



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 SEPTEMBER 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

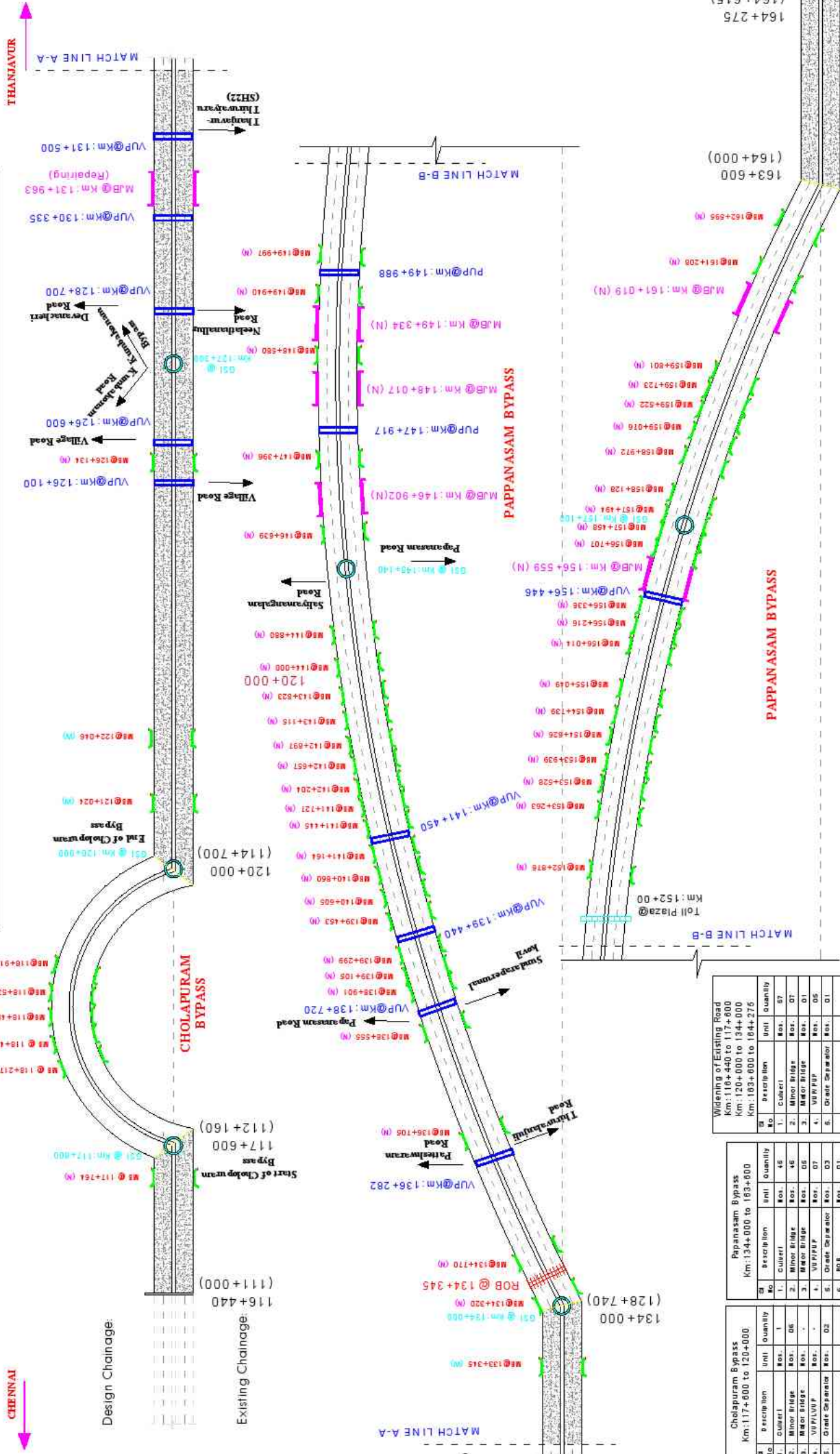
The Government of India had entrusted to the National Highway Authority of India (NHAI) the development, maintenance and management of National Highway No. 45C including the section from km 116.440 to Km 164.275 (approx. 47.835 Km). The Authority had resolved to augment for four Lining of Cholopuram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

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

Pappanasam Bypass
 Km: 134+000 to 163+600

No	Description	Unit	Quantity
1.	Culvert	Box	45
2.	Minor Bridge	Box	45
3.	Major Bridge	Box	05
4.	VUP/PUP	Box	07
5.	Grade Separator	Box	03
10.	ROB	Box	01

Cholapuram Bypass
 Km: 117+600 to 120+000

No	Description	Unit	Quantity
1.	Culvert	Box	06
2.	Minor Bridge	Box	05
3.	Major Bridge	Box	05
4.	VUP/PUP	Box	01
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 Structureless Road	Km	27.100	ROB
5.	Culvert	Box	74	ROB
6.	Minor Bridge	Box	29	ROB
7.	Major Bridge	Box	05	ROB
8.	VUP/PUP	Box	12	ROB
9.	Grade Separator Structure	Box	06	ROB
10.	ROB	Box	01	ROB

LEGEND:

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

Table- 01 : Details of Project Alignments

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

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

1.1. Project Overview

Name of Work	Four Laning of Cholopuram-Thanjavur from km. 116.440 to Km.164.275 of NH-45C under NHDP-IV on Hybrid Annuity Mode Basis
Name of Employer	National Highways Authority of India (NHAI) G-5 & 6, Sector-10, Dwarka, New Delhi -110075
Name of Concessionaire	Patel Cholopuram-Thanjavur Highway Pvt Ltd, Patel House, Beside Prakruti Resorts, Chanani Road, Vadodara. Gujarat- 391740 Tel: +91-265 277 6678 Fax: +91-265 277 7878
Independent Engineer	M/s. Theme Engineering Services Pvt. Ltd, 8, Thomaiyammal Nagar, 6 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, 1ST Floor, Krishna Chambers, HAL, Airport Road, Bangalore-560017
Senior Lender	Punjab National Bank, Large Corporate Branch, Neelkamal Building, Opp. Sales India, Ashram Road, Ahmedabad - 380009
Lenders Independent Engineers	Sharul Techno-Financial Consultancy Services Pvt. Ltd., 403, Aspire Tower 5, Amanora Park Town, Hadapsar, Pune - 411028.
Length of Road (Design Length)	47.835 Kms.
Total Bid Cost	Rs. 1345.60 Crores (as per concession agreement)
Date of Concession Agreement	October 12, 2017
Concession Period	17 Years (Construction Period 2 Years from Appointed date, Operation period 15 years from COD)
Appointed Date	06.09.2018
Construction Period	02 years from Appointed date
Completion Date	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	Tree felling permission is awaited.
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. 9 Estimates approved by Competent Authority and Balance 6 estimates are under the process of obtaining sanction from the Competent Authority. Estimate for shifting of 4 towers has to be obtained from TANTRASCO. Expected on 15.09.2018. Joint inspection completed with filed officers.
9	Water Pipes Shifting	Tamilnadu Water Supply and Drainage Board	In progress	30 Nos. Estimates have been received from Kumbakonam Union, 01 Estimate from Darasuram Municipality and 1 estimate from EE, TWAD Thanjavur has been received. All the estimates are approved by the RO, NHAI Madurai.
10	Drawing Water from river/ reservoir	-	NA	-

2.1. Land Acquisition

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

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

	Design Chainage (Km)	Design Length (Km)	Width (m)	Remarks
Stretch	116.440 to 117.600	1.160	15.00	Within 90(Ninety) days of the Appointed date
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	19.215	
iv)	Trees	Km	15.310	
v)	Rural Water Supply lines	Km	10.975	
C)	Net Hindered Length (both Side)	Km	31.655	
D)	Total Project Length (both Side)	Km	47.835	
E)	% Hindered Length	%	66.17%	

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 7.5 - Details of Obstacles Under Hindrance								
Dr No.	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Type	Remarks
			From	To				
1	30	Houses (P no.) Electrical Pole & Trees	116+110	116+140	Houses (P no.) Mangrove farm, Coconut farm & Electrical Pole (P no.)	30	Houses	
2	30	Houses (Q no.) Electrical Pole (P no.) & Trees	116+140	116+170	Bus shelter & Electrical Transformer	30	Bus Shelter	
3	50	Houses (P no.) Electrical Pole & Line crossing & Trees	116+190	116+240	Houses (P no.) & Coconut Trees (P no.)	50	Houses	
4	50	Houses (P no.) Culvert & Trees	116+240	116+290	Trees	50	Houses	
5	50	Electrical Pole & Trees	116+290	116+340	Canal crossing, culvert & Trees	50	Electrical Utility	
6	50	Houses (I no.) Electrical Pole & Trees	116+340	116+390	Canal crossing & Trees	50	Electrical Utility	
7	50	Houses (P no.) Electrical Pole & Trees	116+400	116+450	Bore well, Pump set, Electrical Pole & Trees	50	Bore well & Pump set	
8	50	Trees	116+450	116+500	Houses (I no.) Electrical Pole & Trees	50	Houses	
9	50	Houses (P no.) Electrical Pole & Trees	116+500	116+550	Houses (I no.) & Coconut Trees	50	Houses	
10	50	Temple, House (I no.) Electrical Pole (P no.)	116+600	116+650	Houses (P no.) & Coconut Trees	50	Temple	
11	50	Houses (I no.) Electrical Poles & Trees	116+650	116+700	Houses (P no.) & Coconut Trees	50	Houses	
12	50	Houses (P no.) Culvert, Electrical Pole & Coconut Trees	116+700	116+750	Houses (P no.) & Coconut Trees	50	Houses	
13	30	Houses (P no.) Electrical Pole (P no.) & Trees	116+750	116+780	Coconut Trees & Nala	30	Houses	
14	70	Houses (P no.) Electrical Poles & Trees	116+780	116+850	Coconut Trees, Fencing & Electrical Pole	70	Houses	
15	50	Houses (I no.) Electrical Pole (I no.) & Trees	116+850	116+900	Church & Shops (P no.)	50	Church	
16	50	Houses (P no.) Electrical Poles & Trees	116+900	116+950	Houses (I no.) Electrical Poles & Trees	50	Houses	
17	70	Houses (Q no.) Electrical Pole & Trees	116+950	116+1020	House (P no.) Pond & Trees	70	Houses	
18	30	Temple, Bus shelter, House (I no.) Electrical Pole & Trees	116+1020	116+1050	House (P no.) Pond & Trees	30	Houses	
19	50	Houses (P no.) Electrical Poles (P no.) & Trees	116+1050	116+1100	Houses (P no.) Fashion Shop, Electrical Pole, Trees & Pond	50	Houses	
20	50	Temple, House (P no.) & Coconut Trees	116+1100	116+1150	Houses (P no.) Electrical Poles & Trees	50	Houses	
21	50	Houses (Q no.) Electrical Poles & Trees	116+1150	116+1200	Houses (P no.) Electrical Poles & Trees	50	Houses	
22	50	Houses (Q no.) Electrical Poles & Trees	116+1200	116+1250	Houses (Q no.) Electrical Poles & Trees	50	Houses	
23	50	Houses (I no.) Electrical Poles & Trees	116+1250	116+1300	Houses (I no.) Electrical Poles & Trees	50	Houses	
24	50	Houses (P no.) Electrical Poles & Trees	116+1300	116+1350	Houses (P no.) Electrical Poles & Coconut Trees	50	Houses	
25	50	Houses (I no.) Bus shelter, Water Tank, Electrical Pole & Trees	116+1350	116+1400	Houses (P no.) Electrical Poles & Trees	50	Houses	
26	50	Houses (I no.) Electrical Poles & Trees	116+1400	116+1450	Trees & Electrical Poles	50	Houses	
27	50	Trees & Electrical Poles	116+1450	116+1500	Houses (I no.) Electrical Poles & Trees	50	Houses	
28	50	Houses (P no.) Electrical Poles & Trees	116+1500	116+1550	Houses (Q no.) Electrical Poles & Trees	50	Houses	
29	50	House (P no.) Coconut farm, Electrical Pole (P no.) & Line crossing & Trees	116+1550	116+1600	House, Electrical Pole (P no.) & Trees	50	Electrical Utility	
30	50	House (P no.) Teak wood Trees	116+1600	116+1650	Bus shelter, House (Q no.) Electrical Pole (Q no.) & Teak wood Trees	50	Houses	
31	50	Temple, House (Q no.) Electrical Pole & Coconut farm	116+1650	116+1700	House (Q no.) Electrical Poles (P no.) & Coconut Trees	50	Houses	
32	50	Coconut farm, Trees	116+1700	116+1750	Houses (P no.) Electrical Pole & Trees	50	Houses	
33	50	Coconut farm, Pond & Trees	116+1750	116+1800	Temple, House (P no.) & Electrical Pole	50	Temple	
34	30	Houses (P no.) Electrical Pole, Culvert & Coconut farm	116+1800	116+1830	Houses (Q no.) Electrical Poles & Coconut farm	30	Houses	
35	70	Houses (P no.) Electrical Pole, Culvert, Nala & Coconut farm	116+1830	116+1900	Houses (P no.) Electrical Poles & Coconut farm	70	Houses	
36	50	Houses (I no.) Electrical Poles & Coconut farm	116+1900	116+1950	Houses (Q no.) Electrical Poles, Culvert & Trees	50	Houses	
37	50	Shops, Electrical Pole & Coconut farm	116+1950	116+2000	House, Electrical Pole & Teak wood Trees	50	Houses	
38	50	Houses (P no.) Electrical Poles & Coconut Trees	116+2000	116+2050	Houses (I no.) Petrol Pump, Electrical Poles (P no.) & Coconut Trees	50	Petrol pump	
39	50	Houses (P no.) Shops, Coconut & Teak wood Trees	116+2050	116+2100	Houses (Q no.) Electrical Pole & Trees	50	Houses	
40	50	Houses (P no.) Electrical Poles, Coconut & Teak wood Trees	116+2100	116+2150	Houses (P no.) Electrical Poles, Coconut & Teak wood Trees	50	Houses	
41	50	Houses (I no.) & Coconut farm	116+2150	116+2200	House (I no.) Electrical Pole & Coconut Trees	50	Houses	
42	50	Houses (P no.) Fencing, Electrical Pole, Coconut & Teak wood Trees	116+2200	116+2250	Houses (P no.) Fencing, Electrical Pole, Coconut, Mango Trees & Fish Pond	50	Houses	
43	30	Houses, Coconut & Teak wood Trees	116+2250	116+2280	Pond & Trees	30	Houses	
44	10	Shops, Coconut & Teak wood Trees	116+2280	116+2380	Next crop planted & Fencing	10	Shops	
45	80	Next crop planted, Electrical Poles & Trees	116+2380	116+3180	House (I no.), Transformer, Electrical Pole (I no.) & Trees	80	Electrical Utility	
46	50	Houses (Q no.) Culvert & Trees	116+3180	116+3680	Houses (P no.) Electrical Poles (Q no.) & Trees	50	Houses	
47	30	Houses (Q no.) Electrical Poles & Trees	116+3680	116+3980	Houses (I no.) Fencing, Electrical Pole (I no.) & Trees	30	Houses	
48	70	Preparing for next crop, Electrical Pole & Trees	116+3980	116+4680	Houses (P no.) Electrical Pole (P no.) & Trees	70	Electrical Utility	
49	50	Electrical Pole & Trees	116+4680	116+5180	Houses (P no.) Electrical Pole (P no.) & Trees	50	Houses	
50	10	Electrical Pole & Trees	116+5180	116+5280	Transformer, Electrical Poles (Q no.) & Trees	10	Electrical Utility	
51	-		116+5280	116+5380	Electrical Pole	10	Electrical Utility	
52	50	Coconut Trees, Teak wood Trees & Jungle	116+5380	116+5880	Electrical Pole & Trees	50	Electrical Utility	
53	50	Bus shelter, House (Q no.) Electrical Poles (P no.) & Trees	116+5880	116+6380	Bus shelter, Trees & Jungle	50	Bus Shelter	
54	50	House (I no.) Electrical Pole & Trees	116+6380	116+6880	House (Q no.) Electrical Poles (P no.) & Trees	50	Houses	
55	50	Electrical Pole, Trees & Jungle	116+6880	116+7380	House (P no.) Electrical Pole & Trees	50	Houses	

Sl No.	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Type	Remarks
			From	To				
84	80	Electrical Pole, Trees & Jungle	171+350	171+430	Houses (P no.) Electrical Pole (Q no.) & Trees	80	Houses	
87	70	Electrical Pole, Trees & Jungle	171+130	171+200	Electrical Pole, Trees & Jungle	70	Electrical Utility	
88	50	House (I no.), Electrical Pole, Trees & Jungle	171+500	171+550	Electrical Pole, Culvert, Trees & Jungle	50	Electrical Utility	
89	70	Temple, House (Q no.) & Coconut Trees	171+650	171+720	Houses (P no.) Electrical Pole (M no.) Trees & Jungle	70	Temple	
90	60	Shops, Houses, Electrical Pole, Coconut Trees, Jungle & Culvert	171+750	171+810	Coconut Trees (P no.) Trees & Jungle	60	Houses	
91	10	Pump set, Structure & Coconut Trees (P no.)	171+680	171+790	Electrical Pole & Trees	10	Pump house	
92	50	Trees & Jungle	171+700	171+750	Electrical Pole	50	Electrical Utility	
93	50	Transformer, Electrical Pole & Trees	171+800	171+850	Church Gate, Boundary Wall	50	Compound Wall	
94	15	Transformer, Electrical Pole (I no.)	171+920		Electrical Pole (P no.)	15	Electrical Utility	
95	70	Electrical Pole, existing bridge structure & Trees		177+070	Electrical Pole & Trees	70	Electrical Utility	
96		Pipe crossing & Trees		177+030	Pipe crossing & Trees		Trees	
97				177+080	Temple, Electrical Pole, Canal & Banyan Trees	75	Temple	
98	70	Electrical Pole & Trees		177+130	Trees (Q no.)	70	Electrical Utility	
99	15	Electrical Pole, Canal, Banana farm & Teak wood Trees		177+000	Pump set & Electrical Pole	15	Pump set	
100	80	Banana farm, Canal, Teak wood Trees, Transformer & Electrical Pole	177+070	177+300	Teak wood Trees, Electrical Pole & Banana farm	80	Electrical Utility	
101	100	Electrical Pole, Teak wood Trees & Canal	177+300	177+400	HP Petrol Bunk & Electrical Pole	100	Petrol pump	
102	100	Canal, Teak wood Trees	177+400	177+500	Coconut farm, Canal, Teak wood Trees	100	Trees	
103	100	Small structure (Entrance Arch), Teak wood Trees & Canal	177+500	177+600	Teak wood Trees & Jungle	100	Compound Wall	
104	170	Teak Wood Trees, Canal & Jungle	177+000	177+870			Trees	
105	70	Teak wood Trees, Electrical Pole & Existing bridge structure (On Branch Road)		177+870	Bus shelter, Electrical Pole & Trees	75	Bus Shelter	
106	10	Teak wood Trees & Canal		177+900	Electrical Pole & Jungle	10	Electrical Utility	
107	100	Canal & Teak wood Trees	177+900	178+000	Electrical Pole, Trees & Jungle	100	Electrical Utility	
108	150	College Boundary & Arch Structure, Lighting Pole & Canal crossing	178+000	178+150	Electrical Pole (Q no.)	150	Compound Wall	
109	70	Canal, Teak wood Trees & Jungle	178+030	178+300	Transformer, Electrical Pole (P no.) & Trees	70	Electrical Utility	
110	50	Electrical Pole & Pipe crossing, Teak wood Trees, Existing Culvert & Jungle	178+300	178+350	Electrical Pole & Trees & Jungle	50	Electrical Utility	
111	180	Electrical Pole, Teak wood Trees & Jungle	178+410	178+690	Electrical Pole, Trees & Jungle	180	Electrical Utility	
112	70	Teak wood Trees & Jungle		178+650	Electrical Pole, Canal Trees & Jungle	70	Electrical Utility	
113	30	Houses (P no.) & Trees		178+000	Electrical Pole, Trees & Jungle	30	Houses	
114	80	Electrical Pole, Trees & Jungle		178+050	Electrical Pole, Trees & Jungle	80	Electrical Utility	
115	75	Temple & Trees		178+850	Bus shelter, Godown, Overhead Tank & Electrical Pole	75	Temple	
116	10	Canal crossing & Trees		178+900	Pump set & Electrical Pole	15	Pump set	
117	70	Houses (Q no.) Electrical Pole (P no.) & Trees		178+950	Transformer, Electrical Pole (I no.) & Trees	70	Houses	
118	50	Trees (P no.) & Jungle	179+100	179+150			Trees	
119			179+250	179+310	Transformer, Electrical Pole (P no.) & Trees	60	Electrical Utility	
120			179+550		Pump house, Electrical Pole & Trees (Q no.)	30	Pump house	
121	70	Fencing, Electrical Pole & Trees (Q no.)	179+800	179+970	Trees (P no.) & Electrical Pole	70	Electrical Utility	
122	100	House, Hut (I no.), Transformer	179+950	179+050	Electrical Pole & Fencing	100	Houses	
123	50	Trees	179+050	179+100	Fencing	50	Trees	
124	100	Trees (I no.)	179+100	179+200	Trees (I no.)	100	Trees	
125	50	Electrical Pole (P no.)	179+300	179+350	Trees (Q no.)	50	Electrical Utility	
126	50	Bore well, Water tap, Electrical Pole & line crossing, A & advertisement board & Trees	179+350	179+400	Electrical Pole & line crossing, Borewell, Advertisement	50	Houses	
127	50	Trees (P no.) & Jungle	179+400	179+450	Advertisement board	50	Trees	
128	50	House (P no.), Electrical Pole & Trees	179+450	179+500	House (P no.), Electrical Pole & Trees	50	Houses	
129	50	House (Q no.), Electrical Pole & Trees	179+500	179+550	House (I no.), Electrical Pole & Trees	50	Houses	
130	50	House (I no.), Electrical Pole & Trees	179+550	179+600	House (Q no.), Electrical Pole & Trees	50	Houses	
131	50	House (Q no.), Electrical Pole & Trees	179+600	179+650	Temple, Water tank, Bore well, House (P no.), Electrical Pole & Trees	50	Temple	
132	50	House (P no.), Electrical Pole & Trees	179+650	179+700	Demolished Govt building, House (P no.), Electrical Pole & Trees	50	Houses	
133	100	Electrical Pole & Trees	179+700	179+800	Compound Wall	100	Compound Wall	
134	50	Houses (Q no.), Electrical Pole & Trees	179+800	179+850	Houses (I no.), Electrical Pole & Trees	50	Houses	
135	50	Houses (I no.), Electrical Pole & Trees	179+850	179+900	Houses (Q no.), Electrical Pole & Trees	50	Houses	
136	50	Govt building, House (I no.), Electrical Pole & Trees	179+900	179+950	Houses (Q no.), Electrical Pole & Trees	50	Houses	
137	100	House (I no.), Water tap & Trees	179+950	179+050	Houses (Q no.) & Trees	100	Houses	
138	50	Building, Hut (P no.) & Trees (Q no.)	179+050	179+100	Temple, House (P no.), Electrical Pole (I no.) & Trees (I3 no.)	50	Houses	
139	100	Electrical Pole, Pond & Trees	179+100	179+200	House, Electrical Pole & Trees	100	Houses	
140	100	Pond & Trees	179+200	179+300	Pond & Trees	100	Trees	
141	100	House (Q no.), Electrical Pole & Line crossing & Trees	179+300	179+400	House (Q no.), Electrical Pole & Line crossing & Trees	100	Houses	
142	100	Bus shelter, Fencing, Houses (I no.), Electrical Pole & Trees (I no.)	179+400	179+500	Pipe (I2), Houses (I no.), Hut, Electrical Pole & Trees (I3 no.)	100	Houses	
143	100	Houses (I no.), Hand pump, Transformer & Electrical Pole	179+500	179+600	Temple, House (I no.), Electrical Pole (P no.) & Trees (I3 no.)	100	Houses	
144	100	Bus shelter, Pump house, Electrical Pole (I no.) & Trees (I2 no.)	179+600	179+700	Electrical Pole (I no.), Telephone Pole, Sign board & Trees (I1 no.)	100	Houses	
145	100	Pump house, Electrical Pole (P no.), Trees (P no.) & Nala	179+700	179+800	Electrical Pole (I no.) & Trees (Q no.)	100	Pump house	
146	100	Building (I no.), Electrical Pole (I no.), Sign board (I no.) & Trees (I1 no.)	179+800	179+900	Pump house, Electrical Pole (I no.), Transformer, Sign board & Trees (I6 no.)	100	Houses	

Sl No.	Obstruction Length (m)	LHS - Type of Hindrance	Change		RHS - Type of Hindrance	Obstruction Length (m)	Type	Remarks
			From	To				
117	100	Building (P no), Electrical Pole (P no), Sign boards (I no) & Trees (I0 no)	17+4900	17+4300	Arch, Compound Wall, Electrical Pole (P no) & Trees (I no)	100	Houses	
118	70	Electrical Pole (I no) & Line crossing	17+4150	17+4300	Electrical Pole (I no), Sign boards (P no) & Trees (I no)	70	Electrical Utility	
119	70	Electrical Pole (I no), Trees (I no) & Poles	17+4500	17+4650	Electrical Pole (I no), Transformer & Trees	70	Electrical Utility	
120	30	Commercial building (P no), Electrical Pole (P no) & Line crossing & Trees (I no)	17+4650	17+4800	Building Compound Wall, Electrical Pole (P no) & Trees (I no)	30	Compound Wall	
121	75	Fencing	17+4800	17+4900	Fencing & Electrical pole	75	Compound Wall	
122	80	Trees & Electrical Pole	17+4900	17+4900	Compound Wall & Electrical Pole	80	Compound Wall	
123	50	Trees (I no)	17+4000	17+4150	Pump house, Bare wall, Transformer & Electrical Pole (I no)	30	Pump House	
124	10	Electrical Pole (I no)	17+4150	17+4300	Electrical Pole (I no)	10	Electrical Utility	
125	-	-	17+4300	17+4300	Electrical Pole (I no)	70	Electrical Utility	
126	75	Small Temple with Gate & Trees (I no)	17+300	17+375	Electrical Pole (I no)	70	Temple	
127	10	Tree	17+375	17+400	Electrical Pole (I no)	70	Electrical Utility	
128	15	Electrical Pole Tree & Existing Culvert	17+4100	17+4250	Electrical Poles (I no)	30	Electrical Utility	
129	10	Tree	17+4250	17+4350	Electrical Pole (I no)	70	Electrical Utility	
130	-	-	17+4350	17+4600	Electrical Poles	10	Electrical Utility	
131	30	Trees & Jungle	17+4600	17+4900	Shops (P no) & Houses (P no), Electrical Poles (P no) & Trees	10	Houses	
132	60	Fencing, Trees & Jungle	17+4900	17+8000	-	-	Fencing	
133	10	Indian Oil Petrol Bunk, Small Temple steel pole & Trees	17+4000	17+4900	Trees & Jungle	70	Petrol pump	
134	70	Under construction House, Electrical Pole (I no)	17+4900	17+4950	-	-	Electrical Utility	
135	50	Shops (P no), Transformer & Electrical Poles (P no)	17+4950	17+4900	Electrical Pole & Trees	70	Shops	
136	70	Electrical Pole (I no), Coconut farm & Jungle	17+4000	17+4170	Fencing, Electrical Pole (P no), Trees (I no) & Jungle	70	Electrical Utility	
137	30	Electrical Pole (I no), Street light & Steel arch	17+4170	17+4900	Under construction house, Trees & Jungle	10	Houses	
138	30	Electrical Pole, Trees & Jungle	17+4900	17+4300	Trees & Jungle	70	Electrical Utility	
139	30	Trees (I no)	17+4300	17+4100	Trees & Jungle	70	Trees	
140	30	Houses (P no), Trees & jungle	17+4100	17+4100	Electrical Pole (I no), Coconut Trees (I0 no) & Existing culvert	30	Houses	
141	10	Houses (P no), Electrical Pole & Jungle	17+450	17+470	Small Temple & Jungle	10	Houses	
142	30	Transformer, Electrical Poles (P no), Trees & Jungle	17+470	17+490	Electrical Pole & Line crossing, Trees & Jungle	30	Electrical Utility	
143	50	Wooden work factory, Electrical Pole (I no), Trees & Jungle	17+490	17+470	Banana farm, Trees & Electrical Pole	50	Shops	
144	50	Trees (P no) & Existing Culvert	17+800	17+850	Shops (P no), Entrance Arch, Coconut Trees	50	Shops	
145	50	Fencing & Trees	17+850	17+900	Fencing & Tree wood Trees	50	Trees	
146	50	Building, Electrical Pole, Trees (I no)	17+900	17+950	Compound Wall, Electrical Pole & Trees	50	Houses	
147	70	Trees (I no) & Jungle	17+950	120+000	Transformer, Electrical Pole (P no) & Jungle	70	Electrical Utility	
148	70	Electrical Pole & Trees	120+000	120+170	Electrical Poles (P no), Arch & Trees	70	Electrical Utility	
149	60	Houses (I no), Electrical Pole (P no), Coconut & tree wood Trees	120+170	120+900	Houses (I no), Electrical Pole (I no) & Transformer	60	Houses	
150	50	Houses (P no), Electrical Pole & Trees (I no)	120+900	120+950	Houses (P no), Electrical Pole (P no) & Coconut Trees	50	Houses	
151	50	Houses, Fencing (I no), Electrical Pole & Trees (I no)	120+950	120+300	Houses (I no), Electrical Pole (I no) & Coconut Trees	50	Houses	
152	50	Shops, Electrical Pole & Trees	120+300	120+350	Compound Wall, Electrical Pole (P no) & Trees	50	Compound Wall	
153	50	Houses (I no), Electrical Poles (P no) & Trees	120+350	120+100	Houses (P no), Electrical Poles (P no) & Trees	50	Houses	
154	50	Houses (I no), Electrical Poles (P no) & Trees	120+100	120+150	Houses (I no), Trees & Jungle	50	Houses	
155	50	Under construction building, Electrical Pole & Tree wood Trees	120+150	120+400	Fencing, Trees, Electrical Pole & Jungle	50	Houses	
156	70	Tree wood Trees & Jungle	120+400	120+550	Trees & Jungle	70	Trees	
157	70	Fencing, Trees & Jungle	120+550	120+600	Fencing Pole preparation shop, Trees & Jungle	70	Shops	
158	70	Trees & Jungle	120+600	120+700	Shops (P no), Electrical Pole (P no) & Trees	10	Shops	
159	30	House with Gate (I no), Electrical Pole (P no)	120+700	120+730	Trees, Electrical Pole & Culvert structure	30	Houses	
160	10	Electrical Pole & line crossing	120+730	120+800	Electrical Pole & line crossing	10	Electrical Utility	
161	10	Trees (I0 no), Trees & Jungle	120+800	120+900	Trees (P no), Electrical Pole, Trees & Jungle	10	Electrical Utility	
162	70	Electrical Pole (P no), Existing culvert & Jungle	120+900	121+000	Arch, Existing culvert, Electrical Pole, Trees & Jungle	70	Electrical Utility	
163	70	Trees (I no) & Electrical Pole	121+000	121+100	Building (I no), Shop, Trees (I no), Electrical Pole & Trees	10	Shops	
164	70	Trees (P no) & Electrical Pole	121+100	121+200	Temple (I no), Trees (I no) & Jungle	70	Temple	
165	70	Hotel (I no) & Electrical Pole (P no)	121+200	121+300	Trees (I no) & Electrical Pole	70	Hotel	
166	30	Compound Shop, Electrical Pole (I no) & Jungle	121+300	121+100	Under construction building, Electrical Pole, Pump set, Trees & Jungle	30	Houses	
167	10	Electrical Pole (P no), Tree wood Trees & Jungle	121+100	121+500	Electrical Pole, Existing culvert & Jungle	30	Electrical Utility	
168	70	Fencing, Trees (P no) & Jungle	121+500	121+600	1x16x16x16, Electrical Pole & Line crossing (P no), Trees & Jungle	10	Shops	
169	70	Fencing, Electrical Pole (P no), Existing culvert & Jungle	121+600	121+700	Electrical Pole, Trees & Jungle	70	Electrical Utility	
170	10	High mast light, Sign boards, Houses (I no), Electrical Poles (P no) & Trees (I no)	121+700	121+800	Advertisement board, Fencing, Houses (I no), Electrical Poles (P no) & Trees	10	Houses	
171	70	Houses (I no), Over head tank, Coconut Trees & Jungle	121+800	121+970	Trees & Jungle	70	Houses	
172	30	Pole crossing & Trees	121+970	127+000	Pole crossing & Trees	30	Trees	

Sl No.	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Type	Remarks
			From	To				
173	10	Coconut farm	137+400	137+410	Trees & Jungle	10	Trees	
174	10	Banana farm & Trees (10 nos)	137+410	137+420	Trees & Jungle	10	Trees	
175	10	House (1 nos), Shop (1 nos) & Electrical Pole	137+420	137+430	Electrical Pole, Trees & Jungle	10	Houses	
176	10	Banana farm	137+430	137+440	Coconut farm	10	Trees	
177	10	House, Tank, wood Trees, Banana & Coconut Trees	137+440	137+450	Tank, wood Trees, Banana & Coconut Trees, Electrical Pole & Jungle	10	Houses	
178	10	Shop & Garden Fencing with Gate	137+450	137+460	Tank, wood Trees, Banana & Coconut Trees, Electrical Pole & Jungle	10	Shops	
179	10	Tank, wood Trees & Trees (10 nos)	137+460	137+470	Compound - all Trees (10 nos) & Jungle	10	Trees	
180	10	Bore well, Pump set, Electrical Pole (1 nos) & Line crossing & Trees	137+470	137+480	Under construction House (1 nos), Electrical Poles (1 nos) & Line crossing & Trees	10	Bore well & Pump set	
181	10	Overhead Water Tank	137+480	137+490	Trees & Jungle	10	Water Tank	
182	10	Trees & Jungle	137+490	137+500	Coconut farm, Electrical Pole (1 nos), Tank, wood Trees & Jungle	10	Electrical Utility	
183	100	Banana farm, Pump set & Trees	137+500	137+600	Pump set, Banana farm, Electrical Poles (1 nos) & Line crossing & Coconut Trees	100	Electrical Utility	
184	100	Water garage (shop), Electrical Pole (1 nos) & Banana farm	137+600	137+700	Coconut Trees, Existing culvert & Jungle	100	Electrical Utility	
185	10	Temple, Hand pump, 1 no. of buildings, Electrical Pole (1 nos) & Trees	137+700	137+710	Electrical Pole (1 nos) & line crossing & Trees	10	Temple	
186	10	High mast light, 1 no. of buildings, Electrical Pole (1 nos) & Trees	137+710	137+720	Houses (1 nos), Street lighting pole, Electrical Pole (1 nos) & Trees	10	Shops	
187	10	House (1 nos), Mango & Coconut Trees & Electrical Pole (1 nos)	137+720	137+730	Trees (1 nos) & Jungle	10	Trees	
188	10	River crossing & Trees (approached)	137+730	137+740	River crossing & Trees (approached)	10	Trees	
189	10	Coconut farm, Pump set & Trees	137+740	137+750	Trees & Jungle	10	Trees	
190	10	Compound - all, Electrical Pole & Trees (1 nos)	137+750	137+760	Trees, Existing culvert & Jungle	10	Trees	
191	10	Hotel (1 nos), Electrical Pole (1 nos) & Trees	137+760	137+770	School compound - all Fencing & Trees (1 nos)	10	Hotel	
192	10	House (1 nos), Electrical Pole (1 nos), School compound - all fencing	137+770	137+780	Compound - all, Transformer, Electrical Pole (1 nos), High & Trees (10 nos)	10	Houses	
193	10	Compound with all, Electrical Pole, Trees & Jungle	137+780	137+790	House (1 nos), Pond, Compound - all building & Electrical Pole & Trees	10	Electrical Utility	
194	10	House, Electrical Pole, Trees & Jungle	137+790	137+800	House, Electrical Pole & Trees	10	Houses	
195	10	House (1 nos), Trees & Jungle	137+800	137+810	House (1 nos), Electrical Pole (1 nos), Trees & Jungle	10	Houses	
196	10	Sign boards, House (1 nos), Building, Electrical Pole (1 nos)	137+810	137+820	Shops, Lighting Pole (1 nos) & Electrical Pole (1 nos)	10	Electrical Utility	
197	10	High mast light, Sign boards & Electrical Pole	137+820	137+830	High mast light, Sign boards & Electrical Pole	10	Electrical Utility	
198	-	-	137+830	137+840	Commercial Building	10	Shops	
199	10	Electrical Pole	137+840	137+850	Plavum	10	Electrical Utility	
200	10	House & Trees	137+850	137+860	House & Trees	10	Houses	Encroachment
201	10	Electrical Pole	137+860	137+870	Tree	10	Electrical Utility	
202	10	Electrical Pole	137+870	137+880	-	-	Electrical Utility	
203	10	Electrical Pole	137+880	137+890	-	-	Electrical Utility	
204	10	Electrical Pole	137+890	137+900	-	-	Electrical Utility	
205	10	Electrical Pole	137+900	137+910	House	10	Houses	
206	10	Pond & Trees	137+910	137+920	Electrical Pole	10	Electrical Utility	
207	-	-	137+920	137+930	Railway Crossing	-	-	ROB @ CH: 137+930
208	10	Electrical Pole & Line Crossing & Pump house	137+930	137+940	Standing Crop	-	Electrical Utility	
209	10	Regulator & Trees	137+940	137+950	-	-	Trees	Water regulator sluice to be relocated
210	10	Electrical Pole & Line Crossing	137+950	137+960	Electrical Pole & Line Crossing	10	Electrical Utility	
211	10	Electrical Pole & Line Crossing	137+960	137+970	Electrical Pole & Line Crossing	10	Electrical Utility	
212	10	Electrical Pole & Line Crossing	137+970	137+980	Electrical Pole & Line Crossing	10	Electrical Utility	
213	10	MT Tower & Banana Farm	137+980	137+990	Banana Farm & Trees	10	Electrical Utility	
214	10	Electrical Pole	137+990	138+000	Electrical Pole	10	Electrical Utility	
215	10	Electrical Pole & Trees	138+000	138+010	Wall & Trees	10	Wall	
216	10	Electrical Pole & Line Crossing	138+010	138+020	Electrical Pole & Line Crossing	10	Electrical Utility	
217	10	Electrical Pole & Line Crossing	138+020	138+030	Electrical Pole & Line Crossing	10	Electrical Utility	
218	10	Coconut trees	138+030	138+040	Coconut trees	10	Trees	
219	10	Electrical Pole & Line Crossing, Standing Crop & Trees	138+040	138+050	Electrical Pole & Line Crossing	10	Electrical Utility	
220	10	Electrical Pole & Line Crossing	138+050	138+060	Electrical Pole & Line Crossing	10	Electrical Utility	
221	100	Coconut farm & Electrical Pole	138+060	138+160	Coconut farm & Electrical Pole	100	Electrical Utility	
222	10	Road crossing, Electrical pole & Trees	138+160	138+170	Pathway from to Sundarapuramli & Pond	10	Electrical Utility	UR @ CH: 138+170
223	10	Electrical Pole & Line Crossing	138+170	138+180	Electrical Pole & Line Crossing	10	Electrical Utility	
224	10	Electrical Pole & Line Crossing	138+180	138+190	Electrical Pole & Line Crossing	10	Electrical Utility	
225	10	Electrical Pole & Line Crossing	138+190	138+200	Electrical Pole & Line Crossing	10	Electrical Utility	
226	10	Electrical Pole & Line Crossing	138+200	138+210	Electrical Pole & Line Crossing	10	Electrical Utility	
227	10	Electrical Pole	138+210	138+220	Electrical Pole	10	Electrical Utility	
228	10	Standing Crop, Tank, wood Trees & Electrical Pole	138+220	138+230	Standing Crop & Tank, wood Trees & Electrical Pole	10	Electrical Utility	
229	10	Standing crop, Transformer, Electrical Pole & Trees	138+230	138+240	Standing crop, Pond crossing (Pathway from to Sundarapuramli) & Trees	10	Electrical Utility	
230	10	Standing crop & Electrical Pole	138+240	138+250	Standing crop & Electrical Pole	10	Trees	
231	10	Electrical Pole & Line Crossing	138+250	138+260	Electrical Pole & Line Crossing	10	Electrical Utility	
232	10	Electrical Pole	138+260	138+270	Electrical Pole	10	Electrical Utility	
233	10	Pump set, Banana farm, Coconut farm & Tank, wood Trees	138+270	138+280	Banana farm, Coconut farm & Tank, wood Trees	10	Pump set	
234	10	Mango farm & Tank, wood Trees	138+280	138+290	Pump set, Mango farm & Tank, wood Trees	10	Pump set	

Sl No.	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Type	Remarks
			From	To				
525	100	Pump set Banana farm, Coconut farm & Canal crossing	138+150	138+250	Pump set Banana farm, Coconut farm & Canal crossing	100	Trees	
526	50	Fish pond, Banana farm & Trees	138+250	138+300	Pump set Fish pond, Banana farm & Trees	50	Fish Pond	
527	10	Electrical Pole & Line Crossing & Trees	138+300		Electrical Pole & Line Crossing & Trees	10	Electrical Utility	
528	50	Road Crossing, Trees & EB Pole	138+300		Pathway from Papanicam Road, Trees	50	Electrical Utility	
529	50	Coconut farm, Electrical Pole & Trees	138+300	138+350	Coconut farm, Electrical Pole & Trees	50	Electrical Utility	
530	50	House (1/ no) Trees & Electrical Pole	138+350	138+400	Coconut farm, Banana farm & Teak wood trees	50	House	
531	100	River crossing & Trees	138+400	138+500	River crossing & Trees	100	Trees	Linear bridge @ CH: 138+501
532	150	Coconut Trees & Banana Trees	138+400	138+550	Coconut Trees & Banana Trees	150	Trees	
533	50	Electrical Pole & Line Crossing, Road crossing & Trees	138+550		Electrical Pole & Line Crossing, Road crossing & Trees	50	Electrical Utility	
534	-		138+550		Pump, Pump house & Bare Well	30	Pump house	
535	10	Electrical Pole & Line Crossing	138+550		Electrical Pole & Line Crossing	10	Electrical Utility	
536	10	Electrical Pole & Line Crossing	138+550		Electrical Pole & Line Crossing	10	Electrical Utility	
537	10	Electrical Pole & Line Crossing	138+550		Electrical Pole & Line Crossing	10	Electrical Utility	
538	10	Electrical Pole & Line Crossing	138+550		Electrical Pole & Line Crossing	10	Electrical Utility	
539	10	Electrical Pole	138+550		Electrical Pole	10	Electrical Utility	
540	-		138+550		Canal Crossing & Trees	50	Trees	
541	-		138+550		EB Pole & Line Crossing	50	Temple	
542	-		138+550		Null to Arun Pond	10	Trees	
543	-		138+550		EB Pole & Line Crossing	50	Electrical Utility	
544	100	Coconut Trees & Electrical pole	138+550	138+650	Coconut Trees & Electrical pole	100	Electrical Utility	
545	-	Electrical Pole & Line Crossing & Trees	138+650		Electrical Pole & Line Crossing & Trees	-	Electrical Utility	
546	10	Electrical Pole & Line Crossing	138+650		Electrical Pole & Line Crossing	10	Electrical Utility	
547	10	Electrical Pole & Line Crossing	138+650		Electrical Pole & Line Crossing	10	Electrical Utility	
548	10	Electrical Pole & Line Crossing	138+650		Electrical Pole & Line Crossing	10	Electrical Utility	
549	-	Road crossing	138+650		Tomatoes, Tobacco	-	-	
550	50	Bare well, Pump house & Trees	138+650		EB Pole & Line Crossing	10	Bare well & Pump house	
551	50	Bare Well	138+650		Electrical Pole & Line Crossing	10	Bare well	
552	-		138+650		Pump set & Trees	50	Pump set	
553	50	High Tension Tower	138+650			-	Electrical Utility	
554	10	Bare Well	138+650			-	Bare well	
555	-		138+650		High Tension Tower	50	Electrical Utility	
556	10	Pump set & Bamboo trees	138+650		Bamboo trees	10	Pump set	
557	50	EB Pole & Trees	138+650		EB Pole & Trees	50	Electrical Utility	
558	-		138+650		Electrical Pole & Line Crossing & Trees	10	Electrical Utility	
559	10	Bare Well & Tree	138+650			-	Bare well	
560	50	Teak wood trees	138+650		Teak wood trees	50	Trees	
561	10	Trees	138+650		Trees	10	Trees	
562	-		138+650		Pump set & Electrical Pole	50	Pump set	
563	10	Electrical Pole & Line Crossing	138+650		Electrical Pole & Line Crossing	10	Electrical Utility	
564	50	Pump set	138+650		Electrical Pole & Line Crossing	10	Pump set	
565	10	Electrical Pole & Line Crossing	138+650		Electrical Pole & Line Crossing	10	Electrical Utility	
566	-		138+650			-	Electrical Utility	
567	50	Trees & Electrical Pole	138+650		Trees & Electrical Pole	50	Electrical Utility	
568	-		138+650		River Crossing	-	Trees	
569	50	Electrical Pole & Line Crossing	138+650	138+700	Electrical Pole & Line Crossing & Trees	50	Electrical Utility	
570	10	Nala Crossing, Trees & Electrical Pole	138+700		Nala Crossing, Trees & Electrical Pole	10	Electrical Utility	
571	50	Pump set, River Crossing, Trees & Electrical Pole	138+700		River Crossing, Trees & Electrical Pole	50	Pump set	
572	50	Pump set	138+700		Trees & EB Pole	50	Pump set	
573	30	Nala Crossing & Trees	138+700		Nala Crossing & Trees	30	Trees	
574	-		138+700		Pump set & Standing Crop	30	Pump set	
575	10	Pump set	138+700			-	Pump set	
576	10	High Tension Tower	138+700		High Tension Tower	10	Electrical Utility	
577	-		138+700		Bare well & trees	10	Bare well	
578	50	Bare well & Pump house	138+700			-	Electrical Utility	
579	50	Bare well & Pump house	138+700			-	Bare well & Pump house	
580	30	Nala Crossing & Trees	138+700	138+750	House	30	House	
581	-		138+700	138+750	Houses, Trees & Electrical Line	10	Electrical Utility	
582	50	Teak wood trees	138+750		Teak wood trees	50	Trees	
583	30	Trees	138+750		Trees	30	Trees	
584	30	Electrical Pole & Line Crossing	138+750		Electrical Pole & Line Crossing	30	Electrical Utility	
585	50	Road Crossing, Trees & EB Pole	138+750		Road Crossing, Trees & EB Pole	50	Electrical Utility	
586	-		138+750	138+800	Trees & EB Pole & Nala crossing	150	Trees	
587	50	Banana Farm, Pump set & EB Pole	138+800	138+850	Banana Farm, Pump set & EB Pole	50	Pump set	
588	10	EB Electrical Pole	138+800		Trees (1/ no)	50	Electrical Utility	
589	50	Trees (1/ no) & Pump set	138+800		EB Electrical Pole & Line crossing	10	Pump set	
590	10	EB Pole & trees (1/ no)	138+800		Pump set & EB Pole	50	Pump set	
591	10	EB Electrical Pole	138+800		EB Electrical Pole	10	Electrical Utility	
592	10	EB Electrical Pole	138+800			-	Electrical Utility	
593	50	River crossing	138+800			-	Trees	
594	50	River crossing	138+800			-	Trees	
595	50	Pump set	138+800		Pump set & Electrical Pole	50	Pump set	
596	10	EB Pole & Line crossing	138+800		Pump set, EB Pole & Line Crossing & Trees (1/ no)	50	Pump set	
597	10	EB Pole & Line crossing	138+800		EB Pole & Line crossing	10	Electrical Utility	
598	10	EB Pole & Line crossing	138+800			-	Electrical Utility	
599	10	Trees (1/ no)	138+800	138+850	Trees (1/ no) & Pump set	10	Pump set	
600	10	EB Pole & Line crossing	138+850		EB Pole & Line crossing	10	Electrical Utility	
601	50	Pump house	138+850		EB Pole & Line crossing & Trees (1/ no)	10	Pump house	
602	50	River Crossing, Trees & EB Pole	138+850		Regulator & trees	50	Water Regulator	
603	10	EB Pole & Line crossing & Trees (1/ no)	138+850		EB Pole & Line crossing & Trees (1/ no)	10	Electrical Utility	
604	-		138+850	138+900	Electrical Pole	50	Trees	
605	130	Coconut Farm & Teak wood trees	138+900	138+1030	Coconut Farm & Teak wood trees	130	Trees	
606	-	Trees	138+900		Small Temple (1/ no) & Trees (1/ no)	-	Temple	
607	50	Pump set & Electrical Pole & line crossing	138+900		Electrical Pole	50	Pump set	
608	10	Electrical Pole	138+900			-	Electrical Utility	
609	10	Electrical Pole	138+900			-	Pump set	
610	10	Electrical Pole	138+900		Electrical Pole	10	Electrical Utility	
611	10	Electrical Pole	138+900		Electrical Pole	10	Electrical Utility	
612	-		138+900		Jungle	50	Trees	
613	-	Road Crossing, Trees & EB Pole	138+900		Solanum glabrum to Palasabadi	-	Electrical Utility	

Sl No.	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Type	Remarks
			From	To				
375	-		157+108	157+08	Coconut Farm & Banian trees	100	Trees	
376	-	Pump set - all & Electrical Pole	157+138		Pump set - all & Electrical Pole	-	Pump house	
377	70	Bare - all & Pump house	157+138		Trees		Bare - all & Pump set	
378	30	Pi er crossing, Pump set & Trees	157+888		Pi er crossing Trees	30	Trees	
379	70	Canal Crossing & Trees	157+900		Canal Crossing & Trees	70	Trees	
380	-		153+000		Trees (15 - 000)	10	Trees	
381	70	EB Pole & Trees	153+700		Bare - all & Pump set	70	Bare - all & Pump set	
382	10	EB Pole & Trees	153+900		EB Pole & Trees	10	Electrical Utility	
383	10	Electrical Pole	153+900		Electrical Pole	10	Electrical Utility	
384	30	Bare - all & Pump house	153+600		Electrical Pole & Trees	30	Bare - all & Pump set	
385	60	Electrical Poles & Trees (1 - 000)	153+700		Electrical Poles & Trees (1 - 000)	60	Electrical Utility	
386	15	Electrical Pole	153+700		Electrical Pole & Trees	15	Electrical Utility	
387	15	Road crossing & Trees	153+900		Road crossing & Trees	15	Trees	
388	70	Canal Crossing & Trees	153+970		Canal Crossing & Trees	70	Trees	
389	15	Electrical Pole	154+050		Electrical Pole	15	Electrical Utility	
390	10	Electrical Pole	154+150		Electrical Pole	10	Electrical Utility	
391	10	House: (1 - 000), Electrical pole & Trees	154+570	154+630	House: (1 - 000), Electrical pole & Trees	10	House	
392	170	Bamboo trees: (2 - trees) & Canal crossing	154+630	154+800	Bamboo trees: (2 - trees) & Canal crossing	170	Trees	
393	10	Electrical Pole	154+630		Electrical Pole & Trees	15	Electrical Utility	
394	90	House: (1 - 000) & Trees	154+630	154+720	Bamboo trees	90	House	
395	130	Coconut Farm, Pi er crossing & Electrical pole:	155+450	155+580	Coconut Farm, Pi er crossing & Electrical pole:	130	Electrical Utility	
396	80	Bare - all & Pump house & Electrical Pole: & \net crop planted due to dispute in compensation.	155+170	155+250	Electrical pole: & Trees & \net crop planted due to dispute in compensation.	80	Bare - all & Pump house	
397	80	Electrical Pole & \net crop planted due to dispute in compensation.	155+250	155+330	\net crop planted due to dispute in compensation.	80	Electrical Utility	
398	100	Trees & \net crop planted due to dispute in compensation.	155+250	155+350	Bare - all & Trees & \net crop planted due to dispute in compensation.	100	Trees	
399	170	Coconut trees: (1 - 000) & \net crop planted due to dispute in compensation.	155+350	155+520	Bare - all & Electrical Pole & \net crop planted due to dispute in compensation.	170	Trees	
400	50	Coconut Farm & Electrical Poles	155+700	155+750	Coconut Farm & Electrical Poles	50	Trees	
401	10	Coconut Farm, Pump set & Electrical pole:	155+750	155+760	House, Coconut Farm & Electrical Pole	10	House	
402	10	Pump set & Electrical pole:	155+760	155+770	Road crossing	10	Electrical Utility	
403	70	Water tank & Trees	155+780		Trees	70	Trees	
404	10	Electrical Pole & Tree	155+950		Electrical Pole	10	Electrical Utility	
405	10	Canal crossing & Electrical Pole & Line crossing	156+000		Canal crossing & Electrical Pole & Line crossing	10	Electrical Utility	
406	10	Electrical Pole & Line crossing	156+050		Electrical Pole & Line crossing	10	Electrical Utility	
407	130	Canal crossing & trees	156+270	156+400	Canal crossing & trees	130	Trees	
408	10	Pump set, Electrical Pole & Trees	156+380	156+390	Jungle, Electrical Pole & Trees	10	Pump set	
409	70	Electrical Pole	156+170	156+240	Tree - 000 trees	70	Electrical Utility	
410	30	Water	156+110	156+140	Jungle, Electrical Pole & Trees	30	Trees	
411	10	Road Crossing, Trees & EB Pole	156+170	156+180	Land: agricultural & Personal land	10	Electrical Utility	
412	70	Road Crossing, Trees & EB Pole	156+180	156+250	Land: agricultural & Personal land	70	Electrical Utility	
413	50	Pi er crossing & Trees	156+250	156+300	Pi er crossing & Trees	50	Trees	
414	10	House, Electrical pole	157+080		Coconut trees	80	Electrical Utility	
415	50	Road crossing, Electrical pole & Trees	157+100		Mulagambal to Thiruvananthapuram	50	Electrical Utility	
416	30	\ala Crossing, Electrical Pole & Trees	157+150		\ala Crossing & Trees	30	Electrical Utility	
417	50	Fish Pond, Electrical pole & Coconut trees	157+150	157+200	Fish Pond, Electrical pole & Coconut trees	50	Fish Pond	
418	10	Wall, Electrical Pole & Trees	157+210		Wall, Electrical Pole & Trees	10	Wall	
419	60	Electrical Pole, Jungle & Trees	157+270	157+330	Electrical Pole, Jungle & Trees	60	Electrical Utility	
420	70	High Tension Tower	158+850			-	Electrical Utility	
421	10	Canal crossing, Jungle & Trees	159+080	159+170	Canal crossing, Jungle & Trees	10	Trees	
422	10	Trees & Electrical Pole	159+100		Pump set, Bare - all & Trees	70	Pump set	
423	10	Electrical Pole	159+150		Electrical Pole	10	Electrical Utility	
424	70	Electrical Pole & Line crossing	159+550		House & Trees	70	Electrical Utility	
425	80	Trees, Jungle & Electrical Pole	159+610	159+690	Trees, Jungle & Electrical Pole	80	Electrical Utility	
426			159+700	159+770	Electrical Pole, Jungle & Trees	70	Pump set	
427	10	Electrical Pole	159+950			-	Electrical Utility	
428			160+080	160+170	Trees, Jungle & Electrical Pole	10	Trees	
429	10	House:	160+170	160+180	House: (1 - 000), Water Tank & Trees	10	House	
430	70	House, Trees (1 - 000), Electrical pole & line crossing	160+180	160+250			House	
431	10	House: & Hut	160+180	160+270			House	
432	10	Electrical Pole:	160+280				Electrical Utility	
433	10	Wall, Pump set, Electrical Pole & Trees	160+310				Wall	
434	10	Pump house, Electrical Pole & trees	160+670		Small structure, Electrical Pole & trees	10	Pump house	
435	70	Canal crossing, Jungle, Trees & Electrical Pole	160+710	160+780	Canal crossing, Jungle, Trees & Electrical Pole	70	Electrical Utility	
436	50	Temple, Electrical Pole, Trees & Jungle	160+780		Temple & Electrical Pole	50	Temple	
437	70	Bare - all, Trees (1 - 000), Electrical Pole	160+950	161+020	Trees & Electrical Pole	70	Electrical Utility	
438	30	Jungle, Trees & Road crossing	161+080	161+110	Jungle, Trees & Road crossing	30	Trees	
439	10	Bare - all & Pump set	161+110	161+120	Electrical Pole	10	Bare - all & Pump house	
440	70	Canal crossing, Jungle & Trees	161+200	161+270	Canal crossing, Jungle & Trees	70	Trees	
441	10	Electrical Pole, Jungle & Trees	161+170		Electrical Pole, Jungle & Trees	10	Electrical Utility	
442	10	Electrical Pole, Jungle & Trees	161+120	161+200	Electrical Pole, Jungle & Trees	50	Electrical Utility	
443	30	Pump room, Electrical pole	161+250				Pump house	
444	10	Pump set, Electrical Pole & Trees	161+800		Electrical Pole & Trees	10	Pump set	
445	100	Standing Crop, Electrical Poles & Road crossing	162+000	162+100	Standing Crop, Electrical Poles & Road crossing	100	Trees	
446	50	Standing Crop, Electrical Poles & Trees & Pond	162+100	162+150	Pump set, Standing Crop, Electrical Poles & Trees & Pond	50	Pump set	

Sl No.	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Type	Remarks
			From	To				
197	100	Canal crossing, Electrical Poles	1+7+1+0	1+7+2+0	Houses, Trees @ road, Bore well & Pump Set	100	Houses	
198	70	Electrical Pole, Jungle & Trees	1+7+100		Electrical Pole, Jungle & Trees	70	Electrical Utility	
199	80	Trees @ road	1+7+70	1+7+80	Electrical Pole @ road, Jungle & Trees	80	Electrical Utility	
200	70	Pier crossing, Jungle & Trees	1+7+80	1+7+2+0	Pier crossing, Fencing, Jungle & Trees	70	Trees	
201	10	Electrical Poles, Jungle, Trees & Road crossing	1+2+2+0	1+2+2+0	Houses, Trees & Electrical Pole	10	Houses	
202	10	Houses, Electrical pole, Road Crossing & Trees	1+2+2+0	1+2+2+0	Electrical pole, Road Crossing & Trees	10	Houses	
203	-		1+2+2+0	1+2+2+0	Houses @ road, Electrical pole, Road Crossing & Trees	30	Houses	
204	100	Pier crossing, Jungle & Trees	1+3+7+0	1+4+100	Pier crossing, Jungle & Trees	100	Trees	
205	70	High mast light, Electrical Pole	1+4+100	1+4+2+0	High mast light, Electrical Pole	70	Electrical Utility	
206	75	Shops @ road	1+4+2+0	1+4+2+0	Trees @ road	75	Shops	
	1+700	Total Hindred length on LHS in (m)			Total Hindred length on RHS in (m)	1+820		

Table 2.1 a - Hindrance Photographs

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	30	Houses & neg. Electrical Pole & Trees	11a+110	11a+140	Houses & neg. /long farm Coconut farm & Electrical Pole & neg	30		
	30	Houses & neg. Electrical Pole & neg. & Trees	11a+140	11a+170	Bus shelter & Electrical Transformer	30		
	70	Houses & neg. Electrical Pole & line crossing & Trees	11a+200	11a+270	Houses & neg. & Coconut Trees & neg	70		
	40	Houses & neg. Culvert & Trees	11a+270	11a+310	Trees	40		
	70	Electrical Pole & Trees	11a+320	11a+390	Canal crossing culvert & Trees	70		
	50	Houses & neg. Electrical Pole & Trees	11a+400	11a+450	Canal crossing & Trees	50		
	50	Houses & neg. Electrical Pole & Trees	11a+450	11a+500	Bore Well Pump set Electrical Pole & Trees	50		
	50	Trees	11a+500	11a+550	Houses & neg. Electrical Pole & Trees	50		
	50	Houses & neg. Electrical Pole & Trees	11a+550	11a+600	Houses & neg. & Coconut Trees	50		
	50	Vinayagar Temple Houses & neg. & Electrical Pole & neg	11a+600	11a+650	Houses & neg. & Coconut Trees	50		
	50	Houses & neg. Electrical Pole & Trees	11a+650	11a+700	Houses & neg. & Coconut Trees	50		
	50	Houses & neg. Culvert Electrical Pole & Coconut Trees	11a+700	11a+750	Houses & neg. & Coconut Trees	50		
	30	Houses & neg. Electrical Pole & neg. & Trees	11a+750	11a+780	Coconut Trees & & pole	30		
	70	Houses & neg. Electrical Pole & Trees	11a+780	11a+850	Coconut Trees Fencing & Electrical Pole	70		













Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	50	Houses / no. Electrical Pole (1 no.) & Trees	11 / +000	11 / +050	Church & Shops (2 no.)	50		
	50	Houses (2 no.) Electrical Poles & Trees	11 / +050	11 / +100	Houses / no. Electrical Poles & Trees	50		
	70	Houses (2 no.) Electrical Pole & Trees	11 / +100	11 / +170	House (1 no.) Pond & Trees	70		
	30	Temple, Bus shelter, Houses (1 no.) Electrical Pole & Trees	11 / +170	11 / +150	House (1 no.) Pond & Trees	30		
	50	Houses (2 no.) Electrical Poles (2 no.) & Trees	11 / +150	11 / +200	Houses (2 no.) Pothole Shop, Electrical Poles, Trees & Pond	50		
	50	Temple, Houses (1 no.) & Coconut Trees	11 / +200	11 / +250	Houses (1 no.) Electrical Poles & Trees	50		
	50	Houses (2 no.) Electrical Poles & Trees	11 / +250	11 / +300	Houses (1 no.) Electrical Poles & Trees	50		
	50	Houses (2 no.) Electrical Poles & Trees	11 / +300	11 / +350	Houses (2 no.) Electrical Poles & Trees	50		
	50	Houses (1 no.) Electrical Poles & Trees	11 / +350	11 / +400	Houses (1 no.) Electrical Poles & Trees	50		
	50	Houses (2 no.) Electrical Poles & Trees	11 / +400	11 / +450	Houses (2 no.) Electrical Poles & Coconut Trees	50		
	50	Houses (1 no.) Bus shelter, Water Tank, Electrical Poles & Trees	11 / +450	11 / +500	Houses (2 no.) Electrical Poles & Trees	50		
	50	Houses (1 no.) Electrical Poles & Trees	11 / +500	11 / +550	Trees & Electrical Poles	50		
	50	Trees & Electrical Poles	11 / +550	11 / +600	Houses (1 no.) Electrical Poles & Trees	50		
	50	Houses (2 no.) Electrical Poles & Trees	11 / +600	11 / +650	Houses (2 no.) Electrical Poles & Trees	50		
	30	Teak, Wood Trees	11 / +650	11 / +680	Demolished structure & Bamboo Trees	30		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	75	Food Electrical Pole & Trees	117+410		Trees	75		
	50	Electrical Pole & Tree & Food Trees	117+400		Tree & Food Trees	50		
	15		117+405		Pump set Electrical Pole & Food & Coconut Trees	15		
	15		117+400		Canal & Electrical Pole	15		
	18		117+405		Electrical Pole	18		
	10	Electrical Pole	118+400	118+400	Canal & Culvert	15		
	10	Electrical Pole	118+400		Electrical Pole	10		
	10	Electrical Pole & Canal crossing	118+300	118+300	Electrical Pole	10		
	15	Trees	118+110		Trees	15		
	10	Electrical Poles & Food	118+400		Electrical Poles & Food	10		
	30		118+430		Pump set Electrical Pole & Food & Canal crossing	30		
	10	Electrical Pole & Line crossing	118+430		Electrical Pole & Line crossing	10		
	75	Electrical Poles & Food crossing	118+450	118+450	Electrical Poles & Food crossing	75		
	15	Concrete structure	118+380		Coconut Trees & Food	10		
	10	Electrical Pole & Coconut Trees	118+480		Coconut Trees	10		










Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	15	Demolished House Structure	118+920		Demolished House Structure	15		
	10	Electrical Poles (P) and Trees	118+950		Electrical Poles (P) and Trees	10		
	15	Trees (P) and	118+885					
	40	Coconut farm & Teak and Trees	118+350		Coconut farm & Teak and Trees	40		
	15	Concrete Pump room structure & Trees	118+120					
	15		118+600		Garage School Building Structures (Part)	15		
	10	Electrical Pole	118+800					
	10	Trees	118+900		Electrical Pole	10		
	50	House (P) and Coconut Trees	120+000		Electrical Pole	10		
	50	House (P) and Coconut farm, Electrical Pole (P) and Lane crossing & Trees	120+000	120+050	House, Electrical Pole (P) and Trees	50		
	50	House (P) and Teak and Trees	120+050	120+100	Bus shelter, House (P) and, Electrical Pole (P) and Teak and Trees	50		
	50	Temple, House (P) and, Electrical Pole & Coconut farm	120+100	120+150	House (P) and, Electrical Poles (P) and Coconut Trees	50		
	50	Coconut farm, Trees	120+150	120+200	Houses (P) and, Electrical Pole & Trees	50		
	50	Coconut farm, Pond & Trees	120+200	120+250	Temple, Houses (P) and & Electrical Pole	50		
	30	Houses (P) and, Electrical Pole, Culvert & Coconut farm	120+250	120+280	Houses (P) and, Electrical Poles & Coconut farm	30		











Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	70	Houses (1 nos.) Electrical Pole Culvert Pole & Coconut farm	170+780	170+200	Houses (1 nos.) Electrical Pole & Coconut farm	70		
	50	Houses (1 nos.) Electrical Pole & Coconut farm	170+200	170+250	Houses (1 nos.) Electrical Pole & Culvert & Trees	50		
	50	Shops - Electrical Pole & Coconut farm	170+250	170+300	House - Electrical Pole & Teak - road Trees	50		
	50	Houses (1 nos.) Electrical Pole & Coconut Trees	170+300	170+350	Houses (1 nos.) - Petrol Pump, Electrical Pole (1 nos.) & Coconut Trees	50		
	50	Houses (1 nos.) Shops - Coconut & Teak - road Trees	170+350	170+400	Houses (1 nos.) Electrical Pole & Trees	50		
	50	Houses (1 nos.) Electrical Pole Coconut & Teak - road Trees	170+400	170+450	Houses (1 nos.) Electrical Pole Coconut & Teak - road Trees	50		
	50	Houses (1 nos.) & Coconut farm	170+450	170+500	House (1 nos.) Electrical Pole & Coconut Trees	50		
	50	Houses (1 nos.) Fencing - Electrical Pole - Coconut & Teak - road Trees	170+500	170+550	Houses (1 nos.) Fencing - Electrical Pole - Coconut (1 nos.) Trees & Fish Pond	50		
	30	Houses - Coconut & Teak - road Trees	170+550	170+580	Pond & Trees	30		
	40	Shops - Coconut & Teak - road Trees	170+580	170+620	Net crop planted & Fencing	40		
	80	Net crop planted Electrical Pole & Trees	170+620	170+700	House (1 nos.) Transformers Electrical Pole (1 nos.) & Trees	80		
	50	Houses (1 nos.) Culvert & Trees	170+700	170+750	Houses (1 nos.) Electrical Pole (1 nos.) & Trees	50		
	30	Houses (1 nos.) Electrical Pole & Trees	170+750	171+780	Houses (1 nos.) Fencing - Electrical Pole (1 nos.) & Trees	30		
	70	Preparing for net crop - Electrical Pole & Trees	171+780	171+850	Houses (1 nos.) Electrical Pole (1 nos.) & Trees	70		
	50	Electrical Pole & Trees	171+850	171+900	Houses (1 nos.) Electrical Pole (1 nos.) & Trees	50		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	10	Electrical Pole & Trees	171+650		Transformer, Electrical Poles (2 nos) & Trees	70		
	10		171+100		Electrical Pole	10		
	50	Cocunut Trees, Trees & Jungle	171+150		Electrical Pole & Trees	70		
	50	Bus shelter, House (3 nos), Electrical Poles (7 nos) & Trees	171+200	171+250	Bus shelter, Trees & Jungle	50		
	50	House (3 nos), Electrical Pole & Trees	171+250	171+300	House (3 nos), Electrical Poles (6 nos) & Trees	50		
	50	Electrical Pole, Trees & Jungle	171+300	171+350	House (7 nos), Electrical Pole & Trees	50		
	80	Electrical Pole, Trees & Jungle	171+350	171+430	House (7 nos), Electrical Poles (3 nos) & Trees	80		
	70	Electrical Poles, Trees & Jungle	171+430	171+500	Electrical Poles, Trees & Jungle	70		
	50	House (3 nos), Electrical Poles, Trees & Jungle	171+500	171+550	Electrical Poles, Culvert, Trees & Jungle	50		
	70	Temple, House (2 nos) & Cocunut Trees	171+550	171+620	House (7 nos), Electrical Pole, Mangro Trees / Jungle	70		
	60	Shops, House, Electrical Poles, Cocunut Trees, Jungle & Culvert	171+620	171+680	Cocunut Trees (3 nos), Trees & Jungle	60		
	10	Pump set, Structure & Cocunut Trees (3 nos)	171+680	171+790	Electrical Pole & Trees	10		
	70	Trees & Jungle	171+790	171+860	Electrical Pole	10		
	50	Transformer, Electrical Poles & Trees	171+860	171+910	Church Gate, Boundary Wall	50		
	15	Transformer, Electrical Poles (1 nos)	171+930		Electrical Poles (7 nos)	15		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	70	Electrical Poles, existing bridge structure & Trees	177+076		Electrical Pole & Trees	18		
		River crossing & Trees	177+030		River crossing & Trees			
			177+086		Temple, Electrical Pole, Canal & Banyan Trees	75		
	70	Electrical Pole & Trees	177+130		Trees & road	70		
	15	Electrical Poles, Canal, Banana farm & Teak & road Trees	177+066		Pump set & Electrical Poles	15		
	80	Banana farm, Canal, Teak & road Trees, Transformer & Electrical Poles	177+296	177+300	Teak & road Trees, Electrical Pole & Banana farm	80		
	100	Electrical Poles, Teak & road Trees & Canal	177+280	177+100	HP Panel Bush & Electrical Poles	100		
	100	Canal, Teak & road Trees	177+100	177+200	Cocunut farm, Canal, Teak & road Trees	100		
	100	Small structure, Entrance Arch, Teak & road Trees & canal	177+200	177+200	Teak & road Trees & Jungle	100		
	150	Teak, Wood Trees, Canal & Jungle	177+060	177+270				
	70	Teak & road Trees, Electrical Pole & Existing bridge structure (On Branch Road)	177+078		Bus shelter, Electrical Pole & Trees	15		
	10	Teak & road Trees & Canal	177+066		Electrical Pole & Jungle	10		
	100	Canal & Teak & road Trees	177+000	177+000	Electrical Pole, Trees & Jungle	100		
	150	College Boundary & Arch Structure, Lighting Post & Canal crossings	177+000	177+150	Electrical Poles & road	150		
	70	Canal, Teak & road Trees & Jungle	177+030	177+300	Transformer, Electrical Poles & road & Trees	70		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	50	Electrical Pole & line crossing T road & Trees, Existing Culvert & Jungle	172+200	172+250	Electrical Pole & Trees & Jungle	50		
	100	Electrical Pole, T road & Trees & Jungle	172+110	172+210	Electrical Poles, Trees & Jungle	100		
	70	T road & Trees & Jungle	172+050		Electrical Poles, Canal, Trees & Jungle	70		
	30	Houses (P) road & Trees	172+700		Electrical Poles, Trees & Jungle	10		
		Electrical Poles, Trees & Jungle	172+750		Electrical Poles, Trees & Jungle	15		
	75	Temple & Trees	172+850		Bus shelter, Godown, Overhead Tank & Electrical Poles	75		
	10	Canal crossing & Trees	172+900		Pump set & Electrical Poles	15		
	50	Houses (P) road, Electrical Pole (P) road & Trees	172+950		Transformer, Electrical Pole (P) road & Trees	50		
	50	Trees (P) road & Jungle	171+100	171+150				
			171+050	171+110	Transformer, Electrical Pole (P) road & Trees	60		
			171+050		Pump house, Electrical Pole & Trees (P) road	30		
	70	Fencing, Electrical Pole & Trees (P) road	171+880	171+950	Trees (P) road & Electrical Poles	70		
	100	House Plot (P) road, Transformer	171+950	172+050	Electrical Poles & Fencing	100		
	50	Trees	172+050	172+100	Fencing	50		
	100	Trees (P) road	172+100	172+200	Trees (P) road	100		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	50	Electrical Pole (P no.4)	175+200	175+250	Trees (2 nos)	50		
	50	Bore well, Water tap, Electrical Pole & line crossing, Advertisement board & Trees	175+250	175+300	Electrical Pole & Encroaching Encroachment	50		
	50	Trees (10 nos) & Jungle	175+100	175+150	Advertisement board	50		
	50	House (5 nos), Electrical Pole & Trees	175+150	175+200	House (5 nos), Electrical Pole & Trees	50		
	50	House (3 nos), Electrical Pole & Trees	175+200	175+250	House (1 nos), Electrical Pole & Trees	50		
	50	House (1 nos), Electrical Pole & Trees	175+250	175+300	House (3 nos), Electrical Pole & Trees	50		
	50	House (3 nos), Electrical Pole & Trees	175+300	175+350	Temple, water tank, Bore well, House (5 nos), Electrical Pole & Trees	50		
	50	House (3 nos), Electrical Pole & Trees	175+350	175+400	Demolished Govt building, House (3 nos), Electrical Pole & Trees	50		
	100	Electrical Pole & Trees	175+400	175+500	Compound Wall	100		
	50	Houses (3 nos), Electrical Pole & Trees	175+500	175+550	Houses (1 nos), Electrical Pole & Trees	50		
	50	Houses (1 nos), Electrical Pole & Trees	175+550	175+600	Houses (7 nos), Electrical Pole & Trees	50		
	50	Govt building, House (3 nos), Electrical Pole & Trees	175+600	175+650	Houses (3 nos), Electrical Pole & Trees	50		
	100	House (3 nos), Water tap & Trees	175+650	175+750	Houses (3 nos) & Trees	100		
	50	Building, Hut (1 nos) & Trees (11 nos)	175+750	175+800	Temple, Houses (3 nos), Electrical Pole (1 nos) & Trees (13 nos)	50		
	100	Electrical Pole, Pond & Trees	175+800	175+900	House, Electrical Pole & Trees	100		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	100	Pond & Trees	176+100	176+200	Pond & Trees	100		
	100	House (3 nos), Electrical Pole & Line crossing & Trees	176+600	176+700	House (3 nos), Electrical Pole & Line crossing & Trees	100		
	100	But sheber, Fencing, Houses (1 nos), Electrical Pole & Trees (1 nos)	176+700	176+800	Pice (10) Houses (1 nos), Hut, Electrical Pole & Trees (3 nos)	100		
	100	Houses (1 nos), Hand pump, Transformer & Electrical Pole	176+800	176+900	Temple, Houses (1 nos), Electrical Pole (1 nos) & Trees (13 nos)	100		
	100	But sheber, Pump house, Electrical Pole (1 nos) & Trees (3 nos)	176+700	176+800	Electrical Pole (1 nos), Telephone Pole, Sign board & Trees (1 nos)	100		
	100	Pump house, Electrical Pole (1 nos), Trees (1 nos) & \ala	177+000	177+100	Electrical Pole (1 nos) & Trees (2 nos)	100		
	100	Building (1 nos), Electrical Pole (1 nos), Sign boards (1 nos) & Trees (1 nos)	177+100	177+200	Pump house, Electrical Poles (1 nos), Transformer, Sign boards & Trees (6 nos)	100		
	100	Building (1 nos), Electrical Pole (1 nos), Sign boards (1 nos) & Trees (19 nos)	177+500	177+600	Arch. Compound (1 nos), Electrical Pole (1 nos) & Trees (2 nos)	100		
	50	Electrical Pole (1 nos) & Line crossing	177+100	177+200	Electrical Pole (1 nos), Sign boards (1 nos) & Trees (1 nos)	50		
	50	Electrical Pole (1 nos), Trees (2 nos) & \ala	177+400	177+450	Electrical Pole (1 nos), Transformer & Trees	50		
	30	Commercial building (1 nos), Electrical Pole (1 nos) & Line crossing & Trees (1 nos)	177+600	177+630	Building Compound (1 nos), Electrical Pole (1 nos) & Trees (1 nos)	30		
	75	Fencing	177+800	177+900	Fencing & Electrical pole	75		
	80	Trees & Electrical Pole	177+700	178+000	Compound (1 nos) & Electrical Pole	80		
	50	Trees (1 nos)	178+000	178+100	Pump house, Base (1 nos), Transformer & Electrical Pole (1 nos)	50		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	10	Electrical Pole (1 nos)	178+170	178+180	Electrical Pole (1 nos)	10		
			178+200	178+300	Electrical Pole (1 nos)	70		
	75	Small Temple with Gate & Trees (1 nos)	178+300	178+375	Electrical Pole (1 nos)	70		
	10	Tree	178+375	178+385	Electrical Pole (1 nos)	70		
	15	Electrical Pole, Tree & Existing Culvert	178+385	178+400	Electrical Pole (1 nos)	30		
	10	Tree	178+400	178+410	Electrical Pole (1 nos)	70		
			178+420	178+430	Electrical Pole	10		
	30	Trees & Jungle	178+430	178+460	Shops (1 nos) & Houses (1 nos), Electrical Pole (1 nos) & Trees	10		
	40	Fencing, Trees & Jungle	178+460	178+500				
	10	Indian Oil Petrol Bunk, Small Temple, steel gate & Trees	178+500	178+510	Trees & Jungle	70		
	70	Under construction House, Electrical Pole (1 nos)	178+510	178+580				
	50	Shops (1 nos), Transformer & Electrical Pole (1 nos)	178+580	178+630	Electrical Pole & Trees	70		
	70	Electrical Pole (1 nos), Coconut farm & Jungle	178+630	178+700	Fencing, Electrical Pole (1 nos), Tree (1 nos) & Jungle	70		
	30	Electrical Pole (1 nos), Street light & Steel arch	178+700	178+730	Under construction house, Trees & Jungle	10		
	30	Electrical Pole, Trees & Jungle	178+730	178+760	Trees & Jungle	70		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	30	Trees (1) no4	179+300	179+180	Trees & Jungle	70		
	30	Houses (2) no4, Trees & jungle	179+180	179+210	Electrical Poles (1) no4, Coconut Trees (1) no4 & Existing culvert	30		
	40	Houses (7) no4, Electrical Pole & Jungle	179+210	179+250	Small Temple & Jungle	10		
	30	Transformer, Electrical Pole (2) no4, Trees & Jungle	179+250	179+300	Electrical Pole & line crossing, Trees & Jungle	30		
	50	Wooden oil factory, Electrical Pole (1) no4, Trees & Jungle	179+300	179+350	Banana farm, Trees & Electrical Pole	50		
	50	Trees (2) no4 & Existing Culvert	179+300	179+350	Shops (1) no4, Entrance Arch, Coconut Trees	50		
	50	Fencing & Trees	179+350	179+400	Fencing & Teak wood Trees	50		
	50	Building, Electrical Pole, Trees (1) no4	179+400	179+450	Compound (1) wall, Electrical Pole & Trees	50		
	50	Trees (1) no4 & Jungle	179+450	180+000	Transformer, Electrical Pole (7) no4 & Jungle	70		
	50	Electrical Pole & Trees	180+000	180+150	Electrical Poles (2) no4, Arch & Trees	70		
	60	Houses (1) no4, Electrical Pole (2) no4, Coconut & teak wood Trees	180+150	180+200	Houses (2) no4, Electrical Poles (1) no4 & Transformer	60		
	50	Houses (7) no4, Electrical Pole & Trees (1) no4	180+200	180+250	Houses (2) no4, Electrical Poles (7) no4 & Coconut Trees	50		
	50	Houses, Fencing (1) no4, Electrical Pole & Trees (2) no4	180+250	180+300	Houses (1) no4, Electrical Poles (7) no4 & Coconut Trees	50		
	50	Shops, Electrical Pole & Trees	180+300	180+350	Compound (1) wall, Electrical Pole (2) no4 & Trees	50		
	50	Houses (2) no4, Electrical Pole (7) no4 & Trees	180+350	180+400	Houses (2) no4, Electrical Poles (7) no4 & Trees	50		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	50	Houses / no. Electrical Poles / no. Trees	120+100	120+150	Houses / no. Trees & Jungle	50		
	50	Under construction building Electrical Pole & Teak wood Trees	120+150	120+200	Fencing Trees Electrical Pole & Jungle	50		
	70	Teak wood Trees & Jungle	120+200	120+250	Trees & Jungle	70		
	50	Fencing Trees & Jungle	120+250	120+300	Fencing Pole preparation chap. Trees & Jungle	50		
	70	Trees & Jungle	120+300	120+370	Shops / no. Electrical Poles / no. Trees	70		
	30	House with Gate / no. Electrical Pole / no.	120+370	120+400	Trees Electrical Poles & Culvert structure	30		
	10	Electrical Pole & Line crossing	120+370	120+380	Electrical Pole & Line crossing	10		
	10	Trees / no. Trees & Jungle	120+380	120+390	Trees / no. Electrical Pole, Trees & Jungle	10		
	50	Electrical Pole / no. Existing culvert & Jungle	120+390	121+000	Ards. Existing culvert Electrical Pole, Trees & Jungle	50		
	50	Trees / no. Electrical Pole	121+000	121+100	Building / no. Shop, Trees / no. Electrical Pole & Trees	50		
	50	Trees / no. Electrical Pole	121+100	121+150	Temple / no. Trees / no. Jungle	50		
	50	Hotel / no. Electrical Pole / no.	121+150	121+200	Trees / no. Electrical Pole	50		
	30	Carpenter Shop Electrical Pole / no. & Jungle	121+200	121+100	Under construction building Electrical Pole, Pump set Trees & Jungle	30		
	10	Electrical Pole / no. Teak wood Trees & Jungle	121+100	121+110	Electrical Pole Existing culvert & Jungle	10		
	70	Fencing Trees / no. & Jungle	121+200	121+300	Visible shop room Electrical Poles & Line crossing / no. Trees & Jungle	70		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	70	Fencing, Electrical Poles (7 nos), Existing culvert & Jungle	131+000	131+700	Electrical Pole, Trees & Jungle	70		
	40	High mast light, Sign boards, Houses (1 no), Electrical Poles (3 nos) & Trees (8 nos)	131+700	131+800	Advertisement board, Fencing, Houses (1 no), Electrical Poles (7 nos) & Trees	40		
	70	Houses (1 no), Over head tank, Coconut Trees & Jungle	131+800	131+970	Trees & Jungle	70		
	30	River crossing & Trees	131+970	132+000	River crossing & Trees	30		
	40	Coconut farm	132+000	132+400	Trees & Jungle	40		
	60	Banana farm & Trees (8 nos)	132+400	132+900	Trees & Jungle	60		
	50	Houses (3 nos), Shop (1 no) & Electrical Pole	132+900	133+400	Electrical Pole, Trees & Jungle	50		
	50	Banana farm	133+400	133+900	Coconut farm	50		
	60	House, Teak wood Trees, Banana & Coconut Trees	133+900	134+500	Teak wood Trees, Banana & Coconut Trees, Electrical Pole & Jungle	60		
	40	Shop & Godown, Fencing with Gate	134+500	134+900	Teak wood Trees, Banana & Coconut Trees, Electrical Pole & Jungle	40		
	30	Teak wood Trees & Trees (6 nos)	134+900	135+200	Compound wall, Trees (6 nos) & Jungle	30		
	30	Bar wall, Pump set, Electrical Poles (6 nos) & Line crossing & Trees	135+200	135+530	Under construction, House (1 no), Electrical Poles (6 nos) & Line crossing & Trees	30		
	75	Overhead Water Tank	135+530	136+800	Trees & Jungle	75		
	50	Trees & Jungle	136+800	137+400	Coconut farm, Electrical Poles (6 nos), Teak wood Trees & Jungle	50		
	100	Banana farm, Pump set & Trees	137+400	138+800	Pump set, Banana farm, Electrical Poles (7 nos) & Line crossing & Coconut Trees	100		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	100	Motor garage shop, Electrical Pole (1 no) & Banana farm	133+000	133+100	Cocunut Trees, Existing culvert & Jungle	100		
	45	Temple, Hand pump, no. of buildings, Electrical Pole (1 no) & Trees	133+100	133+150	Electrical Pole (1 no) & line crossing & Trees	50		
	50	High mast light, no. of buildings, Electrical Pole (1 no) & Trees	133+150	133+200	House (1 no), Street lighting pole, Electrical Pole (1 no) & Trees	50		
	40	Houses (1 no), Mango & Cocunut Trees & Electrical Pole (1 no)	133+200	133+250	Trees (1 no) & Jungle	40		
	30	River crossing & Trees (approached)	133+250	133+300	River crossing & Trees (approached)	30		
	50	Cocunut farm, Pump set & Trees	133+300	133+350	Trees & Jungle	50		
	50	Compound - all, Electrical Pole & Trees (1 no)	133+350	133+400	Trees, Existing culvert & Jungle	30		
	40	Hotels (1 no), Electrical Pole (1 no) & Trees	133+400	133+450	School compound - all Fencing & Trees (17 no)	50		
	30	Houses (1 no), Electrical Pole (1 no), School compound - all fencing	133+450	133+500	Compound - all, Transformer, Electrical Pole (1 no), Arch & Trees (10 no)	40		
	40	Compound w/ all, Electrical Pole, Trees & Jungle	133+500	133+550	House (1 no), Pond, Compound - all building & Electrical Pole & Trees	40		
	30	House, Electrical Pole, Trees & Jungle	133+550	133+600	House, Electrical Pole & Trees	30		
	50	Houses (1 no), Trees & Jungle	133+600	133+650	House (1 no), Electrical Pole (1 no), Trees & Jungle	40		
	30	Sign boards, Houses (1 no), Building, Electrical Pole (1 no)	133+650	133+700	Shops, Lighting Poles (1 no) & Electrical Pole (1 no)	30		
	30	High mast light, Sign boards & Electrical Pole	133+700	133+750	High mast light, Sign boards & Electrical Pole	30		
	15		133+750		Commercial Building	15		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	10	Electrical Pole	131+030		Mayanam	10		
	30	House & Trees	131+080		House & Trees	30		Encroachment
	10	Electrical Pole	131+100		Tree	10		
	10	Electrical Pole	131+170					
	10	Electrical Pole	131+200					
	10	Electrical Pole	131+280					
	10	Electrical Pole	131+300		House	30		
	30	Pond & Trees	131+350		Electrical Pole	10		
	-	Railway Crossing	131+380		Railway Crossing	-		POB @ CH: 131+345
	10	Electrical Pole & Line Crossing & Pump house	131+400		Standing Crop	100		
	50	Regulator & Trees	131+410					Water regulator should be relocated
	10	Electrical Pole & Line Crossing	135+000		Electrical Pole & Line Crossing	10		
	10	Electrical Pole & Line Crossing	135+100		Electrical Pole & Line Crossing	10		
	10	Electrical Pole & Line Crossing	135+200		Electrical Pole & Line Crossing	10		
	10	HT Tower & Banana Farm	135+400		Banana Farm & Trees	10		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	10	Electrical Pole	135+110		Electrical Pole	10		
	50	Electrical Pole & Trees	135+550		Wall & Trees	50		
	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+950		Electrical Pole & Line Crossing	50		
	10	Electrical Pole & Line Crossing	135+100		Electrical Pole & Line Crossing	10		
	100	Coconut farm & Electrical Pole	135+150	135+250	Coconut farm & Electrical Pole	100		
	10	Road crossing Electrical pole & Trees	135+300		Pathway from to Graminai Road	10		VUP @ CH: 135+300
	50	Coconut farm	135+150		House & Coconut farm	50		
	90	Coconut farm & Vegetable farm	135+250	135+340	Houses & Coconut farm	90		
	50	Coconut farm	135+670	135+720	Nale crossing & Trees	50		
	10	Coconut farm & Vegetable farm	135+650	135+660	Electrical Tower & vegetable farm	10		
	70	Jungle & Trees	135+700	135+770	Jungle & Trees	70		
	30	Jungle & Trees	135+700	135+730	Jungle & Trees	30		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	10	Electrical Pole & Line crossing	12/+010		Electrical Pole & Line crossing	10		
	50	Road crossing & Electrical pole	13/+100		House & Trees	50		
			12/+150		Electrical Pole	10		
	70	Fish Pond & Trees	12/+180	13/+250	Fish Pond & Trees	70		
	10	Electrical Pole	12/+250					
	100	Fish Pond	12/+300	13/+400	Fish Pond & Trees (if not)	100		
	150	Standing Crop, Trees & Electrical Pole	12/+400	13/+550	Standing Crop & Trees & Electrical Pole	150		
	70	Standing crop, Transformer, Electrical Pole & Trees	12/+550	13/+650	Standing crop, Road crossing (Pathway) near to Gundurapuram oil & Trees	70		
	80	Coconut farm	12/+650	13/+700	Standing crop & Electrical Pole	80		
	50	Coconut farm	13/+700	13/+750	Coconut farm	50		
	10	Electrical Pole & Line Crossing	13/+800		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 & Trees & Wood	138+100	138+200	Mango farm & Trees & Wood	100		
	10	Pump set & Trees	138+200	138+210	Trees	10		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	40	Pump set Banana farm Coconut farm & Teak Wood Trees	138+7+10	138+200	Banana farm Coconut farm & Teak Wood Trees	40		
	150	Mango farm & Teak Wood Trees	138+300	138+450	Pump set Mango farm & Teak Wood Trees	150		
	100	Pump set Banana farm Coconut farm & Canal crossing	138+450	138+550	Pump set Banana farm Coconut farm & Canal crossing	100		
	50	Fish pond Banana farm & Trees	138+670	138+720	Pump set Fish pond Banana farm & Trees	50		
	10	Electrical Pole & Line Crossing & Trees	138+800		Electrical Pole & Line Crossing & Trees	10		
	50	Road Crossing Trees & EB Pole	138+730		Pathway from to Papanusam Road Trees	50		
	50	Coconut farm Electrical Pole & Trees	138+730	138+780	Coconut farm Electrical Pole & Trees	50		
	50	House / Wood Trees & Electrical Pole	138+750	138+800	Coconut farm Banana farm & Teak Wood Trees	50		
	100	River crossing & Trees	138+850	138+950	River crossing & Trees	100		Minor bridge @ CH: 138+961
	40	Trees & Cubitation	138+970	138+1010	Wood & Trees	40		
	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+450	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				
	70	Electrical Poles & Line Crossing Road crossing & Trees	129+150		Electrical Poles & Line Crossing Road crossing & Trees	70		
	30		129+160		Jump, Pump house & Bore Well	30		
	10	Coconut Trees	129+650		Coconut Trees	10		
	10	Electrical Pole & Line Crossing	129+630		Electrical Pole & Line Crossing	10		
	10	Electrical Pole & Line Crossing	129+650		Electrical Pole & Line Crossing	10		
	10	Electrical Pole & Line Crossing	129+670		Electrical Pole & Line Crossing	10		
	10	Electrical Pole & Line Crossing	130+270		Electrical Pole & Line Crossing	10		
	10	Electrical Pole	130+870			10		
	50	Canal Crossing & Trees	140+860		Canal Crossing & Trees	50		
	50	Small Temple	140+900		EB Pole & Line Crossing	50		
	15	Road crossing & Trees	141+107		Nallur to Aruru Road	15		
	90	Standing Crop	141+120	141+570	EB Pole & Line Crossing	90		
	100	Coconut Trees & Electrical pole	141+300	141+400	Coconut Trees & Electrical pole	100		
	20	Electrical Pole & Line Crossing & Trees	141+330		Electrical Pole & Line Crossing & Trees	20		
	30	Road crossing & Trees	141+550			30		


Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	30	Coconut trees	141+400					
	10	Electrical Pole & Line Crossing	141+710		Electrical Pole & Line Crossing	10		
	10	Electrical Pole & Line Crossing	141+740		Electrical Pole & Line Crossing	10		
	50	Jungle & Trees	141+900		Jungle & Trees	50		
	10	Electrical Pole & Line Crossing	141+900		Electrical Pole & Line Crossing	10		
		Road crossing	142+000		Estacadey to Estacadey			
	50	Bore well Pump house & Trees	142+200		BB Pole & Line Crossing	10		
	150	Coconut Trees	142+300	142+450	Coconut Trees	150		
	50	Bore Well	142+500		Electrical Pole & Line Crossing	10		
	80	Bamboo, Mango trees & Sugarcane farm	142+570	142+650	Bamboo, Mango trees & Sugarcane farm	80		
			142+670		Pump set & Trees	50		
	50	High Tension Tower	142+850					
	10	Bore Well	142+800					
			142+100		High Tension Tower	50		
	30	River crossing & Trees	142+110		River crossing & Trees	30		











Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	30	Trees & Jungle	113+100		Trees & Jungle	30		
	10	Pump set & Bamboo trees	113+300		Bamboo trees	10		
	70	Trees	113+100		Trees	70		
	70	Trees	113+150		Trees	70		
	10	Trees	113+600		Trees	10		
	50	Onion Farm	113+550	113+600	Onion Farm	50		
	70	EB Pole & Trees	113+600		EB Pole & Trees	70		
	700	Coconut Trees	113+600	113+800	Coconut Trees	700		
			113+850		Electrical Pole & Line Crossing & Trees	15		
	30	River crossing & Trees	111+050		River crossing & Trees	30		
	700	Jungle Bamboo Trees	111+100	111+300	Jungle Bamboo Trees	700		
	10	Trees	111+330		Trees	10		
	15	Bore Well & Tree	111+150			15		
	50	Teak wood trees	111+750		Teak wood trees	50		
	15	Trees	115+100		Trees	15		



Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	10	Tree	1.05 + 100					
	50	Temple	1.05 + 000					
			1.05 + 50		Pump Set & Electrical Pole	70		
			1.05 + 60		Trees	70		
	70	Coconut Trees	1.05 + 850		Coconut Trees	70		
	10	Electrical Pole & Line Crossing	1.10 + 000		Electrical Pole & Line Crossing	10		
	50	Pump set	1.10 + 050		Electrical Pole & Line Crossing	10		
	10	Electrical Pole & Line Crossing	1.10 + 070		Trees	10		
	50	Pump set & Trees	1.10 + 120		Electrical Pole & Line Crossing	10		
	10	Electrical Pole	1.10 + 200					
	50	Trees & Electrical Pole	1.10 + 300		Trees & Electrical Pole	70		
	50	Trees	1.10 + 500		Trees	70		
		River Crossing	1.10 + 600		River Crossing			
	50	Electrical Pole & Line Crossing	1.10 + 700	1.10 + 750	Electrical Pole & Line Crossing & Trees	70		
	10	Pole Crossing Trees & Electrical Pole	1.10 + 800		Pole Crossing Trees & Electrical Pole	10		

























Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	70	Pump set River Crossing Trees & Electrical Pole	11a/4830		River Crossing Trees & Electrical Pole	70		
	50	Pump set	11a/4900		Trees & EB Pole	50		
	30	Culvert Crossing & Trees	11a/4900		Culvert Crossing & Trees	30		
	80	Standing Crop	11a/4900		Pump set & Standing Crop	80		
	15	Pump set	11/4050		-	-		
	40	Coconut Trees & Banana Trees	11/4100		High Tension Tower	40		
	50	Banana Trees	11/4150	11/4170	Pump set	50		
	15	-	11/4200		Bore well & trees	15		
	50	High Tension Tower	11/4330		-	-		
	50	Bore well & Pump house	11/4380		-	-		
	30	Culvert Crossing & Trees	11/4370	11/4400	House	30		
	40	-	11/4410	11/4450	Houses, Trees & Electrical Line	40		
	70	Teak wood trees	11/4570		Teak wood trees	70		
	30	Trees	11/4850		Trees	30		
	30	Electrical Pole & Line Crossing	11/4880		Electrical Pole & Line Crossing	30		


























Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	70	Road Crossing Trees & EB Pole	117+400		Road Crossing Trees & EB Pole	70		
	170	Banana Farm & Pole crossing	117+400	118+070	Tree: & EB Pole & Pole crossing	170		
	70	Canal Crossing & Trees	118+050		Canal Crossing & Trees	70		
	700	Mango Farm	118+100	118+300	Mango Farm	700		
	750	Banana Farm, Pump set & EB Pole	118+300	118+550	Banana Farm, Pump set & EB Pole	750		
	15	Coconut trees (7 nos)	118+600		Coconut trees (8 nos)	15		
	10	EB Electrical Pole	118+700		Tree: 0 nos	70		
	50	Trees (7 nos) & Pump set	118+000		EB Electrical Pole & Line crossing	10		
	10	EB Pole & trees 0 nos	118+100		Pump set & EB Pole	70		
	10	EB Electrical Pole	118+150		EB Electrical Pole	10		
	10	EB Electrical Pole	118+700					
	10	River crossing	118+300		Trees (1 nos)	10		
	70	River crossing	118+100		Trees (7 nos)	70		
	50	Pump set	118+900		Pump set & Electrical Pole	70		
	10	EB Pole & Line crossing	118+800		Pump set EB Pole & Line Crossing & Trees (1 nos)	70		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	10	EE Pole & Line crossing	1+0+150		EE Pole & Line crossing	10		
	10	EE Pole & Line crossing	1+0+710		Trees (P) road	10		
	10	Trees (P) road	1+0+710	1+0+200	Trees (P) road & Pump set	10		
	10	EE Pole & Line crossing	1+0+140		EE Pole & Line crossing	10		
	50	Jungle	1+0+550					
	50	Pump house	1+0+610		EE Pole & Line crossing & Trees (P) road	10		
	70	River Crossing Trees & EE Pole	1+0+700		Regulator & trees	70		
	50	Jungle	1+0+900		Tree	50		
	10	EE Pole & Line crossing & Trees (P) road	1+1+000		EE Pole & Line crossing & Trees (P) road	10		
	50	Trees (P) road & Utility crossing	1+1+400	1+1+100	Trees (P) road & Utility crossing	50		
	100	Jungle & Trees	1+1+100	1+1+700	Jungle & Trees	100		
	15	Wet crop planted	1+1+700		Pump set & Trees (P) road	15		
	50	Jungle & Trees (P) road	1+1+750	1+1+300		50		
	60	Coconut farm	1+1+300	1+1+260	Electrical Pole	60		
	120	Coconut farm & Teak wood trees	1+1+400	1+1+620	Coconut farm & Teak wood trees	120		

Photo	Obstruction Length (m)	LHS- Type of Hindrance	Chainage		RHS- Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
		Trees	1+14+00		Small Temple D noq & Trees / noq			
	50	Pump set & Electrical Pole & line crossing	1+14+50		Electrical Pole	50		
	10	Electrical Pole	1+14+30					
	15	Trees	1+14+50		Trees	15		
			1+14+20		Pump set & Trees / noq	50		
	10	Electrical Pole	1+14+70		Electrical Pole	10		
	10	Electrical Pole	1+14+100		Electrical Pole	10		
			1+14+150		Jungle	50		
		Road Crossing Trees & EB Pole	1+14+30		Sulamangalam to Palurakudi			
	100	Coconut Farm & Banyan trees	1+14+00	1+14+00	Coconut Farm & Banyan trees	100		
		Pump set & EB & Electrical Pole	1+14+120		Pump set & EB & Electrical Pole			
	50	Bore well & Pump house	1+14+30		Trees	50		
	30	River crossing Pump set & Trees	1+14+80		River crossing Trees	30		
	50	Canal Crossing & Trees	1+14+00		Canal Crossing & Trees	50		
			1+14+00		Trees (B noq)	10		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	70	EB Pole & Trees	153+780		Bore well & Pump set	70		
	10	EB Pole & Trees	153+500		EB Pole & Trees	10		
	10	Electrical Pole	153+550		Electrical Pole	10		
	30	Bore well & Pump house	153+600		Electrical Pole & Trees	30		
	60	Electrical Poles & Trees (1 nos)	153+630		Electrical Poles & Trees (1 nos)	60		
	15	Electrical Tower	153+700		Electrical Pole & Trees	15		
	15	Road crossing & Trees	153+900		Road crossing & Trees	15		
	50	Canal Crossing & Trees	153+970		Canal Crossing & Trees	50		
	15	Electrical Pole	154+050		Electrical Pole	15		
	10	Electrical Pole	154+150		Electrical Pole	10		
	60	Jungle & Trees	154+200	154+900	Jungle & Trees	60		
	10	Houses (1 nos) & Electrical pole & Trees	154+900	154+930	Houses (1 nos) & Electrical pole & Trees	10		
	170	Bamboo trees & trees & Canal crossing	154+930	154+150	Bamboo trees & trees & Canal crossing	170		
	10	Electrical Pole	154+550		Electrical Pole & Trees	15		
	60	Houses (1 nos) & Trees	154+680	154+700	Bamboo trees	60		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	110	Coconut Farm	151+70	151+880	Coconut Farm & Tree	110		
	70	Canal Crossing & Trees	151+880	151+950	Canal Crossing & Trees	70		
	130	Coconut Farm, River crossing & Electrical poles	155+450	155+880	Coconut Farm, River crossing & Electrical poles	130		
	40	Jungle & Trees @ road & Net crop planted due to dispute in compensation.	155+080	155+170	Jungle & Trees @ road & Net crop planted due to dispute in compensation.	40		
	80	Bore well & Pump house & Electrical Pole & Net crop planted due to dispute in compensation.	155+170	155+700	Electrical poles & Tree & Net crop planted due to dispute in compensation.	80		
	80	Electrical Pole & Net crop planted due to dispute in compensation.	155+700	155+780	Net crop planted due to dispute in compensation.	80		
	100	Trees & Net crop planted due to dispute in compensation.	155+780	155+380	Bore well & trees & Net crop planted due to dispute in compensation.	100		
	170	Coconut tree @ road & Net crop planted due to dispute in compensation.	155+380	155+900	Bore well & Electrical Pole & Net crop planted due to dispute in compensation.	170		
	50	Coconut Farm & Electrical Poles	155+700	155+750	Coconut Farm & Electrical Poles	50		
	10	Coconut Farm, Pump set & Electrical poles	155+750	155+760	House, Coconut Farm & Electrical Pole	10		
	10	Pump set & Electrical poles	155+760	155+770	Road crossing	10		
	70	Net crop planted due to dispute in compensation.	155+770		Pump room	70		
	70	Water tank & Trees	155+780		Trees	70		
	150	Net crop planted due to dispute in compensation.	155+880	155+950	Net crop planted due to dispute in compensation.	150		
	10	Electrical Pole & Tree	155+950		Electrical Pole	10		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	10	Canal crossing & Electrical Pole & Line crossing	100+000		Canal crossing & Electrical Pole & Line crossing	10		
	10	Electrical Pole & Line crossing	100+050		Electrical Pole & Line crossing	10		
	120	Canal crossing & trees	100+070	100+200	Canal crossing & trees	120		
	40	Pump set, Electrical Pole & Trees	100+300	100+340	Jungle, Electrical Pole & Trees	40		
	70	Electrical Pole	100+170	100+240	Trees & wood trees	70		
	30	Culam	100+190	100+220	Jungle, Electrical Pole & Trees	30		
	10	Road Crossing Trees & EB Pole	100+170	100+180	Kenda, anthoidal & Personal land	10		
	70	Road Crossing Trees & EB Pole	100+180	100+250	Kenda, anthoidal & Personal land	70		
	50	River crossing & Trees	100+220	100+270	River crossing & Trees	50		
	50	Jungle	100+050		Jungle	50		
	60	River crossing & Trees	100+700		River crossing & Trees	60		
	100	Jungle & Trees	100+050	100+150	Jungle & Trees	100		
	50	Jungle	100+050	100+100	Jungle	50		
	10	House, Electrical pole	100+000		Cocunut trees	80		
	60	Fish Pond, Water storage tank & Trees	100+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	Road crossing Electrical pole & Trees	15 / +150		15meters road to Thirukaramalur	50		
	30	Nala Crossing Electrical Pole & Trees	15 / +150		Nala Crossing & Trees	30		
			15 / +310		Jungle & Trees (1 nest)	75		
	30	Jungle & Trees	15 / +150		Jungle & Trees	30		
	50	Fish Pond, Electrical pole & Coconut trees	15 / +150	15 / +510	Fish Pond, Electrical pole & Coconut trees	50		
	10	Well, Electrical Pole & Trees	15 / +510		Well, Electrical Pole & Trees	10		
	50	Fish pond & Coconut trees (1 nest)	15 / +70	15 / +80	Trees (0 nest)	50		
	70	Fish pond	15 / +80	15 / +650	Fish pond	70		
	70	Fish pond & Coconut trees	15 / +800	15 / +970	Fish pond & Coconut trees	70		
	50	Electrical Pole, Jungle & Trees	15 / +970	15 / +980	Electrical Pole, Jungle & Trees	50		
	70	New crop planted due to dispute in compensation, Electrical pole & Trees	15 / +980	158 +050	New crop planted due to dispute in compensation, Electrical pole & Trees	70		
	100	New crop planted due to dispute in compensation, & Canal crossing	158 +050	158 +150	New crop planted due to dispute in compensation, & Canal crossing	100		
	120	New crop planted due to dispute in compensation, Canal crossing & Trees	158 +150	158 +780	New crop planted due to dispute in compensation, Canal crossing & Trees	120		
	30	Trees	158 +780		Trees	30		
	70	High Tension Tower	158 +850					

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	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+200		Jungle	10		
	10	Trees & Electrical Pole	159+100		Pump set Base wall & Trees	70		
	10	Electrical Pole	159+150		Electrical Pole	10		
	70	Canal crossing Jungle & Trees	159+10		Canal crossing Jungle & Trees	10		
	70	Electrical Pole & line crossing	159+500		House & Trees	70		
	90	Trees, Jungle & Electrical Pole	159+10	159+70	Trees, Jungle & Electrical Pole	90		
	70	Pump set, Jungle & Trees	159+70	159+70	Electrical Pole, Jungle & Trees	70		
	15	Trees	159+70	159+800	Jungle	15		
	100	Net crop planted due to dispute in compensation.	159+800	159+900	Net 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 & net, Water Tank & Trees	10		
	70	House, Tree, 70 no. Electrical pole & line crossing	160+160	160+180	Cocunut Trees	70		














Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	10	House & Hut	1+0+130	1+0+150	Standing Crop	10		
	10	Electrical Pole	1+0+180			10		
	30	Coconut Trees (1 ha approx)	1+0+310		New crop planted due to dispute in compensation, & Electrical Pole	30		
	10	Well Pump set Electrical Pole & Trees	1+0+410		New crop planted due to dispute in compensation.	100		
	10	Pump house Electrical Pole & trees	1+0+470		Small structure Electrical Pole & trees	10		
	70	Canal crossing Jungle Trees & Electrical Pole	1+0+710	1+0+780	Canal crossing Jungle Trees & Electrical Pole	70		
	50	Temple Electrical Pole Trees & Jungle	1+0+780		Temple & Electrical Pole	50		
	50	Bore well Trees (1 ha approx) Electrical Pole	1+0+750	1+0+800	Trees & Electrical Pole	50		
	40	River crossing & Trees	1+0+870	1+0+910	River crossing & Trees	40		
	30	Jungle Trees & Road crossing	1+0+980	1+0+110	Jungle Trees & Road crossing	30		
	10	Bore well & Pump set	1+0+110	1+0+150	Electrical Pole	10		
	50	Canal crossing Jungle & Trees	1+0+590	1+0+650	Canal crossing Jungle & Trees	50		
	10	Electrical Pole, Jungle & Trees	1+0+170		Electrical Pole, Jungle & Trees	10		
	10	Electrical Pole, Jungle & Trees	1+0+120	1+0+200	Electrical Pole, Jungle & Trees	50		
	30	Pump room, Electrical pole	1+0+550		Trees & Jungle	30		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	10	Jungle & Trees	1a1 +000		Jungle & Trees	10		
	50	Jungle & Trees	1a1 + /00		Jungle & Trees	50		
	10	Pump set, Electrical Pole & Trees	1a1 +800		Electrical Pole & Trees	10		
	70	Jungle & Trees	1a1 +070	1a7 +000	Jungle & Trees	70		
	100	Standing Crop, Electrical Poles & Road crossing	1a7 +000	1a7 +100	Standing Crop, Electrical Poles & Road crossing	100		
	50	Standing Crop, Electrical Poles & Trees & Pond	1a7 +100	1a7 +150	Pump set, Standing Crop, Electrical Poles & Trees & Pond	50		
	100	Canal crossing, Electrical Poles	1a7 +150	1a7 +250	House, Trees & road, Base wall & Pump Set	100		
	10	Jungle & Trees	1a7 +250		Jungle & Trees	10		
	80	Wall, Pond & Trees	1a7 +350		Pond & Trees	80		
	50	Electrical Pole, Jungle & Trees	1a7 +100		Electrical Pole, Jungle & Trees	50		
	60	Trees & road	1a7 +a70	1a7 +a80	Electrical Pole & road, Jungle & Trees	60		
	70	River crossing, Jungle & Trees	1a7 +a50	1a7 +a50	River crossing, Fencing, Jungle & Trees	70		
	30	Temples & road, Trees & Jungle	1a7 +/50	1a7 +/80	Trees & Jungle	30		
	60	Jungle Trees & Mud Road crossing	1a7 +050	1a7 +110	Jungle Trees & Mud Road crossing	60		
	10	Electrical Poles, Jungle Trees & Road crossing	1a7 +a00	1a7 +a50	House, Trees & Electrical Pole	50		

Photo	Obstruction Length (m)	LHS - Type of Hindrance	Chainage		RHS - Type of Hindrance	Obstruction Length (m)	Photo	Remarks
			From	To				
	10	House, Electrical pole, Road Crossing & Trees	1+2+80	1+2+90	Electrical pole, Road Crossing & Trees	10		
			1+2+90	1+2+95	House (1 nos), Electrical pole, Road Crossing & Trees	30		
	100	River crossing, Jungle & Trees	1+3+00	1+4+100	River crossing, Jungle & Trees	100		
	10	High mast light, Electrical Pole	1+4+100	1+4+110	High mast light, Electrical Pole	10		
	75	Shops (1 nos)	1+4+50	1+4+125	Trees (1 nos)	75		
Total Hindrance on LHS in (m)	2088					2118	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	Supervision charges yet to be paid.

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	2.9	16.315	

2.4. Tree felling

Table 2.4-1: Status of Tree felling

Sl. No.	Name of the District	Chainages			Effected 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	Felling permission awaited.
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	0	-
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 1.1 - Physical Progress of Works

Item	Subtype for measurement of Physical Progress	Weightage of Total Project Work	Unit	Total Scope	As on 30.09.2018	
					Qty	Physical Progress (%)
A- Widening and strengthening of existing road						
III	Earthwork up to top of the sub-grade					
III	Clearing & Grubbing/ Jungle Clearance	1.38%	Em	29.01	7.60	0.36%
III	Earthwork up to Embankment Top	0.17%	Em	18.87	0	0.00%
III	Earthwork up to Subgrade Top	0.17%	Em	18.87	0	0.00%
III	Earthwork Filling in PE Wall Approach up to Sub Grade Top	2.99%	Sqm	6715.187	0.00	0.00%
III	Granular work (sub-base, base, shoulder)					
III	GSB/ Cement Treated Base	1.10%	Em	29.01	0.00	0.00%
III	WMM/ Cement Treated Base	2.10%	Em	29.01	0.00	0.00%
III	Shoulders	0.07%	Em	18.87	0.00	0.00%
III	Bituminous work					
III	DBM	2.58%	Em	29.01	0.00	0.00%
III	BC	1.23%	Em	29.01	0.00	0.00%
III	Rigid Pavement					
III	Widening and repair of culverts			33		
III	Pipe Culvert (New)			15		
III	PCC	0.07%	No.	30	0	0.00%
III	PIPE laying	0.11%	No.	30	0	0.00%
III	Head Wall	0.01%	No.	30	0	0.00%
III	Protection Work	0.01%	No.	30	0	0.00%
III	Box Culvert/ Slab Culvert- Wid.			18		
III	PCC	0.07%	No.	36	0	0.00%
III	Raft/ Foundation	0.03%	No.	36	0	0.00%
III	Wall/ Substructural	0.06%	No.	36	0	0.00%
III	Slab	0.03%	No.	36	0	0.00%
III	Protection Work	0.21%	No.	36	0	0.00%
III	Widening and repair of minor bridges			2		
III	Minor Bridge (Box Type) - Wid.			2		
III	PCC	0.07%	No.	1	0	0.00%
III	Raft	0.07%	No.	1	0	0.00%
III	Wall	0.03%	No.	1	0	0.00%
III	Slab	0.07%	No.	1	0	0.00%
III	Protection Work	0.03%	No.	1	0	0.00%
III	Minor Bridge (Deck Type) - Wid.			1		
III	Pile			0		
III	Pile Cap			0		
III	PCC	0.01%	No.	1		
III	Open Foundation	0.01%	No.	1		
III	Abutment/ Pier Wall	0.05%	No.	1		
III	Abutment/ Pier Cap	0.01%	No.	1		
III	Girder Casting	0.03%	No.	18		
III	Girder launching	0.01%	No.	18		
III	Slab	0.05%	No.	6		
III	Misc	0.07%	No.	1		
B- New realignment/ bypass						
III	Earthwork up to top of the sub-grade					
III	Clearing & Grubbing/ Jungle Clearance	2.89%	Em	61.81	30.23	1.35%
III	Earthwork up to Embankment Top	8.59%	Em	61.81	0.00	0.00%
III	Earthwork up to Subgrade Top	1.97%	Em	61.81	0.00	0.00%
III	Earthwork Filling in PE Wall Approach up to Sub Grade Top	1.86%	Sqm	112317.13	0.00	0.00%
III	Granular work (sub-base, base, shoulder)					
III	GSB/ Cement Treated Base	3.83%	Em	61.81	0.00	0.00%
III	WMM/ Cement Treated Base	3.39%	Em	61.81	0.00	0.00%
III	Shoulders	0.06%	Em	17.88	0.00	0.00%
III	Bituminous work					
III	DBM	1.08%	Em	61.81	0.00	0.00%
III	BC	1.89%	Em	61.81	0.00	0.00%
C- New culverts, minor bridges, underpasses, overpasses on existing road, realignments, bypasses:						
III	Culverts			70		
III	Pipe Culvert- New/ Reconstruction			11		
III	PCC	0.07%	No.	22	0	0.00%
III	PIPE laying	0.10%	No.	22	0	0.00%
III	Head Wall	0.03%	No.	22	0	0.00%
III	Protection Work	0.01%	No.	22	0	0.00%
III	Box Culvert/ Slab Culvert- New/ Reconstruction			59		
III	PCC	0.13%	No.	118	8	0.03%
III	Raft	0.53%	No.	118	0	0.00%
III	Wall	0.93%	No.	118	0	0.00%
III	Slab	0.60%	No.	118	0	0.00%
III	Protection Work	0.70%	No.	118	0	0.00%
III	Minor bridges					
III	Minor Bridge (Box Type) - New			11		
III	PCC	0.61%	No.	88	0	0.00%
III	Raft	0.91%	No.	88	0	0.00%
III	Wall	2.73%	No.	88	0	0.00%
III	Slab	0.91%	No.	88	0	0.00%
III	Protection Work	0.71%	No.	88	0	0.00%
III	Minor Bridge (Deck Type) - New			11		
III	Pile	0.00%	No.	0	0	
III	Pile Cap	0.00%	No.	0	0	
III	PCC	0.15%	No.	86	0	0.00%
III	Open Foundation	0.89%	No.	86	0	0.00%
III	Abutment/ Pier Wall	1.18%	No.	86	0	0.00%
III	Abutment/ Pier Cap	0.53%	No.	86	0	0.00%

Road works including culverts, minor bridges, underpasses, overpasses, approaches to POB/POB, Major Bridges/ Structures (including services road)

Item	Subtype for measurement of Physical Progress	Weightage of Total Project Work	Unit	Total Scope	As on 30.09.2018		
					Qty.	Physical Progress (%)	
Foot works including subverts, minor bridges, underpasses, overpasses, approaches to POB/PUB/ MA Bridges/ Structures (but excluding service roads)	iii) Girder Casting	0.23%	nos.	188	0	0.00%	
	iii) Girder Launching	0.11%	nos.	188	0	0.00%	
	iii) Slab	0.10%	nos.	57	0	0.00%	
	ii) Misc	0.78%	nos.	14	0	0.00%	
	iii) Cattle/Pedestrian underpasses:						
	ii) PCC	0.00%	nos.	1	0	0.00%	
	iii) Raft	0.01%	nos.	1	0	0.00%	
	iii) Wall	0.08%	nos.	1	0	0.00%	
	iii) Slab	0.01%	nos.	1	0	0.00%	
	ii) Protection Work	0.07%	nos.	1	0	0.00%	
	ii) Grade separated structures:						
	iii) Underpass:						
	ii) Pile	0.58%	nos.	160	0	0.00%	
	iii) Pile Cap	0.77%	nos.	10	0	0.00%	
	iii) PCC	0.03%	nos.	10	0	0.00%	
	iii) Open Foundation	0.00%	nos.	10	0	0.00%	
	ii) Abutment Pier	0.09%	nos.	10	0	0.00%	
	iii) Abutment Pier Cap	0.36%	nos.	10	0	0.00%	
	iii) Girder Casting	0.11%	nos.	100	0	0.00%	
	iii) Girder Launching	0.19%	nos.	100	0	0.00%	
	iii) Slab	0.37%	nos.	70	0	0.00%	
	ii) Misc	0.15%	nos.	10	0	0.00%	
	iii) Overpass:						
	ii) Flyover:						
	ii) Pile	0.35%	nos.	96	0	0.00%	
	iii) Pile Cap	0.16%	nos.	21	0	0.00%	
	iii) PCC	0.07%	nos.	21	0	0.00%	
	iii) Open Foundation	0.00%	nos.	21	0	0.00%	
	ii) Abutment Pier	0.05%	nos.	21	0	0.00%	
	iii) Abutment Pier Cap	0.21%	nos.	21	0	0.00%	
	iii) Girder Casting	0.37%	nos.	60	0	0.00%	
	iii) Girder Launching	0.16%	nos.	60	0	0.00%	
	iii) Slab	0.35%	nos.	17	0	0.00%	
	ii) Misc	0.17%	nos.	6	0	0.00%	
	ii) Foot over Bridge:						
	C- New Major Bridges:						
	ii) Pile	2.00%	nos.	168	0	0.00%	
	iii) Pile Cap	0.91%	nos.	76	0	0.00%	
	iii) PCC	0.06%	nos.	76	0	0.00%	
	iii) Open Foundation	0.00%	nos.	76	0	0.00%	
	ii) Abutment Pier	0.96%	nos.	76	0	0.00%	
	iii) Abutment Pier Cap	1.07%	nos.	76	0	0.00%	
iii) Girder Casting	0.59%	nos.	230	0	0.00%		
iii) Girder Launching	0.25%	nos.	230	0	0.00%		
iii) Slab	0.67%	nos.	67	0	0.00%		
ii) Misc	0.31%	nos.	7	0	0.00%		
D- New rail-road bridges:							
iii) POB:							
ii) Pile	0.15%	nos.	10	0	0.00%		
iii) Pile Cap	0.09%	nos.	8	0	0.00%		
iii) PCC	0.00%	nos.	8	0	0.00%		
iii) Open Foundation	0.00%	nos.	8	0	0.00%		
ii) Abutment Pier	0.06%	nos.	8	0	0.00%		
iii) Abutment Pier Cap	0.01%	nos.	8	0	0.00%		
iii) Girder Casting	0.73%	nos.	30	0	0.00%		
iii) Girder Launching	0.31%	nos.	30	0	0.00%		
iii) Slab	0.08%	nos.	6	0	0.00%		
ii) Misc	0.03%	nos.	1	0	0.00%		
iii) PUB:							
iii) Reinforced earth Wall includes Approaches of POB, Underpasses, Overpasses, Flyover and							
iii) Casting of PS Wall Facia							
	2.56%	Sqm	1,9169.00	0.00	0.00%		
iii) Erection of PS Wall Facia							
	5.96%	Sqm	1,9169.00	0.00	0.00%		
ii) Service roads/ Slip Roads:							
iii) Earthwork up to Subgrade Top:							
	0.51%	Sqm	203750	0	0.00%		
ii) Granular work (sub-base, base, shoulder):							
iii) GSB/ Cement Treated Base:							
	0.93%	Sqm	203750	0	0.00%		
iii) WMM/ Cement Treated Base:							
	1.08%	Sqm	203750	0	0.00%		
ii) Bituminous work:							
iii) DBM/ Aggregate Layer:							
	0.77%	Sqm	203750	0	0.00%		
iii) BC/ SDBC:							
	0.59%	Sqm	203750	0	0.00%		
iii) Toll Plaza:							
iii) Earthwork up to SGT:							
	0.17%	Sqm	31100	0	0.00%		
iii) Pavement Work:							
	0.67%	Sqm	21193	0	0.00%		
iii) Drain work with footpath:							
	0.01%	Foot	365	0	0.00%		
iii) Toll Building:							
	0.10%	no.	1	0	0.00%		
iii) Toll Booth:							
	0.01%	no.	11	0	0.00%		
iii) Toll Canopy:							
	0.11%	Sqm	1167	0	0.00%		
iii) Toll Fencing:							
	0.00%	Foot	1700	0	0.00%		
iii) Toll Tunnel:							
	0.08%	Foot	61	0	0.00%		
iii) Toll System:							
	0.67%	LS	1	0	0.00%		
ii) Electrical Work:							
	0.01%	LS	1	0	0.00%		
ii) Sign board & Other Misc. Work:							
	0.01%	LS	1	0	0.00%		
ii) Medical Aid Post:							
	0.05%	no.	1	0	0.00%		
iii) Traffic Aid Post:							
	0.00%	no.	1	0	0.00%		
iii) Road side drains:							

Item	Subtype for measurement of Physical Progress	Weightage of Total Project Work	Unit	Total Scope	As on 30.09.2018	
					Qty.	Physical Progress (%)
Other works	i) PCC	0.19%	Em	77.10	0.00	0.00%
	ii) Path	0.51%	Em	77.10	0.00	0.00%
	iii) Wall	0.50%	Em	77.10	0.00	0.00%
	iv) Slab	0.35%	Em	77.10	0.00	0.00%
	ii) Road signs, markings, km stones, safety devices,					
	i) Road signs, markings, km stones,		Em			
	ii) Road Sign except Toll Place	0.19%	Em	95.07	0.00	0.00%
	iii) Road Marking	0.10%	Em	95.07	0.00	0.00%
	iv) Km., Hectometer, 500 Km. Stone & POW Boundary etc.	0.01%	Em	95.07	0.00	0.00%
	v) Pedestrian Guard Rail	0.77%	Permt	17,180.00	0.00	0.00%
	vi) Kerb	0.68%	Em	95.07	0.00	0.00%
	vii) Electrical Work (Street Lighting)	0.11%	Em	66.78	0.00	0.00%
	viii) Concrete Crash Barrier/ W-Beam Crash Barrier in Road work		Em			
	ix) W-Beam Crash Barrier (MBCB)	0.70%	Em	35.59	0.00	0.00%
	x) Concrete Friction Slab Crash Barrier	3.32%	Em	13.55	0.00	0.00%
	ii) Project facilities					
	i) Bus bays	0.01%	No.	5.00	0.00	0.00%
	ii) Rest Area	0.22%	Sqm	816.00		
	iii) Road side plantation		Em			
	i) Median Plantation	0.19%	Em	41.79	0.00	0.00%
	ii) Avenue /near POW/ Plantation	0.10%	Em	57.60	0.00	0.00%
	iv) Protection works					
	i) Boulder pitching on slopes	0.19%	Em	5.37	0.00	0.00%
	ii) Miscellaneous					
	i) Diversion	0.08%	Lumpsum	1.00	0.00	0.00%
	ii) Rain water harvesting	0.07%	No.	75.00	0.00	0.00%
	iii) Assisting in the work of making the awarded stretch encumbrance free by deploying additional resources as per instruction of Project Incharge.	7.31%	Km.	17.91	38.33	1.87%
	iv) Carrying out routine 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, raincoat restoration, bite wash, kerb painting etc. as per technical specification	3.52%	Per Month Per Km	1,110.00	137.00	1.05%
	i) Detail Design & Drawing Work	0.62%	Lumpsum	1.00	0.1	0.75%
	ii) Setup Work, Base Camp & Plant	0.62%	Lumpsum	1.00	0.95	0.59%
Total Physical Progress		100.00%			5.50%	

TABLE 4.3 - 1 STRIP CHART FOR STATUS OF BOX CULVERTS ON EXISTING ROAD

Sr. No.	As Approved by IE	Type of Structure	LHS					RHS							
			Number and Length of Spans (m)	Protection Work	Slab	Wall	Rdft	PCC	Excavation	Protection Work	Slab	Wall	Rdft	PCC	Excavation
1	116.602	EXISTING	1 x 2.0m	Slab Culvert											
2	116.837	EXISTING	1 x 2.0m	Slab Culvert											
3	116.954	EXISTING	1 x 1.6m	Slab Culvert											
4	120.068	EXISTING	1 x 3.0	Slab Culvert											
5	120.280	EXISTING	1 x 1.5	Slab Culvert											
6	120.346	EXISTING	1 x 1.5	Box Culvert											
7	120.836	EXISTING	1 x 2.0m	Box Culvert											
8	121.540	EXISTING	1 x 3.0m	Slab Culvert											
9	121.683	EXISTING	1 x 1.5m	Slab Culvert											
10	121.885	EXISTING	2 x 1.0m	Pipe Culvert											
11	122.375	EXISTING	1 x 1.0m	Pipe Culvert											
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											

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

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

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

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

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

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

TABLE 4.3 - 4 STRIP CHART FOR STATUS OF PUP

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

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

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

TABLE 4.3 - 6 STRIP CHART FOR STATUS OF FLYOVER

		LHS											RHS								
Sr.No.	FO at Chainage	Span		Crash Barrier	Slab	Girder Launching	Girder Casting	Piercap /Abc	Pier/Abt	Pile Cap	Pile	Crash Barrier	Slab	Girder Launching	Girder Casting	Piercap /Abc	Pier/Abt	Pile Cap	Pile		
1	117.600	1 x 30 m	BYPASS/EXISTING	A1 A2																	
2	120.000	1 x 30 m	BYPASS/EXISTING	A1 A2																	
3	127.300	1 x 30 m	EXISTING	A1 A2																	
4	134.000	1 x 30 m	BYPASS/EXISTING	A1 A2																	
5	145.140	1 x 30 m	BYPASS	A1 P1 A2																	
6	157.100	1 x 30 m	BYPASS	A1 P1 A2																	
												0	0	0	0	0	0	0	0	0	0

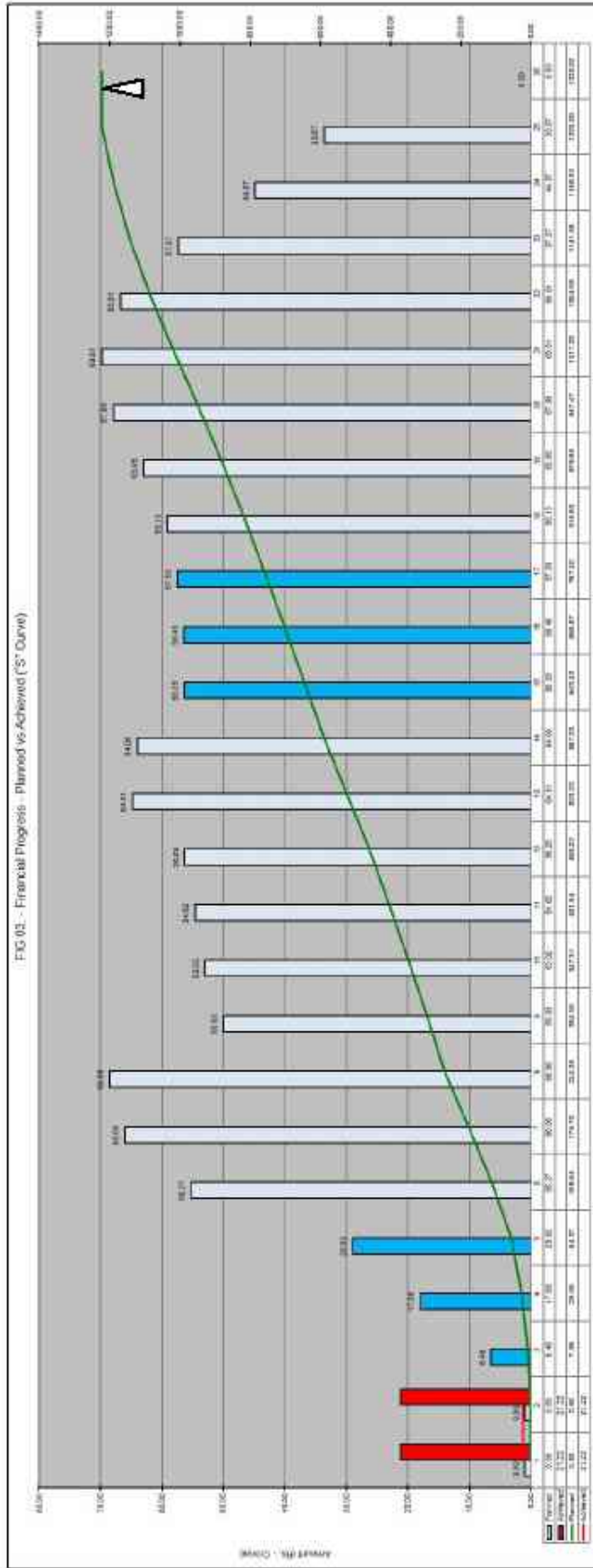
TABLE 4.3 - 7 STRIP CHART FOR STATUS OF VUP

SR.NO.	VUP at Chalnage	Span	LHS							RHS								
			Crash Barrier	Slab	Girder Launching	Girder Casting	Piercap /Abtca	Pier/Abt	Pile Cap	Pile	Crash Barrier	Slab	Girder Launching	Girder Casting	Piercap /Abt	Pier/Abt	Pile Cap	Pile
1	126.100	1x25	EXISTING	A1														
				A2														
2	126.600	1x25	EXISTING	A1														
				A2														
3	128.700	1x25	EXISTING	A1														
				A2														
4	130.335	1x25	EXISTING	A1														
				A2														
5	131.500	1x25	EXISTING	A1														
				A2														
6	136.282	1x25	BYPASS	A1														
				A2														
7	138.720	1x25	BYPASS	A1														
				A2														
8	139.440	1x25	BYPASS	A1														
				A2														
9	141.450	1x25	BYPASS	A1														
				A2														
10	156.446	1x25	BYPASS	A1														
				A2														
				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

5. Financial Progress of Work

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

FIG 03 - 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) SOIL		
1	Proctor Moulds (Big) Collar or Base plate & Rammer 4.89 kg	6
2	Proctor Moulds (Small) Collar or Base plate & Rammer 2.6 kg	4
3	Atterberg Limits Test(Apparatus)	1
4	Soil Cone Penetrometer	1
5	CBR Moulds with collar or Base Plate	60
6	CBR Plunger	4
7	Proving Ring(25 KN)	1
8	Proving Ring(10 KN)	1
9	Proving Ring(2.5 KN)	1
10	FSI JARS BOROSIL -100 ml	40
11	Spacer Disc(with Handle)	4
12	CBR Testing Machine	1
13	CBR Surcharge Central Hole Weights 2.5 kg	60
14	CBR Surcharge Slotted Weights 2.5 kg	60
15	CBR Perorated Brass plates	60
16	Sand Pouring Cylinders (100 mm Dia) Complete with Calibrating Container with Trays	2
17	Sand Pouring Cylinders (150 mm Dia) Complete with Calibrating Container with Trays	2
18	Sand Pouring Cylinders (200 mm Dia) Complete with Calibrating Container with Trays	2
19	Rapid Moisture Meters	4
20	Calcium Carbide Bottles	10
21	Spatula Big	10
22	Spatula Small	10
23	Hammers big	4
24	Chisels big	20
25	Electronic Balance Capacity 100 kg (10 gram accuracy)	1
26	Electronic Balance Capacity 50 kg (1 gram accuracy)	2
27	Electronic Balance Capacity 30 kg (1 gram accuracy)	2
28	Electronic Balance Capacity 10 kg (1 gram accuracy)	1
29	Electronic Balance Capacity 5 kg (0.5 gram accuracy)	1
30	Electronic Balance Capacity 600gram(0.01 gram accuracy)	2
31	Hot Air Oven (Big)250°C	1
32	Hot Air Oven (Small)250°C	1
33	Direct Shear Test Apparatus	1

Sl. No	Equipment List	Quantity
34	Filter Paper Dia 100 mm	10
35	Filter Paper Dia 150 mm	10
36	Pipettes	4
37	Plastic Bottles	4
38	Enamel tray -450x300x40 mm	12
39	G.I tray-1500x1500x100mm	4
40	French Curves	2
B) <u>CONCRETE WORKS</u>		
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) <u>BITUMINOUS WORKS</u>		
74	Specific Gravity Bottels (50 ml)	2
75	Specific Gravity Bottels (100 ml)	2

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

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

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

6.2. Quality Control Test Summary

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

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

Table 2.1 Summary of Quality Control Tests up to Sep-2018

S. No.	Description	IS Specification Clause	Frequency of Tests				Tests conducted during current month Sep-2018				Till 31st Sep-2018						
			AUGUST		Failed		Passed		Failed		Total	Failed					
			Tested	Failed	Consecutive size	II	Consecutive size	II	Consecutive size	II							
1.0 Tests on OGL																	
1.1	Grain size analysis	IS: 270 Part(I)	As required	0	0	0	0	111	38	111	38	0	0	111	38	0	0
1.2	Shrinkage limits	IS: 270 Part(I)	As required	0	0	0	0	111	38	111	38	0	0	111	38	0	0
1.3	Pre-test	IS: 270 Part(I)	As required	0	0	0	0	111	7%	111	7%	0	0	111	7%	0	0
1.4	Free swell index	IS: 270 Part(I)	As required	0	0	0	0	111	38	111	38	0	0	111	38	0	0
1.5	California bearing ratio	IS: 270 Part(I)	As required	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0 Tests on Subgrade (CBRT 243.30)																	
2.1	Grain size analysis	IS: 270 Part(I)	1 test/1500 m ²	0	0	0	0	50	50	50	50	0	0	50	50	0	0
2.2	Shrinkage limits	IS: 270 Part(I)	1 test/1500 m ²	0	0	0	0	50	50	50	50	0	0	50	50	0	0
2.3	Pre-test	IS: 270 Part(I)	1 test/1500 m ²	0	0	0	0	50	18	50	18	0	0	50	50	0	0
2.4	Free swell index	IS: 270 Part(I)	As required	0	0	0	0	50	50	50	50	0	0	50	50	0	0
2.5	California bearing ratio	IS: 270 Part(I)	As required	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0 Curing problem & Enriching for E-10 (CBRT 24.30)																	
3.1	Grain size analysis	IS: 270 Part(I)	1 test/1500 m ²	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.2	Shrinkage limits	IS: 270 Part(I)	1 test/1500 m ²	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.3	Pre-test	IS: 270 Part(I)	1 test/1500 m ²	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.4	Free swell index	IS: 270 Part(I)	As required	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.5	California bearing ratio	IS: 270 Part(I)	As required	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1.0 Field Density Tests (CBRT 24.30)																	
1.1	Field Density (DD)	IS: 270 Part(I)	1 test/2000 sqm	0	0	0	0	10	10	10	10	0	0	10	10	0	0
1.2	Field density	IS: 270 Part(I)	1 test/2000 sqm	0	0	0	0	10	10	10	10	0	0	10	10	0	0
1.3	Field density	IS: 270 Part(I)	1 test/2000 sqm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1.4	Shrinkage limits	IS: 270 Part(I)	1 test/2000 sqm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0 Side finishing capacity of road																	
2.1	Free swell index	IS: 270 Part(I)	As required	0	0	0	0	10	10	10	10	0	0	10	10	0	0
2.2	Grain size analysis	IS: 270 Part(I)	As required	0	0	0	0	10	10	10	10	0	0	10	10	0	0
2.3	Shrinkage limits	IS: 270 Part(I)	As required	0	0	0	0	10	10	10	10	0	0	10	10	0	0
2.4	Direct shear test	IS: 102	As required	0	0	0	0	10	10	10	10	0	0	10	10	0	0
6.0 CBRT 24.30 Design/Spec requirements (CBRT 24.10)																	
6.1	Gradation	Table 10.0.1	1 test/100 m ²	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.2	Shrinkage limits	IS: 270 Part(I)	1 test/100 m ²	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.3	Pre-test	IS: 270 Part(I)	As required	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.4	CBRT test on unconfined compressive strength test	IS: 270 Part(I)	As required	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.5	Quality of cement	(Individual test's test)	As required	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.6	Aggregate impact value	IS: 238 Part 1	As required	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.7	Field Density	IS: 270 Part(I)	1 test/500 sqm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0 CBRT 24.30 Design/Spec requirements (CBRT 24.10)																	
7.1	Gradation	Table 10.0.1	1 test/100 m ²	0	0	0	0	21	21	21	21	0	0	21	21	0	0
7.2	Shrinkage limits	IS: 270 Part(I)	1 test/100 m ²	0	0	0	0	31	31	31	31	0	0	31	31	0	0
7.3	Pre-test	IS: 270 Part(I)	As required	0	0	0	0	7	7	7	7	0	0	7	7	0	0
7.4	CBRT test	IS: 270 Part(I)	As required	0	0	0	0	1	1	1	1	0	0	1	1	0	0
7.5	Aggregate impact value	IS: 238 Part 1	As required	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.6	Field Density	IS: 270 Part(I)	1 test/500 sqm	0	0	0	0	17	17	17	17	0	0	17	17	0	0
8.0 CBRT 24.30 Design/Spec requirements (CBRT 24.10)																	
8.1	Combined Gradation	Table 10.0.3	1 test/700 m ²	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.2	Aggregate impact value	IS: 238 Part 1	1 test/1000 m ²	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.3	Flattness & Elongation index	IS: 238 Part 1	1 test/500 m ²	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.4	Shrinkage limits	IS: 270 Part(I)	1 test/700 m ²	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.5	Other observation	IS: 238 Part 1	As required	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.6	Pre-test	IS: 270 Part(I)	As required	0	0	0	0	0	0	0	0	0	0	0	0	0	0

S. No.	Description	IS Specification Clause	Frequency of Tests	AUGUST				Tests concluded during current month Sep/2018				Till set up to Sep 2018		
				Passed		Failed		Passed		Failed		Passed	Failed	
				Tested	Concessor size	II	Concessor size	II	Concessor size	II	Concessor size			II
8.	Field Density	E5720 Part(8)	1 test per 1000 Sqm / 3 pts.	0	0	0	0	0	0	0	0	0	0	0
* 0.31 m ³ aggregate @ RT 2H 100														
9.	Grad. Sieve analysis	E538a Part1	1 test / 15 days	0	0	0	0	0	0	0	0	0	0	0
9.1	Specific gravity	E538a Part(1)	As required	0	0	0	0	0	0	0	0	0	0	0
9.2	Moisture absorption	E538a Part(1)	As required	0	0	0	0	0	0	0	0	0	0	0
10.0 Concrete aggregate @ RT 2H 100														
10.	Gradation	E538a Part(1)	1 test / 15 days	0	0	0	0	0	0	0	0	0	0	0
10.1	Specific gravity	E538a Part(1)	As required	0	0	0	0	0	0	0	0	0	0	0
10.2	Aggregate Impact value	E538a Part(1)	1 test / 15 days	0	0	0	0	0	0	0	0	0	0	0
10.3	Flakiness index	E538a Part(1)	1 test / 15 days	0	0	0	0	0	0	0	0	0	0	0
10.4	Moisture absorption	E538a Part(1)	As required	0	0	0	0	0	0	0	0	0	0	0
11.0 Concrete @ RT 2H 100s														
11.	Fineness	E1021 Part(1)	Every batch	0	0	0	0	0	0	0	0	0	0	0
11.1	Consistency	E1021 Part(1)	Every batch	0	0	0	0	0	0	0	0	0	0	0
11.2	Initial Final setting time	E1021 Part(1)	Every batch	0	0	0	0	0	0	0	0	0	0	0
11.3	Soundness of Cement	E1021 Part(1)	Every batch	0	0	0	0	0	0	0	0	0	0	0
11.4	Compressive Strength at 3 days	E1021 Part(1)	1 sample Lot	0	0	0	0	0	0	0	0	0	0	0
11.5	7 days		1 sample Lot	0	0	0	0	0	0	0	0	0	0	0
11.6	28 days		1 sample Lot	0	0	0	0	0	0	0	0	0	0	0
12.0 Concrete @ RT 2H 100														
12.	Days Compressive Strength	100 RT 2H Sec 1.000	100 RT 2H Sec 1.000	0	0	0	0	0	0	0	0	0	0	0
12.1	28 Days Compressive Strength	100 RT 2H Sec 1.000	100 RT 2H Sec 1.000	0	0	0	0	0	0	0	0	0	0	0
M15 PCC														
12.2	Days Compressive Strength	100 RT 2H Sec 1.000	100 RT 2H Sec 1.000	0	0	0	0	0	0	0	0	0	0	0
12.3	28 Days Compressive Strength	100 RT 2H Sec 1.000	100 RT 2H Sec 1.000	0	0	0	0	0	0	0	0	0	0	0
M20 PCC														
12.4	Days Compressive Strength	100 RT 2H Sec 1.000	100 RT 2H Sec 1.000	0	0	0	0	0	0	0	0	0	0	0
12.5	28 Days Compressive Strength	100 RT 2H Sec 1.000	100 RT 2H Sec 1.000	0	0	0	0	0	0	0	0	0	0	0
M30 PCC														
12.6	Days Compressive Strength	100 RT 2H Sec 1.000	100 RT 2H Sec 1.000	0	0	0	0	0	0	0	0	0	0	0
12.7	28 Days Compressive Strength	100 RT 2H Sec 1.000	100 RT 2H Sec 1.000	0	0	0	0	0	0	0	0	0	0	0
M35 PCC														
12.8	Days Compressive Strength	100 RT 2H Sec 1.000	100 RT 2H Sec 1.000	0	0	0	0	0	0	0	0	0	0	0
12.9	28 Days Compressive Strength	100 RT 2H Sec 1.000	100 RT 2H Sec 1.000	0	0	0	0	0	0	0	0	0	0	0
M40 PCC														
12.10	Days Compressive Strength	100 RT 2H Sec 1.000	100 RT 2H Sec 1.000	0	0	0	0	0	0	0	0	0	0	0
12.11	28 Days Compressive Strength	100 RT 2H Sec 1.000	100 RT 2H Sec 1.000	0	0	0	0	0	0	0	0	0	0	0
M45 PCC														
12.12	Days Compressive Strength	100 RT 2H Sec 1.000	100 RT 2H Sec 1.000	0	0	0	0	0	0	0	0	0	0	0
12.13	28 Days Compressive Strength	100 RT 2H Sec 1.000	100 RT 2H Sec 1.000	0	0	0	0	0	0	0	0	0	0	0
M50 PCC														
12.14	Days Compressive Strength	100 RT 2H Sec 1.000	100 RT 2H Sec 1.000	0	0	0	0	0	0	0	0	0	0	0
12.15	28 Days Compressive Strength	100 RT 2H Sec 1.000	100 RT 2H Sec 1.000	0	0	0	0	0	0	0	0	0	0	0
M55 PCC														
12.16	Days Compressive Strength	100 RT 2H Sec 1.000	100 RT 2H Sec 1.000	0	0	0	0	0	0	0	0	0	0	0
12.17	28 Days Compressive Strength	100 RT 2H Sec 1.000	100 RT 2H Sec 1.000	0	0	0	0	0	0	0	0	0	0	0
M60 PCC														
12.18	Days Compressive Strength	100 RT 2H Sec 1.000	100 RT 2H Sec 1.000	0	0	0	0	0	0	0	0	0	0	0
12.19	28 Days Compressive Strength	100 RT 2H Sec 1.000	100 RT 2H Sec 1.000	0	0	0	0	0	0	0	0	0	0	0
M65 PCC														
12.20	Days Compressive Strength	100 RT 2H Sec 1.000	100 RT 2H Sec 1.000	0	0	0	0	0	0	0	0	0	0	0
12.21	28 Days Compressive Strength	100 RT 2H Sec 1.000	100 RT 2H Sec 1.000	0	0	0	0	0	0	0	0	0	0	0
M70 PCC														
12.22	Days Compressive Strength	100 RT 2H Sec 1.000	100 RT 2H Sec 1.000	0	0	0	0	0	0	0	0	0	0	0
12.23	28 Days Compressive Strength	100 RT 2H Sec 1.000	100 RT 2H Sec 1.000	0	0	0	0	0	0	0	0	0	0	0
M75 PCC														
12.24	Days Compressive Strength	100 RT 2H Sec 1.000	100 RT 2H Sec 1.000	0	0	0	0	0	0	0	0	0	0	0
12.25	28 Days Compressive Strength	100 RT 2H Sec 1.000	100 RT 2H Sec 1.000	0	0	0	0	0	0	0	0	0	0	0
M80 PCC														
12.26	Days Compressive Strength	100 RT 2H Sec 1.000	100 RT 2H Sec 1.000	0	0	0	0	0	0	0	0	0	0	0
12.27	28 Days Compressive Strength	100 RT 2H Sec 1.000	100 RT 2H Sec 1.000	0	0	0	0	0	0	0	0	0	0	0
M85 PCC														
12.28	Days Compressive Strength	100 RT 2H Sec 1.000	100 RT 2H Sec 1.000	0	0	0	0	0	0	0	0	0	0	0
12.29	28 Days Compressive Strength	100 RT 2H Sec 1.000	100 RT 2H Sec 1.000	0	0	0	0	0	0	0	0	0	0	0
M90 PCC														
12.30	Days Compressive Strength	100 RT 2H Sec 1.000	100 RT 2H Sec 1.000	0	0	0	0	0	0	0	0	0	0	0
12.31	28 Days Compressive Strength	100 RT 2H Sec 1.000	100 RT 2H Sec 1.000	0	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	
01-09-2017	38.6	26.0	0	79	40	
02-09-2017	40.3	26.5	0	80	35	
03-09-2017	40.4	27.3	0	80	37	
04-09-2017	40.2	26.6	0	79	36	
05-09-2017	40.2	26.4	0	79	34	
06-09-2017	40.1	26.5	0	74	30	
07-09-2017	39.5	26.8	0	69	28	
08-09-2017	40.9	27.6	18.8	71	34	
09-09-2017	42.0	28.2	0	75	37	
10-09-2017	40.9	28.1	0	76	36	
11-09-2017	40.7	27.4	0	78	37	
12-09-2017	40.5	27.3	0	75	36	
13-09-2017	43.2	28.1	0	76	37	
14-09-2017	43.2	28.1	0	77	37	
15-09-2017	40.5	28.0	0	77	36	
16-09-2017	41.9	27.7	0	74	35	
17-09-2017	38.1	26.4	0	70	35	
18-09-2017	36.5	27.0	0	71	42	
19-09-2017	36.5	26.9	0	72	46	
20-09-2017	39.4	26.6	0	72	48	
21-09-2017	39.7	27.1	0	75	32	
22-09-2017	41.4	27.4	0	79	35	
23-09-2017	41.4	27.3	0	82	35	
24-09-2017	41.8	26.9	0	79	35	
25-09-2017	40.1	27.4	0	79	40	
26-09-2017	38.7	26.8	0	77	37	
27-09-2017	40.4	28.4	0	76	41	
28-09-2017	38.1	27.5	0	81	45	
29-09-2017	38.8	27.5	0	81	45	
30-09-2017	40.5	27.7	0	86	42	

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.

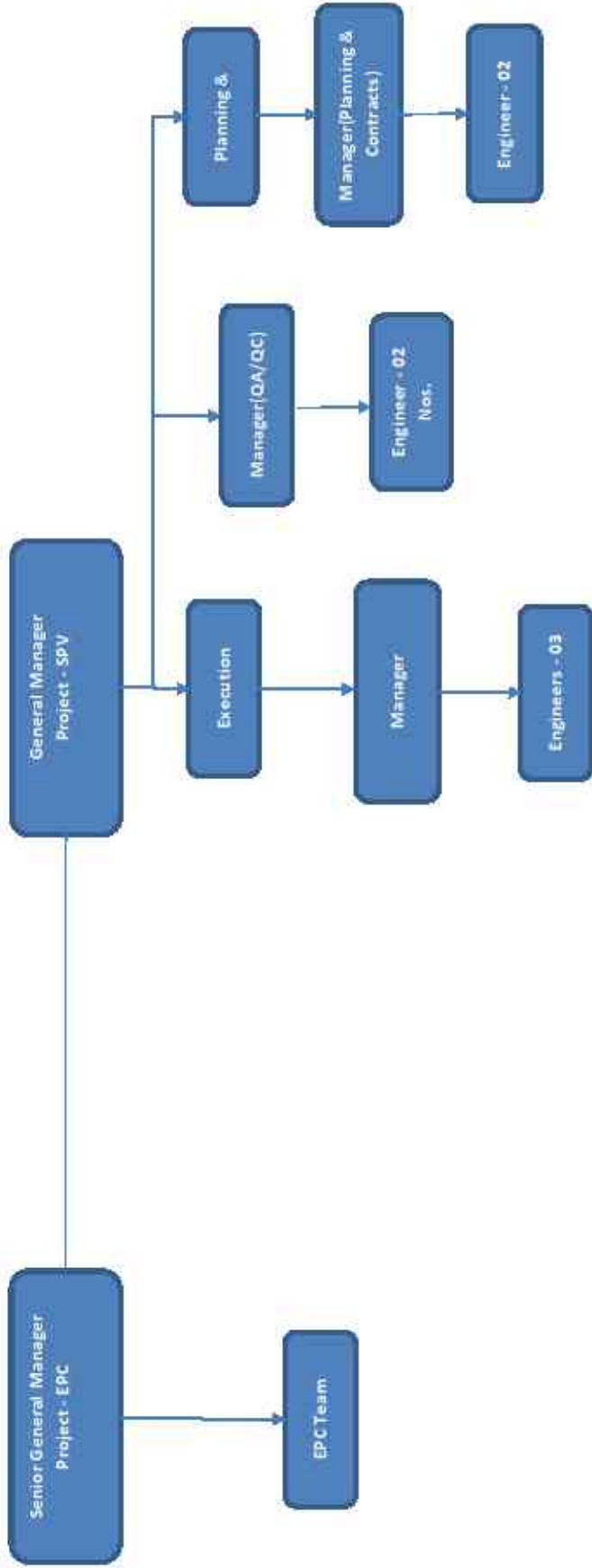
Table 10.1. Details of Important Events			
Sl. No	Date of Events	Description of Events	Remarks
1)	12.07.2018	Site Visit of Project Director, PIU, NHAI, Thanjavur	
2)	16.07.2018	Progress Review meeting held under the chairmanship of OSD to Union Minister	
3)	02.08.2018	Progress Review meeting held under the chairmanship of RO, Madurai	
4)	10.08.2018	Meeting held under the chairmanship of RO, Madurai for declaration of Appointed Date	
5)	06.09.2018	Project Appointed Date has declared as 06.09.2018	
6)	19.09.2018	RO, NHAI, Madurai Visited the Project site	
7)	24.07.2018	Site Visit of Project Director, PIU, NHAI, Thanjavur	

11. Organization Chart

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

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

Figure 5 - ORGANIZATION CHART - SPV Team



12. 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 IHAJ

S.No	Date	Letter No	Subject	Remarks
1	02.11.2017	PIPL/IHAJ/T/CT/002/2017	Application for grant of Quarry Lease.	
2	02.11.2017	PIPL/CT/IHAJ/003	Submission of Videography.	
3	05.12.2017	PCTHPL/PIU/CT/003/2017	Submission of Power of Attorney for Captioned Project.	
4	21.12.2017	PCTHPL/PIU/CT/005/2017	Power of attorney-(Mukesh Kumar H.Tiwary, GM).	
5	29.12.2017	PCTHPL/IHAJ/006/2017	Regarding Status of Survey & Investigation carried out for design work of the Project Highway.	
6	30.12.2017	PCTHPL/IHAJ/007/2017	Commencement of Maintenance Work of existing project highway.	
7	23.01.2018	PCTHPL/IHAJ/008/2018	Regarding status of survey & Investigation carried out for design work of the project highway.	
8	25.01.2018	PCTHPL/IHAJ/009/2018	Traffic Survey to be Conducted as per clause 4.1 of Schedule "I"	
9	22.02.2018	PCTHPL/IHAJ/010/2018	Submission of Draft EPC Contract Agreement as per Clause 5.2.2 of CA	
10	12.02.2018	PCTHPL/IHAJ/KUM/2018/008	Sign Board Erection	
11	17.02.2018	PCTHPL/IHAJ/011/2018	Submission of Draft EPC Contract Agreement as per Clause 5.2.2 of CA	
12	26.02.2018	PII/IHAJ/CT/13/2018	Submission of draft Financing documents	
13	03.03.2018	PCTHPL/IHAJ/012/2018	Communication address	
14	10.03.2018	PCTHPL/IHAJ/015/2018	Undertaking as per clause 7.1(k), 7.1(j), 7.1(m) of CA	
15	12.03.2018	PCTHPL/IHAJ/016/2018	Status of conditions precedent as per clause 4.1.3 of CA	
16	19.03.2018	PSCHPL/IHAJ/KUM/2018/014	Request for issuing Form - V.	
17	14.05.2018	PCTHPL/CT/IHAJ/2018/027	Submission of Power of attorney of Mr.Prakasa Rao	
18	06.06.2018	PCTHPL/CT/IHAJ/2018/029	Executed EPC Agreement	
19	07.06.2018	PCTHPL/CT/PIU/2018/030	Regarding intimation of insurance policy to be taken for the said project	
20	23.04.2018	PCTHPL/CT/IHAJ/2018/035	Regarding patch work	
21	16.05.2018	PCTHPL/CTP/IHAJ/2018/041	Discrepancies in the FRL's, Ground levels and the bore logs data given in ROB at Ch 134+345(Rly km 320/800)	
22	17.05.2018	PCTHPL/CTP/IHAJ/2018/042	Formation of temporary diversion road in River / Canal beds	
23	12.06.2018	PCTHPL/CTP/IHAJ/2018/052	Maintenance of existing Project Highway	
24	18.06.2018	PCTHPL/CTP/IHAJ/2018/055	Removal /raising of High Voltage Transmission lines of TAI GENCO	
25	29.06.2018	PCTHPL/CTP/IHAJ/2018/062	Maintenance of existing Project Highway - Reg	
26	02.07.2018	PCTHPL/CTP/IHAJ/2018/063	Proposal for rerouting of existing canal passing within the proposed carriageway from Km 117.760 to Km 118.480	
27	02.07.2018	PCTHPL/CTP/IHAJ/2018/064	Hindrance/ obstruction of irrigation structures / Canals within the proposed carriageway from Km 117.760 to Km 118.480	
28	02.07.2018	PCTHPL/CTP/IHAJ/2018/065	Request for Joint inspection by the PWD/WRO officials for issuing NOC in connection with the proposals cover under Vennar Basin division	
29	02.07.2018	PCTHPL/CTP/IHAJ/2018/066	Request for Joint inspection by the PWD/WRO officials for issuing NOC in connection with the proposals cover under Cauvery Basin Division	
30	18.07.2018	PCTHPL/CTP/IHAJ/2018/073	Regarding existing canal passing within the proposed carriageway from Km 124+150 to Km 124+750	
31	03.08.2018	PCTHPL/CTP/IHAJ/2018/077	Construction of ROB-Initial Pile Load Test	
32	04.08.2018	PCTHPL/CTP/IHAJ/2018/078	Shifting of Electrical Utility of chalapuram section as per cl.11.2.1 of CA	
33	16.08.2018	PCTHPL/CTP/IHAJ/2018/082	Unauthorized Soil Excavation within the right of way	
34	27.08.2018	PCTHPL/PIU/CT/041/2018	Submission of Undertaking for Waiver of damages payable by the Authority	
35	01.09.2018	PCTHPL/PIU/CT/044/2018	Submission of Escrow Account details for the above cited Highway project work	
36	03.09.2018	PCTHPL/CTP/IHAJ/2018/089	Submission of Compliance Report - Activities carried out during the observance of Swachhta Pakhwada between 16th to 31st Aug 2018	
37	11.09.2018	PCTHPL/CTP/IHAJ/2018/098	Relocation of Existing TWAD Pipeline @ 139+477	

TABLE 14.2 - CORRESPONDENCE - IHAH TO CONCESSIONAIRE

S.I.No	Date	Letter No	Subject	Remarks
1	28.11.2017	IHAH/PIU/Thanj/11 019/27/2013/2056	Laying of new water pipeline in existing ROW-Preparation of estimates-requested	
2	28.11.2017	IHAH/PIU/Thanj/11 019/27/2013/2057	Laying of new water pipeline in existing ROW-Preparation of estimates-requested	
3	28.11.2018	IHAH/PIU/Thanj/11 019/27/2013/2058	Laying of new water pipeline in existing ROW-Preparation of estimates-requested	
4	28.11.2018	IHAH/PIU/Thanj/11 019/27/2013/2059	Laying of new water pipeline in existing ROW-Preparation of estimates-requested	
5	28.11.2018	IHAH/PIU/Thanj/11 019/27/2013/2061	Laying of new water pipeline in existing ROW-Preparation of estimates-requested	
6	28.11.2018	IHAH/PIU/Thanj/11 019/27/2013/2064	Laying of new water pipeline in existing ROW-Preparation of estimates-requested	
7	14.12.2017	IHAH/PIU/Thanj/11 027/07/2009/2186	Re-Organization of field office of IHAH in the state of Tamilnadu and creation new regional office	
8	01.01.2018	IHAH/PIU/Thanj/11 019/51/2017/001	Erection of Caution boards-requested	
9	08.01.2018	IHAH/PIU/Thanj/11 027/09/2017/049	Preparedness of activities during swachhta pakhwada	
10	19.01.2018	IHAH/PIU/Thanj/11 019/51.852/2017/102	Filing of annual return by the contractors shram suvidha portal	
11	24.01.2018	IHAH/PIU/Thanj/11 019/21/2013/145	Furnishing Hydraulic particulars	
12	31.01.2018	IHAH/PIU/Thanj/11 019/51.852/2017/178	Bank Guarantees Linking through Structured Financial message system (SFMS)	
13	23.02.2018	IHAH/PIU/Thanj/11 019/03/2009/357	KoranatturapurVillage request to provide speed breakers	
14	17.02.2018	IHAH/PIU/Thanj/11 019/18/2010/327	Eviction of encroachments at cholapuramtown panchayat areas -request	
15	01.03.2018	IHAH/PIU/Thanjavur/11 019/21/2013/371	Hydraulic Particulars-Communicated	
16	13.03.2018	IHAH/PIU/Thanj/11 019/58/2017/504	Mobilization of Independent Engineer	
17	14.03.2017	IHAH/PIU/Thanjavur/11 019/21/2013/480	Hydraulic Particulars-Communicated	
18	15.03.2018	IHAH/PIU/Thanjavur/11 019/21/2013/502	Hydraulic Particulars-Communicated	
19	20.03.2018	IHAH/PIU/Thanjavur/11 019/21/2013/527	Hydraulic Particulars-Communicated	
20	29.03.2018	IHAH/PIU/Thanjavur/11 019/21/2013/618	Hydraulic Particulars-Communicated	
21	29.03.2018	IHAH/PIU/Thanjavur/11 019/21/2013/619	Hydraulic Particulars-Communicated	
22	11.04.2018	IHAH/PIU/Thanj/11 019/51/2017/713	Patch work	
23	18.04.2018	IHAH/PIU/Thanj/11 017/02/2007/740	Chief Minister's cell petition to 2944 petition-reply sent	
24	05.05.2018	IHAH/PIU/Thanj/11 019/03/2009/911	Request to rectify the defect and Maintenance of Road Bridge	
25	08.05.2018	IHAH/PIU/Thanj/11 019/51/51/2017/924	Independent consultancy services for the months of Jan, Feb & March 2018-50% Claim	
26	17.05.2018	IHAH/11 033/CGM (FA)/FC-44/2018	Financial closure	
27	19.05.2018	IHAH/PIU/Thanjavur/11 019/21/2013/982	Submission of GAD for review-IIOC requested	
28	19.05.2018	IHAH/PIU/Thanjavur/11 019/21/2013/983	Submission of GAD for review-IIOC requested	
29	19.05.2018	IHAH/PIU/Thanjavur/11 019/21/2013/984	Submission of GAD for review-IIOC requested	
30	23.05.2018	IHAH/PIU/Thanjavur/11 026/21/2018/1021	Hon'ble Chief Minister's Program on 26.05.2018-Maintenance of Road Stretch	
31	24.05.2018	IHAH/PIU/Thanj/11 026/11/2018/1031	Removal of dead trees	
32	30.05.2018	IHAH/11 014/1/18/ROMadurai/1110	Pre-review by ROMadurai on 05.06.2018	
33	31.05.2018	IHAH/PIU/Thanj/11 027/05/2009/1073	Review Meeting by Honable Union Minister of Road Transport, Highways and Shipping at Goa on 10th, 11th and 12th June, 2018 - Prereview by ROMadurai on 05.06.2018	
34	19.05.2018	IHAH/PIU/Thanj/11 019/32/2012/981	Discrepancies in FRL, GL and bore logs data-Corrections requested	
35	01.06.2018	IHAH/PIU/Thanj/11 015/51/2009/1084	Action taken report on preparedness on southwest monsoon 2018	
36	08.06.2018	IHAH/PIU/Thanj/11 019/51/51/2017/1124	Independent consultancy services for the months of April 2018-50% Claim	
37	04.06.2018	IHAH/PIU/Thanj/11 019/04/2009/1099	Request to maintain the road stretch between Thanjavur and Kumbakonam representation Made-Reply Sent	
38	15.05.2018	IHAH/PIU/Thanj/11 026/05/2018/968	Maintenance of existing road stretch-Representation made to the District Collector, Thanjavur	
39	08.06.2018	IHAH/PIU/Thanj/11 019/03/1124	KoranatturapurVillage request to provide speed breakers	
40	19.06.2018	IHAH/PIU/Thanj/11 026/22/2017/1176	Request Concurrence for rerouting of existing canal passing within the proposed carriageway from Km 117+760 to Km 118+480-Peg	
41	14.06.2018	IHAH/PIU/Thanj/11 026/15/2017/1156	Execution of EPC Contract Agreement as per Clause 5.2.2 of CA-Remarks Called for	
42	08.06.2018	IHAH/PIU/Thanj/11 019/51/51/2017/1205	Independent consultancy services for the months of May 2018-50% Claim	
43	27.06.2018	IHAH/PIU/Thanj/11 026/21/2018/1256	Removal of Speed breakers and Rumble strips due to visit of Hon'ble Chief Minister of Tamilnadu-Restoration requested	
44	03.07.2018	IHAH/PIU/Thanjavur/11 026/22/2018/1271	IIOC Requested for minor bridges	
45	03.07.2018	IHAH/PIU/Thanjavur/11 026/22/2018/1274	IIOC Requested	
46	11.07.2018	IHAH/PIU/Thanj/11 026/12/2018/1348	Shifting and raising of High voltage Transmission Towers.	
47	14.07.2018	IHAH/PIU/Thanj/11 028/05/2018	Road safety 2nd meeting held on 20/04/2018 and its Decision taken	
48	23.07.2018	IHAH/PIU/Thanj/11 026/13/2018/1424	Relocation of existing canal passing within proposed carriageway	
49	08.08.2018	IHAH/PIU/Thanj/11 019/51/2017/1565	Remuneration of Independent Consultancy Services for the month June 2018	
50	09.08.2018	IHAH/PIU/Thanj/11 026/24/2018/1553	Construction of ROB-Pile load test report	
51	11.08.2018	IHAH/PIU/Thanj/11 026/06/2018/1555	Irrigation Channel destroyed-Petition from local villagers	
52	13.08.2018	IHAH/PIU/Thanj/11 026/15/2018/1577	Signing of joint memorandum of Site inventories	
53	25.08.2018	IHAH/PIU/Thanj/11 026/08/2018/1610	Road Stretch in Papanasamtown Panchayat Eviction of Encroachments	
54	25.08.2018	IHAH/PIU/Thanj/11 026/06/2018/1616	Irrigation Channel destroyed-Action requested	
55	25.08.2018	IHAH/PIU/Thanj/11 023/01/2018/1622	Change in address of ROMadurai	
56	25.08.2018	IHAH/PIU/Thanj/11 026/03/2018/1633	Road Safety Meeting Held on 30.07.2018	

S.No	Date	Letter No	Subject	Remarks
57	30.08.2018	IHA/PIU/Thanj/11 027/07/2009/1 682	Annual award for Excellence in I Hs	
58	01.09.2018	IHA/PIU/Thanj/11 026/06/2018/1 704	Athiyaman Thoranavil removal of Plants	
59	07.09.2018	IHA/PIU/Thanj/11 027/07/2018/1 749	Application for annual awards for excellence in I Hs Communicated	
60	06.09.2018	IHA/PIU/Thanj/11 026/15/2018/1 745	Declaration of Appointed date and commencement of work	
61	08.09.2018	IHA/PIU/Thanj/11 011/01/2009/1 754	Remittance towards contribution of welfare of T I Workers general welfare board	
62	10.09.2018	IHA/PIU/Thanj/11 019/51/2017/1 756	EB Utility Shifting RA Bill no.1 Payment details for M s PKL Electricals	
63	10.09.2018	IHA/PIU/Thanj/11 026/11/2018/1 764	Felling & transisting of Trees	
64	12.09.2018	IHA/PIU/Thanj/11 019/03/2009/1 777	Proposed merger of Kumbakonam Bypass Phase-III with the proposed 4 laning-report requested	
65	12.09.2018	IHA/PIU/Thanj/11 099/00/2007/1 778	Commemoration of the 150th Birth Anniversary of Shri. Mahatma Gandhi - Action plan requested	
66	24.09.2018	IHA/PIU/Thanj/11 026/1 3/2018/181 3	Shifting of Water Supply Pipe line - Work Order issued	
67	24.09.2018	IHA/PIU/Thanj/11 026/1 2/2018/1820	Shifting of Electrical Utilities like HTLT Lines & Structures - Work Order issued	
68	24.09.2018	IHA/PIU/Thanj/11 019/51/2017/1825	Independent Consultancy Services for the months of July 2018 - 50% Claim	
69	27.09.2018	IHA/PIU/Thanj/11 019/51/2017/1837	CTP Independent Consultancy Services for the months of Aug 2018 - 50% Claim	

TABLE 14.3 - CORRESPONDENCE - CONCESSIONAIRE TO II DEPEI IDEI IT EI IGIIEER

S.No	Date	Letter No	Subject	Remarks
1	12.03.2018	PCTHPL/IHA/01/3/2018	Intimation of required additional Structure on irrigation channel under the Positive Change of Scope in Project Highway	
2	20.03.2018	PCTHPL/CTP/IE/015/2018	Regarding Submission of Design & Drawings for Minor Bridge and PUP	
3	20.03.2018	PCTHPL/CTP/IE/016/2018	Source Approval of Hume pipe	
4	20.03.2018	PCTHPL/CTP/IE/017/2018	Source Approval of Admixtures.	
5	20.03.2018	PCTHPL/CTP/IE/018/2018	Source Approval of Cement	
6	20.03.2018	PCTHPL/CTP/IE/019/2018	Request for Source Approval of Steel	
7	22.03.2018	PCTHPL/CTP/IE/017/2018	Submission of power of attorney	
8	27.03.2018	PCTHPL/CTP/IE/020/2018	Submission of Mix Design of Concrete.	
9	27.03.2018	PCTHPL/CTP/IE/021/2018	Request for Source Approval of cement	
10	28.03.2018	PCTHPL/CTP/IE/022/2018	Factory Visit for source approval.	
11	29.03.2018	PCTHPL/CTP/IE/023/2018	Request for approval of IABL accredited labs for third party testing	
12	03.04.2018	PCTHPL/CTP/IE/2018/025	Submission of soft copy of signed Concession Agreement for the captioned project	
13	04.04.2018	PCTHPL/CTP/IE/019/2018	Submission of pvement Design Report	
14	04.04.2018	PCTHPL/CTP/IE/020/2018	Submission of Design basis Report for project Highway	
15	07.04.2018	PCTHPL/CTP/IE/2018/026	Submission of Quality Assurance Plan.	
16	07.04.2018	PCTHPL/CTP/IE/2018/027	Request for source approval of Mechanical couplers	
17	10.04.2018	PCTHPL/CT/IE/2018/028	Regarding request for source approval after factory visit	
18	21.05.2018	PCTHPL/TESP/2018/028	Submission of Structure Design and Drawings of 13 Box Culverts	
19	10.04.2018	PCTHPL/CT/IE/2018/029	Regarding request for source approval after factory visit	
20	11.04.2018	PCTHPL/CT/IE/2018/030	submission of Test Pile Report for Grade Separator at 157+100	
21	12.04.2018	PCTHPL/CT/IE/2018/031	Request for Testing of Aggregate and Water	
22	12.04.2018	PCTHPL/CT/IE/2018/032	Regarding request for source approval after Fosroc Admixture factory visit	
23	13.04.2018	PCTHPL/CT/IE/2018/033	Regarding development of Junction	
24	13.04.2018	PCTHPL/CT/IE/2018/034	Request for Source Approval of SRMB Steel	
25	28.04.2018	PCTHPL/CT/IE/2018/036	Submission of test pile report for Grade Separator at 157+100	
26	30.04.2018	PCTHPL/CT/IE/2018/037	Submission of Credential for source approval	
27	03.05.2018	PCTHPL/CT/IE/2018/038	Re-submission of Quality Assurance Plan	
28	07.05.2018	PCTHPL/CT/IE/2018/039	Submission of mix design for M35 piling concrete	
29	14.05.2018	PCTHPL/CT/IHA/2018/040	Regarding Submission of Structure GAD Drawing of 15 MHB	
30	21.05.2018	PCTHPL/CT/IE/2018/046	Proposal of shyam Steel.	
31	28.05.2018	PCTHPL/CT/IE/2018/048	Procurement of Mechanical couplers	
32	29.05.2018	PCTHPL/CT/IE/2018/049	Submission of Power of Attorney for the captioned project for Mr.Prakasa Rao	
33	18.06.2018	PCTHPL/CT/IE/2018/053	Procurement of HT strands from M/s Usha Martin Limited and M/s D.P.Wires Limited	
34	18.06.2018	PCTHPL/CT/IE/2018/054	Regarding rerouting of existing canal passing within the proposed carriageway from Km 117.760 to Km 118.480	
35	20.06.2018	PCTHPL/CT/IE/2018/056	Initial load test on piles	
36	23.06.2018	PCTHPL/CT/IE/2018/057	Procurement of Mechanical couplers	
37	23.06.2018	PCTHPL/CT/IE/2018/058	Submission of credential of M/s Dynamic Prestressing India Pvt. Ltd.	
38	23.06.2018	PCTHPL/CT/IE/2018/059	Submission of credential of M/s Sree Balaji Test House Pvt. Ltd. & M/s Anu Lab – for conducting the third party testing	
39	23.06.2018	PCTHPL/CT/IE/2018/060	Procurement of Bitumen Emulsion (SS1 & RS1) M/s Hindustan Colas Private Limited	
40	23.06.2018	PCTHPL/CT/IE/2018/061	Procurement of Bitumen and Bitumen emulsion	
41	07.07.2018	PCTHPL/CT/IE/2018/067	Proposal of Shyam Steel	
42	07.07.2018	PCTHPL/CT/IE/2018/068	Procurement of Bitumen Emulsion (SS1 & RS1)	
43	07.07.2018	PCTHPL/CT/IE/2018/069	Procurement of Admixture from M/s BASF India Limited	
44	07.07.2018	PCTHPL/CT/IE/2018/070	Procurement of construction materials from M/s IWL India Limited	
45	13.07.2018	PCTHPL/CT/IE/2018/071	Proposal of STRATA Geosystems (I) Pvt. Ltd. - System supplier for Reinforced Earth wall	
46	17.07.018	PCTHPL/CT/IE/2018/072	Request for site inspection for confirmation of the locations of CD structure proposed in schedule B of Concession Agreement	
47	20.07.2018	PCTHPL/CT/IE/2018/074	Submission of Concrete Mix Design - Ms Selva Ready Mix Concrete & Constnution	
48	27.07.2018	PCTHPL/CT/IE/2018/075	Procurement of Reinforcement steel from Kamachi industries Ltd.	
49	28.07.2018	PCTHPL/CT/IE/2018/076	Method statement for Ground Improvement of Weak soils	
50	11.08.2018	PCTHPL/CT/IE/2018/079	Proposal of Borrow Area for construction of Embankment and Subgrade of the Project	
51	11.08.2018	PCTHPL/CT/IE/2018/080	Proposal of Stone Quarry for production of construction materials to the Project	
52	17.08.2018	PCTHPL/CT/IE/2018/083	Request for joint sampling for proposed borrow area	
53	18.08.2018	PCTHPL/CT/IE/2018/084	Joint sampling of stone quarry for production of coarse & fine aggregates	
54	18.08.2018	PCTHPL/CT/IE/2018/085	Procurement of curing compound from M/s kunal Conchem Ltd	
55	21.08.2018	PCTHPL/CT/IE/2018/086	Procurement of Admixture from M/s Rhenoplast technologies Pvt Ltd	
56	23.08.2018	PCTHPL/CTP/IE/038/2018	Submission of Construction Cost of VUP @ 134+900 Merging of kumbakonam Bypass	
57	29.08.2018	PCTHPL/CT/IE/2018/087	Proposal of Borrow Area for construction of Embankment of the Project	
58	01.09.2018	PCTHPL/CT/IE/2018/088	Proposal of stone quarry for production of construction materials to the project	
59	03.09.2018	PCTHPL/CT/IE/2018/090	Submission of Compliance report-Adhiyaman Arch plant removal	
60	07.09.2018	PCTHPL/CT/IE/2018/091	Video Recording as per Clause 1.3.6 of CA	
61	10.09.2018	PCTHPL/CT/IE/2018/092	Proposal of Stone Quarry-01 of Srimurugan stone quarry, Padalur Village for production of Coarse Aggregate to the Project	
62	10.09.2018	PCTHPL/CT/IE/2018/093	Proposal of Stone Quarry-02 of Agate Infra Stone Quarry, Kalpadi Village, Perambalur for production of Coarse Aggregate to the Project	
63	10.09.2018	PCTHPL/CT/IE/2018/094	Third party test report on analysis of water	
64	10.09.2018	PCTHPL/CT/IE/2018/095	Production of M-Sand to the project	

S.No	Date	Letter No	Subject	Remarks
65	10.09.2018	PCTHPL/CT/IE/2018/096	Submission of test Report of Initial Vertical Pile Load test for the Proposed Grade Separator at Km 1.57+1.00	
66	11.09.2018	PCTHPL/CT/IE/2018/097	Submission of test Report of Initial Vertical Pile Load test for the Proposed ROB @Km 1.34+3.45	
67	15.09.2018	PCTHPL/CT/IE/2018/099	Balabharathi Infra System supplier for Reinforcement Earth wall	
68	15.09.2018	PCTHPL/CT/IE/2018/100	Proposal of Borrow Area of the Project	
69	17.09.2018	PCTHPL/CT/IE/2018/101	Submission of Concrete Mix Design M 15 PCC & M35 (for RE Wall)	
70	17.09.2018	PCTHPL/CT/IE/2018/102	Appointment of Design Consultant to the project	
71	18.09.2018	PCTHPL/CT/IE/2018/103	Submission of Action plan - Commemoration of the 150th birth anniversary of Mahatma Gandhi	
72	18.09.2018	PCTHPL/CT/IE/2018/104	Submission of Drawings of Box Culverts, VUPs, PUPs, Grade Separators	
73	19.09.2018	PCTHPL/CT/IE/2018/105	Papanasam Taluk- Porakkudi - Punnianallur Village - Irrigation Channel destroyed - action requested	
74	19.09.2018	PCTHPL/CT/IE/2018/106	Submission of test Report of Safe Bearing capacity for Box Culverts	
75	20.09.2018	PCTHPL/CT/IE/2018/107	Submission of Concrete Mix Design of Grade M 15	
76	21.09.2018	PCTHPL/CT/IE/2018/108	Revised Method Statement for Ground Improvement of CD Structures	
77	21.09.2018	PCTHPL/CT/IE/2018/109	Video Recording as per the clause 13.6 of Concession Agreement	
78	21.09.2018	PCTHPL/CT/IE/2018/110	Compliance Report- Proposal of STRATA Geosystems Pvt. Ltd. - System supplier for Reinforced Earth wall	
79	21.09.2018	PCTHPL/CT/IE/2018/111	construction of YUP at Km 1.34 +9.00 Merging of Kumbakonam Bypass Phase III - with package III of ITH45C- VIP reference from Sh.R.K.Bharathi Mohan	
80	21.09.2018	PCTHPL/CT/IE/2018/112	Proposal of Borrow Area of the Project	
81	24.09.2018	PCTHPL/CT/IE/2018/113	Submission of test Report of Safe Bearing capacity for Box Culverts	
82	25.09.2018	PCTHPL/CT/IE/2018/114	Method statement for Ground Improvement for CD Structures	
83	25.09.2018	PCTHPL/CT/IE/2018/115	Submission of test Report of Safe Bearing capacity for Box Culverts	
84	28.09.2018	PCTHPL/CT/IE/2018/116	Proposal of Balabharathi Infrastructure Pvt.Ltd. - System supplier for Reinforced Earth wall	
85	29.09.2019	PCTHPL/CT/IE/2018/117	Submission of Traffic Management plan for the proposed VUP and Grade Separated structures	
86	29.09.2019	PCTHPL/CT/IE/2018/119	Method statement for Ground Improvement for CD Structure	
87	29.09.2019	PCTHPL/CT/IE/2018/120	Submission of Concrete Mix Design of Grade M 30 and M 35 (Piling)	

TABLE 14.4 - CORRESPONDANCE - INDEPENDENT ENGINEER TO CONCESSIONAIRE / IHAI

S.No	Date	Letter No	Subject	Remarks
1	19.02.2018	Theme/IE Cholapuram Thanjavur/17/2824	Nomination of Authorized Representative	
2	16.03.2018	Theme/IHAI/CHO-TIUR/COI/318/001	Intimation of additional Structures on irrigation channels under the positive change of scope in the project highway	
3	21.03.2018	Theme/IHAI/CHO-TIUR/COI/318/002	Intimation of additional Structures on irrigation channels under the positive change of scope in the project highway	
4		Theme/IHAI/CHO-TIUR/COI/318/003	Submission of Design & drawings for Minor Bridge and PUP	
5	22.03.2018	Theme/IHAI/CHO-TIUR/COI/318/004	Request for source approval of Hume Pipe	
6	22.03.2018	Theme/IHAI/CHO-TIUR/COI/318/005	Request for source approval of Cement	
7	26.03.2018	Theme/IHAI/CHO-TIUR/COI/318/006	Request for Source approval of Admixtures	
8	28.03.2018	Theme/IHAI/CHO-TIUR/COI/318/007	Request for Source approval of Steel	
9	28.03.2018	Theme/IHAI/CHO-TIUR/COI/318/008	Request for Approval of mix Design of Concrete	
10	30.03.2018	Theme/IHAI/CHO-TIUR/COI/318/009	Request for source approval of Cement	
11	09.04.2018	Theme/IHAI/CHO-TIUR/COI/418/010	Request for approval of IABL accredited labs for Third party testing	
12	16.04.2018	Theme/IHAI/CHO-TIUR/COI/418/011	Request for source approval of Mechanical Couplers	
13	16.04.2018	Theme/IHAI/CHO-TIUR/COI/418/012	Observation of National Road safety week 2018 from 23rd April to 30th April	
14	17.04.2018	Theme/IHAI/CHO-TIUR/COI/418/013	Request for source approval of Cement	
15	17.04.2018	Theme/IHAI/CHO-TIUR/COI/418/014	Request for source Approval Cement	
16	17.04.2018	Theme/IHAI/CHO-TIUR/COI/418/015	Quality Assurance Plan	
17	17.04.2018	Theme/IHAI/CHO-TIUR/COI/418/016	Submission of Design & drawings for Minor Bridge and PUP	
18	18.04.2018	Theme/IHAI/CHO-TIUR/COI/418/017	Submission of Test Ple report for gradeseperator at 157+100	
19	19.04.2018	Theme/IHAI/CHO-TIUR/COI/418/018	Source Approval of Admixture for Concrete work	
20	19.04.2018	Theme/IHAI/CHO-TIUR/COI/418/019	Request for source approval of steel	
21	19.04.2018	Theme/IHAI/CHO-TIUR/COI/418/020	Development of Junctions	
22	24.04.2018	Theme/IHAI/CHO-TIUR/COI/418/021	Development of Junctions	
23	02.05.2018	Theme/IHAI/CHO-TIUR/COI/518/022	Request for approval of IABL accredited labs for Third party testing	
24	03.05.2018	Theme/IHAI/CHO-TIUR/COI/518/023	Quality Assurance Plan	
25	08.05.2018	Theme/IHAI/CHO-TIUR/COI/518/024	Mix Design for M35 pilling concrete	
26	08.05.2018	Theme/IHAI/CHO-TIUR/COI/518/025	Request to rectify the defect and maintenance of Road Bridge	
27	22.05.2018	Theme/IHAI/CHO-TIUR/COI/518/026	Pavement design report for Project highway	
28	28.05.2018	Theme/IHAI/CHO-TIUR/COI/518/027	Request for source approval of steel	
29	18.06.2018	Theme/IHAI/CHO-TIUR/COI/618/028	Procurement of Mechanical Couplers	
30	18.06.2018	Theme/IHAI/CHO-TIUR/COI/618/029	Submission of Structure design & drawings (GAD & reinforcement Drawings) of 13 Box Culverts	
31	20.06.2018	Theme/IHAI/CHO-TIUR/COI/618/030	Rerouting of existing canal passing within the project proposed carriageway from km 117.760 to km 118.480	
32	20.06.2018	Theme/IHAI/CHO-TIUR/COI/618/031	Procurement of HT strands from M/s Usha Martin Limited and M/s D.P Wires Limited	
33	22.06.2018	Theme/IHAI/CHO-TIUR/COI/618/032	Methodology for Initial load test on Piles	
34	25.06.2018	Theme/IHAI/CHO-TIUR/COI/618/033	Source approval for Procurement of mechanical couplers	
35	25.06.2018	Theme/IHAI/CHO-TIUR/COI/618/034	Request for approval of IABL accredited labs for Third party testing	
36	25.06.2018	Theme/IHAI/CHO-TIUR/COI/618/035	Submission of Credential of M/s Dynamic Prestressing India Pvt Limited	
37	25.06.2018	Theme/IHAI/CHO-TIUR/COI/618/036	Source Approval for Procurement of Bitumen & Bitumen emulsion	
38	25.06.2018	Theme/IHAI/CHO-TIUR/COI/618/037	Source approval for procurement of Bitumen emulsion (SS1 & RS1)	
39	18.07.2018	Theme/IHAI/CHO-TIUR/COI/718/038	Source approval for steel	
40	18.07.2018	Theme/IHAI/CHO-TIUR/COI/718/039	Source approval for Bitumen Emulsion	
41	18.07.2018	Theme/IHAI/CHO-TIUR/COI/718/040	Source approval for Admixture	
42	19.07.2018	Theme/IHAI/CHO-TIUR/COI/718/041	Source approval for Admixture	
43	21.07.2018	Theme/IHAI/CHO-TIUR/COI/718/042	Merging of Kumbakonam Bypass-VIP reference of Sh.R.K.Bharathi Mahan	
44	21.07.2018	Theme/IHAI/CHO-TIUR/COI/718/043	Proposal of STRATA Geosystems (I) Pvt Ltd-System supplier for Reinforced Earth Wall	
45	21.07.2018	Theme/IHAI/CHO-TIUR/COI/718/044	Source approval for Bitumen Emulsion and Mastic Asphalt-Hyperplas Polyester Membranes	
46	26.07.2018	Theme/IHAI/CHO-TIUR/COI/718/045	Approval of Mix design of concrete from M/s Selva readymix concrete	
47	26.07.2018	Theme/IHAI/CHO-TIUR/COI/718/046	Site inspection for confirmation of the location of CD Structure proposed in Schedule-B of Agreement	
48	01.08.2018	Theme/IHAI/CHO-TIUR/COI/718/047	Source Approval for Steel	
49	16.08.2018	Theme/IHAI/CHO-TIUR/COI/818/049	Proposal of Borrow area for the construction of embankment and Subgrade	
50	16.08.2018	Theme/IHAI/CHO-TIUR/COI/818/050	Proposal of Stone quarry for production of construction material to project	
51	16.08.2018	Theme/IHAI/CHO-TIUR/ATH/818/017	Pile Load test report	
52	16.08.2018	Theme/IHAI/CHO-TIUR/ATH/818/015	Villagers Petition @ pullumangudi Village	
53	27.08.2018	Theme/IHAI/CHO-TIUR/COI/818/051	Source approval of Admixtures of M/s Rhenoplast Technologies Pvt.Ltd	
54	03.09.2018	Theme/IHAI/CHO-TIUR/COI/818/054	Proposal of Borrow area for the construction of Project	
55	31.08.2018	Theme/IHAI/CHO-TIUR/COI/818/055	Road Stretch in papanasam town panchayat eridion of encroachment	
56	03.09.2018	Theme/IHAI/CHO-TIUR/COI/818/056	Source approval of curing compound M/s Kunal Conchem Pvt Ltd	
57	05.09.2018	Theme/IHAI/CHO-TIUR/COI/818/057	Proposal of Stone quarry for production of construction material to project	
58	10.09.2018	Theme/IHAI/CHO-TIUR/COI/818/059	Work not conformed as per required technical specification	
59	11.09.2018	Theme/IHAI/CHO-TIUR/COI/818/060	Commemoration of 150th Birthday Anniversary of MK gandhi	
60	22.09.2018	Theme/IHAI/CHO-TIUR/COI/818/061	Source approval of Water	
61	22.09.2018	Theme/IHAI/CHO-TIUR/COI/818/062	Proposal of M/s Balabharathi Infra Pvt Ltd	
62	22.09.2018	Theme/IHAI/CHO-TIUR/COI/818/063	Submission of Mix Design M15 PCC & M35 (RE Wall Block)	
63	22.09.2018	Theme/IHAI/CHO-TIUR/COI/818/064	Source approval for Procurement of M/s Indian Cements Ltd	
64	22.09.2018	Theme/IHAI/CHO-TIUR/COI/818/065	Proposal of Borrow areas	

S.No	Date	Letter No	Subject	Remarks
65	22.09.2018	Theme/HHAI/CHO-TIUR/COI/818/066	Source approval of Srimurugan Stone Quarry-01 aggregate for concrete works	
66	22.09.2018	Theme/HHAI/CHO-TIUR/COI/818/067	Source approval of agate infra stone quarry 02 aggregate production of coarse aggregate	
67	22.09.2018	Theme/HHAI/CHO-TIUR/COI/818/069	Source approval of Srimurugan Stone Quarry-01 M-Sand for concrete works	
68	24.09.2018	Theme/HHAI/CHO-TIUR/COI/818/070	Submission of Concrete nominal mix design M15 PCC	

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.	Site Clearing works in progress			
				

Sl. No	Description	Location	Side	Remarks
8.	Site Clearing works in progress			
				

Sl. No	Description	Location	Side	Remarks
9.	Initial Pile Load test in Progress at Proposed GSI			



Sl. No	Description	Location	Side	Remarks
10.	Piling work at VUP	106+320		



Sl. No	Description	Location	Side	Remarks
11.	Box Culvert Granular filling			



Sl. No	Description	Location	Side	Remarks
12.	Box Culvert PCC in progress			



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



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

