nos, Electrical Poles & Trees	175+150	175+200	House D nos, Electrical Poles & Trees	50		
	50	House Q nos, Electrical Poles & Trees	175+200	175+250	House H nos, Electrical Poles & Trees	50		
	50	House H nos, Electrical Poles & Trees	175+250	175+300	House Q nos, Electrical Poles & Trees	50		
	50	House Q nos, Electrical Poles & Trees	175+300	175+350	Temple, water tap, bare well, House B nos, Electrical Poles & Trees	50		
	50	House Q nos, Electrical Poles & Trees	175+350	175+400	Demolished Govt building, House Q nos, Electrical Poles & Trees	50		
	100	Electrical Pole & Trees	175+400	175+500	Compound Wall	100		
	50	Houses Q nos, Electrical Poles & Trees	175+500	175+550	Houses H nos, Electrical Poles & Trees	50		
	50	Houses H nos, Electrical Poles & Trees	175+550	175+600	Houses D nos, Electrical Poles & Trees	50		
	50	Govt building, House H nos, Electrical Poles & Trees	175+600	175+650	Houses Q nos, Electrical Poles & Trees	50		
	100	House H nos, Water tap & Trees	175+650	175+700	Houses Q nos & Trees	100		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	50	Building, Hut D nad & Trees D1 nad	126+050	126+100	Temple, Houses B nad, Electrical Pole H nad & Trees I12 nad	50		
	100	Electrical Poles, Pond & Trees	126+100	126+200	House, Electrical Pole & Trees	100		
	100	Pond & Trees	126+100	126+500	Pond & Trees	100		
	100	House B nad, Electrical Poles & Line crossing & Trees	126+600	126+700	House B nad, Electrical Pole & Line crossing & Trees	100		
	100	Bus shelter, Fencing, Houses H nad, Electrical Pole & Trees I/ nad	126+700	126+800	Rice Mill, Houses H nad, Hut, Electrical Pole & Trees I13 nad	100		
	100	Houses H nad, Hand pump, Transformer & Electrical Poles	126+800	126+900	Temple, Houses H nad, Electrical Pole D nad & Trees I13 nad	100		
	100	Bus shelter, Pump house, Electrical Pole H nad & Trees I13 nad	127+000	127+000	Electrical Pole H nad, Telephone Pole, Sign board & Trees I11 nad	100		
	100	Pump house, Electrical Pole D nad, Trees D nad & Nala	127+000	127+100	Electrical Pole H nad & Trees B nad	100		
	100	Building H nad, Electrical Pole H nad, Sign boards H nad & Trees I11 nad	127+100	127+200	Pump house, Electrical Pole H nad, Transformer, Sign boards & Trees I10 nad	100		
	100	Building D nad, Electrical Pole D nad, Sign boards H nad & Trees I10 nad	127+200	127+300	Arch, Compound Wall, Electrical Pole B nad & Trees B nad	100		
	20	Electrical Pole H nad & Line crossing	127+150	127+300	Electrical Pole H nad, Sign boards D nad & Trees D nad	20		
	20	Electrical Pole B nad, Trees B nad & Nala	127+500	127+650	Electrical Pole H nad, Transformer & Trees	20		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	30	Commercial building (B nod), Electrical Pole (B nod) & Line crossing & Trees (B nod)	127+650	127+800	Building Compound Wall, Electrical Pole (B nod) & Trees (B nod)	30		
	25	Fencing	127+800	127+900	Fencing & Electrical pole	25		
	10	Trees & Electrical Pole	127+900	128+000	Compound Wall & Electrical Pole	80		
	20	Trees (B nod)	128+000	128+120	Pump house, Bare wall, Transformer & Electrical Pole (B nod)	30		
	10	Electrical Pole (I nod)	128+120	128+200	Electrical Pole (I nod)	10		
	-	-	128+200	128+300	Electrical Pole (O nod)	20		
	25	Small Temple with Gate & Trees (I nod)	128+300	128+350	Electrical Pole (O nod)	20		
	10	Tree	128+350	128+400	Electrical Pole (O nod)	20		
	15	Electrical Pole, Tree & Existing Culvert	128+400	128+500	Electrical Pole (B nod)	30		
	10	Tree	128+500	128+550	Electrical Pole (O nod)	20		
	-	-	128+550	128+600	Electrical Pole	10		
	30	Trees & Jungle	128+600	128+700	Shops (B nod) & Houses (O nod), Electrical Pole (B nod) & Trees	10		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	60	Fencing, Trees & Jungle	178+700	178+800	-	-	-	
	10	Indian Oil Petrol Bunk, Small Temple, steel pole & Trees.	178+800	178+900	Trees & Jungle	20		
	20	Under construction House, Electrical Pole 13 nod	178+900	178+950	-	-		
	50	Shops 0 nod, Transformer & Electrical Poles 0 nod	178+950	179+000	Electrical Pole & Trees	20		
	20	Electrical Pole 16 nod, Coconut farm & Jungle	179+000	179+120	Fencing, Electrical Poles 0 nod, Trees 0 nod & Jungle	20		
	30	Electrical Pole 12 nod, Street light & Steel arch	179+120	179+200	Under construction houses, Trees & Jungle	10		
	30	Electrical Pole, Trees & Jungle	179+200	179+300	Trees & Jungle	20		
	30	Trees 11 nod	179+300	179+480	Trees & Jungle	20		
	30	Houses 16 nod, Trees & jungle	179+480	179+510	Electrical Pole 11 nod, Coconut Trees 10 nod & Existing culvert	30		
	10	Houses 0 nod, Electrical Pole & Jungle	179+550	179+620	Small Temple & Jungle	10		
	30	Transformer, Electrical Poles 12 nod, Trees & Jungle	179+620	179+700	Electrical Pole & line crossing, Trees & Jungle	30		
	50	Wooden work factory, Electrical Pole 11 nod, Trees & Jungle	179+700	179+750	Banana farm, Trees & Electrical Pole	50		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	50	Trees B nod & Existing Culvert	129+800	129+850	Shops 110 nod, Entrance Arch, Coconut Trees	50		
	50	Fencing & Trees	129+850	129+900	Fencing & Teak wood Trees	50		
	50	Building, Electrical Pole, Trees H nod	129+900	129+950	Compound Wall, Electrical Pole & Trees	50		
	70	Trees H nod & Jungle	129+950	130+000	Transformer, Electrical Pole, D nod, & Jungle	70		
	70	Electrical Pole & Trees	130+000	130+170	Electrical Pole B nod, Arch & Trees	70		
	60	Houses H nod, Electrical Pole G nod, Coconut & teak wood Trees	130+170	130+200	Houses G nod, Electrical Pole, H nod & Transformer	60		
	50	Houses D nod, Electrical Pole & Trees H nod	130+200	130+250	Houses B nod, Electrical Pole, D nod & Coconut Trees	50		
	50	Houses, Fencing H nod, Electrical Pole & Trees G nod	130+250	130+300	Houses H nod, Electrical Pole, D nod & Coconut Trees	50		
	50	Shops, Electrical Pole & Trees	130+300	130+350	Compound Wall, Electrical Pole G nod & Trees	50		
	50	Houses G nod, Electrical Pole, D nod & Trees	130+350	130+400	Houses B nod, Electrical Pole, D nod & Trees	50		
	50	Houses I nod, Electrical Pole, D nod & Trees	130+400	130+450	Houses G nod, Trees & Jungle	50		
	50	Under construction building, Electrical Pole & Teak wood Trees	130+450	130+500	Fencing, Trees, Electrical Pole & Jungle	50		


Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	20	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	Shop: 16 nos, Electrical Poles 07 nos & Trees	10		
	30	House with Gate 11 nos, Electrical Pole 13 nos,	130+700	130+780	Trees, Electrical Poles & Culvert structure	30		
	10	Electrical Pole & Line crossing	130+780	130+800	Electrical Pole & Line crossing	10		
	10	Trees 110 nos, Trees & Jungle	130+800	130+900	Trees 16 nos, Electrical Pole, Trees & Jungle	10		
	20	Electrical Pole 13 nos, Existing culvert & Jungle	130+900	131+000	Arch, Existing culvert, Electrical Pole, Trees & Jungle	20		
	20	Trees 17 nos & Electrical Pole	131+000	131+100	Building 11 nos, Shop, Trees 13 nos, Electrical Pole & Trees	10		
	20	Trees 16 nos & Electrical Pole	131+100	131+200	Temple 11 nos, Trees 11 nos & Jungle	25		
	25	Hotel 11 nos & Electrical Pole 07 nos	131+200	131+300	Trees 13 nos & Electrical Pole	20		
	30	Carpenter Shop, Electrical Pole 11 nos & Jungle	131+300	131+400	Under construction building, Electrical Pole, Pump set, Trees & Jungle	30		
	10	Electrical Poles 07 nos, Teak wood Trees & Jungle	131+400	131+500	Electrical Pole, Existing culvert & Jungle	35		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	70	Fencing, Trees @ road & Jungle	131+500	131+600	Market shop-room, Electrical Pole & Line crossing @ road, Trees & Jungle	10		
	70	Fencing, Electrical Pole, @ road, Existing culvert & Jungle	131+600	131+700	Electrical Pole, Trees & Jungle	70		
	10	High mast light, Sign board, House: H @ road, Electrical Pole: @ road & Trees @ road	131+700	131+800	Advertisement board, Fencing, House: H @ road, Electrical Pole: @ road & Trees	10		
	70	House: H @ road, Over head tank, Coconut Trees & Jungle	131+800	131+970	Trees & Jungle	70		
	30	River crossing & Trees	131+970	137+000	River crossing & Trees	30		
	10	Coconut farm	137+000	137+100	Trees & Jungle	10		
	60	Banana farm & Trees @ road	137+100	137+700	Trees & Jungle	10		
	50	House: @ road, Shop @ road, & Electrical Pole	137+700	137+750	Electrical Pole, Trees & Jungle	50		
	50	Banana farm	137+750	137+300	Coconut farm	50		
	60	House, Teak wood Trees, Banana & Coconut Trees	137+300	137+100	Teak wood Trees, Banana & Coconut Trees, Electrical Pole & Jungle	60		
	10	Shop & Godown, Fencing with Gate	137+100	137+500	Teak wood Trees, Banana & Coconut Trees, Electrical Pole & Jungle	50		
	30	Teak wood Trees & Trees @ road	137+500	137+600	Compound wall, Trees @ road & Jungle	30		












Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	30	Bore well Pump set Electrical Poles (9 nos) & Line crossing & Trees	137+600	137+730	Under construction House (1 nos) Electrical Poles (1 nos) & Line crossing & Trees	30		
	75	Overhead Water Tank	137+730	137+800	Trees & Jungle	70		
	50	Trees & Jungle	137+800	137+900	Cocunut farm, Electrical Pole (1 nos), Teak wood Trees & Jungle	50		
	100	Banana farm, Pump set & Trees	137+900	132+000	Pump set Banana farm, Electrical Poles (1 nos) & Line crossing & Cocunut Trees	100		
	100	Motor garage shop, Electrical Pole (1 nos) & Banana farm	133+000	133+100	Cocunut Trees, Existing culvert & Jungle	100		
	15	Temple, Hand pump, 1 nos. of buildings, Electrical Poles (1 nos) & Trees	133+100	133+115	Electrical Poles (1 nos) & line crossing & Trees	70		
	50	High mast light 3 nos. of buildings, Electrical Poles (1 nos) & Trees	133+150	133+200	Houses (3 nos), Street lighting pole, Electrical Poles (1 nos) & Trees	50		
	10	Houses (3 nos), Mango & Cocunut Trees & Electrical Pole (1 nos)	133+200	133+280	Trees (6 nos) & Jungle	10		
	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 (1 nos)	133+400	133+500	Trees, Existing culvert & Jungle	30		
	60	Hotel (1 nos), Electrical Poles (1 nos) & Trees	133+500	133+600	School compound wall Fencing & Trees (17 nos)	50		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	30	Houses 07 nos, Electrical Pole 11 nos, School compound wall fencing	133+600	133+700	Compound wall Transformer, Electrical Poles 07 nos, Arch & Trees 110 nos	60		
	10	Compound Wall Electrical Pole, Trees & Jungle	133+700	133+750	House 11 nos, Pond, Compound wall building & Electrical Poles & Trees	10		
	30	House, Electrical Pole, Trees & Jungle	133+750	133+800	House, Electrical Poles & Trees	30		
	50	Houses 13 nos, Trees & Jungle	133+800	133+900	House 11 nos, Electrical Pole 13 nos, Trees & Jungle	10		
	30	Sign boards, Houses 07 nos, Building Electrical Pole 07 nos	133+900	133+950	Shops, lighting Poles 07 nos & Electrical Pole 07 nos	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	-	Mayanem	10		
	30	House & Trees	134+080	-	House & Trees	30		Encroachment
	10	Electrical Pole	134+100	-	Tree	10		
	10	Electrical Pole	134+120	-	-	-		
	10	Electrical Pole	134+200	-	-	-		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	10	Electrical Pole	131+780	-	-	-		
	10	Electrical Pole	131+300	-	House	30		
	30	Pond & Trees	131+350	-	Electrical Pole	10		
	-	Railway Crossing	131+380	-	Railway Crossing	-		FOB @ CH. 131+315
	10	Electrical Pole & Line Crossing & Pump house	131+700	-	Standing Crop	100		
	70	Regulator & Trees	131+710	-	-	-		Water regulator close 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+700	-	Electrical Pole & Line Crossing	10		
	10	HT Tower & Banana Farm	135+100	-	Banana Farm & Trees	10		
	10	Electrical Pole	135+110	-	Electrical Pole	10		
	70	Electrical Pole & Trees	135+550	-	Wall & Trees	70		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	10	Electrical Pole & Line Crossing	135+600		Electrical Pole & Line Crossing	10		
	10	Electrical Pole & Line Crossing	135+750		Electrical Pole & Line Crossing	10		
	50	Coconut trees	135+800		Coconut trees	50		
	50	Electrical Pole & Line Crossing, Standing Crop & Trees	135+900		Electrical Pole & Line Crossing	50		
	10	Electrical Pole & Line Crossing	136+100		Electrical Pole & Line Crossing	10		
	100	Coconut farm & Electrical Pole	136+150	136+250	Coconut farm & Electrical Pole	100		
	10	Flood crossing, Electrical pole & Trees	136+300		Pathway from Swaminimalai Road	10		VUP @ CH: 136+282

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	50	Coconut farm	136+150		House & Coconut farm	50		
	90	Coconut farm & Vegetable farm	136+550	136+640	Houses / road & Coconut farm	90		
	70	Coconut farm	136+670	136+680	Canal crossing & Trees	70		
	10	Coconut farm & Vegetable farm	136+660	136+ /00	Electrical Tower & Vegetable farm	10		
	70	Jungle & Trees	136+ /00	136+ / /0	Jungle & Trees	70		
	30	Jungle & Trees	136+900	136+930	Jungle & Trees	30		
	10	Electrical Pole & Line crossing	13 /4-010		Electrical Pole & Line crossing	10		
	70	Road crossing & Electrical pole	13 /4-100		House & Trees	70		
	10	-	13 /4-150		Electrical Pole	10		
	70	Fish Pond & Trees	13 /4-180	13 /4-250	Fish Pond & Trees	70		
	10	Electrical Pole	13 /4-250		-	-		
	100	Fish Pond	13 /4-300	13 /4-400	Fish Pond & Trees / /0 road	100		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	150	Standing Crop, Teak wood Trees & Electrical Pole	13/+100	13/+350	Standing Crop & Teak wood Trees & Electrical Pole	150		
	70	Standing crop, Transformer, Electrical Pole & Trees	13/+550	13/+670	Standing crop, Road crossing if Patten/warum to Sundarapuram kottai & Trees	70		
	80	Coconut farm	13/+670	13/+700	Standing crop & Electrical Pole	80		
	50	Coconut farm	13/+700	13/+750	Coconut farm	50		
	10	Electrical Pole & Line Crossing	13/+850		Electrical Pole & Line Crossing	10		
	10	Electrical Pole	13/+900		Electrical Pole	10		
	50	Mango farm & Flower Garden	138+050	138+100	Mango farm & Flower Garden	50		
	100	Pump set Mango farm & Teak Wood Trees	138+100	138+200	Mango farm & Teak Wood Trees	100		
	10	Pump set & Trees	138+200	138+210	Trees	10		
	60	Pump set Banana farm, Coconut farm & Teak wood Trees	138+210	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		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	50	Fish pond, Banana farm & Trees	138+670	138+670	Pump set Fish pond, Banana farm & Trees	50		
	10	Electrical Pole & Line Crossing & Trees	138+680		Electrical Pole & Line Crossing & Trees	10		
	70	Road Crossing, Trees & EB Pole	138+730		Pathway from Papanasam Road, Trees	70		
	70	Coconut farm, Electrical Pole & Trees	138+730	138+750	Coconut farm, Electrical Pole & Trees	70		
	50	Houses / road, Trees & Electrical Poles	138+750	138+800	Coconut farm, Banana farm & Teak wood Trees	50		
	100	River crossing & Trees	138+850	138+970	River crossing & Trees	100		Minor bridge @ CH: 138.901
	60	Trees & Cultivation	138+970	138+960	Wall & Trees	60		
	90	Coconut Trees	138+960	139+050	Coconut Trees	90		
	100	Coconut Trees	139+050	139+150	Coconut Trees	100		
	100	Coconut Trees & Banana Trees	139+150	139+250	Coconut Trees & Banana Trees	100		
	30	River crossing & Trees	139+250	139+280	River crossing & Trees	30		
	170	Coconut Trees & Banana Trees	139+280	139+400	Coconut Trees & Banana Trees	170		







Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	20	Electrical Poles & Line Crossing, Road crossing & Trees	139+150		Electrical Poles & Line Crossing, Road crossing & Trees	20		
	30		139+160		Pump, Pump house & Bore Well	30		
	10	Coconut Trees	139+650		Coconut Trees	10		
	10	Electrical Pole & Line Crossing	139+680		Electrical Pole & Line Crossing	10		
	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	110+790		Electrical Pole & Line Crossing	10		
	10	Electrical Pole	110+870					
	20	Canal Crossing & Trees	110+860		Canal Crossing & Trees	20		
	20	Small Temple	110+900		EB Pole & Line Crossing	20		
	15	Road crossing & Trees	111+100		Nallur to Avure Road	15		
	90	Standing Crop	111+130	111+220	EB Pole & Line Crossing	90		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	100	Coconut Trees & Electrical pole	111+300	111+400	Coconut Trees & Electrical pole	100		
	-	Electrical Pole & Line Crossing & Trees	111+330		Electrical Pole & Line Crossing & Trees	-		
	30	Road crossing & Trees	111+550		-	-		
	30	Coconut trees	111+650		-	-		
	10	Electrical Pole & Line Crossing	111+710		Electrical Pole & Line Crossing	10		
	10	Electrical Pole & Line Crossing	111+760		Electrical Pole & Line Crossing	10		
	20	Jungle & Trees	111+900		Jungle & Trees	20		
	10	Electrical Pole & Line Crossing	111+900		Electrical Pole & Line Crossing	10		
	-	Road crossing	112+000		Kothichery to Kalocheery	-		
	20	Bore well Pump house & Trees	112+260		EB Pole & Line Crossing	10		
	120	Coconut Trees	112+300	112+420	Coconut Trees	120		
	20	Bore Well	112+500		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				
	80	Bamboo, Mangotrees & Sugarcane farm	112+50/0	112+650	Bamboo, Mangotrees & Sugarcane farm	80		
	-	-	112+6/0		Pump set & Trees	20		
	20	High Tension Tower	112+850		-	-		
	10	Bare Wall	112+850		-	-		
	-	-	113+100		High Tension Tower	20		
	30	River crossing & Trees	113+115		River crossing & Trees	30		
	30	Trees & Jungle	113+200		Trees & Jungle	30		
	10	Pump set & Bamboo trees	113+300		Bamboo trees	10		
	20	Trees	113+500		Trees	20		
	20	Trees	113+550		Trees	20		
	10	Trees	113+600		Trees	10		
	50	Onion Farm	113+550	113+600	Onion Farm	50		













Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	20	EB Pole & Trees	113+600		EB Pole & Trees	20		
	200	Coconut Trees	113+600	113+800	Coconut Trees	200		
			113+850		Electrical Pole & Line Crossing & Trees	15		
	30	River crossing & Trees	111+050		River crossing & Trees	30		
	200	Jungle, Bamboo Trees	111+100	111+300	Jungle, Bamboo Trees	200		
	10	Trees	111+330		Trees	10		
	15	Bare Wall & Tree	111+150		-	-		
	50	Teak wood trees	111+750		Teak wood trees	50		
	15	Trees	115+100		Trees	15		
	10	Tree	115+100		-	-		
	20	Temple	115+500		-	-		
			115+570		Pump Set & Electrical Pole	20		













Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	-	-	115+670		Trees	70		
	70	Coconut Trees	115+850		Coconut Trees	70		
	10	Electrical Pole & Line Crossing	116+000		Electrical Pole & Line Crossing	10		
	70	Pump set	116+050		Electrical Pole & Line Crossing	10		
	10	Electrical Pole & Line Crossing	116+070		Trees	10		
	70	Pump set & Trees	116+130		Electrical Pole & Line Crossing	10		
	10	Electrical Pole	116+700		-	-		
	70	Trees & Electrical Pole	116+300		Trees & Electrical Pole	70		
	70	Trees	116+550		Trees	70		
	-	River Crossing	116+630		River Crossing	-		
	70	Electrical Pole & Line Crossing	116+700	116+770	Electrical Pole & Line Crossing & Trees	70		


















Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	10	Nala Crossing Trees & Electrical Pole	116+780		Nala Crossing Trees & Electrical Pole	10		
	70	Pump set River Crossing Trees & Electrical Pole	116+830		River Crossing Trees & Electrical Pole	70		
	70	Pump set	116+900		Trees & EB Pole	70		
	30	Nala Crossing & Trees	116+900		Nala Crossing & Trees	30		
	80	Standing Crop	116+980		Pump set & Standing Crop	80		
	15	Pump set	117+050		-	-		
	10	Coconut Trees & Banana Trees	117+100		High Tension Tower	10		
	50	Banana Trees	117+170	117+170	Pump set	50		
	-	-	117+200		Bore well & trees	15		
	70	High Tension Tower	117+330		-	-		
	70	Bore well & Pump house	117+380		-	-		
	30	Nala Crossing & Trees	117+370	117+400	House	30		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	-	-	117+110	117+150	Houses, Trees & Electrical Line	10		
	70	Teak wood trees	117+570		Teak wood trees	70		
	30	Trees	117+850		Trees	30		
	30	Electrical Pole & Line Crossing	117+880		Electrical Pole & Line Crossing	30		
	70	Food Crossing, Trees & EB Pole	117+900		Food Crossing, Trees & EB Pole	70		
	120	Banana Farm & Nala crossing	117+900	118+020	Trees & EB Pole & Nala crossing	120		
	70	Canal Crossing & Trees	118+050		Canal Crossing & Trees	70		
	200	Mango Farm	118+100	118+300	Mango Farm	200		
	250	Banana Farm, Pump set & EB Pole	118+300	118+550	Banana Farm, Pump set & EB Pole	250		
	15	Coconut trees (12' nod)	118+600		Coconut trees (8' nod)	15		
	10	EB Electrical Pole	118+700		Trees (8' nod)	70		
	70	Trees (17' nod) & Pump set	119+000		EB 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	EB Pole & trees 15 nod	119+100		Pump set & EB Pole	20		
	10	EB Electrical Pole	119+150		EB Electrical Pole	10		
	10	EB Electrical Pole	119+200		-	-		
	10	River crossing	119+300		Trees 11 nod	10		
	20	River crossing	119+100		Trees 12 nod	20		
	20	Pump set	119+900		Pump set & Electrical Pole	20		
	10	EB Pole & Line crossing	119+980		Pump set EB Pole & Line Crossing & Trees 11 nod	20		
	10	EB Pole & Line crossing	150+150		EB Pole & Line crossing	10		
	10	EB Pole & Line crossing	150+210		Trees 12 nod	10		
	10	Trees 13 nod	150+210	150+300	Trees 12 nod & Pump set	10		
	10	EB Pole & Line crossing	150+160		EB Pole & Line crossing	10		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	50	Jungle	150+550		-	-	-	
	70	Pump house	150+610		EB Pole & Line crossing & Trees @ nod	10	-	
	70	River Crossing Trees & EB Pole	150+780		Regulator & trees	70		
	70	Jungle	150+900		Tree	70	-	
	10	EB Pole & Line crossing & Trees @ nod	151+000		EB Pole & Line crossing & Trees @ nod	10	-	
	50	Tree @ nod & Nala crossing	151+050	151+100	Tree @ nod & Nala crossing	50		
	100	Jungle & Trees	151+100	151+200	Jungle & Trees	100	-	
	-	Next crop planted	151+200		Pump set & Trees @ nod	15		
	50	Jungle & Trees @ nod	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 @ nod & Trees @/ nod	-		












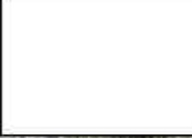












Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	20	Pump set & Electrical Pole & line crossing	151+650		Electrical Pole	20		
	10	Electrical Pole	151+830		-	-		
	15	Trees	151+850		Trees	15		
	-	-	151+930		Pump set & Trees (Road)	20		
	10	Electrical Pole	152+070		Electrical Pole	10		
	10	Electrical Pole	152+100		Electrical Pole	10		
	-	-	152+150		Jungle	20		
	-	Road Crossing Trees & EB Pole	152+250		Sulamangalam to Palacaludi	-		
	100	Cocunut Farm & Banyan trees	152+100	152+500	Cocunut Farm & Banyan trees	100		
	-	Pump set well & Electrical Pole	152+130		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		


Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	20	Canal Crossing & Trees	152+900		Canal Crossing & Trees	20		
			153+000		Trees (15 nod)	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		
	60	Electrical Poles & Trees (11 nod)	153+630		Electrical Poles & Trees (11 nod)	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		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	60	Jungle & Trees	151+530	151+590	Jungle & Trees	60		
	10	Houses & nod. Electrical pole & Trees	151+590	151+630	Houses & nod. Electrical pole & Trees	10		
	170	Bamboo trees & trees & Canal crossing	151+630	151+750	Bamboo trees & trees & Canal crossing	170		
	10	Electrical Pole	151+650		Electrical Pole & Trees	15		
	90	Houses & nod & Trees	151+680	151+770	Bamboo trees	90		
	110	Coconut Farm	151+770	151+880	Coconut Farm & Trees	110		
	70	Canal Crossing & Trees	151+880	151+950	Canal Crossing & Trees	70		
	130	Coconut Farm, River crossing & Electrical poles	155+950	155+080	Coconut Farm, River crossing & Electrical poles	130		
	10	Jungle & Trees & nod & Next crop planted due to dispute in compensation.	155+080	155+170	Jungle & Trees & nod & Next crop planted due to dispute in compensation.	10		
	80	Bore well & Pump house & Electrical Poles & Next crop planted due to dispute in compensation.	155+170	155+200	Electrical pole & Trees & Next crop planted due to dispute in compensation.	80		
	80	Electrical Pole & Next crop planted due to dispute in compensation.	155+200	155+280	Next crop planted due to dispute in compensation.	80		
	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		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	120	Coconut trees & road & Next crop planted due to dispute in compensation.	155+380	155+500	Bore well & Electrical Pole & Next 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	Foal crossing	10		
	20	Next crop planted due to dispute in compensation.	155+775		Pump room	20		
	20	Water tank & Trees	155+800		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+270	156+400	Canal crossing & trees	130		
	10	Pump set, Electrical Pole & Trees	156+380	156+390	Jungle, Electrical Pole & Trees	10		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	20	Electrical Pole	156+170	156+190	Tree - road trees	20		
	30	Kalam	156+140	156+170	Jungle, Electrical Pole & Trees	30		
	10	Road Crossing Trees & EB Pole	156+170	156+180	Kandamattandal & Perumalloor	10		
	70	Road Crossing Trees & EB Pole	156+180	156+250	Kandamattandal & Perumalloor	70		
	50	River crossing & Trees	156+250	156+300	River crossing & Trees	50		
	50	Jungle	156+300		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		Cocunutrees	80		
	60	Fish Pond, Water storage tank & Trees	157+100		Fish Pond, Water storage tank & Trees	60		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	50	Foad crossing Electrical pole & Trees	15/+150		Manalurembalfo Thirukaranaler	50		
	30	Nala Crossing Electrical Pole & Trees	15/+155		Nala Crossing & Trees	30		
			15/+330		Jungle & Trees (I nod)	25		
	30	Jungle & Trees	15/+160		Jungle & Trees	30		
	50	Fish Pond, Electrical pole & Coconut trees	15/+160	15/+510	Fish Pond, Electrical pole & Coconut trees	50		
	10	Wall, Electrical Pole & Trees	15/+510		Wall, Electrical Pole & Trees	10		
	60	Fish pond & Coconut trees (15 nod)	15/+70	15/+780	Trees (00 nod)	60		
	70	Fish pond	15/+780	15/+850	Fish pond	70		
	70	Fish pond & Coconut trees	15/+850	15/+920	Fish pond & Coconut trees	70		
	60	Electrical Pole, Jungle & Trees	15/+920	15/+980	Electrical Pole, Jungle & Trees	60		
	70	Next crop planted due to dispute in compensation, Electrical pole & Trees	15/+980	158+050	Next crop planted due to dispute in compensation, Electrical pole & Trees	70		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	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		
	70	High Tension Tower.	158+850		-	-		
	10	Canal crossing. Jungle & Trees.	159+080	159+170	Canal crossing. Jungle & Trees.	10		
	10	Canal crossing. Jungle & Trees.	159+170	159+180	Canal crossing. Jungle & Trees.	10		
	10	Jungle.	159+300		Jungle.	10.		
	10	Trees & Electrical Pole.	159+100		Pump set. Bore well & Trees.	70		
	10	Electrical Pole.	159+150		Electrical Pole.	10		
	70	Canal crossing. Jungle & Trees.	159+510		Canal crossing. Jungle & Trees.	10		
	70	Electrical Pole & line crossing.	159+580		House & Trees.	70.		
	90	Trees. Jungle & Electrical Pole.	159+610	159+700	Trees. Jungle & Electrical Pole.	90		



















Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	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					
	10	Trees & Jungle	160+080	160+170	Trees, Jungle & Electrical Pole	10		
	10	House	160+170	160+160	House 16 nos, Water Tank & Trees	10		
	20	House, Trees, 02 nos, Electrical pole & line crossing	160+160	160+180	Coconut Trees	20		
	10	House & Hut	160+180	160+270	Standing Crop	10		
	10	Electrical Poles	160+280		-	-		
	30	Coconut Trees (16 nos)	160+330		Next crop planted due to dispute in compensation & Electrical Pole	80		
	10	Well Pump set, Electrical Pole & Trees	160+510		Next crop planted due to dispute in compensation.	100		
	10	Pump house, Electrical Pole & trees	160+670		Small structure, Electrical Pole & trees	10		


















Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	70	Canal crossing Jungle, Trees & Electrical Pole	160+710	160+780	Canal crossing Jungle, Trees & Electrical Pole	70		
	50	Temple, Electrical Pole Trees & Jungle	160+780		Temple & Electrical Pole	50		
	70	Bore well, Trees (16 road), Electrical Pole	160+950	161+020	Trees & Electrical Pole	70		
	60	River crossing & Trees	161+070	161+080	River crossing & Trees	60		
	30	Jungle, Trees & Mud Road crossing	161+080	161+110	Jungle, Trees & Mud Road crossing	30		
	10	Bore well & Pump set	161+110	161+150	Electrical Pole	10		
	70	Canal crossing, Jungle & Trees	161+200	161+270	Canal crossing, Jungle & Trees	70		
	10	Electrical Pole, Jungle & Trees	161+270		Electrical Pole, Jungle & Trees	10		
	10	Electrical Pole, Jungle & Trees	161+250	161+300	Electrical Pole, Jungle & Trees	50		
	30	Pump room, Electrical pole	161+350		Trees & Jungle	30		
	10	Jungle & Trees	161+600		Jungle & Trees	10		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	50	Jungle & Trees	161+700		Jungle & Trees	50		
	10	Pump set Electrical Pole & Trees	161+800		Electrical Pole & Trees	10		
	70	Jungle & Trees	161+870	162+000	Jungle & Trees	70		
	100	Standing Crop, Electrical Poles & Road crossing	162+000	162+100	Standing Crop, Electrical Poles & Road crossing	100		
	50	Standing Crop, Electrical Poles & Trees & Pond	162+100	162+150	Pump set Standing Crop, Electrical Poles & Trees & Pond	50		
	100	Canal crossing, Electrical Poles	162+150	162+250	House, Trees & mod. Bare wall & Pump Set	100		
	10	Jungle & Trees	162+250		Jungle & Trees	10		
	80	Wall, Pond & Trees	162+350		Pond & Trees	80		
	70	Electrical Pole, Jungle & Trees	162+400		Electrical Pole, Jungle & Trees	70		
	60	Trees & mod	162+570	162+630	Electrical Pole & mod, Jungle & Trees	60		
	70	River crossing, Jungle & Trees	162+630	162+700	River crossing, Fencing, Jungle & Trees	70		
	30	Temple & mod, Trees & Jungle	162+750	162+780	Trees & Jungle	30		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	60	Jungle Trees & Mud Food crossing	162+850	162+910	Jungle Trees & Mud Food crossing	60		
	10	Electrical Pole, Jungle Trees & Food crossing	163+500	163+550	House, Trees & Electrical Pole	50		
	10	House, Electrical pole, Food Crossing & Trees	163+580	163+670	Electrical pole, Food Crossing & Trees	10		
			163+670	163+650	Houses / road, Electrical pole, Food Crossing & Trees	30		
	100	River crossing, Jungle & Trees	163+700	164+100	River crossing, Jungle & Trees	100		
	70	High mast light, Electrical Pole	164+180	164+250	High mast light, Electrical Pole	70		
	75	Shops / road, Trees / road	164+250	164+775	Trees / road	75		
Total Hindrance on LHS in M	70885					71105	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	3.3	15.915	

2.4. Tree felling

Table 2.4-1: Status of Tree felling

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

3.1. Pre-Construction Activities

Detailed Design & Drawings

The Plan and Profile, as well as the Pavement Designs for the entire 47.835 km project length has been completed and reviewed by the Independent Engineer (IE). Construction Methodology, QA & QC procedures submitted to the IE has been reviewed and accepted.

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

Sl No.	Description	Unit	Total Scope as per Sch.B 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	13	-
3	Grade Separated Intersection	No	06	6	-
4	VUP/PUP	No	12	12	-
5	Box /Slab Culvert	No	103	80	-
6	ROB	No	01	0	GAD approved

4. Physical Progress of Work

4.1. Physical Progress of Work

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

Table 3.1 - Physical Progress of Works

Item	Setting for measurement of Physical Progress	Weightage of Total Project Work	Unit	Total Scope	As on 31.10.2018	
					Qty.	Physical Progress (%)
B/RUB/ Road works including culverts, minor bridges, underpasses, overpasses, approaches RO/B/RUB/ Major Bridge/ Structures for existing service roads.	A. Widening and strengthening of existing road					
	(A) Earthwork up to top of the sub-grade					
	(a) Cleaning & Grubbing/ Jungle Clearance	1.38%	Em	24.81	7.00	0.30%
	(B) Earthwork up to Embankment Top	0.17%	Em	18.87	0	0.00%
	(C) Earthwork up to Subgrade Top	0.17%	Em	18.87	0	0.00%
	(B) Earthwork Filling in PE Wall Approach up to Sub Grade Top	7.29%	Sqm	1151.87	0.00	0.00%
	(D) Granular work (sub-base, base, shoulders)					
	(a) GSB/ Cement Treated Base	1.10%	Em	24.81	0.00	0.00%
	(b) WMM/ Cement Treated Base	7.19%	Em	24.81	0.00	0.00%
	(D) Shoulders	0.07%	Em	18.87	0.00	0.00%
	(E) Bituminous work					
	(a) DBM	7.58%	Em	24.81	0.00	0.00%
	(b) BC	1.73%	Em	24.81	0.00	0.00%
	(b) Paved Pavement					
	(a) Widening and repair of culverts					
	(a) Pipe Culvert (Wid.)					
	(i) PCC	0.01%	No.	30	0	0.00%
	(ii) RIFE Laying	0.14%	No.	30	0	0.00%
	(iii) Head Wall	0.01%	No.	30	0	0.00%
	(iv) Protection Work	0.01%	No.	30	0	0.00%
	(b) Box Culvert/ Slab Culvert Wid.					
	(i) PCC	0.01%	No.	30	0	0.00%
	(ii) Path/ Foundation	0.01%	No.	30	1	0.00%
	(iii) Wall/ Substructure	0.04%	No.	30	0	0.00%
	(iv) Slab	0.01%	No.	30	0	0.00%
	(v) Protection Work	0.01%	No.	30	0	0.00%
	(A) Widening and repair of minor bridges					
	(a) Minor Bridge (Box Type)- Wid.					
	(i) PCC	0.01%	No.	1	0	0.00%
	(ii) Path	0.01%	No.	1	0	0.00%
	(iii) Wall	0.01%	No.	1	0	0.00%
	(iv) Slab	0.01%	No.	1	0	0.00%
	(v) Protection Work	0.01%	No.	1	0	0.00%
	(b) Minor Bridge (Deck Type)- Wid.					
	(i) Pile					
	(ii) Pile Cap					
	(iii) PCC	0.01%	No.	1		
	(iv) Open Foundation	0.01%	No.	1		
	(v) Abutment/ Pier Wall	0.05%	No.	1		
	(vi) Abutment/ Pier Cap	0.04%	No.	1		
	(vii) Girder Casting	0.01%	No.	18		
	(viii) Girder Launching	0.01%	No.	18		
	(ix) Slab	0.05%	No.	0		
	(x) Misc	0.01%	No.	1		
	B. New realignment bypass					
	(A) Earthwork up to top of the sub-grade					
	(a) Cleaning & Grubbing/ Jungle Clearance	7.84%	Em	41.81	30.73	1.35%
	(B) Earthwork up to Embankment Top	0.59%	Em	41.81	0.00	0.00%
	(C) Earthwork up to Subgrade Top	1.97%	Em	41.81	0.00	0.00%
	(B) Earthwork Filling in PE Wall Approach up to Sub Grade Top	1.86%	Sqm	11731.713	0.00	0.00%
	(D) Granular work (sub-base, base, shoulders)					
	(a) GSB/ Cement Treated Base	1.83%	Em	41.81	0.00	0.00%
	(b) WMM/ Cement Treated Base	1.34%	Em	41.81	0.00	0.00%
(D) Shoulders	0.04%	Em	17.88	0.00	0.00%	
(E) Bituminous work						
(a) DBM	1.03%	Em	41.81	0.00	0.00%	
(b) BC	1.84%	Em	41.81	0.00	0.00%	
C. New culverts, minor bridges, underpasses, overpasses, on existing road, realignments, bypasses:						
(A) Culverts						
(a) Pipe Culvert New/ Reconstruction						
(i) PCC	0.01%	No.	77	0	0.00%	
(ii) Pipe Laying	0.16%	No.	77	0	0.00%	
(iii) Head Wall	0.01%	No.	77	0	0.00%	
(iv) Protection Work	0.01%	No.	77	0	0.00%	
(b) Box Culvert/ Slab Culvert New/ Reconstruction						
(i) PCC	0.13%	No.	118	7	0.03%	
(ii) Path	0.21%	No.	118	1	0.00%	
(iii) Wall	0.93%	No.	118	0	0.00%	
(iv) Slab	0.09%	No.	118	0	0.00%	
(v) Protection Work	0.08%	No.	118	0	0.00%	
(A) Minor bridges						
(a) Minor Bridge (Box Type)- New						
(i) PCC	0.41%	No.	88	0	0.00%	
(ii) Path	0.91%	No.	88	0	0.00%	
(iii) Wall	7.73%	No.	88	0	0.00%	
(iv) Slab	0.91%	No.	88	0	0.00%	
(v) Protection Work	0.71%	No.	88	0	0.00%	
(b) Minor Bridge (Deck Type)- New						
(i) Pile	0.00%	No.	0	0	0.00%	
(ii) Pile Cap	0.00%	No.	0	0	0.00%	
(iii) PCC	0.15%	No.	88	0	0.00%	
(iv) Open Foundation	0.29%	No.	88	0	0.00%	
(v) Abutment/ Pier Wall	1.18%	No.	88	0	0.00%	
(vi) Abutment/ Pier Cap	0.83%	No.	88	0	0.00%	
(vii) Girder Casting	0.33%	No.	188	0	0.00%	
(viii) Girder Launching	0.14%	No.	188	0	0.00%	

Item	Setting for measurement of Physical Progress	Weightage of Total Project Work	Unit	Total Scope	As on 31.10.2018	
					Qty.	Physical Progress (%)
Road works including sub-sets, minor bridges, underpasses, overpasses, approaches to PO (Major Bridges) Structures (not including service road)	(i) Slab	0.10%	No.	57	0	0.00%
	(ii) Misc	0.28%	No.	11	0	0.00%
	(B) Cattle/Pedestrian underpasses					
	(i) PCC	0.00%	No.	1	0	0.00%
	(ii) Path	0.01%	No.	1	0	0.00%
	(iii) Wall	0.08%	No.	1	0	0.00%
	(iv) Slab	0.01%	No.	1	0	0.00%
	(v) Protection Wall	0.07%	No.	1	0	0.00%
	(b) Grade separated structures					
	(i) Underpass					
	(ii) Pile	0.58%	No.	168	0	0.00%
	(iii) Pile Cap	0.27%	No.	48	0	0.00%
	(iii) PCC	0.03%	No.	48	0	0.00%
	(iv) Open Foundation	0.00%	No.			
	(v) Abutment Pier	0.01%	No.	48	0	0.00%
	(vi) Abutment Pier Cap	0.35%	No.	48	0	0.00%
	(vii) Girder Casting	0.11%	No.	100	0	0.00%
	(viii) Girder Launching	0.19%	No.	100	0	0.00%
	(ix) Slab	0.37%	No.	50	0	0.00%
	(x) Misc	0.15%	No.	18	0	0.00%
	(ii) Overpass					
	(a) Flyover					
	(i) Pile	0.35%	No.	96	0	0.00%
	(ii) Pile Cap	0.16%	No.	74	0	0.00%
	(iii) PCC	0.07%	No.	74	0	0.00%
	(iv) Open Foundation	0.00%	No.			
	(v) Abutment Pier	0.05%	No.	74	0	0.00%
	(vi) Abutment Pier Cap	0.21%	No.	74	0	0.00%
	(vii) Girder Casting	0.37%	No.	60	0	0.00%
	(viii) Girder Launching	0.16%	No.	60	0	0.00%
	(ix) Slab	0.35%	No.	17	0	0.00%
	(x) Misc	0.17%	No.	6	0	0.00%
	(ii) Foot over Bridge					
	(i) Non Major Bridges					
	(i) Pile	7.00%	No.	168	0	0.00%
	(ii) Pile Cap	0.91%	No.	76	0	0.00%
	(iii) PCC	0.06%	No.	76	0	0.00%
	(iv) Open Foundation	0.00%	No.			
	(v) Abutment Pier	0.96%	No.	76	0	0.00%
(vi) Abutment Pier Cap	1.07%	No.	76	0	0.00%	
(vii) Girder Casting	0.59%	No.	730	0	0.00%	
(viii) Girder Launching	0.75%	No.	730	0	0.00%	
(ix) Slab	0.77%	No.	67	0	0.00%	
(x) Misc	0.31%	No.	7	0	0.00%	
D. New rail-road bridges						
(a) POE						
(i) Pile	0.15%	No.	48	0	0.00%	
(ii) Pile Cap	0.04%	No.	8	0	0.00%	
(iii) PCC	0.00%	No.	8	0	0.00%	
(iv) Open Foundation	0.00%	No.	8	0	0.00%	
(v) Abutment Pier	0.06%	No.	8	0	0.00%	
(vi) Abutment Pier Cap	0.11%	No.	8	0	0.00%	
(vii) Girder Casting	0.73%	No.	39	0	0.00%	
(viii) Girder Launching	0.31%	No.	39	0	0.00%	
(ix) Slab	0.08%	No.	6	0	0.00%	
(x) Misc	0.03%	No.	1	0	0.00%	
(ii) RUB						
(H) Reinforced work (all includes Approaches of POE, Underpasses, Overpasses, Flyover etc)						
(a) Casting of RG Wall Facia	7.56%	Sqm	17916*00	0.00	0.00%	
(b) Erection of RG Wall Facia	3.76%	Sqm	17916*00	0.00	0.00%	
(I) Service roads/ Slip Ponds						
(a) Earthwork up to Subgrade Top	0.51%	Sqm	782758	0	0.00%	
(B) Granular work (sub-base, base, shoulders)						
(a) GSB/ Cement Treated Base	0.93%	Sqm	782758	0	0.00%	
(b) WMM/ Cement Treated Base	1.08%	Sqm	782758	0	0.00%	
(C) Bituminous work						
(a) DBM/ Aggregate Layer	0.77%	Sqm	782758	0	0.00%	
(b) BC/ SDSC	0.59%	Sqm	782758	0	0.00%	
(ii) Tilt Plaza						
(a) Earthwork up to SGT	0.17%	Sqm	21100	0	0.00%	
(b) Pavement Work	0.67%	Sqm	74173	0	0.00%	
(c) Drain work with footpath	0.01%	Foot	366	0	0.00%	
(d) Tilt Building	0.10%	No.	1	0	0.00%	
(e) Tilt Booth	0.01%	No.	11	0	0.00%	
(f) Tilt Canopy	0.11%	Sqm	1167	0	0.00%	
(g) Tilt Fencing	0.00%	Foot	1700	0	0.00%	
(h) Tilt Tunnel	0.08%	Foot	64	0	0.00%	
(i) Tilt System	0.67%	LS	1	0	0.00%	
(j) Electrical Work	0.01%	LS	1	0	0.00%	
(k) Sign board & Other Ho. Work	0.01%	LS	1	0	0.00%	
(l) Medical Aid Post	0.05%	No.	1	0	0.00%	
(m) Traffic Aid Post	0.00%	No.	1	0	0.00%	
(iii) Road side drains						
(a) PCC	0.14%	Em	7730	0.00	0.00%	
(b) Path	0.51%	Em	7730	0.00	0.00%	
(c) Wall	0.56%	Em	7730	0.00	0.00%	
(d) Slab	0.35%	Em	7730	0.00	0.00%	

Item	Setting for measurement of Physical Progress	Weightage of Total Project Work	Unit	Total Scope	As on 31.10.2018	
					Qty.	Physical Progress (%)
Other works	(i) Road signs, markings, Im stones, safety devices,					
	(a) Road signs, markings, Im stones,		Em			
	(i) Road Signs except Toll Plac	0.14%	Em	25.87	0.00	0.00%
	(ii) Road Marking	0.16%	Em	25.87	0.00	0.00%
	(ii) Im., Hechtmeter, s/b Im. Stone & POW Boundary, etc.	0.01%	Em	25.87	0.00	0.00%
	(ii) Pedestrian Guard Rail	0.27%	Foot	17,480.00	0.00	0.00%
	(ii) Fank	0.08%	Em	25.87	0.00	0.00%
	(ii) Electrical Work (Street Lighting)	0.11%	Em	25.87	0.00	0.00%
	(ii) Concrete Crash Barrier/W-Beam Crash Barrier in Road work		Em			
	(ii) W-Beam Crash Barrier (WCB)	0.70%	Em	35.59	0.00	0.00%
	(ii) Concrete Friction Slab Crash Barrier	1.23%	Em	12.55	0.00	0.00%
	(ii) Project facilities					
	(i) Bus Bays	0.01%	No.	5.00	0.00	0.00%
	(ii) Foot Area	0.22%	Sqm	816.00		
	(iii) Road side plantation		Em			
	(a) Median Plantation	0.19%	Em	11.79	0.00	0.00%
	(a) Avenue (near POW) Plantation	0.10%	Em	27.20	0.00	0.00%
	(iii) Protection works					
	(a) Boulder pitching on slopes	0.14%	Em	5.27	0.00	0.00%
	(ii) Miscellaneous					
	(a) Division	0.08%	Lumpsum	1.00	0.00	0.00%
	(b) Pain after lowering	0.07%	No.	75.00	0.00	0.00%
	(c) Acquiring in the work of making the awarded stretch unobstructed free by deploying additional resources as per instruction of Project incharge.	7.24%	Em.	17.91	38.22	1.87%
	(d) Carrying corrective maintenance and repairs to potholes / patches; repair of shoulders; cleaning of drains / culverts and bridges; cleaning / clearing of roadway; clearing / removal of vegetation; New plantation and maintenance; Sign ages; repairing metal beam crash barrier; repairing, resurface restoration, white wash, work painting etc. as per technical specification	1.57%	Per Month Per Km	1,110.00	127.00	1.05%
	(e) Detail Design & Drawing Work	0.01%	Lumpsum	1.00	0.1	0.25%
	(f) Setup Work (Base Camp & Plant)	0.01%	Lumpsum	1.00	0.95	0.59%
	Total Physical Progress		100.00%			5.50%

Table 4.2 : Strip Chart for Highway works

Station	18+000	18+040	18+800	18+840	18+880	18+920	18+960	19+000	19+040	19+080	19+120	19+160	19+200	19+240	19+280	19+320	19+360	19+400	19+440	19+480	19+520	19+560	19+600	19+640	19+680	19+720	19+760	19+800	19+840	19+880	19+920	19+960	20+000	20+040	20+080	20+120	20+160	20+200	20+240	20+280	20+320	20+360	20+400	20+440	20+480	20+520	20+560	20+600	20+640	20+680	20+720	20+760	20+800	20+840	20+880	20+920	20+960	21+000	21+040	21+080	21+120	21+160	21+200	21+240	21+280	21+320	21+360	21+400	21+440	21+480	21+520	21+560	21+600	21+640	21+680	21+720	21+760	21+800	21+840	21+880	21+920	21+960	22+000	22+040	22+080	22+120	22+160	22+200	22+240	22+280	22+320	22+360	22+400	22+440	22+480	22+520	22+560	22+600	22+640	22+680	22+720	22+760	22+800	22+840	22+880	22+920	22+960	23+000	23+040	23+080	23+120	23+160	23+200	23+240	23+280	23+320	23+360	23+400	23+440	23+480	23+520	23+560	23+600	23+640	23+680	23+720	23+760	23+800	23+840	23+880	23+920	23+960	24+000	24+040	24+080	24+120	24+160	24+200	24+240	24+280	24+320	24+360	24+400	24+440	24+480	24+520	24+560	24+600	24+640	24+680	24+720	24+760	24+800	24+840	24+880	24+920	24+960	25+000	25+040	25+080	25+120	25+160	25+200	25+240	25+280	25+320	25+360	25+400	25+440	25+480	25+520	25+560	25+600	25+640	25+680	25+720	25+760	25+800	25+840	25+880	25+920	25+960	26+000	26+040	26+080	26+120	26+160	26+200	26+240	26+280	26+320	26+360	26+400	26+440	26+480	26+520	26+560	26+600	26+640	26+680	26+720	26+760	26+800	26+840	26+880	26+920	26+960	27+000	27+040	27+080	27+120	27+160	27+200	27+240	27+280	27+320	27+360	27+400	27+440	27+480	27+520	27+560	27+600	27+640	27+680	27+720	27+760	27+800	27+840	27+880	27+920	27+960	28+000	28+040	28+080	28+120	28+160	28+200	28+240	28+280	28+320	28+360	28+400	28+440	28+480	28+520	28+560	28+600	28+640	28+680	28+720	28+760	28+800	28+840	28+880	28+920	28+960	29+000	29+040	29+080	29+120	29+160	29+200	29+240	29+280	29+320	29+360	29+400	29+440	29+480	29+520	29+560	29+600	29+640	29+680	29+720	29+760	29+800	29+840	29+880	29+920	29+960	30+000	30+040	30+080	30+120	30+160	30+200	30+240	30+280	30+320	30+360	30+400	30+440	30+480	30+520	30+560	30+600	30+640	30+680	30+720	30+760	30+800	30+840	30+880	30+920	30+960	31+000	31+040	31+080	31+120	31+160	31+200	31+240	31+280	31+320	31+360	31+400	31+440	31+480	31+520	31+560	31+600	31+640	31+680	31+720	31+760	31+800	31+840	31+880	31+920	31+960	32+000	32+040	32+080	32+120	32+160	32+200	32+240	32+280	32+320	32+360	32+400	32+440	32+480	32+520	32+560	32+600	32+640	32+680	32+720	32+760	32+800	32+840	32+880	32+920	32+960	33+000	33+040	33+080	33+120	33+160	33+200	33+240	33+280	33+320	33+360	33+400	33+440	33+480	33+520	33+560	33+600	33+640	33+680	33+720	33+760	33+800	33+840	33+880	33+920	33+960	34+000	34+040	34+080	34+120	34+160	34+200	34+240	34+280	34+320	34+360	34+400	34+440	34+480	34+520	34+560	34+600	34+640	34+680	34+720	34+760	34+800	34+840	34+880	34+920	34+960	35+000	35+040	35+080	35+120	35+160	35+200	35+240	35+280	35+320	35+360	35+400	35+440	35+480	35+520	35+560	35+600	35+640	35+680	35+720	35+760	35+800	35+840	35+880	35+920	35+960	36+000	36+040	36+080	36+120	36+160	36+200	36+240	36+280	36+320	36+360	36+400	36+440	36+480	36+520	36+560	36+600	36+640	36+680	36+720	36+760	36+800	36+840	36+880	36+920	36+960	37+000	37+040	37+080	37+120	37+160	37+200	37+240	37+280	37+320	37+360	37+400	37+440	37+480	37+520	37+560	37+600	37+640	37+680	37+720	37+760	37+800	37+840	37+880	37+920	37+960	38+000	38+040	38+080	38+120	38+160	38+200	38+240	38+280	38+320	38+360	38+400	38+440	38+480	38+520	38+560	38+600	38+640	38+680	38+720	38+760	38+800	38+840	38+880	38+920	38+960	39+000	39+040	39+080	39+120	39+160	39+200	39+240	39+280	39+320	39+360	39+400	39+440	39+480	39+520	39+560	39+600	39+640	39+680	39+720	39+760	39+800	39+840	39+880	39+920	39+960	40+000	40+040	40+080	40+120	40+160	40+200	40+240	40+280	40+320	40+360	40+400	40+440	40+480	40+520	40+560	40+600	40+640	40+680	40+720	40+760	40+800	40+840	40+880	40+920	40+960	41+000	41+040	41+080	41+120	41+160	41+200	41+240	41+280	41+320	41+360	41+400	41+440	41+480	41+520	41+560	41+600	41+640	41+680	41+720	41+760	41+800	41+840	41+880	41+920	41+960	42+000	42+040	42+080	42+120	42+160	42+200	42+240	42+280	42+320	42+360	42+400	42+440	42+480	42+520	42+560	42+600	42+640	42+680	42+720	42+760	42+800	42+840	42+880	42+920	42+960	43+000	43+040	43+080	43+120	43+160	43+200	43+240	43+280	43+320	43+360	43+400	43+440	43+480	43+520	43+560	43+600	43+640	43+680	43+720	43+760	43+800	43+840	43+880	43+920	43+960	44+000	44+040	44+080	44+120	44+160	44+200	44+240	44+280	44+320	44+360	44+400	44+440	44+480	44+520	44+560	44+600	44+640	44+680	44+720	44+760	44+800	44+840	44+880	44+920	44+960	45+000	45+040	45+080	45+120	45+160	45+200	45+240	45+280	45+320	45+360	45+400	45+440	45+480	45+520	45+560	45+600	45+640	45+680	45+720	45+760	45+800	45+840	45+880	45+920	45+960	46+000	46+040	46+080	46+120	46+160	46+200	46+240	46+280	46+320	46+360	46+400	46+440	46+480	46+520	46+560	46+600	46+640	46+680	46+720	46+760	46+800	46+840	46+880	46+920	46+960	47+000	47+040	47+080	47+120	47+160	47+200	47+240	47+280	47+320	47+360	47+400	47+440	47+480	47+520	47+560	47+600	47+640	47+680	47+720	47+760	47+800	47+840	47+880	47+920	47+960	48+000	48+040	48+080	48+120	48+160	48+200	48+240	48+280	48+320	48+360	48+400	48+440	48+480	48+520	48+560	48+600	48+640	48+680	48+720	48+760	48+800	48+840	48+880	48+920	48+960	49+000	49+040	49+080	49+120	49+160	49+200	49+240	49+280	49+320	49+360	49+400	49+440	49+480	49+520	49+560	49+600	49+640	49+680	49+720	49+760	49+800	49+840	49+880	49+920	49+960	50+000	50+040	50+080	50+120	50+160	50+200	50+240	50+280	50+320	50+360	50+400	50+440	50+480	50+520	50+560	50+600	50+640	50+680	50+720	50+760	50+800	50+840	50+880	50+920	50+960	51+000	51+040	51+080	51+120	51+160	51+200	51+240	51+280	51+320	51+360	51+400	51+440	51+480	51+520	51+560	51+600	51+640	51+680	51+720	51+760	51+800	51+840	51+880	51+920	51+960	52+000	52+040	52+080	52+120	52+160	52+200	52+240	52+280	52+320	52+360	52+400	52+440	52+480	52+520	52+560	52+600	52+640	52+680	52+720	52+760	52+800	52+840	52+880	52+920	52+960	53+000	53+040	53+080	53+120	53+160	53+200	53+240	53+280	53+320	53+360	53+400	53+440	53+480	53+520	53+560	53+600	53+640	53+680	53+720	53+760	53+800	53+840	53+880	53+920	53+960	54+000	54+040	54+080	54+120	54+160	54+200	54+240	54+280	54+320	54+360	54+400	54+440	54+480	54+520	54+560	54+600	54+640	54+680	54+720	54+760	54+800	54+840	54+880	54+920	54+960	55+000	55+040	55+080	55+120	55+160	55+200	55+240	55+280	55+320	55+360	55+400	55+440	55+480	55+520	55+560	55+600	55+640	55+680	55+720	55+760	55+800	55+840	55+880	55+920	55+960	56+000	56+040	56+080	56+120	56+160	56+200	56+240	56+280	56+320	56+360	56+400	56+440	56+480	56+520	56+560	56+600	56+640	56+680	56+720	56+760	56+800	56+840	56+880	56+920	56+960	57+000	57+040	57+080	57+120	57+160	57+200	57+240	57+280	57+320	57+360	57+400	57+440	57+480	57+520	57+560	57+600	57+640	57+680	57+720	57+760	57+800	57+840	57+880	57+920	57+960	58+000	58+040	58+080	58+120	58+160	58+200	58+240	58+280	58+320	58+360	58+400	58+440	58+480	58+520	58+560	58+600	58+640	58+680	58+720	58+760	58+800	58+840	58+880	58+920	58+960	59+000	59+040	59+080	59+120	59+160	59+200	59+240	59+280	59+320	59+360	59+400	59+440	59+480	59+520	59+560	59+600	59+640
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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	Raft	PCC	Excavation	Protection Work	Slab	Wall	Raft	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															
12	122.497	EXISTING	2 x 1.0m	Pipe Culvert															
13	122.678	EXISTING	2 x 1.0m	Pipe Culvert															
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															
35	130.096	EXISTING	1 x 1.2	Pipe Culvert															

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	Rdft	PCC	Excavation	Excavation	PCC	Rdft	Wall	Slab	Protection Work					
1	119.971	BYPASS	1 x 1.5	Slab 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																

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

		LHS						RHS						
Sr. No.	Design Chainage As per CA	Number and Length of Spans (m)	Protection Work	Slab	Wall	Rdft	PCC	Excavation	Excavation	PCC	Rdft	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											
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0														
1	117.764	2 x 10.0m	By pass											
2	118.217	1 x 8.0m	By pass											
3	118.400	1 x 6.0m	By pass											
4	118.480	1 x 6.0m	By pass											
5	118.539	1 x 8.0m	By pass											
6	118.919	1 x 6.0m	By pass											
7	134.320	2 x 10.0m	By pass											
8	134.770	1 x 10.0m	By pass											
9	136.705	1 x 6.0m	By pass											
10	138.555	1 x 6.0m	By pass											
11	138.901	3 x 15.0m	By pass											
12	139.105	2 x 15.0m	By pass											
13	139.299	2 x 15.0m	By pass											
14	139.453	1 x 7.0m	By pass											
15	140.605	1 x 6.0m	By pass											
16	140.860	1 x 8.0m	By pass											
17	141.164	1 x 10.0m	By pass											
18	141.445	1 x 8.0m	By pass											
19	141.727	1 x 8.0m	By pass											
20	142.204	1 x 8.0m	By pass											
21	142.657	1 x 6.0m	By pass											
22	142.897	2 x 8.0m	By pass											
23	143.115	3 x 15.0m	By pass											
24	143.823	2 x 8.0m	By pass											
25	144.000	2 x 10.0m	By pass											
26	144.880	2 x 15.0m	By pass											
27	146.639	1 x 10.0m	By pass											

TABLE 4.3 - 4 STRIP CHART FOR STATUS OF PUP

Sr. No.	PUP at Chainage	Number and Length of Spans (m)	LHS					RHS											
			Protection Work	Slab	Wall	Raft	PCC	Excavation	Protection Work	Slab	Wall	Raft	PCC	Excavation					
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 Launching	Girder Casting	Pier Cap/Abt Cap	Pier/Abt	Pile Cap	Crash Barrier	Slab	Girder Launching	Girder Casting	Pier Cap/Abt Cap	Pier/Abt	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 146+902 (4x20) - BYPASS													
LHS/LSR							RHS/LSR						
Crash Barrier	Slab	Girder Launching	Girder Casting	Pier Cap/Abt Cap	Pier/Abt	Pile Cap	Crash Barrier	Slab	Girder Launching	Girder Casting	Pier Cap/Abt Cap	Pier/Abt	Pile Cap
A1													
P1													
P2													
P3													
A2													
Total Completed	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 Launching	Girder Casting	Pier Cap/Abt	Pier/Abt	Pile Cap	Pile	Pier/Abt	Pier Cap/Abt	Girder Casting	Girder Launching	Slab	Crash Barrier
A1													
P1													
P2													
A2													
Total Completed	0	0	0	0	0	0	0	0	0	0	0	0	0

MJB at Chainage 149+334 (3x20) - BYPASS													
LHS/LSR							RHS/LSR						
Crash Barrier	Slab	Girder Launching	Girder Casting	Pier Cap/Abt	Pier/Abt	pile Cap	pile	Crash Barrier	Slab	Girder Launching	Girder Casting	Pier Cap/Abt	Pier/Abt
A1													
P1													
P2													
A2													
Total Completed	0	0	0	0	0	0	0	0	0	0	0	0	0

MJB at Chainage 156+559(6x20) - BYPASS													
LHS/LSR							RHS/LSR						
Crash Barrier	Slab	Girder Launching	Girder Casting	Pier Cap/Abt	Pier/Abt	pile Cap	pile	Crash Barrier	Slab	Girder Launching	Girder Casting	Pier Cap/Abt	Pier/Abt
A1													
P1													
P2													
P3													
P4													
P5													
A2													
Total Completed	0	0	0	0	0	0	0	0	0	0	0	0	0

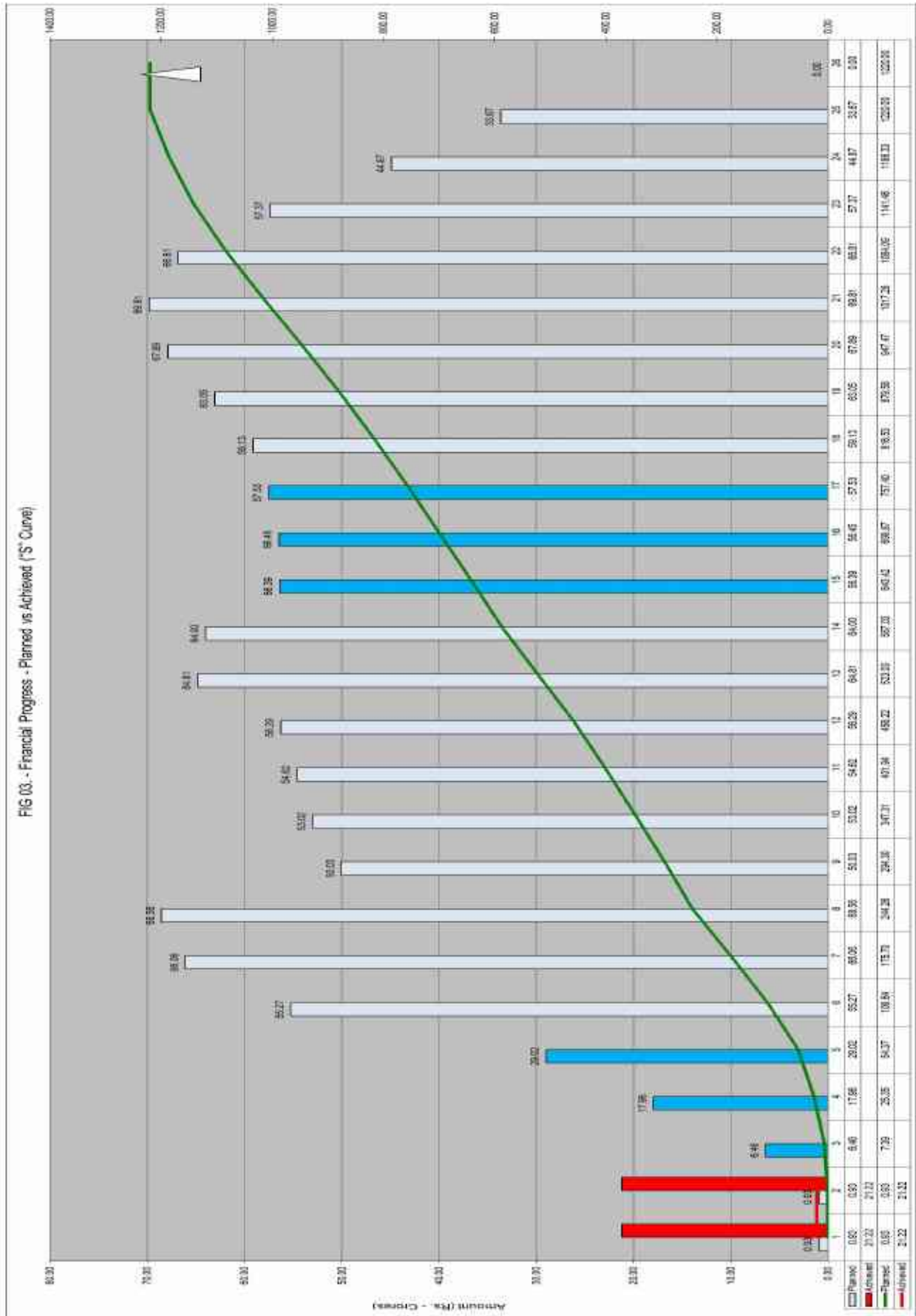
MJB at Chainage 161+019(6x20) - BYPASS													
LHS/LSR							RHS/LSR						
Crash Barrier	Slab	Girder Launching	Girder Casting	Pier Cap/Abt	Pier Cap/Abt	Pile	Crash Barrier	Slab	Girder Launching	Girder Casting	Pier Cap/Abt	Pier Cap/Abt	Pile
A1													
P1													
P2													
P3													
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

		LHS										RHS									
Sr.No.	FO of Chainage	Span		Crash Barrier	Slab	Girder Launching	Girder Casting	Pierca p/Abtc ap	Pier/A bt	Pile Cap	Pile	Crash Barrier	Slab	Girder Launching	Girder Casting	Pierca p/Abtc ap	Pier/A bt	Pile Cap	Pile		
1	117.600	1 x 30 m	BYPASS/EXIST IIG	A1 A2																	
2	120.000	1 x 30 m	BYPASS/EXIST IIG	A1 A2																	
3	127.300	1 x 30 m	EXIST IIG	A1 A2																	
4	134.000	1 x 30 m	BYPASS/EXIST IIG	A1 A2																	
5	145.140	1 x 30 m	BYPASS	A1 P1 A2																	
6	157.100	1 x 30 m	BYPASS	A1 P1 A2																	

5. Financial Progress of Work

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



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) CONCRETE WORKS		
41	Compressive Testing machine(2000KN)	1
42	Flextural strength testing machine digital	1
43	Concrete Cube Moulds With Base Plate(15cm)	200
44	Concrete Cube Moulds With Base Plate(10cm)	18
45	Motor Cube Moulds (7.06cm) with Base Plate	12
46	Motor Cube Vibrating Machine(12000 Rmp)	1
47	Concrete Mixer Electrically Operated	1
48	Cube Vibrating Machine (Big)	1
49	Slump Cone Testing Apparatus	10
50	Vicat Needle Apparatus , with dash pot complete with set of needles and brass mould	2
51	Soundness Testing Apparatus	2
52	Trowels With Wodden Handles	4
53	A I V Testing Machine	1
54	Loss Angels abrasion Testing Machine	1
55	Sand Equivalant Testing Apparatus	1
56	Flakiness Index Test Guage	1
57	Elongation Index Test Guage	1
58	Density Basket	2
59	Bulk Density Cylinder (5lt)	1
60	Bulk Density Cylinder (15lt)	1
61	Bulk Density Cylinder (30lt)	1
62	Gi trays -450x600x50mm	9
63	Enamel trays -300x250x40 mm	9
64	Trays for Samples Collections	12
65	Riffle Box (40 MM)	1
66	Riffle Box (20 MM)	1
67	PYcnometer Bottels (1000 ml)	4
68	Specific Gravity & water absorotion test apparatus with Electronic balance	1
69	DLC Compaction vibrating hammer	1
70	Cement mortar cube mould 5.0 cm	12
71	Sandard Sand Grade-1 bag of 25 kg	2
72	Sandard Sand Grade-2 bag of 25 kg	2
73	Sandard Sand Grade-3 bag of 25 kg	2
C) BITUMINOUS WORKS		
74	Specific Gravity Bottels (50 ml)	2
75	Specific Gravity Bottels (100 ml)	2
Sl.	Equipment List	Quantity

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

Table 6.2 - I Summary of Quality Control Tests up to Oct-2018

S. No.	Description	IS Specification Clause	Frequency of Tests	SEPT-18 REF			Tests conducted during current month Oct-2018						Total Tests up to Oct-2018				
				Tested	Passed	Failed	Tested		Passed		Failed		Tested	Passed	Failed		
							Concession no	IE	Concession no	IE	Concession no	IE					
1.0 Tests on OGI																	
1.1	Grain size analysis	IS:7700 (Part II)	As required	111	111	0	0	0	0	0	0	0	0	111	111	0	
1.2	Atterberg limits	IS:2700 (Part I)	As required	111	111	0	0	0	0	0	0	0	0	111	111	0	
1.3	Free Swell	IS:7700 (Part I)	As required	111	111	0	0	0	0	0	0	0	0	111	111	0	
1.4	Free Swell index	IS:7700 (Part I)	As required	111	111	0	0	0	0	0	0	0	0	111	111	0	
1.5	California bearing ratio	IS:7700 (Part I)	As required	0	0	0	0	0	0	0	0	0	0	0	0	0	
2.0 Tests on BFB/Sk grade (MFTSH 30s)																	
2.1	Grain size analysis	IS:7700 (Part II)	1 test /1500 m ²	50	50	0	0	0	0	0	0	0	0	50	50	0	
2.2	Atterberg Limits	IS:2700 (Part I)	1 test /1500 m ²	50	50	0	0	0	0	0	0	0	0	50	50	0	
2.3	Free Swell	IS:7700 (Part I)	1 test /1500 m ²	50	50	0	0	0	0	0	0	0	0	50	50	0	
2.4	Free Swell index	IS:7700 (Part I)	As required	50	50	0	0	0	0	0	0	0	0	50	50	0	
2.5	California bearing ratio	IS:7700 (Part I)	As required	0	0	0	0	0	0	0	0	0	0	0	0	0	
3.0 Curing yarden & Eriing for BFB/SG (MFTSH 30s)																	
3.1	Grain size analysis	IS:7700 (Part II)	1 test /1500 m ²	0	0	0	0	0	0	0	0	0	0	0	0	0	
3.2	Atterberg Limits	IS:2700 (Part I)	1 test /1500 m ²	0	0	0	0	0	0	0	0	0	0	0	0	0	
3.3	Free Swell	IS:7700 (Part I)	1 test /1500 m ²	0	0	0	0	0	0	0	0	0	0	0	0	0	
3.4	Free Swell index	IS:7700 (Part I)	As required	0	0	0	0	0	0	0	0	0	0	0	0	0	
3.5	California bearing ratio	IS:7700 (Part I)	As required	0	0	0	0	0	0	0	0	0	0	0	0	0	
1.0 Field Density Tests (MFTSH 30s)																	
1.1	Field density (OGI)	IS:7700 (Part I)	1 test /2000 sqm	1/0	1/0	0	0	0	0	0	0	0	0	1/0	1/0	0	
1.2	BFB field density	IS:7700 (Part I)	1 test /2000 sqm	10/	10s	?	0	0	0	0	0	0	0	10/	10s	?	
1.3	SG field density	IS:7700 (Part I)	1 test /2000 sqm	0	0	0	0	0	0	0	0	0	0	0	0	0	
1.4	Shoulder field density	IS:7700 (Part I)	1 test /2000 sqm	0	0	0	0	0	0	0	0	0	0	0	0	0	
5.0 Fiber Glass & Back filling (MFTSH 7500)																	
5.1	Gradation			0	0	0	0	0	0	0	0	0	0	0	0	0	
5.2	Backfilling field density		1 test /1000 m ³	0	0	0	0	0	0	0	0	0	0	0	0	0	
5.3	FE Wall field density			0	0	0	0	0	0	0	0	0	0	0	0	0	
6.0 Safe bearing capacity of soil																	
6.1	Free Swell index	IS:7700 (Part I)	As required	10	0	10	??	??	0	0	0	0	0	??	??	0	??
6.2	Grain size analysis	IS:7700 (Part II)	As required	10	0	10	??	??	0	0	0	0	0	??	??	0	??
6.3	Atterberg limits	IS:2700 (Part I)	As required	10	0	10	??	??	0	0	0	0	0	??	??	0	??
6.4	Direct shear Test	IS:6102	As required	10	0	10	??	??	0	0	0	0	0	??	??	0	??

10.0. CTSE (ie. Design Site Frequency M=0.01 & H=10)												
1.1	Gradation	Table 100-1	1 test/100 m ²	0	0	0	0	0	0	0	0	0
1.2	Atterberg Limits	15.2.70 (Part 1)	1 test/100 m ²	0	0	0	0	0	0	0	0	0
1.3	Proctor	15.2.70 (Part 1)	As required	0	0	0	0	0	0	0	0	0
1.1	CBPT of an unconfined compressive strength test	15.2.70 (Part 1)	As required	0	0	0	0	0	0	0	0	0
1.5	Quality of cement	Minimum 1 test/5 tons	As required	0	0	0	0	0	0	0	0	0
1.6	Aggregate Impact Value	As required	As required	0	0	0	0	0	0	0	0	0
1.7	Field Density	1 test/2 test per 500 sqm	1 test/2 test per 500 sqm	0	0	0	0	0	0	0	0	0
10.0. GSB (ie. Design Site Frequency M=0.01 & H=10)												
8.1	Gradation	Table 100-1	1 test/100 m ²	3	1	0	0	0	0	0	0	0
8.2	Atterberg Limits	15.2.70 (Part 1)	1 test/100 m ²	3	1	0	0	0	0	0	0	0
8.3	Proctor	15.2.70 (Part 1)	As required	3	3	0	0	0	0	0	0	0
8.1	CBPT test	15.2.70 (Part 1)	As required	1	1	0	0	0	0	0	0	0
8.5	Aggregate Impact Value	As required	As required	0	0	0	0	0	0	0	0	0
8.6	Field Density	1 test/2 test per 1000 sqm	1 test/2 test per 1000 sqm	1	1	0	0	0	0	0	0	0
10.0. WMM (ie. Design Site Frequency M=0.01 & H=10)												
9.1	Combined Gradation	Table 100-3	1 test/200 m ²	0	0	0	0	0	0	0	0	0
9.2	Aggregate Impact Value	15.2.86 Part 1	1 test/1000 m ²	0	0	0	0	0	0	0	0	0
9.3	Flatness & Elongation Index	15.2.86 Part 1	1 test/500 m ²	0	0	0	0	0	0	0	0	0
9.1	Atterberg limits	15.2.70 (Part 1)	As required	0	0	0	0	0	0	0	0	0
9.5	Water absorption	As required	As required	0	0	0	0	0	0	0	0	0
9.6	Proctor	15.2.70 (Part 1)	As required	0	0	0	0	0	0	0	0	0
9.7	Field Density	1 test/2 test per 1000 sqm / 3 pits	1 test/2 test per 1000 sqm / 3 pits	0	0	0	0	0	0	0	0	0
10.0. Prime Coat												
10.1	Temp. for Application		1 test per 500 m ² and Less than 1 test per day	0	0	0	0	0	0	0	0	0
10.2	Pits of Spray	IPC 1.6	No. of samples / Lot	0	0	0	0	0	0	0	0	0
10.3	Quality of Binder	15.888 / 6.15.3.11 /	No. of samples / Lot	0	0	0	0	0	0	0	0	0
11.0. Total Coat												
11.1	Temp. for Application		1 test per 500 m ² and Less than 1 test per day	0	0	0	0	0	0	0	0	0
11.2	Pits of Spray	IPC 1.6	No. of samples / Lot	0	0	0	0	0	0	0	0	0
11.3	Quality of Binder	15.888 / 6.15.3.11 /	No. of samples / Lot	0	0	0	0	0	0	0	0	0
12.0. Fine Aggregate M=0.01 & H=1000												
12.1	Grad./2 per analysis	15.2.86 (Part 1)	1 test / 15 days	7	7	0	11	11	0	0	18	0
12.2	Specific gravity	15.2.86 (Part 1)	As required	1	1	0	7	7	0	0	3	0
12.3	Water absorption	15.2.86 (Part 1)	As required	1	1	0	7	7	0	0	3	0

13.0 Concrete Aggregate (MORTEN 100)													
13.1	Evolution	15:286 (Par4)	1 test / 15 days	17	0	11	11	11	11	0	0	73	0
13.2	Specific gravity	15:286 (Par4)	As required	1	0	7	7	7	7	0	0	3	0
13.3	Aggregate Impact Value	15:286 (Par4)	1 test / 15 days	7	0	3	3	3	3	0	0	5	0
13.4	Flakiness Index	15:286 (Par4)	1 test / 15 days	5	0	1	1	1	1	0	0	9	0
13.5	Water absorption	15:286 (Par4)	As required	1	0	1	1	1	1	0	0	5	0
14.0 Cement (MORTEN 1006)													
14.1	Fineness	15:103 (Par4)	Every batch	2	0	3	3	3	3	0	0	5	0
14.2	Consistency	15:103 (Par4)	Every batch	2	0	3	3	3	3	0	0	5	0
14.3	Initial Final setting time	15:103 (Par4)	Every batch	2	0	3	3	3	3	0	0	5	0
14.4	Soundness of Cement	15:103 (Par4)	Every batch	2	0	3	3	3	3	0	0	5	0
14.5	Compressive Strength-set	15:103 (Par4)											
	3 days		1 test per Lot	2	0	3	3	3	3	0	0	5	0
	7 days		1 test per Lot	2	0	3	3	3	3	0	0	5	0
	28 days		1 test per Lot	0	0	3	3	3	3	0	0	3	0
15.0 Concrete-cube (MORTEN 1/00)													
M/s. Design LABORATORY													
15.1	/Days Compressive Strength	MORTEN Sec. 1/00	MORTEN Sec. 1/00	9	0	108	108	108	108	0	0	117	0
28Days Compressive Strength		MORTEN Sec. 1/00	MORTEN Sec. 1/00	0	0	51	51	51	51	0	0	51	0
M15 FCC													
15.2	/Days Compressive Strength	MORTEN Sec. 1/00	MORTEN Sec. 1/00	0	0	70	70	70	70	0	0	70	0
28Days Compressive Strength		MORTEN Sec. 1/00	MORTEN Sec. 1/00	0	0	76	76	76	76	0	0	76	0
M20 FCC													
15.3	/Days Compressive Strength	MORTEN Sec. 1/00	MORTEN Sec. 1/00	0	0	0	0	0	0	0	0	0	0
28Days Compressive Strength		MORTEN Sec. 1/00	MORTEN Sec. 1/00	0	0	0	0	0	0	0	0	0	0
M30 FCC													
15.4	/Days Compressive Strength	MORTEN Sec. 1/00	MORTEN Sec. 1/00	0	0	1	1	1	1	0	0	1	0
28Days Compressive Strength		MORTEN Sec. 1/00	MORTEN Sec. 1/00	0	0	0	0	0	0	0	0	0	0
M35 FCC													
15.5	/Days Compressive Strength	MORTEN Sec. 1/00	MORTEN Sec. 1/00	0	0	0	0	0	0	0	0	0	0
28Days Compressive Strength		MORTEN Sec. 1/00	MORTEN Sec. 1/00	0	0	0	0	0	0	0	0	0	0
M35 File													
15.6	/Days Compressive Strength	MORTEN Sec. 1/00	MORTEN Sec. 1/00	0	0	2	2	2	2	0	0	2	0
28Days Compressive Strength		MORTEN Sec. 1/00	MORTEN Sec. 1/00	0	0	0	0	0	0	0	0	0	0
M35 FE BLOCK													
15.7	/Days Compressive Strength	MORTEN Sec. 1/00	MORTEN Sec. 1/00	0	0	0	0	0	0	0	0	0	0
28Days Compressive Strength		MORTEN Sec. 1/00	MORTEN Sec. 1/00	0	0	0	0	0	0	0	0	0	0
M10 File													
15.8	/Days Compressive Strength	MORTEN Sec. 1/00	MORTEN Sec. 1/00	0	0	0	0	0	0	0	0	0	0
28Days Compressive Strength		MORTEN Sec. 1/00	MORTEN Sec. 1/00	0	0	0	0	0	0	0	0	0	0

7. Weather Report

DATE	Temperature (°C)		Rainfall in mm	Humidity in %		Remarks
	Min	Max		Min	Max	
01-10-2018	40.9	27.8	0.0	81.0	42.0	Sunny
02-10-2018	38.0	26.5	4.2	87.0	55.0	Sunny
03-10-2018	35.0	26.7	36.6	90.0	56.0	Rainy
04-10-2018	29.4	25.4	40.2	99.0	77.0	Rainy
05-10-2018	29.1	26.1	60.6	91.0	82.0	Rainy
06-10-2018	33.4	26.9	4.6	91.0	66.0	Rainy
07-10-2018	35.1	26.9	5.0	85.0	51.0	Rainy
08-10-2018	32.8	25.8	32.2	86.0	67.0	Rainy
09-10-2018	37.1	26.8	0.0	83.0	44.0	Sunny
10-10-2018	38.2	26.4	0.0	82.0	44.0	Sunny
11-10-2018	38.8	27.8	0.0	84.0	41.0	Sunny
12-10-2018	36.7	26.6	0.0	99.0	50.0	Sunny
13-10-2018	39.2	26.6	0.0	99.0	37.0	Sunny
14-10-2018	35.4	27.0	0.0	84.0	45.0	Sunny
15-10-2018	36.9	26.5	0.0	84.0	48.0	Sunny
16-10-2018	36.0	25.7	50.0	86.0	51.0	Rainy
17-10-2018	37.0	26.8	0.0	82.0	40.0	Sunny
18-10-2018	38.5	27.4	0.0	90.0	45.0	Sunny
19-10-2018	36.8	26.1	0.0	84.0	49.0	Sunny
20-10-2018	38.5	26.0	0.0	84.0	49.0	Sunny
21-10-2018	38.5	26.0	52.0	84.0	48.0	Rainy
22-10-2018	34.2	24.4	0.0	89.0	56.0	Sunny
23-10-2018	34.9	24.6	0.0	82.0	51.0	Sunny
24-10-2018	36.1	25.8	0.0	82.0	52.0	Sunny
25-10-2018	34.1	24.8	0.0	82.0	52.0	Sunny
26-10-2018	36.0	25.8	0.0	75.0	49.0	Sunny
27-10-2018	35.0	24.3	0.0	74.0	51.0	Sunny
28-10-2018	36.2	24.4	0.0	77.0	42.0	Sunny
29-10-2018	37.1	25.5	0.0	74	35	Sunny
30-10-2018	36.3	27.5	0.0	77	50	Sunny
31-10-2018	34.3	25.8	4.8	83	48	Rainy

- 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 and Ariyalur District.
3. Payment of Supervision charges for shifting of RWS water pipe line.
4. Relocation of High Tension transmission tower lines.
5. NOC from PWD/WRO for commencement of construction activities for Irrigation Structures.
6. Permission from Local Authorities for procurement of Borrow Earth from Irrigation Tanks.
7. Rerouting of existing canal between Km:124+150 to 124+750 Km:117+760 to 118+480 and 146+600 to 148+100
8. Removal/relocation of existing irrigation sluice and regulator in the locations of Km:150+800, Km:152+900.
9. Tree felling permission in Thanjavur District.
10. 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)	05.10.2018	District Collector Meeting for taking precautionary measures for upcoming monsoon held at Thanjavur Collectorate.	
2)	23.10.2018	Technical Presentation on Reinforced Wall Structures	
3)	24.10.2018	RO-Madurai Site Visit	
4)	31-10-2018	Rashtriya Ekta Diwas	

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

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

Figure 5 - ORGANIZATION CHART - SPV Team

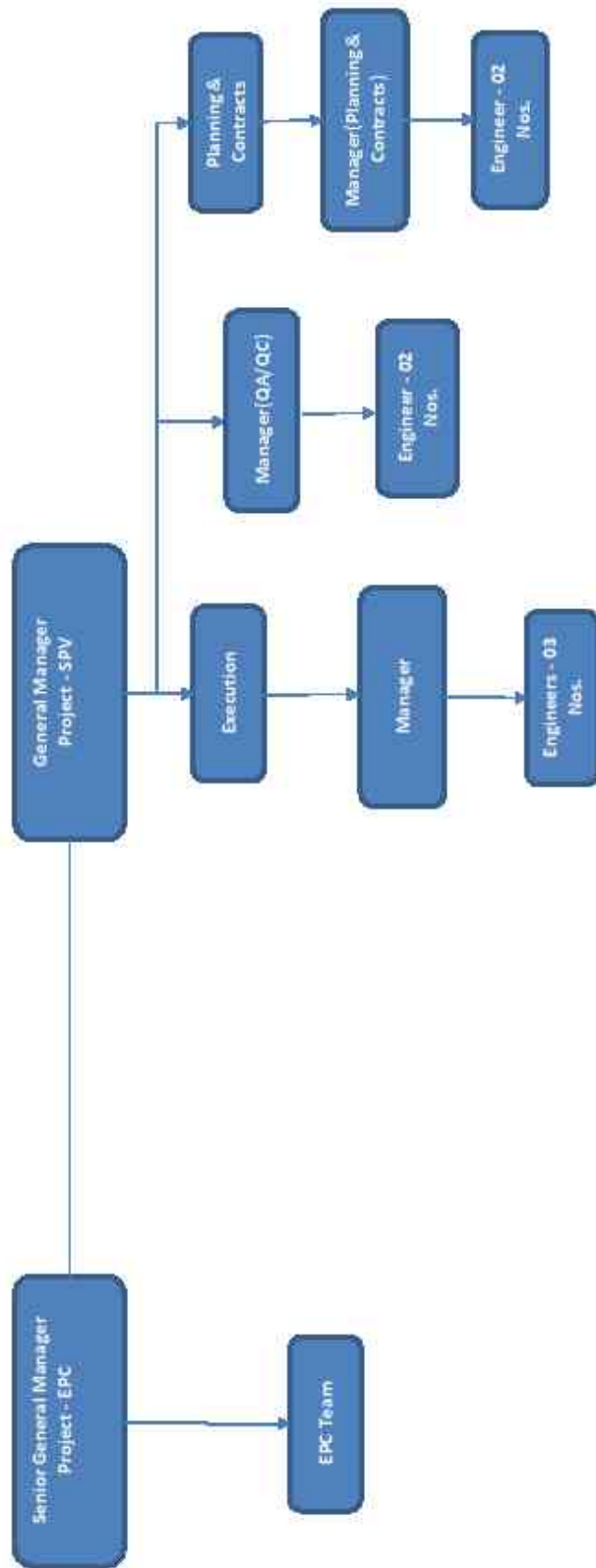


Table 12.1 - List of Plants, Machinery and Equipment's

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	01.10.2018	PCTHPL/PIU/CTP/HO/04/9/2018	Submission of Notarized evidence of Insurance Cover as per clause 26.4 of the Concession Agreement.	
2	13.10.2018	PCTHPL/CTP/NHAI/2018/137	Disruption of Construction Activities in Papanasam Bypass	
3	15.10.2018	PCTHPL/CTP/NHAI/2018/138	Deposit of balance amount of Upset price for the effected Trees in Thanjavur Dist.	

TABLE 14.2 - CORRESPONDANCE - NHAI TO CONCESSIONAIRE

S.No	Date	Letter No	Subject	Remarks
1	03.10.2018	NHAI/PIU/Thani/11015/51/2017/1892	Action taken report on preparedness on northeast monsoon 2018	
2	11.10.2018	NHAI/PIU/Thani/11026/11/2018/1956	Removal of teak wood trees in Govt. Lands under Thanjavur range-requested-reg.	
3	23.10.2018	NHAI/PIU/Thani/11026/06/2018/1997	Construction of Public Toilet near Ayyampettai Bus Stand	
4	23.10.2018	NHAI/PIU/Thani/11026/06/2018/1998	Objection for the removal of Ambedkar statue in Moopakkoil village - remarks called for	
5	23.10.2018	NHAI/PIU/Thani/11019/08/2009/2013	Link between the existing Anaikkarai Bridge and the proposed new bridge requested	
6	25.10.2018	NHAI/PIU/Thani/11026/11/2018/202C	Felling and transiting trees	

TABLE 14.3 - CORRESPONDANCE - CONCESSIONAIRE TO INDEPENDENT ENGINEER

S.No	Date	Letter No	Subject	Remarks
1	01.10.2018	PCTHPL/CT/IE/2018/121	Permission for Borrowing of ordinary Earth for Highway Construction	
2	01.10.2018	PCTHPL/CT/IE/2018/122	Proposal of Concrete Mix Design of Grade M35 for casting of RE block	
3	01.10.2018	PCTHPL/CT/IE/2018/124	Submission of Drawings of Box Culverts & Test piles of Grade Separators	
4	03.10.2018	PCTHPL/CT/IE/2018/125	Source of Cement from Ms Ultratech Cement Limited (OPC)	
5	04.10.2018	PCTHPL/CT/IE/2018/126	Submission of Action plan - Commemoration of the 150th birth anniversary of Mahatma Gandhi	
6	04.10.2018	PCTHPL/CT/IE/2018/127	Submission of Construction Programme using networking techniques and Monthly cash flow forecast	
7	09.10.2018	PCTHPL/CT/IE/2018/128	Submission of Plan and Profile drawing (Revision 1) of Project Highway	
8	09.10.2018	PCTHPL/CT/IE/2018/129	Action taken report an preparedness for North East Monsoon 2018	
9	09.10.2018	PCTHPL/CT/IE/2018/130	Proposal of RE Wall Agency	
10	09.10.2018	PCTHPL/CT/IE/2018/131	Submission of Insurance cover as per clause 26.4 of concession agreement	
11	11.10.2018	PCTHPL/CT/IE/2018/132	Disruption of Construction activities in the Papanasam Bypass	
12	11.10.2018	PCTHPL/CT/IE/2018/133	Quality Assurance Plan (QAP) Article 12.1 Construction Methodology Procurement Process	
13	11.10.2018	PCTHPL/CT/IE/2018/134	Submission of Calibration Reports of QAQC Lab Equipments	
14	12.10.2018	PCTHPL/CT/IE/2018/135	Permission for Borrowing of ordinary Earth for Highway Construction	
15	12.10.2018	PCTHPL/CT/IE/2018/136	Traffic Survey on Cross Roads For Development of Junctions	
16	16.10.2018	PCTHPL/CT/IE/2018/139	Submission of Traffic Management plan for the proposed VUP and Grade Separated Structures	
17	16.10.2018	PCTHPL/CT/IE/2018/140	Submission of Monthly Progress Report for the Month of Sep 2018	
18	23.10.2018	PCTHPL/CT/IE/2018/141	Applicable Permits	
19	26.10.2018	PCTHPL/CT/IE/2018/142	Procurement of Cement from Ms Bharathi Cement Corporation Private Ltd	

TABLE 14.4 - CORRESPONDANCE - INDEPENDENT ENGINEER TO CONCESSIONAIRE / NHAI

S.No	Date	Letter No	Subject	Remarks
1	04.10.2018	Theme/NHA/CHO-TNJR/CON/1018/077	Review of Traffic Management plan for the proposed VUP and Grade Separated structures	
2	05.10.2018	Theme/NHA/CHO-TNJR/CON/1018/078	Review Drawings of Box Culverts VUP PUP Grade Separators	
3	04.10.2018	Theme/NHA/CHO-TNJR/CON/1018/079	Action taken report a preparedness for North East Monsoon 2018	
4	05.10.2018	Theme/NHA/CHO-TNJR/CON/1018/080	Compliance Required on System Supplier for RE Wall	
5	05.10.2018	Theme/NHA/CHO-TNJR/CON/1018/081	Provisional Approval of Concrete Mix Design M35 piling and M30 RCC	
6	05.10.2018	Theme/NHA/CHO-TNJR/CON/1018/082	Provisional Approval of Concrete Mix Design M35 for RE Blocks	
7	06.10.2018	Theme/NHA/CHO-TNJR/CON/1018/083	Reminder on Insurance as per Article 26	
8	06.10.2018	Theme/NHA/CHO-TNJR/CON/1018/084	Source Approval of Cement from M s Ultratech Cement Limited (OPC)	
9	10.10.2018	Theme/NHA/CHO-TNJR/CON/1018/085	Proposal of RE Wall Agency and their eligibility	
10	11.10.2018	Theme/NHA/CHO-TNJR/CON/1018/086	Design and Drawings Status and Pending Issue	
11	12.10.2018	Theme/NHA/CHO-TNJR/CON/1018/087	Method Statement for Ground Improvement for CD Structure Submitted on 29.09.2018	
12	12.10.2018	Theme/NHA/CHO-TNJR/CON/1018/088	Test Reports Safe Bearing Capacity for Box Culverts	
13	16.10.2018	Theme/NHA/CHO-TNJR/CON/1018/090	Submission of Drawings of Box Culverts and Test Piles of Grade Separators.	
14	16.10.2018	Theme/NHA/CHO-TNJR/CON/1018/091	Minutes of Project Review Meeting No.1	
15	17.10.2018	Theme/NHA/CHO-TNJR/CON/1018/092	Review of Traffic Management Plan for the Proposed VUP and Grade Separated Structures	
16	17.10.2018	Theme/NHA/CHO-TNJR/CON/1018/093	Review of STRATA Geosystems (I) Pvt Ltd System Supplier for Reinforced Earth Wall	

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.	Plate Load Test In Progress	147+093		



Sl. No	Description	Location	Side	Remarks
10.	Test Ple in Progress- GSI	134+020		



Sl. No	Description	Location	Side	Remarks
11.	Box Culvert PCC In Progress	122+952		



Sl. No	Description	Location	Side	Remarks
12.	Box Culvert Raft in progress	139+862		



Sl. No	Description	Location	Side	Remarks
13.	Electrical Shifting in Progress			



Sl. No	Description	Location	Side	Remarks
14.	Maintenance of Existing Road			



Sl. No	Description	Location	Side	Remarks
13.	Rakshtriya Ekta Diwas Celebration			
 A group of men in white shirts and caps are marching on a street during Rakshtriya Ekta Diwas. They are carrying a large Indian national flag and a banner that reads "REPECTING DIVERSITY UNITE". The banner also features the text "FOR THE UNITY" and "DIVERSITY INTO UNITY". The men are walking in a line, and a police officer is visible on the right side of the street. The background shows buildings and a utility pole.				