

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

Four Laning of Cholopuram Thanjavur from Km. 116.440 to Km. 164.275
of NH-45C under NHDP-IV on Hybrid Annuity Mode Basis.

PATEL CHOLOPURAM THANJAVUR HIGHWAY PRIVATE LIMITED



MONTHLY PROGRESS REPORT
OCTOBER 2021

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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.

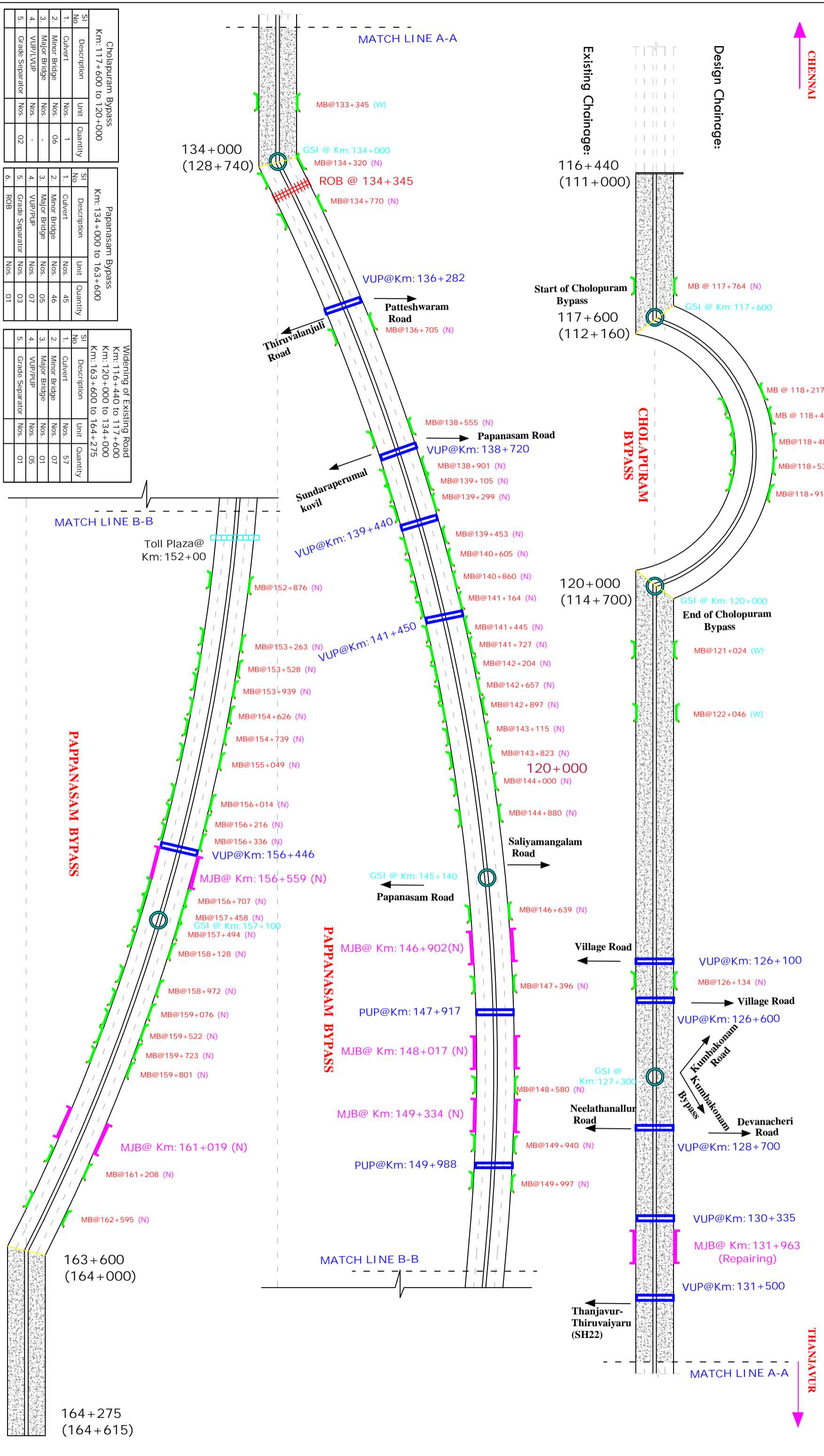
The Cholopuram to Thanjavur section of NH-45C is an important link to connect Metropolitan city of Chennai to religious and tourist places of Kumbakonam, Thanjavur, Tiruchirappalli. The project is also expected to provide improved connectivity to other religious places & other major cities like Thanjavur,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

Project Synopsis

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

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

STRIP PLAN - CHOLAPURAM TO THANJAVUR HIGHWAY PROJECT OF NH45 C



Cholapuram Bypass
Km: 117+600 to 120+000

SI No	Description	Unit	Quantity
1.	Culvert	Nos.	1
2.	Minor Bridge	Nos.	06
3.	Major Bridge	Nos.	-
4.	VUP/LVUP	Nos.	-
5.	Grade Separator	Nos.	02

Papanasam Bypass
Km: 134+000 to 163+600

SI No	Description	Unit	Quantity
1.	Culvert	Nos.	45
2.	Minor Bridge	Nos.	46
3.	Major Bridge	Nos.	05
4.	VUP/LVUP	Nos.	07
5.	Grade Separator	Nos.	03
6.	ROB	Nos.	01

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

SI No	Description	Unit	Quantity
1.	Culvert	Nos.	57
2.	Minor Bridge	Nos.	07
3.	Major Bridge	Nos.	01
4.	VUP/LVUP	Nos.	05
5.	Grade Separator	Nos.	01

Toll Plaza@
Km: 152+00

SI No	Description	Unit	Scope
1.	Total Length of Project	Km	47.835
2.	Length of Widening Portion	Km	15.335
3.	Length of Bypass	Km	32.000
4.	Length of service/Slip Road	Km	27.100
5.	Culverts	Nos.	74

Salient Features of Project:

SI No	Description	Unit	Scope
1.	Slab Culvert	Nos.	29
2.	Minor Bridge	Nos.	59
3.	Major Bridge	Nos.	06
4.	VUP/LVUP	Nos.	12
5.	Grade Separated Structure	Nos.	06
6.	ROB	Nos.	01

SI No	Description	Unit	Scope
11.	Minor Intersection	Nos.	22
12.	Major Intersection	Nos.	20
13.	Bus Bays and Shelters	Nos.	05
14.	Toll Plaza	Nos.	01

LEGEND:

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

Drawing Title

Strip Plan - Cholapuram to Thanjavur Highway Project

Date: 30-09-2018

Project No. PCHP/NHAI/TN/001

Figure 1: Project Location Map

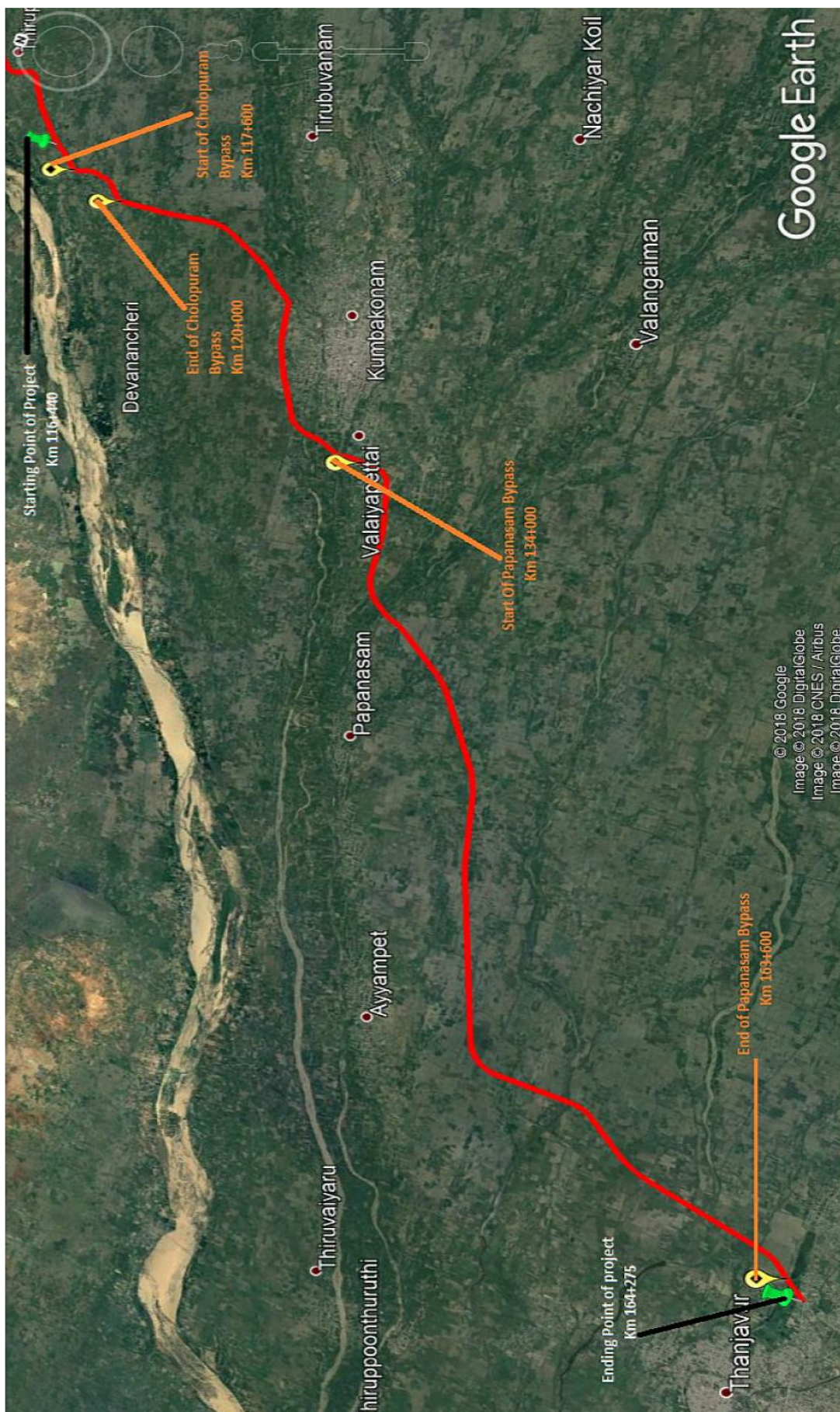


Table- 01 : Details of Project Alignments

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	

Sr. no.	Design Chainage (Km)		Length (Km)	TCS Type	Remarks
	From	To			
22	139.750	141.100	1.350	Type-A-3 (Fig 2.4 of the manual)	Bypass
23	141.100	141.800	0.700	Figure 7.8- Grade separator and its approaches with RE wall and both side 7.5 m wide Slip road	
24	141.800	144.450	2.650	Type-A-3 (Fig 2.4 of the manual)	Bypass
25	144.450	145.580	1.130	Figure 7.8- Grade separator and its approaches with RE wall and both side 7.5 m wide Slip road	
26	145.580	147.600	2.020	Type-A-3 (Fig 2.4 of the manual)	Bypass
27	147.600	148.320	0.720	Figure 7.8- Grade separator and its approaches with RE wall and both side 7.5 m wide Slip road	
28	148.320	149.720	1.400	Type-A-3 (Fig 2.4 of the manual)	Bypass
29	149.720	150.450	0.730	Figure 7.8- Grade separator and its approaches with RE wall and both side 7.5 m wide Slip road	
30	150.450	152.700	2.250	Type-A-3 (Fig 2.4 of the manual)	Bypass
31	152.700	153.300	0.600	Toll Plaza	
32	153.300	156.000	2.700	Type-A-3 (Fig 2.4 of the manual)	Bypass
33	156.000	157.350	1.350	Figure 7.8- Grade separator and its approaches with RE wall and both side 7.5 m wide Slip road	
34	157.350	164.275	6.925	Type-A-3 (Fig 2.4 of the manual)	Bypass
		Total Length	47.835		

1.1. Project Overview

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

1.2. Salient Project Features

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

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

1.3. Contractual Project Milestones

Following is a listing of the Key Project Milestones:

Mile Stone	Description	Target Date
Mile Stone-I	Concessionaire shall expended not less than 20 % of the Total capital cost and shall have commenced construction of the project and achieved 20% of physical progress on 214 th day from the Appointed Date.	07 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.	05 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.	11 th April 2020
Scheduled Completion	Concessionaire shall have completed Project on 730 th day from the Appointed Date	04 th September 2020

Note : The Settlement Agreement has been signed between Authority and Concessionaire for the completion of 22.846 Kms length by 31.05.2021, and further completion of additional 11.829 Kms length by 30.11.2021 i.e. up to Payment Date of 1st Annuity. The non-workable length/non-handed over length is 13.160 Km as per joint site verification by Concessionaire, IE and NHAI. Out of the total non-workable length/non-handed over length of 13.160 Kms, length equal to 11.990 Kms shall be handed over to the Concessionaire by 31.05.2021 and shall be completed by 31.07.2022. Remaining length of 1.170 Kms (i.e. 13.160 kms -11.990 kms) shall be de-scoped from the scope of work of Concessionaire as per the provision given in Article 16.6 of the Concession Agreement. However, both party shall be mutually free to decide and take up this remaining length of 1.170 kms, if the length will be made available.

Status of PCOD Proposal:-

Sr. No.	Description	Target	Achieved as on date	Remarks
1	Completion of 22.846 kms by 31.05.2021	45.01% (605.62 Cr.)	52.700%	
2	Completion of 34.675 kms (i.e. 22.846 Kms + 11.829 Kms) by 30.11.2021	68.41% (920.48 Cr.)		
3	Completion of balance 11.990 kms by 31.07.2022	27.25% (366.74 Cr.)		
4	Estimate of balance 1.170 kms length (i.e. 13.160 Kms - 11.990 Kms)	4.34% (58.38 Cr.)		

1.4. Payment milestone during Construction Period

Payment Milestone	Eligibility Criteria	Payment Amount (Rs.)
Milestone-I	On Achievement of 10% of Physical Progress	107.65 Crs.
Milestone-II	On Achievement of 30% of Physical Progress	107.65 Crs.
Milestone-III	On Achievement of 50% of Physical Progress	107.65 Crs.
Milestone-IV	On Achievement of 75% of Physical Progress	107.65 Crs.
Milestone-V	On Achievement of 90% of Physical Progress	107.65 Crs.

1.5. Permits & Approvals

Sr. No.	Details	Authority	Current Status	Remarks
1	Extraction of Boulders from Quarries	Dist. Mining Officer	Obtained	PIL (EPC Contractor) have engaged Agate Infra Engineering for supply of boulders that is having a valid license for extraction of boulders and other required permission for the quarry at Kalpadi Village, Perambalur District.
2	Installation of Crusher	Village Panchayat Head	Obtained	
3	-----D O-----	Pollution Control Board	Obtained	
4	Use of Explosives	Dist. Collector	Obtained	
5	Labour License	Labour Commissioner	Obtained	
6	Environmental Clearance		NA	
7	Trees Cutting Permission	Forest department through NHAI	Obtained	Work in Progress (Permission for removal of Teak wood trees is awaited)
8	Electric Poles Shifting	Tamil Nadu Electricity Board	Obtained	Work in Progress
9	Water Pipes Shifting	Tamil Nadu Water Supply and Drainage Board	Obtained	Work in Progress
10	Drawing Water from river/ reservoir	-	NA	-

2.1. Land Acquisition

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

Table 2.1-1: Details of proposed ROW as per Schedule-A				
	Design Chainage (Km)	Design Length (Km)	Width (m)	Remarks
(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		

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

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

Table 2.1-2: Status of Land Acquisition as per Site Condition				
Sl. No.	Description	Unit	Present Status	Remarks
A)	Total Length of the Project Highway	Km	47.835	
i)	Use of Existing Road Portion	Km	15.835	
ii)	Proposed Bypass / Realignment portion	Km	32.000	
B)	Hindered Length			
i)	LA Pending/Land under disputes	Km	6.030	
ii)	Existing Buildings	Km	2.480	
iii)	Pending for Disbursement of Payment	Km	4.735	
iv)	Electrical Lines	Km	3.610	
v)	Rural Water Supply lines	Km	10.580	
C)	Net Hindered Length (both Side)	Km	13.160	
D)	Total Project Length (both Side)	Km	47.835	
E)	% Hindered Length	%	27.511%	

There has been increase in the Hindered length due to Diversion not possible at RE Wall stretches as Land not yet made available. The details of land acquisition status and available hindrances are produced on a strip chart under section 04.

The status of compensation disbursed is as below: -

Table 2.1-3: Compensation disbursement for land					
Sr. No.	Name of the District	Total No. of Land cases	Amount paid (in Nos.)	Balance to be Paid (in Nos.)	Remarks
1	Thanjavur	1467	1074	393	
	Total in Nos.	1467	1074	393	
	Total in %		73.21%	26.79%	

Table 2.1-4 - Compensation disbursement for Structures					
Sr. No.	Name of the District	Total No. of structures	Amount paid (in Nos)	Balance to be Paid (in Nos)	Remarks
1	Thanjavur	813	670	143	
	Total in Nos	813	670	143	
	Total in %		82.41%	17.59%	

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

The 10.29 Km. length is still under non-workable length out of 13.16 km. non-workable length as per Settlement Agreement executed on dated 04.03.2021.

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


Table 2.1-5 - Details of Stretches Under Hindrance





Sr. No.	Chainage		Side	Hindrance Length as per settlement agreement (Km)	Reason	Non workable length as on 31.10.2021 (Km)
	From	To				
1	116.440	117.900	BHS	1.460	Removal of structures	1.460
2	119.600	120.720	BHS	1.120	Removal of structures	1.120
3	125.580	126.536	BHS	0.956	Removal of structures	0.956
4	126.536	127.700	BHS	1.164	Removal of structures	1.164
5	128.300	129.100	BHS	0.800	Removal of structures	0.800
6	129.970	130.700	BHS	0.730	Removal of structures	0.730
7	133.580	134.800	BHS	1.220	Removal of structures	1.220
8	138.300	139.750	BHS	1.450	Removal of structures	1.450
9	146.550	147.000	BHS	0.450	PWD Canal for a length of 700m is to be shifted for which NOC to be granted by PWD/WRD. The proposal for the same has been recommended by the Chief Engineer, WRD/PWD, Trichy to the Engineer-in-Chief, WRD, Chennai on 03.11.2020.	0.450
10	147.600	148.320	BHS	0.720		0.720
11	150.530	150.900	BHS	0.370	Issue Cleared.	
12	152.600	153.100	BHS	0.500		
13	154.000	156.000	BHS	2.000	Issue Cleared.	
14	161.000	161.220	BHS	0.220	Involved in Court case, which was disposed in favour of NHAI on 03.11.2020. Award to be passed by CALA, SDRO (LA), NH, Tiruvarur.	0.220
Total Length				13.160		10.290







Hindrance List in the Project

Details of Stretches Under Hindrance with Photographs





S.No	CHAINAGE		Effectd Length	SIDE	Name of the Village	Type of Hindrances	Total No of Structures	Name of the Owner	Survey No	Payment Status	Type of Issue	Photos	Remarks
	FROM	TO											
1	116+440	116+475	35	LHS	Manambadi	HUT - 3	3	CHINNAPELLAI, DHARMARAJ,SAROJA, ELANGO VAN	43/9B (Saroja), 43/10B (D Rail	Paid	VERIFICATION IN PROCESS		Need Police Force
2	116+440	116+450	10	RHS	Manambadi			KARTHIK, KUNJAMAL	58/7B 8B	Not Paid	COURT CASE		
3	116+490	116+510	20	LHS	Manambadi	HUT-4 GI SHEET-1	2	CHINNAPONNU	48	Paid			
4	116+510	116+515	5	LHS	Manambadi	HUT SHOP ,GI SHEET HOUSE	2	MURUGAN,PALANIAMMAL	48/24	Paid	GOVT.P		
5	116+515	116+525	10	LHS	Manambadi	RCC, HUT, GI SHEET	3	NEHRU, KAYALVILZHI	48	Paid	GOVT.P		
6	116+520	116+540	20	RHS	Manambadi	HUT	3	SETTU SONS- 1)Ulaganathan, 20 Venkatesan 3) Stettu 4) Ramalingam	57/7A	Not Paid	JOINT PATTI PROBLEM		Ownership rights problem
7	116+525	116+540	15	LHS	Manambadi	RCC, GI SHEET	2	VALRMATHI SELVAM	48	Paid	GOVT.P		
8	116+540	116+560	20	LHS	Manambadi	GI SHED, RCC HOUSE	2	MALLIGA	48/4	Paid	GOVT.P		
9	116+570	116+575	5	LHS	Manambadi	GI SHED	1	PITCHA PILLAI	48	Paid	GOVT.P		Court Case
10	116+580	116+590	10	LHS	Manambadi	RCC HOUSE	1	VALARMATHI ,THIYAGARAJAN	48	Paid	GOVT.P		
11	116+590	116+595	5	LHS	Manambadi	HUT , WIRE FENCING	2	ARUMUGAM, SARASU	48/2A2	Paid	GOVT.P		
12	116+645	116+655	10	LHS	Manambadi	HUT & GI SHEET	2	CHELLAMMAL, PONNAMMAL, SATHYAMOORTHY	49/11A,49/1 1B	Not Paid	JOINT PATTI PROBLEM & DOCUMENT PROBLEM		Court case
13	116+660	116+680	20	LHS	Manambadi	LAND & FLOORING TEMPLE	2	UTHAMAN	49/9	Not Paid	DOCUMENT PROBLEM & TO BE SUB DIVIDED		
14	116+682	116+690	8	LHS	Manambadi	GI SHEET	1	CHANRAKALA, KAVIARASU	49/7A2B	Not Paid	DOCUMENT PROBLEM & TO BE SUB DIVIDED		
15	116+710	116+720	10	LHS	Manambadi	RCC GREEN HOUSE	1	SOORAN SELVAM		Not Paid			
16	116+720	116+725	5	LHS	Manambadi	TILE HOUSE	1	SELVADURAI	127/13,14,1 5,16,17, 49/7A1	Not Paid	PARTIALLY PAID		Land Only Pending
17	116+725	116+735	10	LHS	Manambadi	RCC G+1	1	MURUGESAN S/O GUNNDU	49/112	Paid	PAID UNDER NOTICE PERIOD		Need Police Support for Dismantling
18	116+735	116+740	5	LHS	Manambadi	RCC G+1	1	MINUKACHI	49/1H2	Paid	PAID UNDER NOTICE PERIOD		Need Police Support for Dismantling
19	116+750	116+760	10	LHS	Manambadi	RCC PARTIALLY CONSTRUCYION	1	L.GANASAN	49/1G	Paid	PAID, REVALUATION APPLIED		Need Police Support for Dismantling
20	116+760	116+770	10	LHS	Manambadi	TILED & RCC HOUSE	2	MUTHAMMAL	49/1F	Paid	PAID UNDER NOTICE PERIOD		Need Police Support for Dismantling
21	116+770	116+785	15	LHS	Manambadi	GI SHED, RCC HOUSE	2	BALAKRISHNAN	49/1D2B,49/ 1E2	Paid	PAID UNDER NOTICE PERIOD		Need Police Support for Dismantling
22	116+785	116+805	20	LHS	Manambadi	HUT & TILED HOUSE	2	GOVINDASAMY, SAMIKANNU, CHANDRAN, SEIGAMANI	49/1D2B	Paid	UNPAID		Joint patta Problem
23	116+785	116+795	10	RHS	Manambadi	HUT	1	THANGAMANI, DEVI	53/10	Paid	GOVT.P		
24	116+795	116+810	15	RHS	Manambadi	HUT	1	KANNAIYAN	53/10	Paid	GOVT.P		Pending with Tasildhar
25	116+805	116+825	20	LHS	Manambadi	GI SHED	1	PANNERSSELVAM, SAKTHI	49/1C2	Paid	PAID UNDER NOTICE PERIOD		Need Police Support for Dismantling
26	116+810	116+815	5	RHS	Manambadi	HUT	1	MARIMUTHU	53/10	Paid	GOVT.P UNPAID		
27	116+810	116+815	5	RHS	Manambadi	RCC	1			Paid	PATTI UNPAID		
28	116+815	116+820	5	RHS	Manambadi	HUT	1	BABY	53/10	Paid	GOVT.P UNPAID		
29	116+815	116+820	5	RHS	Manambadi	RCC	1			Paid	PATTI UNPAID		
30	116+825	116+850	25	LHS	Manambadi	2NO.S STR.	2	CHINNATHAMBI, CHINNADURAI	49/11	Not Paid	UNPAID & RECENTLY SURVEY		Need Documents
31	116+860	116+880	20	LHS	Manambadi	PRIMARY SCHOOL, MAHAMARIYAMMAN TEMPLE	2	RATHNAM(NATTAMAI)	129/B2	Paid	GOVT.P		BDO FUND TRANSFER TO PANCHAYET
32	116+875	116+885	10	RHS	Manambadi	SMALL CHURUCH WITH GRILL GATE	1	THOMAS ALWA EDISON	127/19	Not Paid	2ND PAYMENT UNPAID		
33	116+880	116+890	10	LHS	Manambadi	HUT-2	2	MURUGAN , KAMARAJ	129/1E2,129/ /2A2	Paid	PAID UNDER NOTICE PERIOD		Need Police Support for Dismantling
34	116+885	116+895	10	RHS	Manambadi	GI SHEET	1	DEIVASAGAYAM, LOUIS	127/15A	Paid	2ND PAYMENT UNPAID		Court Case
35	116+890	116+900	10	LHS	Manambadi	LAND ONLY	1	L.GANASAN	129/6	Paid	PAID UNDER NOTICE PERIOD		Need Police Support for Dismantling






S.No	CHAINAGE		Effected Length	SIDE	Name of the Village	Type of Hindrances	Total No of Structures	Name of the Owner	Survey No	Payment Status	Type of Issue	Photos	Remarks
	FROM	TO											
36	116+895	116+905	10	RHS	Manambadi	GI SHEET	1	JOSHPIN ANTHONIAMMAL, SEKAR	127/11A	Not Paid	2ND PAYMENT UNPAID		Court Case
37	116+900	116+910	10	LHS	Manambadi	HUT, RCC, TILE	3			Not Paid	2ND PAYMENT UNPAID		Court Case
38	116+905	116+915	10	RHS	Manambadi	GI SHEET	1	JOSHPIN ANTHONIAMMAL, SEKAR	127/13	Not Paid	2ND PAYMENT UNPAID		Court Case
39	116+910	116+920	10	LHS	Manambadi	RCC	1	PITCHA PILLAI	130/1	Not Paid	2ND PAYMENT UNPAID		Proposal Processing
40	116+920	116+925	5	LHS	Manambadi	GI SHEET	1	BASKAR, SEKAR DEEPA, KANAGA KALIYAPERUMAL	130/1A, 130/1B	Not Paid	2ND PAYMENT UNPAID		Proposal Processing
42	116+925	116+940	15	LHS	Manambadi	RCC	1	YESUDOSS	130/1A1, 130/1B1	Paid	2ND PAYMENT UNPAID		Proposal sent to DRO
43	116+935	116+940	5	RHS	Manambadi	HUT	1	RAJAKUMAR		Not Paid	UNKNOWN STATUS		Proposal sent to DRO
44	116+955	116+960	5	LHS	Manambadi	RCC	1	THANGARAJU	130/1	Not Paid	2ND PAYMENT UNPAID		STATEMENT TO LA
45	116+955	116+965	10	RHS	Manambadi	RCC	1	BHARATHI W/O TAMILSELVAN	53/11A1, 27/9B2A	Paid	PAID UNDER NOTICE PERIOD		Need Police Support for Dismantling
46	117+005	117+010	5	LHS	Manambadi	TNPC TEMPORARY GODOWN	1	BALASUBRAMANIAN	121/18	Not Paid	UNKNOWN STATUS		Poramboke Land
47	117+010	117+020	10	LHS	Manambadi	HUT	1	SUSAIAMMAL	121/13	Paid	DOCUMENT PROBLEM		IN TAHSILDAR TABLE
48	117+020	117+025	5	LHS	Manambadi	RCC HOUSE	1	CHINNATHAMBI	121/12B	Not Paid	2ND PAYMENT UNPAID		CHITTA PENDING
49	117+020	117+080	60	RHS	Manambadi	FENCING WITH AC SHEET, MARRIAGE HALL WITH G+1 AC SHEET, G+1 TILE CHRUCH	3		127/10D2A, 127/10C1	Paid	DOCUMENT PENDING		Dismantling In Progress
50	117+025	117+030	5	LHS	Manambadi	HUT	1	RAJAPPAN	121/12A2	Not Paid	2ND PAYMENT UNPAID		
51	117+035	117+045	10	LHS	Manambadi	TILED HOUSE	1	GNANAPRAKASAM	121/10	Not Paid	DOCUMENT PROBLEM		Court Case
52	117+060	117+070	10	LHS	Manambadi	RCC	1	VASUDEVAN	121/7A2	Paid	REVALUTION APPLIED UNDER NOTICE PERIOD		
53	117+070	117+095	25	LHS	Manambadi	RCC	1	VASUDEVAN , VAIRAM	121/6A2	Paid	PAID UNDER NOTICE PERIOD /NO OBJECTION		Estimate Problem (DE Visit)
54	117+110	117+125	15	RHS	Manambadi	TILE,RCC	2		123	Not Paid	JOINT PATTI PROBLEM		LA PROCESS
55	117+175	117+185	10	LHS	Manambadi	TILE TEA SHOP	1	ANARKALI	120/20	Not Paid	2ND PAYMENT UNPAID		2nd Valuation applied
56	117+185	117+195	10	RHS	Manambadi	LAND				Not Paid	UNPAID / DOCUMENT PROBLEM		PENDING WITH LA
117+200 TO 117+900-GSI-(117+600)													
57	117+190	117+205	15	LHS	Manambadi	HOUSE + 2 SHOPS	3			Not Paid	2ND PAYMENT UNPAID		
58	117+190	117+215	25	RHS	Manambadi	VAO OFFICE, RATION SHOP	2			Paid	UNPAID / GOVT. STR.		Payment yet to be received from BDO to the concerned. Informed BDO july first week will be dismantled
59	117+215	117+225	10	RHS	Manambadi	House-Shop	2	KAMARAJ S/O.RAMASAMY	117/15	Not Paid	UNPAID / DOCUMENT PROBLEM		Partially Dismantled
60	117+225	117+235	10	RHS	Manambadi	MANGLORE TILE HOUSE-4 NO.S , HUT	5	RAMASAMY	117/6H	Not Paid	2ND PAYMENT UNPAID / TEMPLE LAND ISSUE		
61	117+235	117+240	5	RHS	Manambadi	RCC	1	SETHURAMAN , RASU	117	Paid	PAID / TEMPLE LAND ISSUE		Only Structure Payment is done Temple EO visited for Land Payment
62	117+245	117+250	5	RHS	Manambadi	RCC , AC SHHET	2	PERUMAL, SIVALINGAM		Paid	PAID / TEMPLE LAND ISSUE		Only Structure Payment is done Temple EO visited for Land Payment
63	117+250	117+260	10	RHS	Manambadi	HUT & TILED HOUSE	2			Not Paid	2ND PAYMENT UNPAID		
64	117+260	117+265	5	RHS	Manambadi	HUT & TILED HOUSE	2	JOSEPH	117/6B	Not Paid	2ND PAYMENT UNPAID		
65	117+310	117+325	15	RHS	Manambadi	HUT	1	RAMAMORRTHY	116/2A	Paid	2ND PAYMENT UNPAID/ PASSBOOK PROBLEM		
66	117+330	117+340	10	RHS	Manambadi	House	1	JEBASTIN RAJ	116/7A	Paid			
67	117+345	117+355	10	RHS	Manambadi	RCC HOUSE	1	STANISDAS S/O.RATHNASAMY	116/4	Paid	2ND PAYMENT UNPAID		
68	117+360	117+375	15	RHS	Manambadi	ROOF & RCC HOUSE	1	JOSHAB S/O. AROKIYASAMY	116/3B	Paid	2ND PAYMENT UNPAID		
	Effected Length		808			Total	100						
						Paid	55						
						Not Paid	45						
CH 119+600 TO 120+420 -GSI													
69	120+000	120+010	10	LHS	Vilanthakandam	RCC	1	Venkatesh		Paid			EB Service line to be removed

S.No	CHAINAGE		Effected Length	SIDE	Name of the Village	Type of Hindrances	Total No of Structures	Name of the Owner	Survey No	Payment Status	Type of Issue	Photos	Remarks
	FROM	TO											
70	120+090	120+100	10	LHS	Vilanthakandam	HUT , 3 NOS RCC BUILDING , TILE HOUSE	3	KASINATHAN, RAMALINGAM, RANJITH KUMAR	134/1B , 134/1A	Not Paid	INTERNAL-COUR CASE - DOUMENT PROBLEM		DRO istricted LA unit to prepare the process to deposit amount in court
71	120+100	120+115	15	LHS	Vilanthakandam	G+1 RCC WITH SHOP	1	PONNIYIN SELVAN	134/1B2	Not Paid			Court Case-ownership rights problem
72	120+150	120+160	10	RHS	Vilanthakandam	WOODSHOP & HOUSE	1	PARAMESWARAN	29/4A1B	Paid			Bank Issue
73	120+175	120+195	20	LHS	Vilanthakandam	TILE, HUT, GI SHEET	3	MAHALINGAM, RAMACHANDRAN PAKKIRI	134/4	Paid			Partially dismantled

S.No	CHAINAGE		Effected Length	SIDE	Name of the Village	Type of Hindrances	Total No of Structures	Name of the Owner	Survey No	Payment Status	Type of Issue	Photos	Remarks
	FROM	TO											
74	120+200	120+220	20	RHS	Vilanthakandam	RCC WITH COMPOUND WALL	1	KALIYAMOORTHY	29/4A1 E	Not Paid			In Process
75	120+225	120+240	15	RHS	Vilanthakandam	RCC WITH COMPOUND WALL	1	PARVATHY-RAMALINGAM	29/4 B3	Paid	PATTA PAID REVALUATION APPLIED & GOVT. AREA UNPAID		Petition give to DC for enhancement
76	120+240	120+250	10	RHS	Vilanthakandam	RCC, MANGALORE TILE BUILDING	2	K RAJU	130/2	Paid			Need Police Support for Dismantling
77	120+250	120+260	10	RHS	Vilanthakandam	RCC BUILDING	1	NATARAJAN	28/4D1,28/4 D2	Paid	2ND PAYMENT		
78	120+265	120+275	10	LHS	Vilanthakandam	RCC	1	THACHINA MURTHY		Paid			Need police force
79	120+340	120+356	16	RHS	Vilanthakandam	RCC COMPLEX WITH HOUSE	1	SETHALADEVI NARASIMMAN (Complex)	26/3A	Paid			Dismantling inprogress
Effected Length		146				Total	16						
						Paid	11						
						Not Paid	5						





S.No	CHAINAGE		Effected Length	SIDE	Name of the Village	Type of Hindrances	Total No of Structures	Name of the Owner	Survey No	Payment Status	Type of Issue	Photos	Remarks
	FROM	TO											
120.420 TO 122+000- TYPE -B													
80	120+465	120+500	35	RHS	Kovilacheri	3 HUT & RCC BUILDING-1 NOS	4	SUBRAMANIYAN PATT - Thangathammal	32/7A	Not Paid	PATTA COURT CASE		Court Statement required-DRO instructed LA unit to prepare the process to deposit amount in cour
81	120+450	120+490	40	LHS	Kovilacheri	PETROL BUNK	1	EZHILSELVAN		Paid			Need EB Pole Connection required before dlsmantling
82	120+515	120+520	5	LHS	Kovilacheri	HUT HOTEL -1 NOS & HUT- 1 NOS	2	THANGAVEL CHANDRAKASI	48/1B	Not Paid	Documet Issue -COURT CASE		DRO instructed LA unit to prepare the process to deposit amount in cour
83	120+560	120+600	40	LHS	Kovilacheri	1 SHEET, 2 MANGALORE TILE , 1- RCC BUILDING	2	KULANCHIAPPAN SUSILA	48/3A2	Paid	JOINT PATTA PROBLEM		On Notice period
84	120+685	120+695	10	LHS	Kovilacheri	RCC BUILDING	1	SANTHOSH KUMAR	48/7	Not Paid			Processing WITH LA Tasiildhar
85	120+685	120+710	25	LHS	Kovilacheri	AC SHEET WITH WELDING SHOP	1	SAGUR MAN BOY	48/7A	Not Paid			Processing WITH LA
86	121+560	121+570	10	LHS	Kovilacheri	FENCING WITH EMPTY LAND	1	VIJAYA	159/3A	Not Paid			Processing WITH LA







S.No	CHAINAGE		Effected Length	SIDE	Name of the Village	Type of Hindrances	Total No of Structures	Name of the Owner	Survey No	Payment Status	Type of Issue	Photos	Remarks
	FROM	TO											
87	121+590	121+600	10	LHS	Kovilacheri	HUT	1	PADMANABAN		Paid			Need Police Support for Dismantling (Partially Dismantled)
88	121+615	121+655	40	LHS	Kovilacheri	DHROUPATHIAMMAN TEMPLE	1	MANOHARAN		Not Paid	Paid to CALA - Committee not formed by the concerns		Sudhai Estimate Pending-DRO instructed LA unit to prepare the process to deposit amount in court
		Effected Length	215										
							Total	14					
							Paid	4					
							Not Paid	10					
122+000 TO 125+300- TYPE -A3													
89	122+080	122+100	20	RHS	Bagavathapuram	BIG BANIYAN TREE WITH VANAKALIAMMAN TEMPLE	1	MANOHARAN		Not Paid			
125.300 TO 125.700- TYPE -B													
90	125+400	125+420	20	LHS	Koranattukurupur-I	HUT, RCC, HUT, RCC	4	KADALMANI RAMU, SAMIAYYA PITHCHAIAMMAL, MAHALINGAM	136/2B2, 159/1A1B, 159/1R1B, 159/1R2B	Not Paid		  	Sundareswara swami devastahanam Pending with HR&CE-Process at LA
91						HUT	1	SHANMUGAM		Paid			

S.No	CHAINAGE		Effected Length	SIDE	Name of the Village	Type of Hindrances	Total No of Structures	Name of the Owner	Survey No	Payment Status	Type of Issue	Photos	Remarks	
	FROM	TO												
92	125+530	125+580	50	LHS	Koranattukarupur-I	TILE HOUSE=2NOS&HUT=2 NOS	4	RAJAMANIKKAM	452/48, 50	Paid			Free land Processing with Tasildhar(Mr.balasubramaniam) kumbakonam	
93						TILE HOUSE=1NO & HUT= 1 NO	2	SAMY AYYA		Paid				
94						HUT= 1 NO	1	RAJASEKAR P.SEKAR S/o PERIYASAMY		Paid				
95						HUT= 1 NO	1	SEKAR PERIYASAMY		Paid				
96						TILE HOUSE=1 NO	1	MANIVANNAN, SEKAR		Paid				
97	125+580	125+585	5	LHS	Koranattukarupur-I	HUT= 1 NO	1	AMSU (KAARI)	161/12	Paid		Chqueue Issued		
98	125+590	125+610	20	LHS	Koranattukarupur-I	RCC BUILDING=1 NO	1	MOTTAYANDI	161/1B	NOT PAID	1 ST PAYMENT PAID & 2ND PAYMENT PENDING		DOCUMENT PROBLEM	
99	125+600	125+605	5	LHS	Koranattukarupur-I	HUT= 1 NO	1	THANGAYAN		NOT PAID	LPS NOT DONE			
100	125+570	125+580	10	RHS	Koranattukarupur-I	RCC BUILDING=1NO	1	SHANGILI KARUPPAIYAN	164/4	PAID			Dismantling In Progress	
101	125+580	125+585	5	RHS	Koranattukarupur-I	TILE HOUSE=1NO	1	SAMYAPPAN	163	PAID			Need Police Support for Dismantling	

S.No	CHAINAGE		Effectd Length	SIDE	Name of the Village	Type of Hindrances	Total No of Structures	Name of the Owner	Survey No	Payment Status	Type of Issue	Photos	Remarks
	FROM	TO											
102					Koranattukarupur-I	TILE HOUSE=1NO	1	KALIYAMOORTHY & MOTTAYANDI	164	PAID	1 ST PAYMENT PAID & 2ND PAYMENT PENDING		Need Police Support for Dismantling
103	125+580	125+600	20	RHS	Koranattukarupur-I	TILE HOUSE=1NO	1	RAMA MIRUTHAM(VEERAMANI)		PAID	1 ST PAYMENT PAID & 2ND PAYMENT PENDING		Need Police Support for Dismantling
104					Koranattukarupur-I	HUT= 1 NO	1	RAMA MIRUTHAM(BAKKIYARAJ& UTHHARAPATHY)		PAID	PATTA NOT PAID		Need Police Support for Dismantling
105	125+670	125+680	10	RHS	Koranattukarupur-I	AMMAN TEMPLE	1			PAID	PAID TO CALA - EXCESS AMOUNT DISBURSED SO CALA INSTRUCTED BANK TO HOLD		Court Case for enhancement
CH125+700 TO 127+700 -GSI & VUP													
106	125+785	125+805	20	RHS	Koranattukarupur-I	RCC ROOF HOUSE	1	RAGUNATHAN,CHANDRA		PAID			Need Police Support for Dismantling.
107	125+840	125+850	10	RHS	Koranattukarupur-I	RCC ROOF HOUSE	1	MADAN		PAID			Need Police Support for Dismantling.Next week will be dismantled
108	125+860	125+870	10	RHS	Koranattukarupur-I	TILE ROOF HOUSE	1	PUGUAL MURUGAN		PAID	1 ST PAYMENT PAID & 2ND PAYMENT PENDING		Partially Dismantlled
109	126+790	126+800	10	RHS	Koranattukarupur-II	Temple =1	4			PAID			

S.No	CHAINAGE		Effected Length	SIDE	Name of the Village	Type of Hindrances	Total No of Structures	Name of the Owner	Survey No	Payment Status	Type of Issue	Photos	Remarks
	FROM	TO											
110	127+120	127+125	5	RHS	Koranattukarupur-II	Borewell	1	SALEEM		PAID			Waiting for free Curret Shifting approval
111	125+800	125+805	5	LHS	Koranattukarupur-I	HUT	1	SELVI		PAID			Need Police Support for Dismantling
112	125+950	125+960	10	LHS	Koranattukarupur-I	HUT 3 NOS	3	ALAGUMUTHU	174/12	NOT PAID			Account person died, legal heir certificate required
113	125+990	126+000	10	LHS	Koranattukarupur-I	TILE ROOF BUILDING	1	VAIRAM	174/9	NOT PAID			DRO istructed LA unit to prepare the process to deposit amount in court
114	127+620	127+665	45	LHS	Koranattukarupur-II	MADANAM INN HOTEL	1			Paid			Partially Dismantled
		Effected Length	270			Total	37						
						Paid	27						
						Not Paid	10						
127.700 TO 128.300- TYPE -B													
CH 128+300 TO 129+100-GSI													
115	128+990	129+000	10	LHS	Asoor	WATER SERVICE CENTRE	1			Paid	PATTA		Need Police Support for Dismantling
116	129+030	129+040	10	LHS	Asoor	DEVAR STATUE	1			Paid	PATTA		Processing in Collectorate
		Effected Length	20			Total	2						
						Paid	2						
						Not Paid	0						

S.No	CHAINAGE		Effected Length	SIDE	Name of the Village	Type of Hindrances	Total No of Structures	Name of the Owner	Survey No	Payment Status	Type of Issue	Photos	Remarks
	FROM	TO											
129+100 TO 129+970- TYPE-B													
CH 129+970 TO 130+700 -VUP-LOC													
117	130+220	130+230	10	RHS	MOOPA KOVIL	HUT	1	CHINNAYAN	.9/17	NOT -PAID	58000/ -PAID		DE visit for RE valuation completed,approval awaited
118	130+280	130+290	10	RHS	MOOPA KOVIL	HUT	1	KANNAYAN	.9/34	NOT -PAID	PATTA		LA visited for LPS
119	130+290	130+300	10	RHS	MOOPA KOVIL	HUT	1	MAHENDRAN-CHITRA	.9/4	NOT -PAID	LPS NOT DONE		LA visited for LPS
Effected Length			30			Total	3						
						Paid	0						
						Not Paid	3						
CH 131+050 TO 131+850 -VUP-LOC													
120	131+790	131+860	70	LHS	Baburajapuram	COMPOUND WALL & BUILDING -5 NOS	5	TAMILARASI, SELIATHURAI, SAMPATH, GOVINDRAJ, RANGARAJAN	-	NOT-PAID	PATTA		LPS NOT DONE Aditiional area required for Service road
Effected Length			70			Total	5						
						Paid	0						
						Not Paid	5						

S.No	CHAINAGE		Effected Length	SIDE	Name of the Village	Type of Hindrances	Total No of Structures	Name of the Owner	Survey No	Payment Status	Type of Issue	Photos	Remarks
	FROM	TO											
121	132+770	132+780	10	RHS	Valayapettai	TILE ROOF,HUT & BATH ROOM	2	PANNER SELVAM,GANDHI MATHI	115/3	NOT PAID			Kundrakudimadam processing.Informed to madam
122	132+570	132+590	20	LHS	Valayapettai	AC SHEET , WALL	1	SAKTHIVEL	148/3	NOT PAID			3D gazzate notification awaited.Processing
123	133+050	133+060	10	LHS	Valayapettai	BOREWELL	1			Paid	28		Cheque issued
124	133+130	133+150	20	LHS	Valayapettai	CAR SHED	1			Paid			Need Police Support for Dismantling
125	133+580	133+590	10	LHS	Valayapettai	HUT	1	KAMATCHI	185	NOT PAID	KALAM PORAMBOKU		Pending at PD office
CH 133.580 TO 134.800 -VUP-LOC													
126	133+585	133+645	60	LHS	Valayapettai	ANANDHA HOTEL	1		187/B,C	Not Paid	(SECOND PAYMENT PENDING)		Enhancement-DE visited
	Effected Length		270				Total	7					
							Paid	2					
							Not Paid	5					
CH138.500 TO 139.750 -TYPE-B													
128	138+500	138+540	40	LHS	Pateeswaram	RCC & Tile Roof	1	SHANMUGAM		Not Paid			COURT CASE
129	138+750	138+850	100	LHS	Thiruvalanzuli	Hut	1	RAJINI		Not Paid			
130	138+400	138+480	80	RHS	Pateeswaram		1	DHARMALINGAM	4/4A	Not Paid			
131	138+500	138+540	40	RHS	Pateeswaram		1	SHANMUGAM		Not Paid			
132	138+750	138+850	100	RHS	Thiruvalanzuli		1	RAJINI, Thakshina Murthy, Nagaraj		Not Paid			
133	139+439	139+450	11	LHS	Thiruvalanzuli	LOCAL TEMPLE , RCC GOVT BUILDING WITH TANK	1				Not Paid		
	Effected Length		371				Total	6					
							Paid	0					
							Not Paid	6					

2.2. Removal of Religious Structures

The following structures coming within the ROW are to be demolished

Sl. No.	Name of the District	Total No. of structures	Removed as on Date (in Nos.)	Balance (in Nos.)
1	Thanjavur	13	3	10

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

2.3. Shifting of Utilities and Electrical HT/LT Lines

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

Sl. No	Name of the District	Chainages			Total Number of Estimates	Remarks
		From	To	Length in Km		
1	Thanjavur	116+440	164+275	47.835	32	Work is in Progress

Sl. No	Name of the District	Chainages			Number of Estimates	Present Status	Remarks
		From	To	Length in Km			
1	Thanjavur	116+440	164+275	47.835	16	Work in Progress	

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

Sl. No.	Authority	Description	Unit	Total Length/ Nos.	Work done	Balance	Remarks
1	BDO & EE, TWAD	Water Supply Pipe Line (including DI and PVC lines)	Kms.	35.750	7.960	27.79	Work in Progress
2	BDO of Concern Union	Hand Pump/Pump Room with Bore well	Nos.	16	3	13	
3	BDO of Concern Union	Over Head Tank	Nos.	2	2	0	Completed
4	TNEB	Electrical Lines	Kms.	19.215	15.605	3.610	Work in Progress

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

2.4. Tree felling

Table 2.4-1: Status of Tree felling

Sl. No.	Name of the District	Chainages			Effectuated Length in Kms	Total No. of Trees	Felled/ Removed as on Date	Balance no. of Trees	Remarks
		From	To	Length in Km					
1	Thanjavur	116+440	164+275	47.835	15.310	1461	1448	13	Work in Progress
2	Thanjavur	116+440	164+275	47.835	-	508	508	0	Teak Wood trees
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	Design/ Drawings submitted	Design/ Drawings Approved
1	Pavement Design	Km	47.835	47.835	47.835
2	Plan & Profile	Km	47.835	47.835	47.835
3	Typical Cross Sections	Type	5	5	-
4	Major Intersections	No	20	9	1
5	Minor Intersections	No	22	2	-
6	Toll Plaza (a) Toll Plaza Layout, (b) Toll Building, (c) Toll Booth, (d) Toll Canopy, (e) Toll Tunnel,	No	05	05	05
7	Rest Area	No	01	-	
8	Bus Bay	No	05	05	05
9	Service Roads	No	27.10	26.97	26.97

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

Sr. No	Description	Unit	Total Scope as per Sch. B	Design/ Drawings Submitted	Design/ Drawings Approved
1	Major Bridges	No	06	04	04 (02 Nos of Major Bridges Proposed for Descoping)
2	Minor Bridges	No	56	56	54
3	Grade Separated Intersection	No	06	06	06
4	VUP/PUP	No	12	12	12
5	Box /Slab Culvert	No	103	103	103
6	ROB	No	01	01	Structural drawing approved

4.1. Physical Progress of Work

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

The Progress of the Major works carried out at the Site in the Month of October 2021 is as follows.

CUMMULATIVE STATEMENT**For Main Carriageway**

Sr. No.	Description	Total Length of Highway Excluding Toll Plaza (in. Km.)	Progress up to Previous Report (in Km)	Progress during this Report (In Km.)	Cumulative Progress Achieved up to this Report (In Km)	In Progress (In Km.)	Balance Length to be Completed	Cumulative % of Progress Achieved
1	Clearing and Grubbing							
	LHS	46.925	42.980	0.000	42.980	0.000	3.945	91.59%
	RHS	46.925	42.910	0.000	42.910	0.000	4.015	91.44%
2	Embankment							
	LHS	46.925	30.250	0.280	30.530	1.540	16.395	65.06%
	RHS	46.925	29.660	0.270	29.930	2.040	16.995	63.78%
3	Subgrade							
	LHS	46.925	27.195	0.000	27.195	3.335	19.730	57.95%
	RHS	46.925	26.325	0.000	26.325	3.605	20.600	56.10%
4	GSB/ Cement Treated Sub-Base							
	LHS	46.925	25.790	0.000	25.790	0.150	21.135	54.96%
	RHS	46.925	25.170	0.000	25.170	0.120	21.755	53.64%
5	Wet Mix Macadam							
	LHS	46.925	25.605	0.000	25.605	0	21.320	54.57%
	RHS	46.925	24.970	0.000	24.970	0	21.955	53.21%
6	Dense Bituminous Macadam							
	LHS	46.925	25.400	0.000	25.400	0	21.525	54.13%
	RHS	46.925	24.715	0.000	24.715	0	22.210	52.67%
7	Bituminous Concrete							
	LHS	46.925	24.180	0.000	24.180	0	22.745	51.53%
	RHS	46.925	23.560	0.000	23.560	0	23.365	50.21%

For Service Road

Sr. No.	Description	Total Length of Service Road (Km.)	Progress up to Previous Month (in Km)	Progress during this Month (In Km.)	Cumulative Progress Achieved up to this Month (In Km)	In Progress (In Km.)	Balance Length to be Completed	Cumulative % of Progress Achieved
1	Embankment	27.1	4.930	0	4.930	0.350	22.170	18.19%
2	Sub grade	27.1	4.930	0	4.930	0	22.170	18.19%
3	GSB/ Cement Treated Base	27.1	4.915	0	4.915	0	22.185	18.14%
4	Wet Mix Macadam	27.1	4.835	0	4.835	0	22.265	17.84%
5	Dense Bituminous Macadam	27.1	4.605	0.230	4.835	0	22.265	17.84%

6	Bituminous Concrete	27.1	1.960	0	1.960	0	25.140	7.23%
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For Structure Works

Sr. No.	Type of Structure	Total No. of Structures	No. of Structures				
			Completed up to previous Report	Completed during this Report	Completed up to this Month	In Progress	Balance
1	Culvert	103	77.00	0	77.00	13.00	13.00
2	Light Vehicular Underpass	2	2	0	2	0	0
3	Vehicular Underpass	10	8.00	0	8.00	2.00	0
4	Minor Bridges	56	42.00	0.5	42.50	6.50	7.00
5	Major Bridge	5	0	0	0	4	1
6	Flyover	6	4	0	4	2	0
7	ROB	1	0	0	0	1	0

Physical Progress of Project up to **October 2021** as per approved Schedule G:-

Table 4.1 : Physical Progress of Works

Item	Stage for Payment	Unit	Qty.	Weightage in % to Contract Price	Completed up to Oct '2021	% Physical Progress
Road works including culverts, minor bridges, underpasses, overpasses, approaches to ROB/RUB/ Major Bridges/ Structures (but excluding service roads)	A- Widening and strengthening of existing road					
	(1) Earthwork up to top of the sub-grade	Km.	28.70	4.26%	16.890	2.505%
	(2) Granular work (sub-base, base, shoulders)	Km.				
	(a) GSB/ Cement Treated Base	Km.	28.70	1.40%	16.070	0.785%
	(b) WMM/ Cement Treated Base	Km.	28.70	2.10%	15.860	1.160%
	(3) Shoulders	Km.	7.10	0.03%	6.56	0.028%
	(4) Bituminous work					
	(a) DBM	Km.	28.70	1.61%	15.820	0.886%
	(b) BC	Km.	28.70	1.48%	14.870	0.769%
	(5) Rigid Pavement					
	Concrete Work	Km.				
	(6) Widening and Repair of Culverts	Nos.	33	0.57%	26.45	0.458%
	(7) Widening and Repair of Minor Bridges	Nos.	3	0.38%	1.275	0.162%
	B- New realignment/bypass					
	(1) Earthwork up to top of the sub-grade	Km.	63.33	16.30%	36.630	9.430%
	(2) Granular work (sub-base, base, shoulders)	Km.				
	(a) GSB/ Cement Treated Base	Km.	62.13	3.39%	34.890	1.906%
(b) WMM/ Cement Treated Base	Km.	62.13	3.83%	34.715	2.139%	
(3) Shoulders	Km.	48.19	0.10%	30.140	0.063%	
(4) Bituminous work						

Road works including culverts, minor bridges, underpasses, overpasses, approaches to ROB/RUB/ Major Bridges/ Structures (but excluding service roads)	(a) DBM	Km.	62.13	3.48%	34.295	1.921%
	(b) BC	Km.	62.13	3.21%	32.870	1.699%
	(5) Rigid Pavement Concrete Work	Km				
	C- New culverts, minor bridges, underpasses, overpasses on existing road, realignments, bypasses:					
	(1) Culverts	Nos.	70	5.95%	50.35	4.276%
	(2) Minor bridges					
	(i) Foundation	Nos.	170	6.71%	93.00	3.672%
	(ii) Substructure	Nos.	270	3.50%	169.10	2.189%
	(iii) Superstructure (including crash barrier etc. complete)	Nos.	142	3.78%	69.40	1.846%
	(3) Cattle/Pedestrian underpasses					
	(i) Foundation	Nos.	4	0.15%	4.00	0.150%
	(ii) Substructure	Nos.	8	0.08%	8.00	0.084%
	(iii) Superstructure (including crash barrier etc. complete)	Nos.	4	0.06%	3.70	0.052%
	(4) Pedestrian overpasses					
	(i) Foundation	Nos.				
	(ii) Substructure	Nos.				
	(iii) Superstructure (including crash barrier etc. complete)	Nos.				
	(5) Grade separated structures					
	(a) Underpass (10 VUP)					
	(i) Foundation	Nos.	40	2.50%	36.00	2.249%
	(ii) Substructure	Nos.	40	0.91%	35.00	0.795%
	(iii) Superstructure (including crash barrier etc. complete)	Nos.	20	1.14%	13.60	0.772%
	(c) Vehicular Overpass (VOP)					
	(i) Foundation	Nos.				
	(ii) Substructure	Nos.				
	(iii) Superstructure (including crash barrier etc. complete)	Nos.				
	(c) Flyover					
	(i) Foundation	Nos.	24	2.25%	24.00	2.250%
	(ii) Substructure	Nos.	24	0.82%	24.00	0.818%
	(iii) Superstructure (including crash barrier etc. complete)	Nos.	12	1.02%	6.80	0.580%
	Major Bridge works and ROB/RUB					
	A- Widening and Repair of Minor Bridges					
(1) Foundations						
(a) Open Foundation	Nos.					
(b) Pile foundation/ well foundation	Nos.					
(2) Substructure	Nos.					
(3) Superstructure (including crash barrier etc. complete)	Nos.					
C- New Major Bridges						
(1) Foundations						
(a) Open Foundation	Nos.					
(b) Pile foundation/ well foundation	Nos.	76	2.17%	47.00	1.345%	

	(2) Substructure	Nos.	76	1.23%	27.00	0.438%
	(3) Superstructure (including crash barrier etc. complete)	Nos.	62	1.50%	6.80	0.164%
	D- New rail-road bridges					
	(a) ROB					
	(i) Foundation	Nos.	8	1.50%	8.00	1.500%
	(ii) Substructure	Nos.	8	0.80%	8.00	0.800%
	(iii) Superstructure (including crash barrier etc. complete)	Nos.	6	1.49%	1.70	0.421%
Structures (elevated sections, reinforced earth)	Structures (elevated sections, reinforced earth)					
	(1) Foundation	Nos.				
	(2) Substructure	Nos.				
	(3) Superstructure (including crash barrier etc. complete)	Nos.				
	(4) Reinforced earth Wall (includes Approaches of ROB, Underpasses, Overpasses, Flyover etc)	Sqm	179469	7.52%	61,735.94	2.586%
Other Works	Other Works					
	(i) Service roads/ Slip Roads	Km	27.1	3.86%	1.960	0.279%
	(ii) Toll Plaza	Nos.	1	1.38%		
	(iii) Road side drains	Km	12.08	1.64%	1.737	0.235%
	(iv) Road signs, markings, km stones, safety devices,					
	(a) Road signs, markings, km stones, ...	Km	95.67	2.02%	46.820	0.989%
	(b) Concrete Crash Barrier/ W-Beam Crash Barrier in Road work	Km				
	(i) Concrete Crash Barrier	Km	25.42	2.01%	2.764	0.219%
	(ii) W-Beam Crash Barrier	Km	32.75	0.70%		
	(v) Project facilities					
	(a) Bus Bays	No.	20	0.01%	8.00	0.002%
	(b) Truck Lay-byes	No.				
	(b) Rest areas	No.	2	0.22%		
	(vi) Repairs to bridges/structures	Nos.	4	0.01%		
	(vii) Road side plantation	Km	22.54	0.60%		
	(viii) Protection works					
	(a) Boulder pitching on slopes	Km	32.75	0.19%		
	(b) Toe/Retaining wall	Km				
	(x) Miscellaneous	Ls.	100%	0.150%	51%	0.076%
		Total			100.00%	

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

Cholopuram - Thanjavur Project

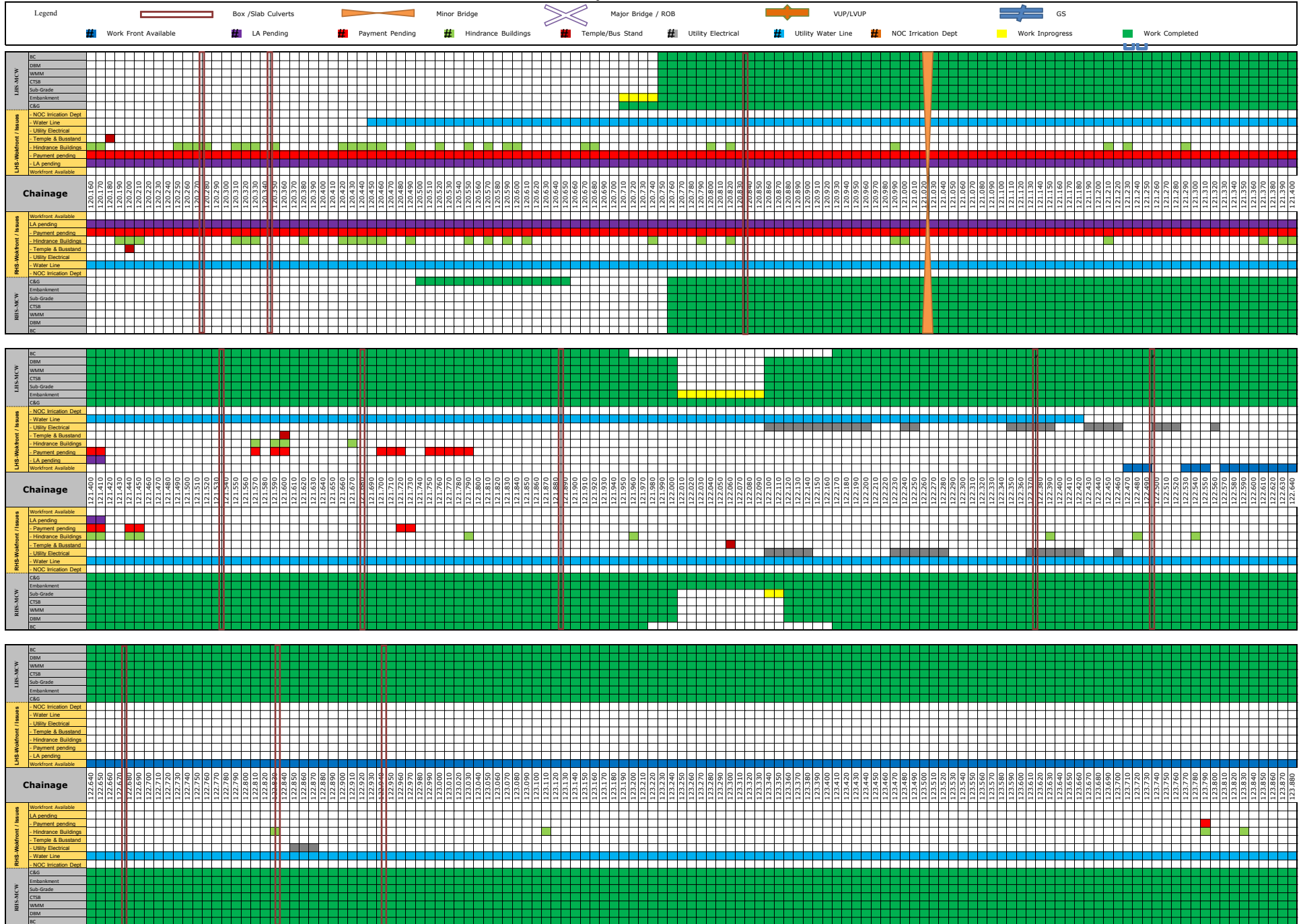
Strip Chart as on 31.10.2021



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

Cholopuram - Thanjavur Project

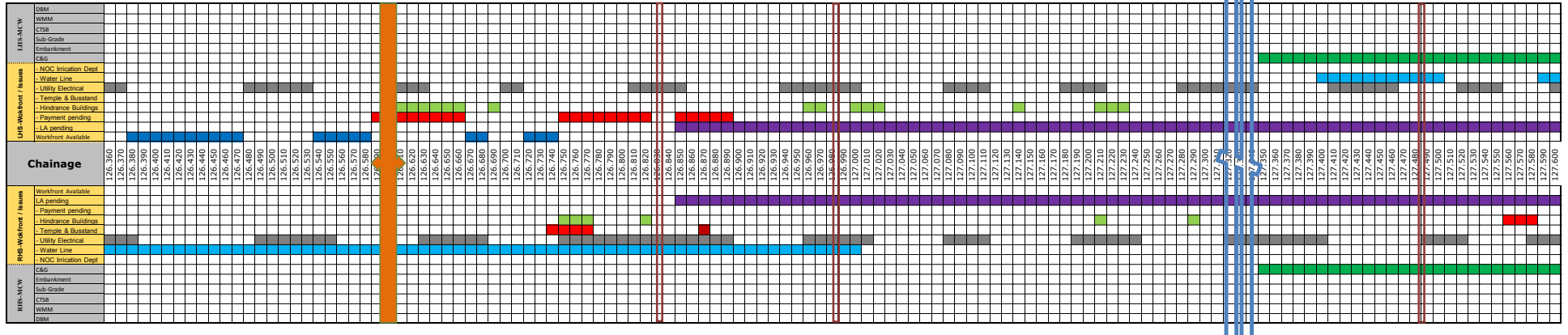
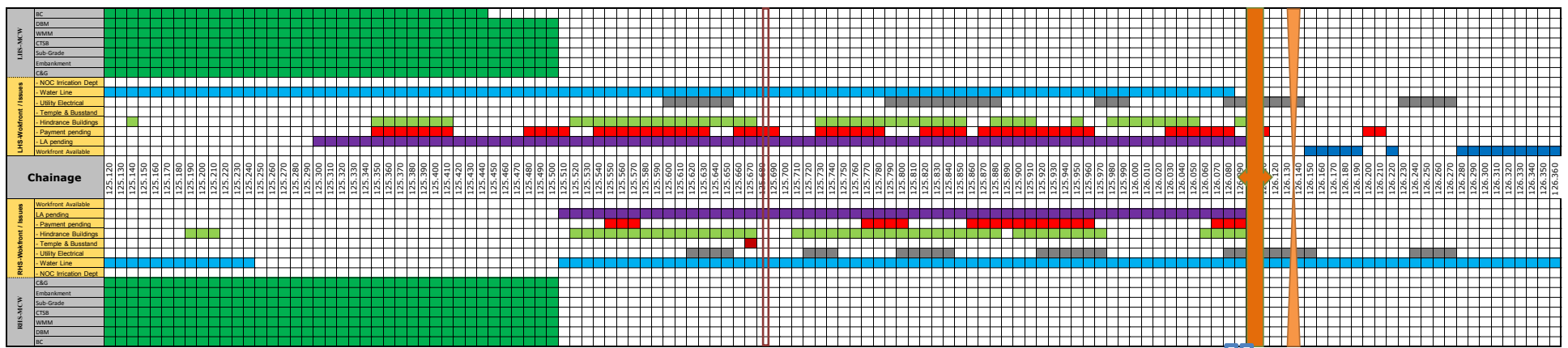
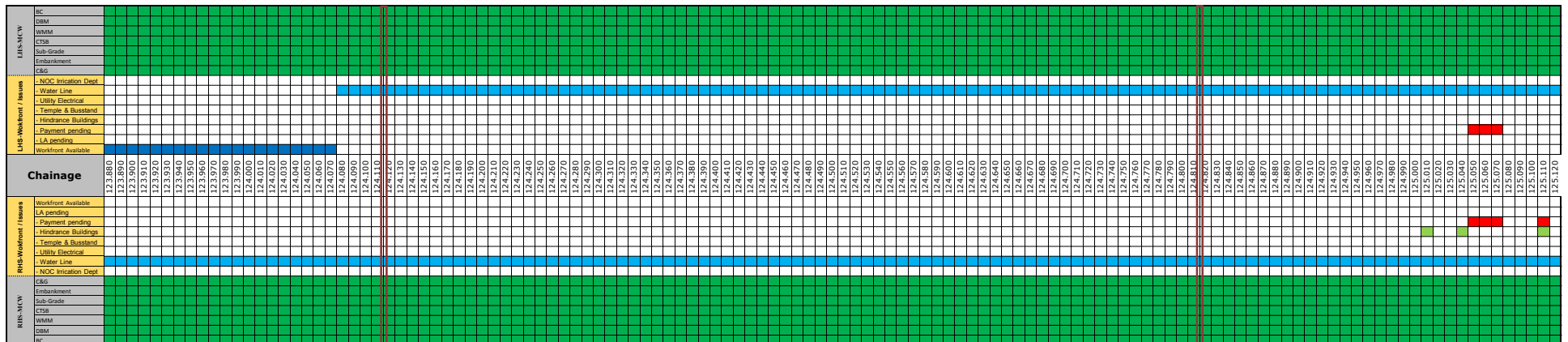
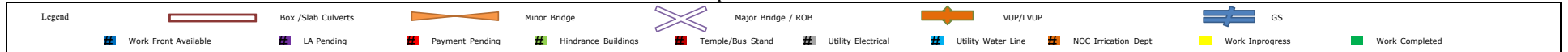
Strip Chart as on 31.10.2021



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

Cholapuram - Thanjavur Project

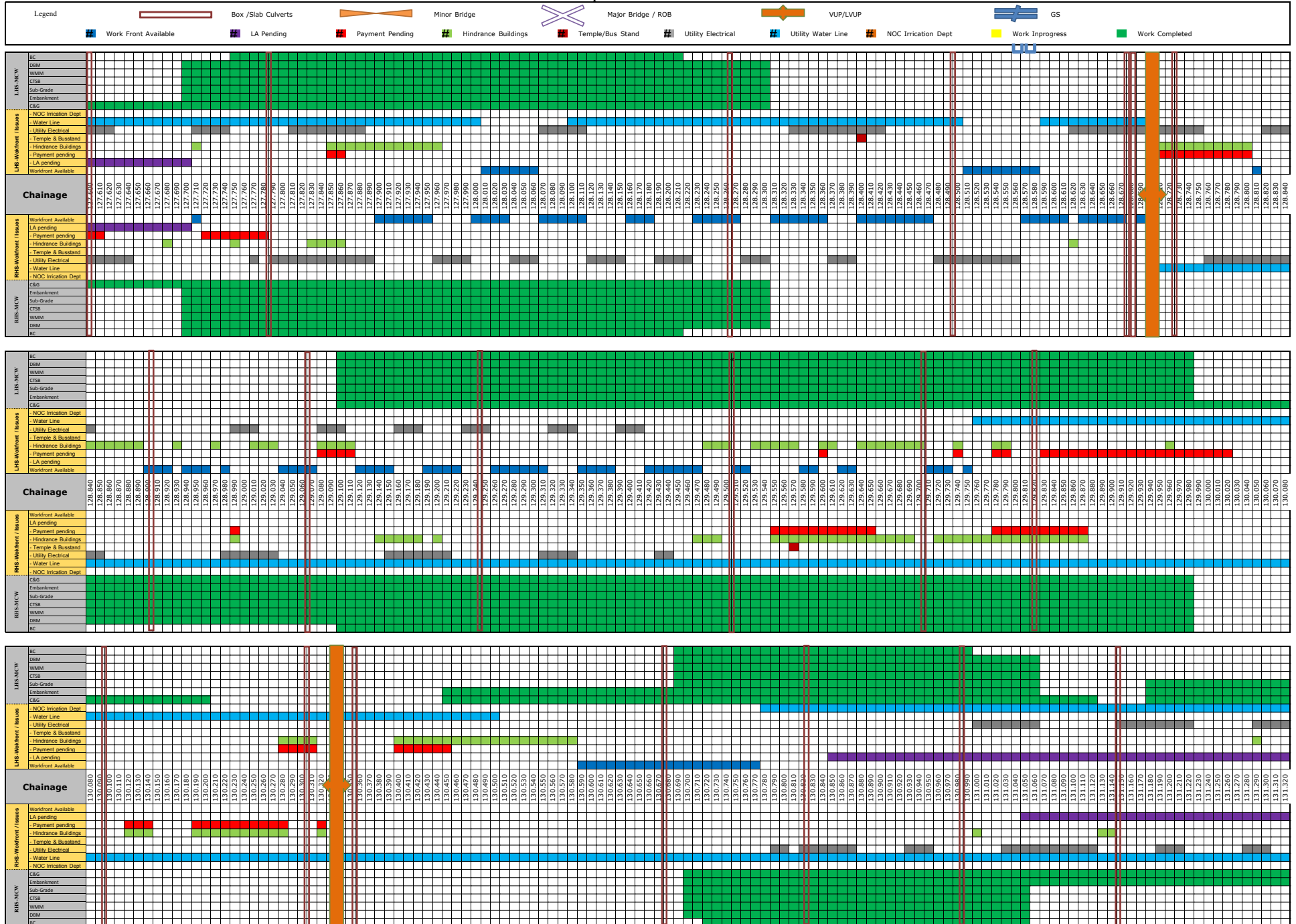
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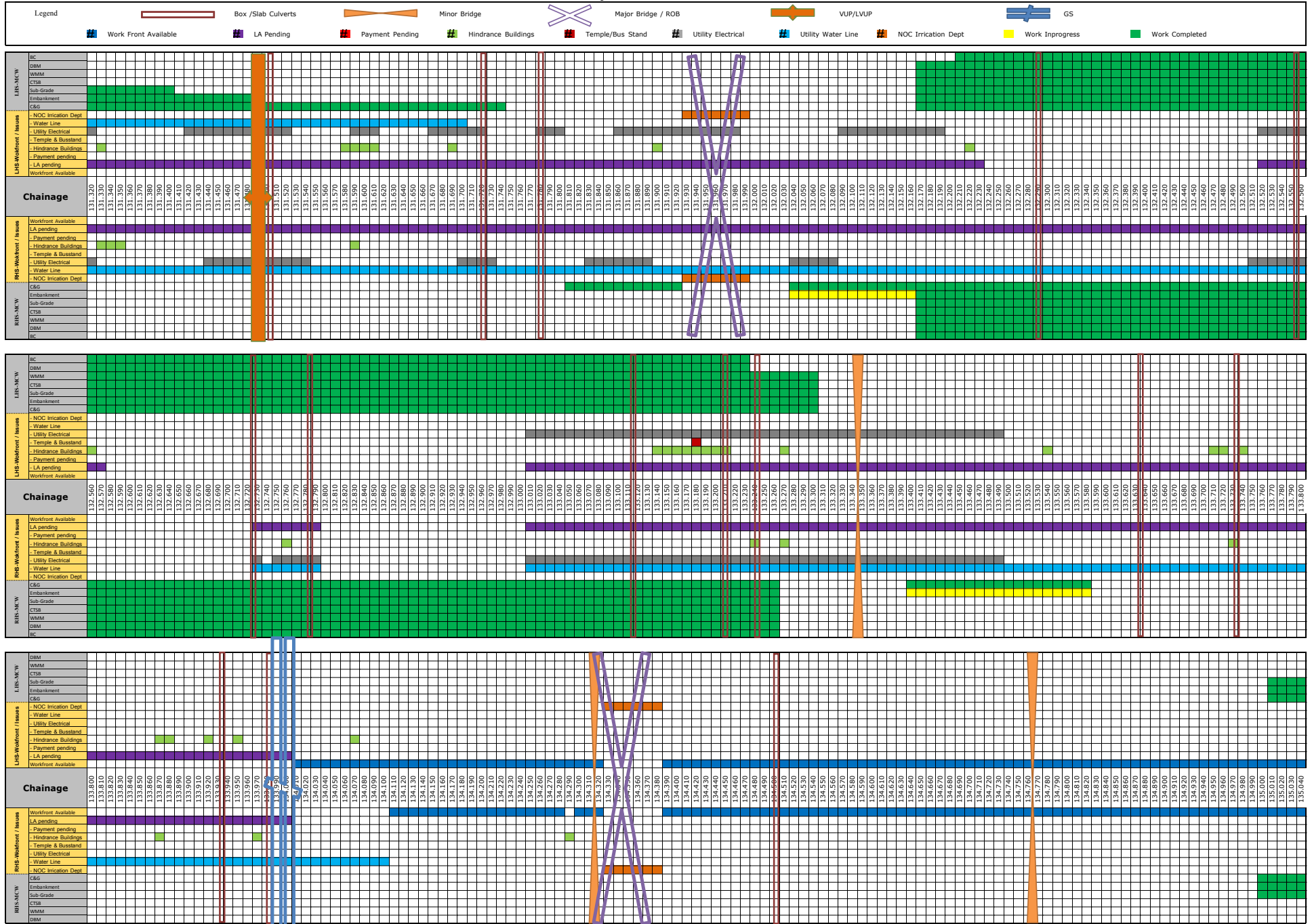
Cholopuram - Thanjavur Project

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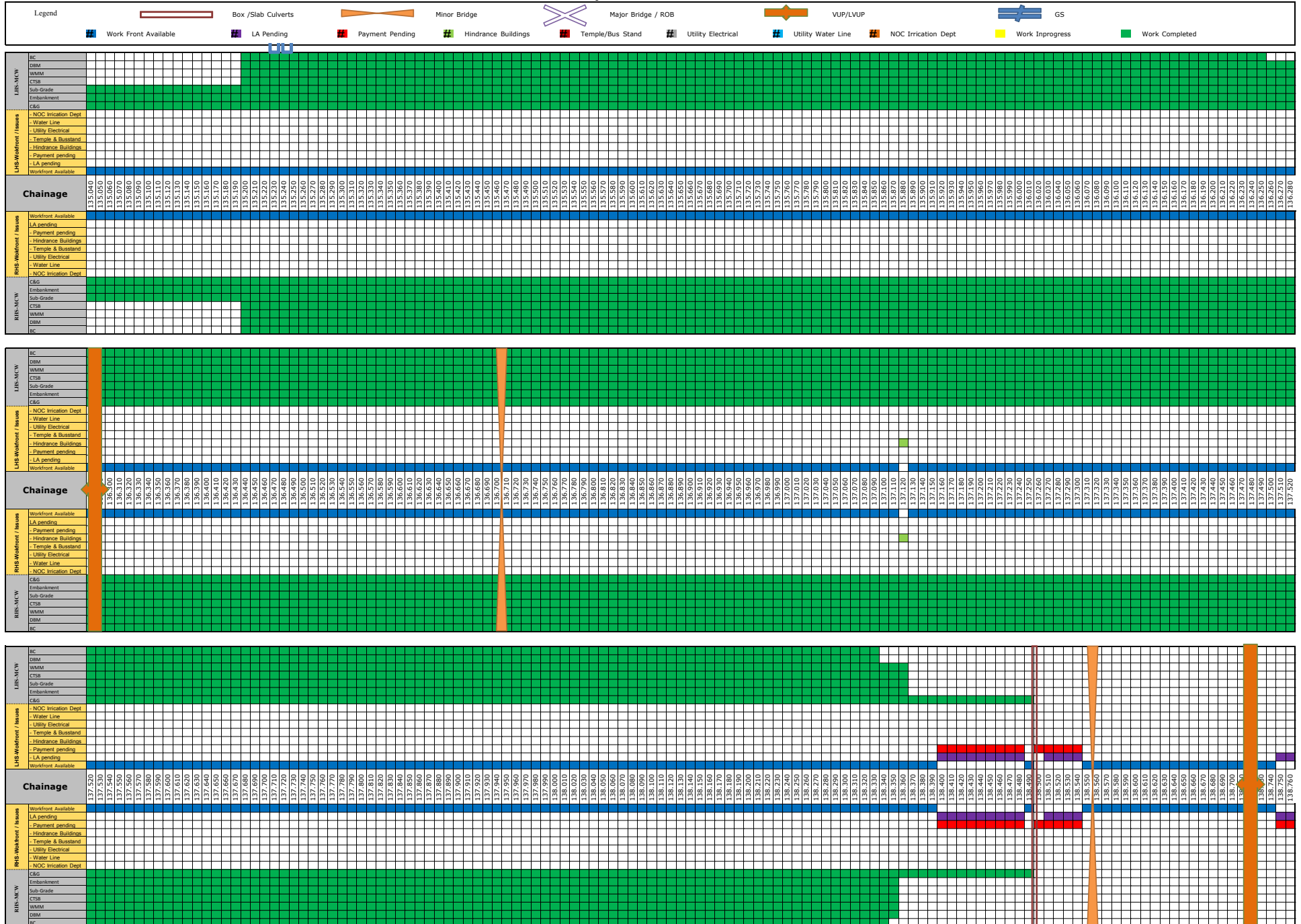
Four Laning of Cholopuram to Thanjavur from Km. 116.440 to Km. 164.275 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode
Cholopuram - Thanjavur Project

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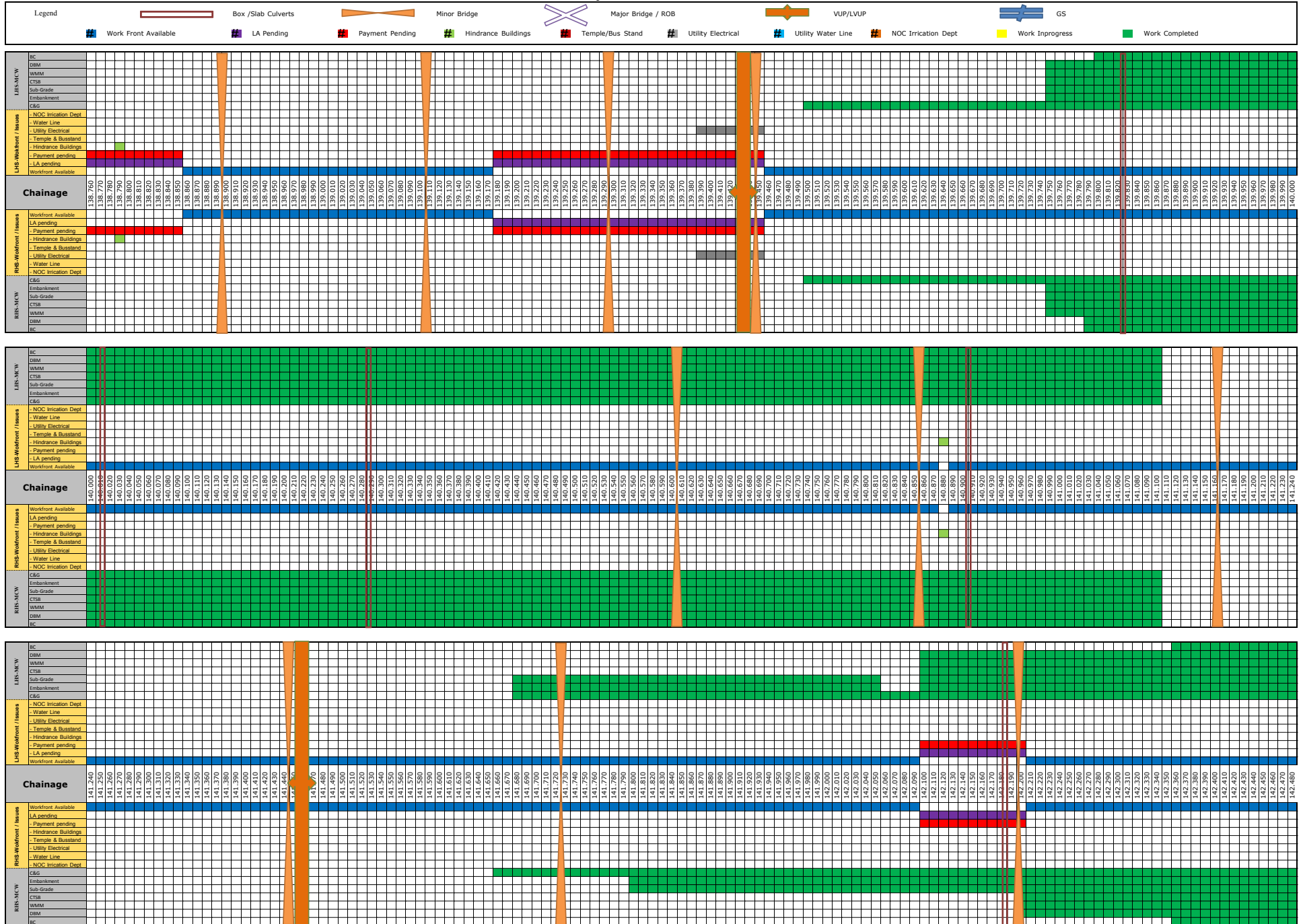
**Four Laning of Cholopuram to Thanjavur from Km. 116.440 to Km. 164.275 Section of NH45C in the state of Tamil Nadu Under NHDP Phase-IV on Hybrid Annuity Mode
Cholopuram - Thanjavur Project**

Strip Chart as on 31.10.2021



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

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

Cholopuram - Thanjavur Project

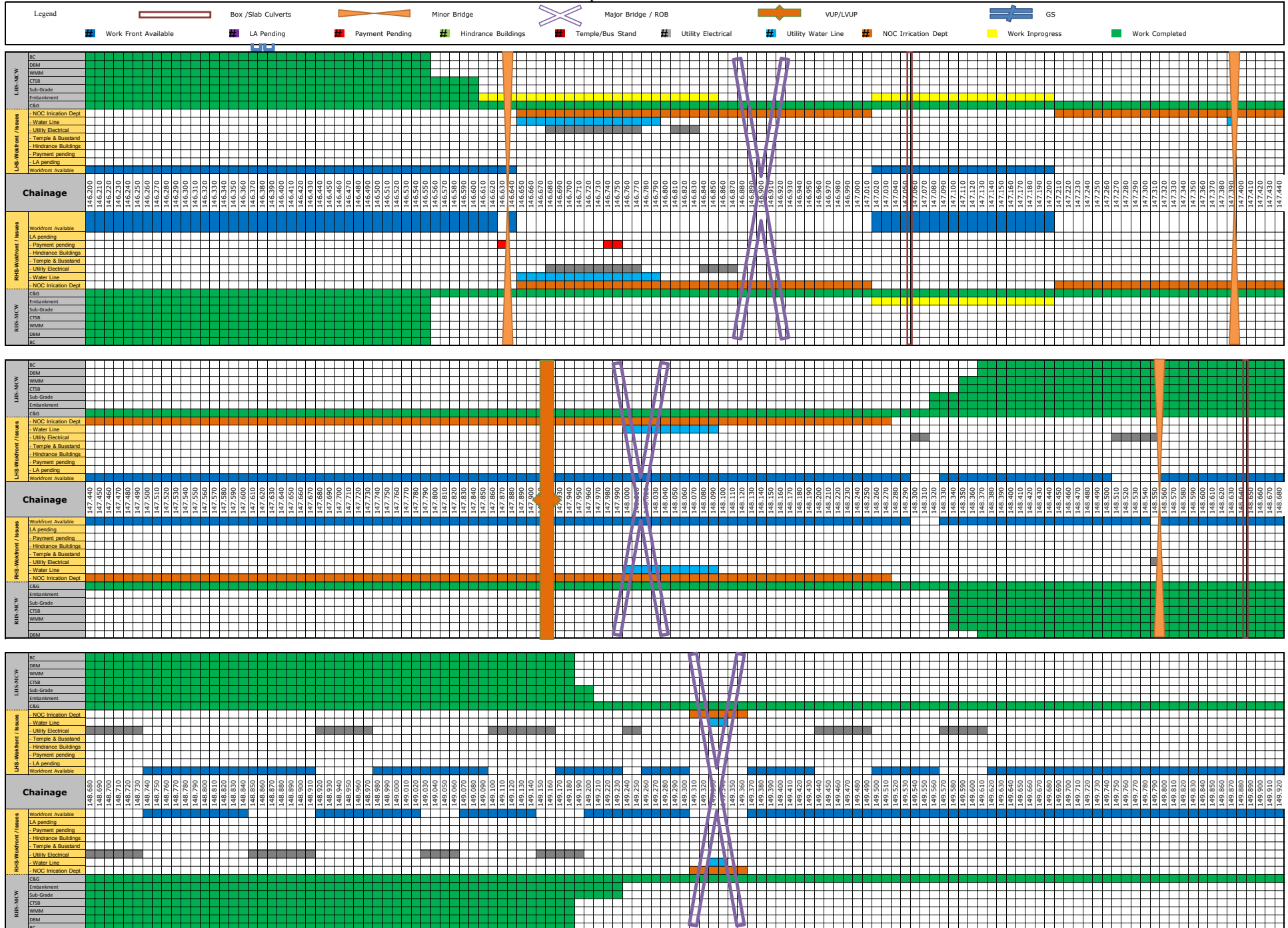
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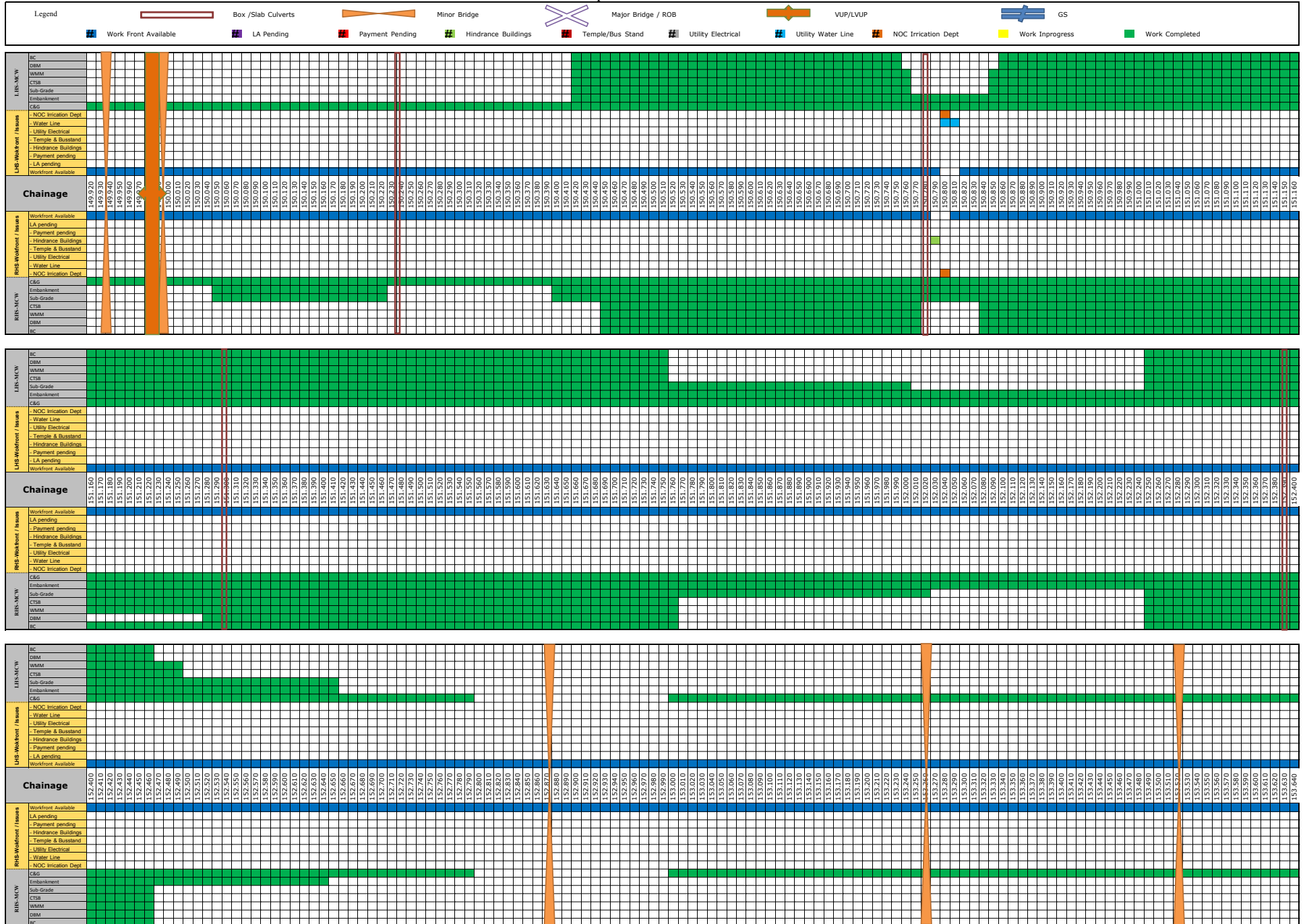
Cholopuram - Thanjavur Project

Strip Chart as on 31.10.2021



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

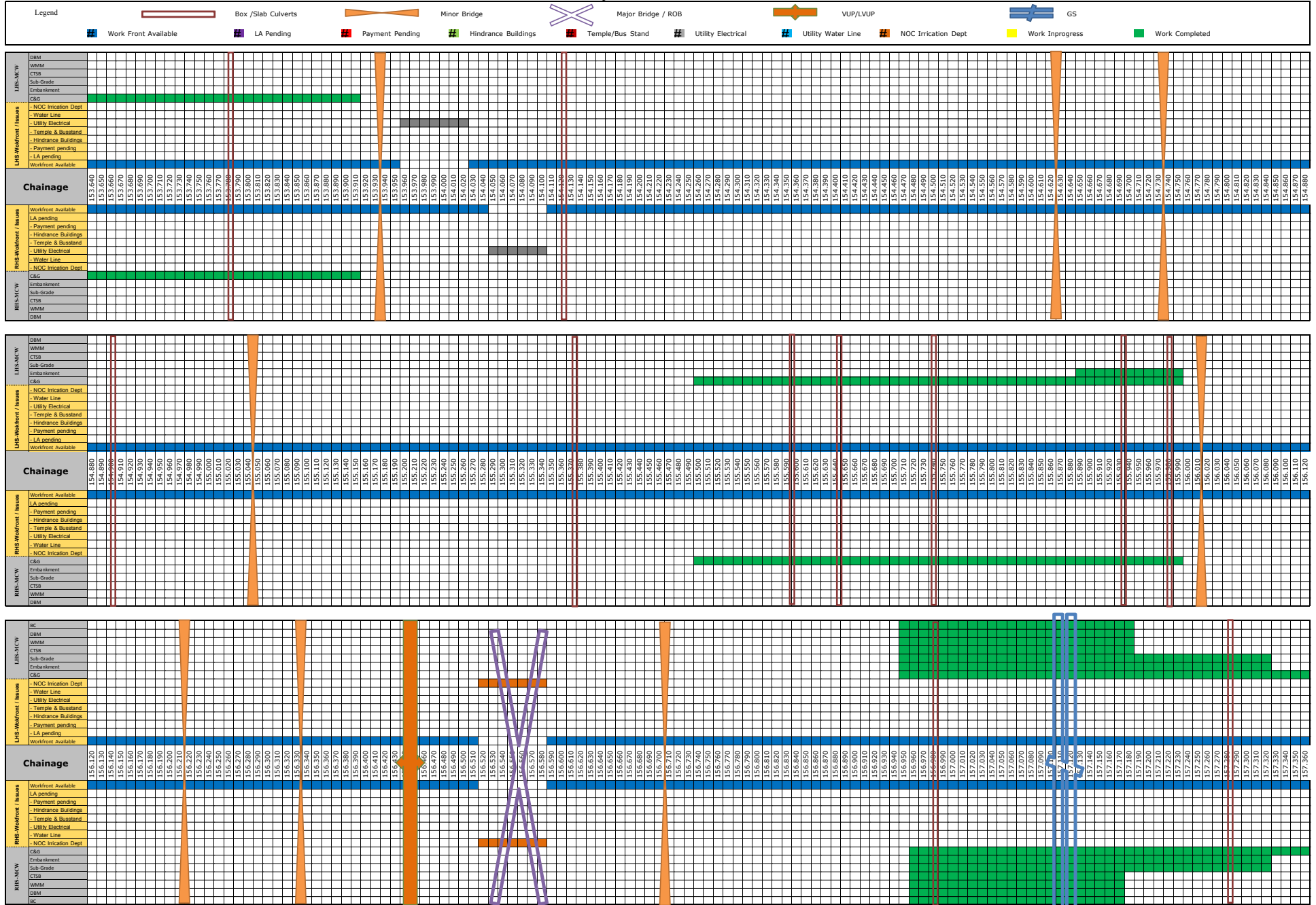
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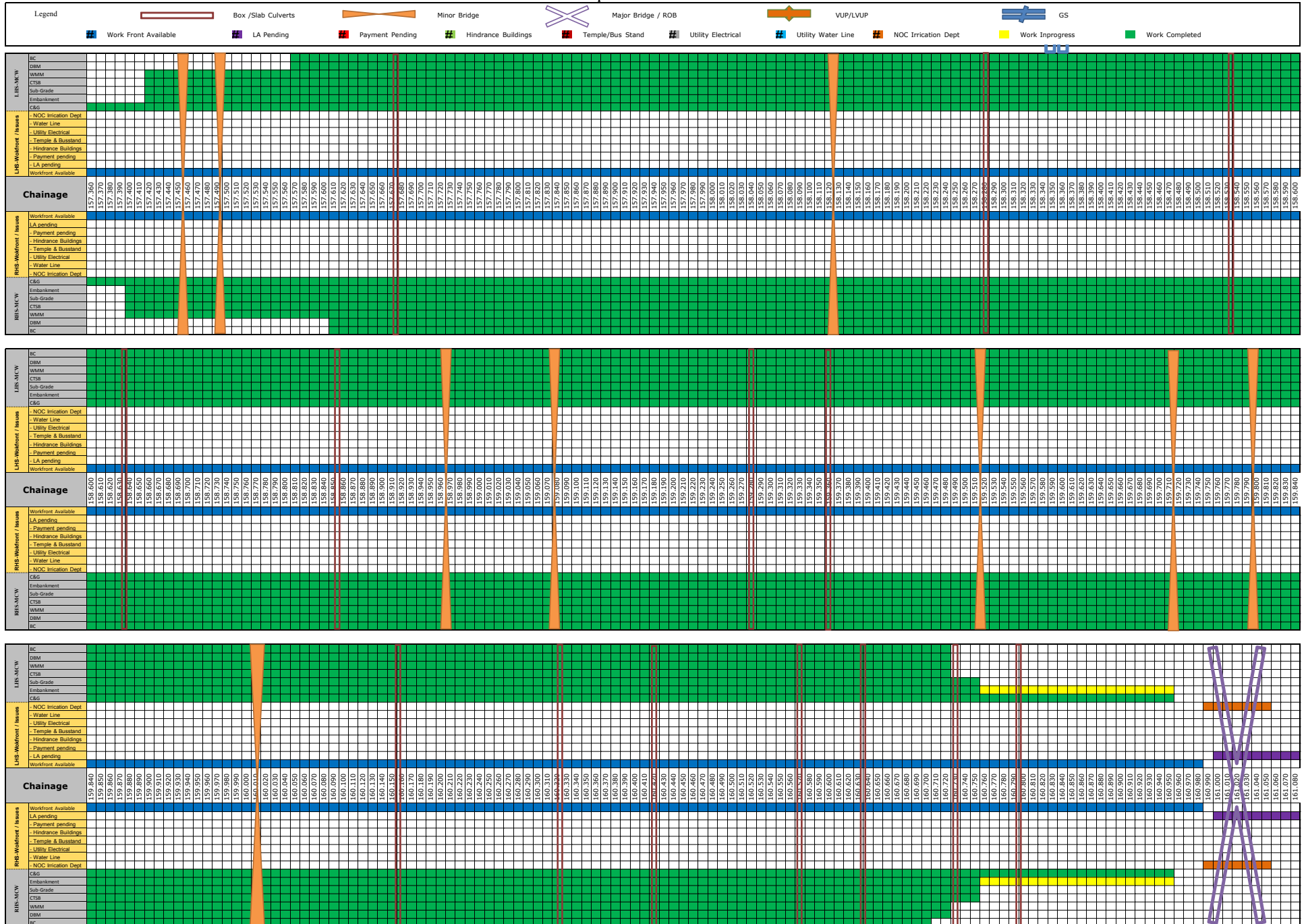
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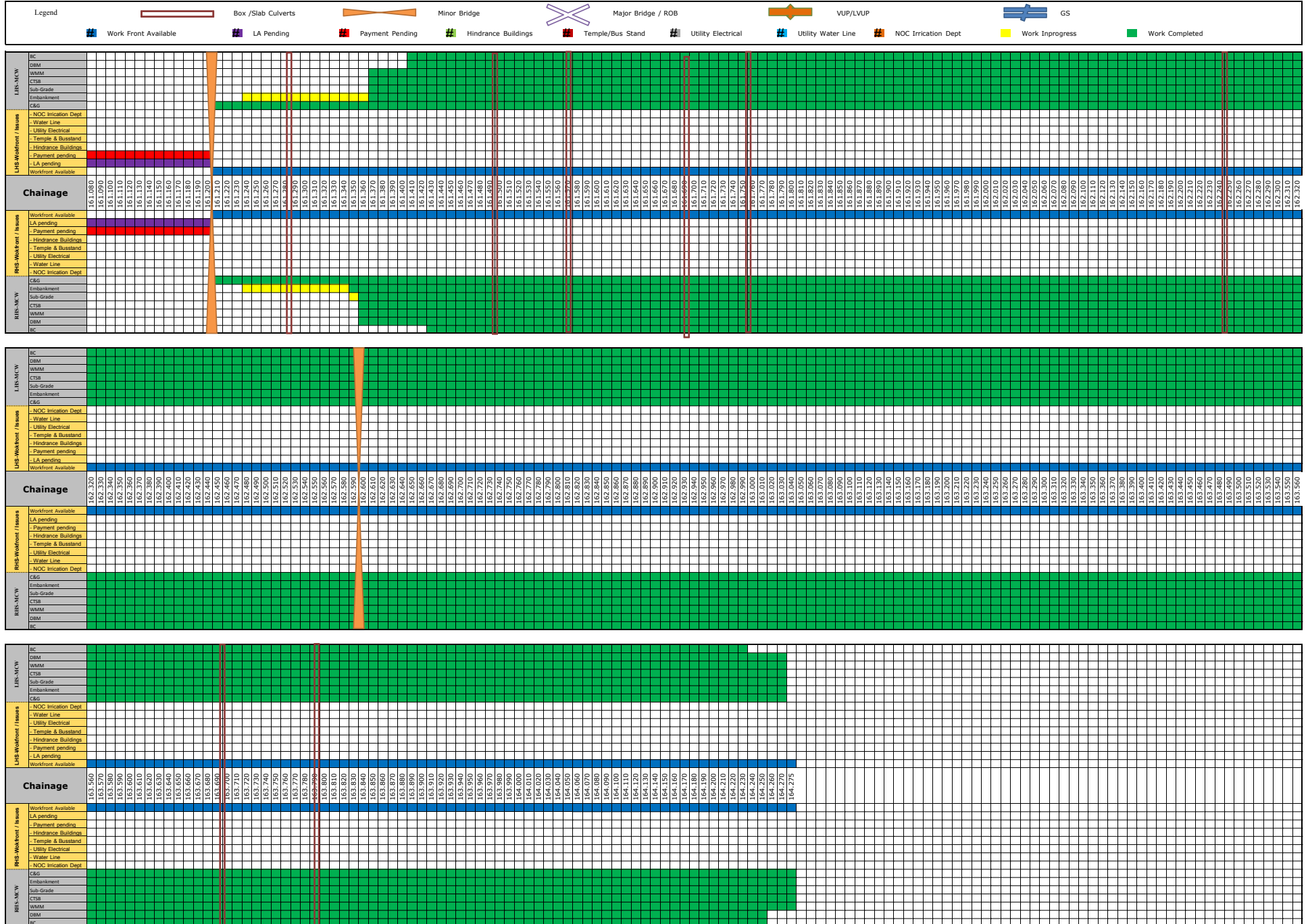
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Cholopuram - Thanjavur Project

Strip Chart as on 31.10.2021



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

Table 4.3 - 1 : Strip Chart for status of Box Culverts on Existing Road (Main Carriageway)						IN PROGRESS								COMPLETED								
MPR OCTOBER 2021						LHS								RHS								
Sr. No.	Design Chainage As per CA	Revised Design Chainage	Number and Length of Spans (m)	Remarks (As per Schd B)	Type of Existing Structure	Protection Work	Return Wall & Parapet	Slab	Wall	Raft	PCC	Granular Filling	Excavation	Excavation	Granular Filling	PCC	Raft	Wall	Slab	Return Wall & Parapet	Protection Work	
1	116.602	116.612	1 x 2.0m	Widening	Slab Culvert																	
2	116.837	116.846	1 x 2.0m	Widening	Slab Culvert																	
3	116.954	116.963	1 x 1.6m	Widening	Slab Culvert																	
4	120.068	120.077	1 x 3.0m	Reconstruction	Slab Culvert																	
5	120.280	120.289	1 x 1.5m	Reconstruction	Slab Culvert																	
6	120.346	120.356	1 x 1.5m	Reconstruction	Box Culvert																	
7	120.836	120.845	1 x 2.0m	Widening	Box Culvert																	
8	121.540	121.550	1 x 3.0m	Widening	Slab Culvert																	
9	121.683	121.693	1 x 1.5m	Widening	Slab Culvert																	
10	121.885	121.895	2 x 1.0m	Widening	Pipe Culvert																	
11	122.375	122.385	1 x 1.0m	Widening	Pipe Culvert																	
12	122.497	122.508	2 x 1.0m	Widening	Pipe Culvert																	
13	122.678	122.688	2 x 1.0m	Widening	Pipe Culvert																	
14	122.835	122.845	1 x 3.0m	Widening	Slab Culvert																	
15	122.943	122.952	2 x 1.0m	Widening	Pipe Culvert																	
16	124.118	124.120	1 x 1.5m	Widening	Slab Culvert																	
17	124.820	124.823	1 x 1.0m	Widening	Pipe Culvert																	
18	125.682	125.685	1 x 1.5m	Widening	Slab Culvert																	
19	126.836	126.854	1 x 3.0m	Reconstruction	Slab Culvert																	
20	126.987	127.007	1 x 2.0m	Reconstruction	Slab Culvert																	
21	127.488	127.498	1 x 1.2m	Reconstruction	Pipe Culvert																	
22	127.600	127.612	3 x 1.2m	Reconstruction	Pipe Culvert																	
23	127.788	127.800	1 x 0.9m	Widening	Pipe Culvert																	
24	128.267	128.279	1 x 0.9m	Widening	Pipe Culvert																	
25	128.494	128.505	1 x 1.2m	Reconstruction	Pipe Culvert																	
26	128.675	128.667	1 x 2.0m	Reconstruction	Box Culvert																	
27	128.682	128.693	1 x 2.0m	Reconstruction	Slab Culvert																	
28	128.727	128.724	3 x 1.2m	Reconstruction	Pipe Culvert																	
29	128.904	128.916	1 x 1.2m	Reconstruction	Pipe Culvert																	
30	129.067	129.079	1 x 1.2m	Reconstruction	Pipe Culvert																	
31	129.246	129.260	1 x 0.9m	Widening	Pipe Culvert																	
32	129.507	129.519	1 x 3.0m	Widening	Slab Culvert																	
33	129.707	129.719	1 x 2.5m	Widening	Slab Culvert																	
34	129.823	129.835	1 x 0.9m	Widening	Pipe Culvert																	
35	130.096	130.109	1 x 1.2m	Reconstruction	Pipe Culvert																	
36	130.307	130.318	1 x 1.5m	Reconstruction	Slab Culvert																	
37	130.357	130.369	1 x 1.5m	Reconstruction	Slab Culvert																	
38	130.680	130.693	2 x 1.2m	Reconstruction	Pipe Culvert																	
39	130.827	130.839	1 x 0.9m	Widening	Pipe Culvert																	
40	130.989	130.999	1 x 3.0m	Widening	Slab Culvert																	
41	131.146	131.159	1 x 0.9m	Widening	Pipe Culvert																	
42	131.505	131.517	1 x 3.0m	Reconstruction	Slab Culvert																	
43	131.722	131.733	1 x 1.2m	Reconstruction	Pipe Culvert																	
44	131.780	131.792	1 x 1.2m	Reconstruction	Pipe Culvert																	
45	132.300	132.319	1 x 3.0m	Widening	Slab Culvert																	
46	132.557	132.571	1 x 3.0m	Widening	Slab Culvert																	
47	132.730	132.742	1 x 3.0m	Widening	Slab Culvert																	
48	132.789	132.803	1 x 2.0m	Widening	Slab Culvert																	
49	133.115	133.128	1 x 5.0m	Widening	Slab Culvert																	
50	133.210	133.222	1 x 2.0m	Widening	Slab Culvert																	
51	133.240	133.268	1 x 0.9m	Widening	Pipe Culvert																	
52	133.635	133.579	1 x 2.0m	Reconstruction	Slab Culvert																	
53	133.734	133.748	1 x 2.0m	Reconstruction	Slab Culvert																	
54	133.935	133.948	1 x 1.2m	Reconstruction	Pipe Culvert																	
55	133.987	133.979	1 x 1.5m	Reconstruction	Slab Culvert																	
56	163.700	163.700	2 x 0.9m	Widening	Pipe Culvert																	
57	163.793	163.828	1 x 0.9m	Widening	Pipe Culvert																	

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

Table 4.3 - 1 : Strip Chart for status of Box Culverts on Existing Road (Service Road)						IN PROGRESS							COMPLETED									
MPR OCTOBER 2021						LHS							RHS									
Sr. No.	Design Chainage As per CA	Revised Design Chainage	Number and Length of Spans (m)	Remarks (As per Schd B)	Type of Existing Structure	Protection Work	Return Wall & Parapet	Slab	Wall	Raft	PCC	Granular Filling	Excavation	Excavation	Granular Filling	PCC	Raft	Wall	Slab	Return Wall & Parapet	Protection Work	
1	120.068	120.077	1 x 3.0	Reconstruction	Slab Culvert																	
2	120.280	120.289	1 x 1.5	Reconstruction	Slab Culvert																	
3	120.346	120.356	1 x 1.5	Reconstruction	Box Culvert																	
4	126.836	126.854	1 x 3.0	Reconstruction	Slab Culvert																	
5	126.987	127.007	1 x 2.0	Reconstruction	Slab Culvert																	
6	127.488	127.498	1 x 1.2	Reconstruction	Pipe Culvert																	
7	127.600	127.612	3 x 1.2	Reconstruction	Pipe Culvert																	
8	128.494	128.505	1 x 1.2	Reconstruction	Pipe Culvert																	
9	128.675	128.667	1 x 2.0	Reconstruction	Box Culvert																	
10	128.682	128.693	1 x 2.0	Reconstruction	Slab Culvert																	
11	128.727	128.724	3 x 1.2	Reconstruction	Pipe Culvert																	
12	128.904	128.916	1 x 1.2	Reconstruction	Pipe Culvert																	
13	129.067	129.079	1 x 1.2	Reconstruction	Pipe Culvert																	
14	130.096	130.109	1 x 1.2	Reconstruction	Pipe Culvert																	
15	130.307	130.318	1 x 1.5	Reconstruction	Slab Culvert																	
16	130.357	130.369	1 x 1.5	Reconstruction	Slab Culvert																	
17	130.680	130.693	2 x 1.2	Reconstruction	Pipe Culvert																	
18	131.146	131.159	1 X 0.9	Widening	Pipe Culvert																	
19	131.505	131.517	1 x 3.0	Reconstruction	Slab Culvert																	
20	131.722	131.733	1 x 1.2	Reconstruction	Pipe Culvert																	
21	131.780	131.792	1 x 1.2	Reconstruction	Pipe Culvert																	
22	133.635	133.579	1 x 2.0	Reconstruction	Slab Culvert																	
23	133.734	133.748	1 x 2.0	Reconstruction	Slab Culvert																	
24	133.935	133.948	1 x 1.2	Reconstruction	Pipe Culvert																	
25	133.987	133.979	1 x 1.2	Reconstruction	Pipe Culvert																	

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

Table 4.3 - 2 : Strip Chart for status of Box Culverts on Bypass (Main Carriageway)

MPR OCTOBER 2021						IN PROGRESS								COMPLETED								
						LHS								RHS								
Sr. No.	Design Chainage As per CA	Revised Design Chainage	Number and Length of Spans (m)	Remarks	Type of Structure	Protection Work	Return Wall & Parapet	Slab	Wall	Raft	PCC	Granular Filling	Excavation	Excavation	Granular Filling	PCC	Raft	Wall	Slab	Return Wall & Parapet	Protection Work	
1	119.971	119.879	1 x 1.5m	Reconstruction	Slab Culvert																	
2	134.500	134.514	1 x 2.0m x 2.0m	New Costruction	Box Culvert																	
3	138.492	138.523	1 x 4.0m x 2.0m	New Costruction	Box Culvert																	
4	139.827	139.856	1 x 2.0m x 2.0m	New Costruction	Box Culvert																	
5	140.010	140.040	1 x 2.0m x 2.0m	New Costruction	Box Culvert																	
6	140.292	140.322	1 x 3.0m x 2.0m	New Costruction	Box Culvert																	
7	140.911	140.945	1 x 4.0m x 2.0m	New Costruction	Box Culvert																	
8	142.189	142.048	1 x 4.0m x 2.0m	New Costruction	Box Culvert																	
9	142.776	142.812	1 x 4.0m x 2.0m	New Costruction	Box Culvert																	
10	144.426	144.500	1 x 4.0m x 2.0m	New Costruction	Box Culvert																	
11	146.049	146.079	1 x 3.0m x 2.0m	New Costruction	Box Culvert																	
12	147.060	147.075	1 x 4.0m x 2.0m	New Costruction	Box Culvert																	
13	148.650	148.650	1 x 4.0m x 2.0m	New Costruction	Box Culvert																	
14	150.237	150.265	1 x 4.0m x 2.0m	New Costruction	Box Culvert																	
15	150.780	150.791	1 x 4.0m x 2.0m	New Costruction	Box Culvert																	
16	152.390	152.418	1 x 4.0m x 2.0m	New Costruction	Box Culvert																	
17	153.781	153.809	1 x 2.0m x 2.0m	New Costruction	Box Culvert																	
18	154.129	154.157	1 x 4.0m x 2.0m	New Costruction	Box Culvert																	
19	154.900	154.927	1 x 3.0m x 2.0m	New Costruction	Box Culvert																	
20	155.381	155.407	1 x 3.0m x 2.0m	New Costruction	Box Culvert																	
21	155.601	155.628	1 x 4.0m x 2.0m	New Costruction	Box Culvert																	
22	155.645	155.672	1 x 3.0m x 2.0m	New Costruction	Box Culvert																	
23	155.743	155.770	1 x 2.0m x 2.0m	New Costruction	Box Culvert																	
24	155.938	155.962	1 x 4.0m x 2.0m	New Costruction	Box Culvert																	
25	156.984	157.012	1 x 3.0m x 2.0m	New Costruction	Box Culvert																	
26	157.283	157.310	1 x 4.0m x 2.0m	New Costruction	Box Culvert																	
27	157.678	157.701	1 x 4.0m x 2.0m	New Costruction	Box Culvert																	
28	158.283	158.310	1 x 2.0m x 2.0m	New Costruction	Box Culvert																	
29	158.531	158.558	1 x 2.0m x 2.0m	New Costruction	Box Culvert																	
30	158.639	158.665	1 x 2.0m x 2.0m	New Costruction	Box Culvert																	
31	158.852	158.882	1 x 5.0m x 2.0m	New Costruction	Box Culvert																	
32	159.282	159.300	1 x 4.0m x 2.0m	New Costruction	Box Culvert																	
33	159.361	159.385	1 x 3.0m x 2.0m	New Costruction	Box Culvert																	
34	160.157	160.176	1 x 4.0m x 2.0m	New Costruction	Box Culvert																	
35	160.326	160.350	1 x 3.0m x 2.0m	New Costruction	Box Culvert																	
36	160.420	160.445	1 x 2.0m x 2.0m	New Costruction	Box Culvert																	
37	160.572	160.594	1 x 2.0m x 2.0m	New Costruction	Box Culvert																	
38	160.635	160.658	1 x 2.0m x 2.0m	New Costruction	Box Culvert																	
39	160.733	160.754	1 x 2.0m x 2.0m	New Costruction	Box Culvert																	
40	160.798	160.850	1 x 2.0m x 2.0m	New Costruction	Box Culvert																	
41	161.288	161.310	1 x 4.0m x 2.0m	New Costruction	Box Culvert																	
42	161.499	161.501	1 x 2.0m x 2.0m	New Costruction	Box Culvert																	
43	161.573	161.595	1 x 4.0m x 2.0m	New Costruction	Box Culvert																	
44	161.693	161.717	1 x 2.0m x 2.0m	New Costruction	Box Culvert																	
45	161.757	161.759	1 x 2.0m x 2.0m	New Costruction	Box Culvert																	
46	162.243	162.255	1 x 4.0m x 2.0m	New Costruction	Box Culvert																	

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

Table 4.3 - 2 : Strip Chart for status of Box Culverts on Bypass (Service Road)						IN PROGRESS								COMPLETED								
MPR OCTOBER 2021						LHS								RHS								
Sr. No.	Design Chainage As per CA	Revised Design Chainage	Number and Length of Spans (m)	Remarks	Type of Structure	Protection Work	Return Wall & Parapet	Slab	Wall	Raft	PCC	Granular Filling	Excavation	Excavation	Granular Filling	PCC	Raft	Wall	Slab	Return Wall & Parapet	Protection Work	
1	119.971	119.879	1 x 1.5m	Reconstruction	Slab Culvert																	
2	134.500	134.514	1 x 2.0m x 2.0m	New Costruction	Box Culvert																	
3	138.492	138.523	1 x 4.0m x 2.0m	New Costruction	Box Culvert																	
4	144.426	144.500	1 x 4.0m x 2.0m	New Costruction	Box Culvert																	
5	150.237	150.265	1 x 4.0m x 2.0m	New Costruction	Box Culvert																	
6	156.984	157.012	1 x 3.0m x 2.0m	New Costruction	Box Culvert																	
7	157.283	157.310	1 x 4.0m x 2.0m	New Costruction	Box Culvert																	

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

Table 4.3 - 3 : Strip Chart for status of MNB - Box (Main Carriageway)						IN PROGRESS										COMPLETED						
MPR OCTOBER 2021						LHS										RHS						
Sr. No.	Design Chainage As per CA	Revised Chainage	Number and Length of Spans (m)	Type of Structure	Stretch	Protection Work	Retaining Wall + CB	Slab	Wall	Raft	PCC	Granular Filling	Excavation	Excavation	Granular Filling	PCC	Raft	Wall	Slab	Retaining Wall + CB	Protection Work	
MNB IN EXISTING LENGTH																						
1	121.024	121.035	1 x 6.0m	MNBB	Existing																	
2	122.046	122.058	3 x 7.5m	MNBB	Existing																	
MNB IN BYPASS																						
1	117.764	117.779	2 x 10.0m	MNBB	Bypass																	
2	118.217	118.110	1 x 8.0m	MNBB	Bypass																	
3	118.400	119.570	1 x 6.0m	MNBB	Bypass																	
4	118.480	118.480	1 x 6.0m	MNBB	Bypass																	
5	118.539	118.548	1 x 8.0m	MNBB	Bypass																	
6	118.919	119.100	1 x 6.0m	MNBB	Bypass																	
7	126.134	126.134	2 X 10.0m	MNBB	Bypass																	
8	134.320	134.320	2x 10.0m	MNBB	Bypass																	
9	134.770	134.774	1 x 10.0m	MNBB	Bypass																	
10	136.705	136.738	1 x 6.0m	MNBB	Bypass																	
11	138.555	138.585	1 x 6.0m	MNBB	Bypass																	
12	138.901	138.935	6 x 7.5m	MNBB	Bypass																	
13	139.105	139.138	2 x 15m	MNBB	Bypass																	
14	139.299	139.335	4 x 7.5m	MNBB	Bypass																	
15	139.453	139.485	1 x 7.0m	MNBB	Bypass																	
16	140.605	140.637	1 x 6.0m	MNBB	Bypass																	
17	140.860	140.892	1 x 8.0m	MNBB	Bypass																	
18	141.164	141.145	1 x 10.0m	MNBB	Bypass																	
19	141.445	141.466	1 x 8.0m	MNBB	Bypass																	
20	141.727	141.760	1 x 8.0m	MNBB	Bypass																	
21	142.204	142.235	1 x 8.0m	MNBB	Bypass																	
22	142.657	142.687	1 x 6.0m	MNBB	Bypass																	
23	142.897	142.932	2 x 8.0m	MNBB	Bypass																	
24	143.115	143.136	6 x 7.5m	MNBB	Bypass																	
25	143.823	143.852	2 x 8.0m	MNBB	Bypass																	
26	144.000	143.995	2 x 10.0m	MNBB	Bypass																	
27	144.880	144.916	4 x 7.5m	MNBB	Bypass																	
28	146.639	146.671	1 x 10.0m	MNBB	Bypass																	
29	147.396	147.426	1 x 8.0m	MNBB	Bypass																	
30	148.560	148.592	1 x 8.0m	MNBB	Bypass																	
31	149.940	149.962	1 x 10.0m	MNBB	Bypass																	
32	149.997	150.028	1 x 6.0m	MNBB	Bypass																	
33	152.876	152.911	2 x 10.0m	MNBB	Bypass																	
34	153.263	153.287	1 x 10.0m	MNBB	Bypass																	
35	153.528	153.557	1 x 6.0m	MNBB	Bypass																	
36	153.939	153.968	1 x 10.0m	MNBB	Bypass																	
37	154.626	154.659	1 x 6.0m	MNBB	Bypass																	
38	154.739	154.764	1 x 10.0m	MNBB	Bypass																	
39	155.049	155.082	2 x 7.5m	MNBB	Bypass																	
40	156.014	156.040	1 x 8.0m	MNBB	Bypass																	
41	156.216	156.244	1 x 6.0m	MNBB	Bypass																	
42	156.336	156.366	1 x 6.0m	MNBB	Bypass																	
43	156.707	156.734	1 x 10.0m	MNBB	Bypass																	
44	157.458	157.485	1 x 7.0m	MNBB	Bypass																	
45	157.494	157.517	1 x 8.0m	MNBB	Bypass																	
46	158.128	158.155	1 x 7.0m	MNBB	Bypass																	
47	158.972	158.994	1 x 6.0m	MNBB	Bypass																	
48	159.076	159.103	1 x 8.0m	MNBB	Bypass																	
49	159.723	159.742	1 x 6.0m	MNBB	Bypass																	
50	159.801	159.835	1 x 6.0m	MNBB	Bypass																	
51	161.208	161.227	1 x 8.0m	MNBB	Bypass																	
52	162.595	162.618	2 x 15m	MNBB	Bypass																	

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

Table 4.3 - 3 : Strip Chart for status of MNB - Deck Type (Main Carriageway)				IN PROGRESS								COMPLETED									
MPR OCTOBER 2021				LHS								RHS									
SR. NO.	MNB at Chainage	Span	Pier/ Abutment	Crash Barrier	Slab	Girder Launching	Girder Casting	Piercap/Abt cap	Pier/Abt	Open Foundation	PCC For foundation	PCC For foundation	Open Foundation	Pier/Abt	Piercap/Abt cap	Girder Casting	Girder Launching	Slab	Crash Barrier		
1	133+345	3x12.5m	A1	EXISTING STRUCTURE																	
			P1																		
			A2																		
2	159+522	1x15.0m	A1																		
			A2																		

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

Table 4.3 - 3 : Strip Chart for status of MNB - Box (Service Road)

MPR OCTOBER 2021						IN PROGRESS							COMPLETED							
MPR OCTOBER 2021						LHS							RHS							
Sr. No.	Design Chainage As per CA	Revised Chainage	Number and Length of Spans (m)	Type of Structure	Stretch	Protection Work	Slab	Wall	Raft	PCC	Granular Filling	Excavation	Excavation	Granular Filling	PCC	Raft	Wall	Slab	Protection Work	
MNB SERVICE ROAD IN BYPASS																				
1	117.764	117.779	2 x 10.0m	MNBB	Bypass															
2	126.134	126.134	2 X 10.0m	MNBB	Realign															
3	134.320	134.320	2x 10.0m	MNBB	Bypass															
4	134.770	134.774	1 x 10.0m	MNBB	Bypass															
5	138.555	138.585	1 x 6.0m	MNBB	Bypass															
6	138.901	138.935	6 x 7.5m	MNBB	Bypass															
7	139.105	139.138	2 x 15m	MNBB	Bypass															
8	139.299	139.335	4 x 7.5m	MNBB	Bypass															
9	139.453	139.485	1 x 7.0m	MNBB	Bypass															
10	141.164	141.145	1 x 10.0m	MNBB	Bypass															
11	141.445	141.466	1 x 8.0m	MNBB	Bypass															
12	141.727	141.760	1 x 8.0m	MNBB	Bypass															
13	144.880	144.916	4 x 7.5m	MNBB	Bypass															
14	149.940	149.962	1 x 10.0m	MNBB	Bypass															
15	149.997	150.028	1 x 6.0m	MNBB	Bypass															
16	156.014	156.040	1 x 8.0m	MNBB	Bypass															
17	156.216	156.244	1 x 6.0m	MNBB	Bypass															
18	156.336	156.366	1 x 6.0m	MNBB	Bypass															
19	156.707	156.734	1 x 10.0m	MNBB	Bypass															

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

Table 4.3 - 4 : Strip Chart for status of PUP				IN PROGRESS						COMPLETED						
MPR OCTOBER 2021				LHS						RHS						
Sr. No.	Design Chainage As per CA	Chainage as Per Site	Number and Length of Spans (m)		Protection Work	Slab	Wall	Raft	PCC	Excavation	Excavation	PCC	Raft	Wall	Slab	Protection Work
1	147.917	147.951	1 X 7 m	BYPASS												
2	149.988	150.023	1 X 7 m	BYPASS												

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

Table 4.3- 5 : Strip Chart for status of MJB (Main Carriageway)									IN PROGRESS		COMPLETED						
MPR OCTOBER 2021																	
MJB at Chainage 131+980 (3x20) -WIDENING RHS																	
LHS/LSR									RHS/RSR								
Crash Barrier	Slab	Girder Launching	Girder Casting	Pier Cap/Abt Cap	Pier/Abt	Pile Cap	Pile		Pile	Pile Cap	Pier/Abt	Pier Cap/Abt Cap	Girder Casting	Girder Launching	Slab	Crash Barrier	
A1	Existing Bridge (Repair Only)																
P1	Existing Bridge (Repair Only)																
P2	Existing Bridge (Repair Only)																
A2	Existing Bridge (Repair Only)																
MJB at Chainage 149+334 (3x20)- BYPASS																	
LHS/LSR									RHS/RSR								
Crash Barrier	Slab	Girder Launching	Girder Casting	Pier Cap/Abt Cap	Pier/Abt	Pile Cap	Pile		Pile	Pile Cap	Pier/Abt	Pier Cap/Abt Cap	Girder Casting	Girder Launching	Slab	Crash Barrier	
A1																	
P1																	
P2																	
P3																	
A2																	
MJB at Chainage 156+559 (6x20)- BYPASS																	
LHS/LSR									RHS/RSR								
Crash Barrier	Slab	Girder Launching	Girder Casting	Pier Cap/Abt Cap	Pier/Abt	Pile Cap	Pile		Pile	Pile Cap	Pier/Abt	Pier Cap/Abt Cap	Girder Casting	Girder Launching	Slab	Crash Barrier	
P2																	
P3																	
P4																	
P5																	
P6																	
A2																	
MJB at Chainage 161+019 (6x20)- BYPASS																	
LHS/LSR									RHS/RSR								
Crash Barrier	Slab	Girder Launching	Girder Casting	Pier Cap/Abt Cap	Pier/Abt	Pile Cap	Pile		Pile	Pile Cap	Pier/Abt	Pier Cap/Abt Cap	Girder Casting	Girder Launching	Slab	Crash Barrier	
A1																	
P1																	
P2																	
P3																	
P4																	
P5																	
P6																	
A2																	

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

Table 4.3 - 6 : Strip Chart for status of FLYOVER				IN PROGRESS										COMPLETED								
MPR OCTOBER 2021				LHS										RHS								
Sr. No.	FO at Chainage	Span		Crash Barrier	Slab	Girder Launching	Girder Casting	Piercap/Abtcap	Pier/Abt	Pile Cap	PCC	Pile	Pile	PCC	Pile Cap	Pier/Abt	Piercap/Abtcap	Girder Casting	Girder Launching	Slab	Crash Barrier	
1	117+600	1 x 30 m	BYPASS+ EXISTING	A1																		
				A2																		
2	120+000	1 x 30 m	BYPASS+ EXISTING	A1																		
				A2																		
3	127+300	1 x 30 m	EXISTING	A1																		
				A2																		
4	134+000	1 x 30 m	BYPASS+ EXISTING	A1																		
				A2																		
5	145+140	1 x 30 m	BYPASS	A1																		
				A2																		
6	157+100	1 x 30 m	BYPASS	A1																		
				A2																		

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

Table 4.3 - 7 : Strip Chart for status of VUP				IN PROGRESS										COMPLETED								
MPR OCTOBER 2021				LHS										RHS								
SR. NO.	VUP at Chainage	Span		Crash Barrier	Slab	Girder Launching	Girder Casting	Piercap/Abt cap	Pier/Abt	Pile Cap	PCC	Pile	Pile	PCC	Pile Cap	Pier/Abt	Piercap/Abt cap	Girder Casting	Girder Launching	Slab	Crash Barrier	
1	126+100	1x25	EXISTING	A1																		
				A2																		
2	126+600	1x25	EXISTING	A1																		
				A2																		
3	128+700	1x25	EXISTING	A1																		
				A2																		
4	130+335	1x25	EXISTING	A1																		
				A2																		
5	131+500	1x25	EXISTING	A1																		
				A2																		
6	136+282	1x25	BYPASS	A1																		
				A2																		
7	138+720	1x25	BYPASS	A1																		
				A2																		
8	139+440	1x25	BYPASS	A1																		
				A2																		
9	141+450	1x25	BYPASS	A1																		
				A2																		
10	156+446	1x25	BYPASS	A1																		
				A2																		

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

Table 4.3 - 8 : Strip Chart for status of ROB

IN PROGRESS

COMPLETED

MPR OCTOBER 2021

ROB at Chainage 134+345 (1 x 20.285m+1 x 30.426m+1 x 20.285m (Skew 9.6 °))- EXISTING

LHS/LSR

RHS/RSR

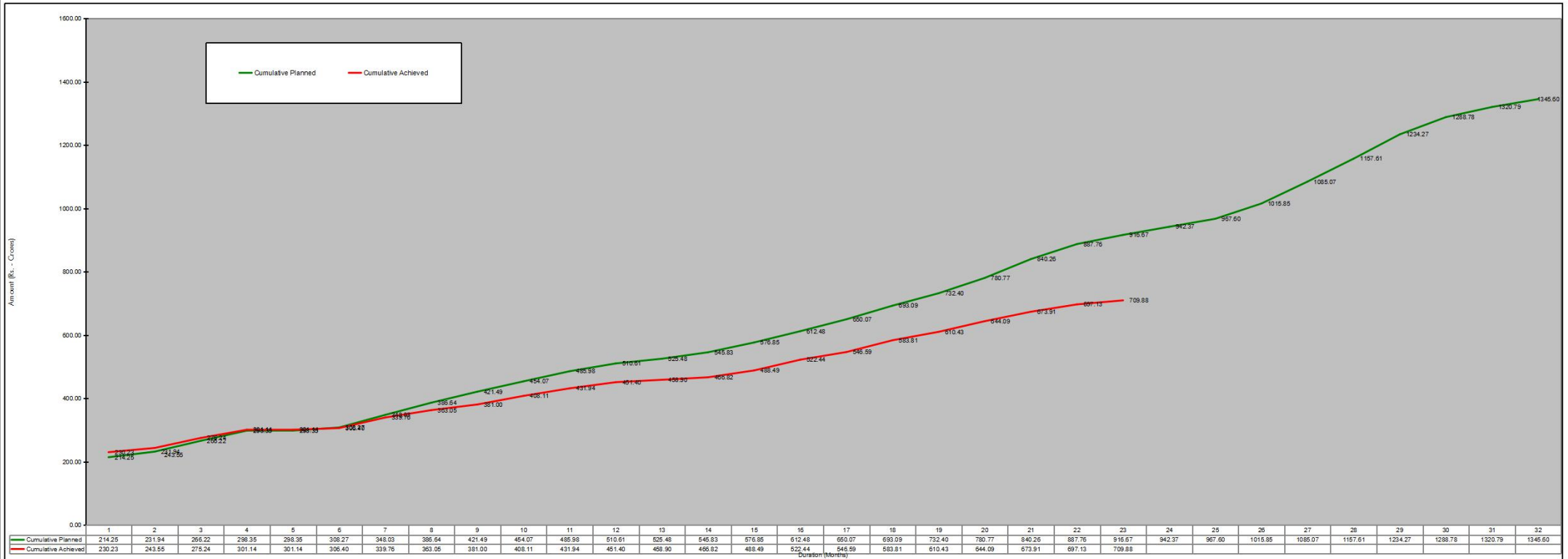
	Crash Barrier	Slab	Steel Girder Launching	Steel Girder Fabrication	Girder Launching	Girder Casting	Pier Cap/Abt Cap	Pier/Abt	Pile Cap	Pile	Pile	Pile Cap	Pier/Abt	Pier Cap/Abt Cap	Girder Casting	Girder Launching	Steel Girder Fabrication	Steel Girder Launching	Slab	Crash Barrier
A1			NA	NA												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

5. Financial & Physical Progress of Work

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

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

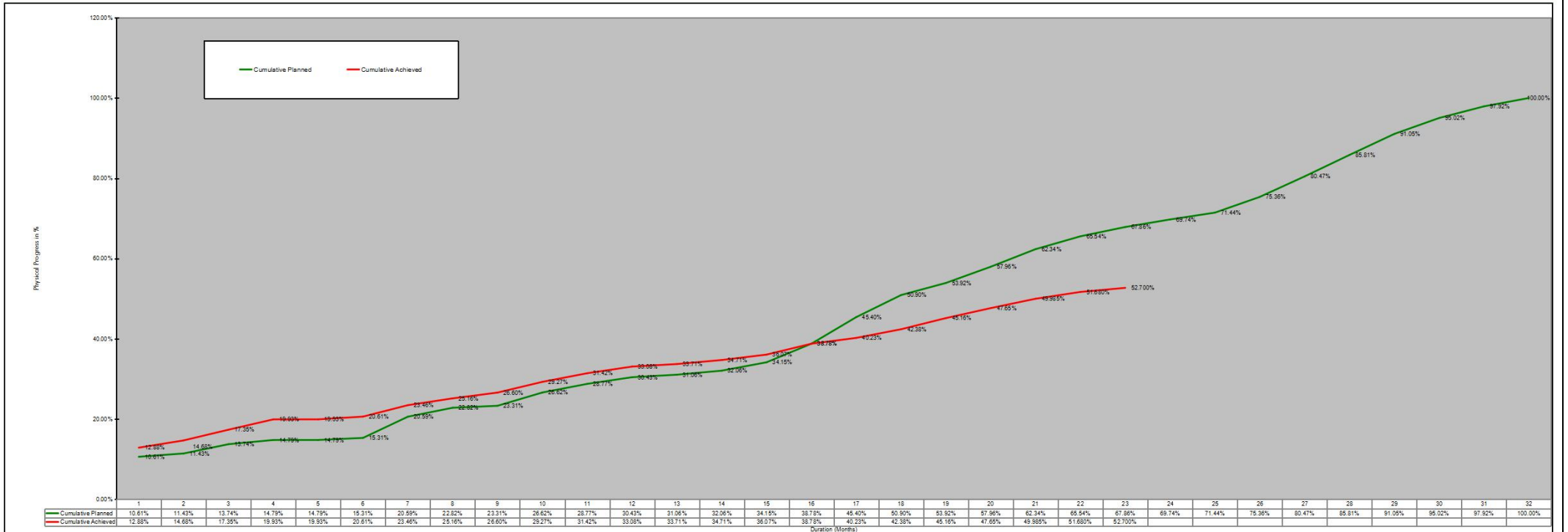
Fig. 03a- Financial Progress (S-Curve) as per revised target



Schedule	2019												2020												2021												2022							
	Upto Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul												
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32												
Monthly Planned	214.25	17.68	34.28	32.13	0.00	9.92	39.76	38.61	34.85	32.58	31.91	24.64	14.86	20.36	31.02	35.63	37.59	43.02	39.31	48.38	59.49	47.49	28.92	25.70	25.23	48.25	69.22	72.54	76.67	54.51	32.01	24.80												
Monthly Achieved	16.43	13.33	31.69	25.90	0.00	5.26	33.36	23.29	17.95	27.11	23.83	19.46	7.50	7.92	21.67	33.95	24.15	37.21	26.63	33.66	29.81	23.23	12.75																					
Cumulative Planned	214.25	231.94	266.22	298.35	298.35	308.27	348.03	386.64	421.49	454.07	485.98	510.61	525.48	545.83	576.85	612.48	650.07	693.09	732.40	780.77	840.26	887.76	916.67	942.37	967.60	1015.85	1085.07	1167.61	1234.27	1288.78	1320.79	1345.60												
Cumulative Achieved	230.23	243.55	275.24	301.14	301.14	306.40	339.76	363.05	381.00	408.11	431.94	451.40	458.90	466.82	488.49	522.44	546.59	583.81	610.43	644.09	673.91	697.13	709.88																					
Monthly Planned (%)	15.92%	1.31%	2.55%	2.39%	0.00%	0.74%	2.95%	2.87%	2.59%	2.42%	2.37%	1.83%	1.10%	1.51%	2.31%	2.65%	2.79%	3.20%	2.92%	3.60%	4.42%	3.53%	2.15%	1.91%	1.88%	3.59%	5.14%	5.39%	5.70%	4.05%	2.38%	1.84%												
Monthly Achieved (%)	1.22%	0.99%	2.35%	1.92%	0.00%	0.39%	2.48%	1.73%	1.33%	2.01%	1.77%	1.45%	0.56%	0.59%	1.61%	2.52%	1.80%	2.77%	1.98%	2.50%	2.22%	1.73%	0.95%																					
Cumulative Planned (%)	15.92%	17.24%	19.78%	22.17%	22.17%	22.91%	25.86%	28.73%	31.32%	33.74%	36.12%	37.95%	39.05%	40.56%	42.87%	45.52%	48.31%	51.51%	54.43%	58.02%	62.45%	65.97%	68.12%	70.03%	71.91%	75.49%	80.64%	86.03%	91.73%	95.78%	98.16%	100.00%												
Cumulative Achieved (%)	17.11%	18.10%	20.45%	22.38%	22.38%	22.77%	25.25%	26.98%	28.31%	30.33%	32.10%	33.55%	34.10%	34.69%	36.30%	38.83%	40.62%	43.39%	45.36%	47.87%	50.08%	51.81%	52.76%																					

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

Fig. 03b- Physical Progress (S-Curve) as per revised target



Schedule	2019												2020												2021												2022			
	Upto Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul								
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32								
Monthly Planned	0.50%	0.82%	2.31%	1.05%	0.00%	0.52%	5.28%	2.23%	0.49%	3.31%	2.15%	1.66%	0.63%	1.00%	2.09%	4.63%	6.62%	5.50%	3.02%	4.04%	4.38%	3.20%	2.32%	1.88%	1.70%	3.92%	5.11%	5.34%	5.24%	3.97%	2.90%	2.08%								
Monthly Achieved	0.73%	1.80%	2.67%	2.58%	0.00%	0.69%	2.85%	1.70%	1.44%	2.67%	2.15%	1.66%	0.63%	1.00%	1.35%	2.71%	1.45%	2.16%	2.78%	2.49%	2.333%	1.695%	1.02%																	
Cumulative Planned	10.61%	11.43%	13.74%	14.79%	14.79%	15.31%	20.59%	22.82%	23.31%	26.62%	28.77%	30.43%	31.06%	32.06%	34.15%	38.78%	45.40%	50.90%	53.92%	57.96%	62.34%	65.54%	67.86%	69.74%	71.44%	75.36%	80.47%	85.81%	91.05%	95.02%	97.92%	100.00%								
Cumulative Achieved	12.88%	14.68%	17.35%	19.93%	19.93%	20.61%	23.46%	25.16%	26.60%	29.27%	31.42%	33.08%	33.71%	34.71%	36.07%	38.78%	40.23%	42.38%	45.16%	47.65%	49.985%	51.680%	52.700%																	

6.1. List of Lab Equipment's

A site laboratory has been set up with all equipments required for testing soil, GSB, WMM, Bitumen, aggregate and concrete. Following tables represents the list of QA/QC equipment's available at Pateeswaram Lab.

Table 6.1 - 2 QA/QC Lab Equipment at Pateeswaram Lab

Sl. No	Equipment List	Quantity
A) SOIL		
1	Proctor Moulds (Big) Collar or Base plate & Rammer 4.89 kg	6
2	Proctor Moulds (Small) Collar or Base plate & Rammer 2.6 kg	4
3	Atterberg Limits Test(Apparatus)	1
4	Soil Cone Penetrometer	1
5	CBR Moulds with collar or Base Plate	60
6	CBR Plunger	4
7	Proving Ring(25 KN)	1
8	Proving Ring(10 KN)	1
9	Proving Ring(2.5 KN)	1
10	FSI JARS BOROSIL -100 ml	40
11	Spacer Disc(with Handle)	4
12	CBR Testing Machine	1
13	CBR Surcharge Central Hole Weights 2.5 kg	60
14	CBR Surcharge Slotted Weights 2.5 kg	60
15	CBR Perorated Brass plates	60
16	Sand Pouring Cylinders (100 mm Dia) Complete with Calibrating Container with Trays	2
17	Sand Pouring Cylinders (150 mm Dia) Complete with Calibrating Container with Trays	2
18	Sand Pouring Cylinders (200 mm Dia) Complete with Calibrating Container with Trays	2
19	Rapid Moisture Meters	4
20	Calcium Carbide Bottles	10
21	Spatula Big	10
22	Spatula Small	10
23	Hammers big	4
24	Chisels big	20
25	Electronic Balance Capacity 100 kg (10 gram accuracy)	1
26	Electronic Balance Capacity 50 kg (1 gram accuracy)	2
27	Electronic Balance Capacity 30 kg (1 gram accuracy)	2
28	Electronic Balance Capacity 10 kg (1 gram accuracy)	1
29	Electronic Balance Capacity 5 kg (0.5 gram accuracy)	1
30	Electronic Balance Capacity 600gram(0.01 gram accuracy)	2
31	Hot Air Oven (Big)250oC	1
32	Hot Air Oven (Small)250oC	1
33	Direct Shear Test Apparatus	1

34	Filter Paper Dia 100 mm	10
35	Filter Paper Dia 150 mm	10
36	Pipettes	4
37	Plastic Bottles	4
38	Enamel tray -450x300x40 mm	12
39	G.I tray-1500x1500x100mm	4
40	French Curves	2
B) CONCRETE WORKS		
41	Compressive Testing machine(2000KN)	1
42	Flexural 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 absorption test apparatus with Electronic balance	1
69	DLC Compaction vibrating hammer	1
70	Cement mortar cube mould 5.0 cm	12
71	Sandard Sand Grade-1 bag of 25 kg	2
72	Sandard Sand Grade-2 bag of 25 kg	2
73	Sandard Sand Grade-3 bag of 25 kg	2
C) BITUMINOUS WORKS		
74	Specific Gravity Bottels (50 ml)	2
75	Specific Gravity Bottels (100 ml)	2
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
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	6.5MM	2
137	22.4MM	2
138	19MM	2
139	16MM	2
140	14 MM	2
141	13.2MM	2
142	12.5MM	2
143	11.2MM	2
144	10MM	2
145	9.5MM	2
146	5.6MM	2
147	4.75MM	2
148	2.80MM	2
149	2.36MM	2
150	2.00MM	2
151	1.80MM	2
152	1.40MM	2
153	1.18MM	2
154	1.00MM	2
155	0.710 mc	1
156	0.600 mc	2
157	0.500 mc	1
158	0.45 mc	1
159	0.425 mc	2
160	0.355 mc	2
161	0.300 mc	2
162	0.150 mc	2
163	0.090 mc	2
164	0.075 mc	6
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 October - 2021 are tabulated below:-

Four Laning of Cholopuram - Thanjavur From km 116.440 to km 164.275 Section of NH-45C in the State of TamilNadu Under NHDP Phase-IV on Hybrid Annuity Mode.

Summary of Quality Control Report / Monthly Progress Report (QC) - MONTH : OCTOBER-2021

Sr. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month				Tests conducted during reporting month October 2021				Test conducted upto this month			
				No. of test Conducted	Passed	Failed	Nos. of test witnessed by IE	No. of test Conducted	Passed	Failed	Nos. of test witnessed by IE	No. of test Conducted	Passed	Failed	Nos. of test witnessed by IE
1.0 Tests on OGL															
1.1	Grain size analysis	IS:2720 (Part4)	1 test / 250 meters	421	421	0	224	0	0	0	0	421	421	0	224
1.2	Atterberg Limits	IS:2720 (Part5)	1 test / 250 meters	421	421	0	224	0	0	0	0	421	421	0	224
1.3	Proctor	IS:2720 (Part8)	1 test / 250 meters	233	233	0	68	0	0	0	0	233	233	0	68
1.4	Free Swell index	IS:2720 (Part40)	1 test / 250 meters	421	403	18	224	0	0	0	0	421	403	18	224
2.0 Cutting portion & Existing for EMB/SG (MoRT&H 305)															
2.1	Grain size analysis	IS:2720 (Part4)	1 test / 1500 m ³	112	112	0	41	0	0	0	0	112	112	0	41
2.2	Atterberg Limits	IS:2720 (Part5)	1 test / 1500 m ³	112	112	0	41	0	0	0	0	112	112	0	41
2.3	Proctor	IS:2720 (Part8)	1 test / 1500 m ³	112	112	0	41	0	0	0	0	112	112	0	41
2.4	Free Swell index	IS:2720 (Part40)	1 test / 1500 m ³	112	112	0	41	0	0	0	0	112	112	0	41
2.5	California bearing ratio	IS:2720 (Part16)	1 test / 3000 m ³	107	107	0	43	0	0	0	0	107	107	0	43
3.0 Borrow Area for EMB/Subgrade (MoRT&H 305)															
3.1	Grain size analysis	IS:2720 (Part4)	1 test / 1500 m ³	2039	2039	0	482	0	0	0	0	2039	2039	0	482
3.2	Atterberg Limits	IS:2720 (Part5)	1 test / 1500 m ³	2039	2039	0	482	0	0	0	0	2039	2039	0	482
3.3	Proctor	IS:2720 (Part8)	1 test / 1500 m ³	2039	2039	0	482	0	0	0	0	2039	2039	0	482
3.4	Free Swell index	IS:2720 (Part40)	1 test / 1500 m ³	2039	2039	0	482	0	0	0	0	2039	2039	0	482
3.5	California bearing ratio	IS:2720 (Part16)	1 test / 3000 m ³	269	269	0	117	0	0	0	0	269	269	0	117
3.7	Angle of Internal Friction (α)	IS:2720 (Part13)	As required	190	190	0	44	0	0	0	0	190	190	0	44
4.0 Field Density Test (MORT&H 305)															
4.1	Field density (OGL)	IS:2720 (Part28)	10 test / 3000 sqm	6655	6640	15	2238	0	0	0	0	6655	6640	15	2238
4.2	Field density (EMB)	IS:2720 (Part28)	10 test / 3000 sqm	79563	79354	209	12905	0	0	0	0	79563	79354	209	12905
4.3	Field density (SG)	IS:2720 (Part28)	10 test / 2000 sqm	11455	11455	3	2035	0	0	0	0	11455	11455	3	2035
4.4	Field density (Shoulder)	IS:2720 (Part28)	10 test / 2000 sqm	412	412	0	94	0	0	0	0	412	412	0	94
5.0 Safe Bearing capacity of soil (Highway & Structure)															
5.1	Grain size analysis	IS:2720 (Part40)	As required	169	169	0	41	0	0	0	0	169	169	0	41
5.2	Atterberg Limits	IS:2720 (Part4)	As required	169	169	0	41	0	0	0	0	169	169	0	41
5.3	Proctor	IS:2720 (Part5)	As required	169	169	0	40	0	0	0	0	169	169	0	40
5.4	Free Swell index	IS:2720 (Part8)	As required	169	162	7	41	0	0	0	0	169	162	7	41
5.5	Bearing Capacity	IS:6403 / IS 1888	As required	169	18	151	41	0	0	0	0	169	18	151	41
5.6	Plate Load Test	IS:6403 / IS 1888	As required	36	36	0	27	0	0	0	0	36	36	0	27
6.0 Filter Media & Back filling MoRT&H 2500															
6.1	Gradation		As required	328	328	0	93	0	0	0	0	328	328	0	93
6.2	Backfilling field density		1 test / 1000 m ³	48	48	0	36	0	0	0	0	48	48	0	36
7.0 Granular Bedding Material (For Structures-Ground Improvement) - Stock & Site Testing															
7.1	Gradation	Table 400-1	As required	178	178	0	38	11	11	0	2	189	189	0	40
7.2	Atterberg Limits	IS:2720 (Part5)	As required	178	178	0	38	11	11	0	2	189	189	0	40
7.3	Proctor	IS:2720 (Part8)	As required	130	130	0	19	1	1	0	0	131	131	0	19
7.4	CBR Test	IS:2720 (Part16)	As required	23	23	0	18	0	0	0	0	23	23	0	18
7.5	Aggregate Impact value	IS:2386 Part-4	As required	32	32	0	20	1	1	0	1	33	33	0	21
7.6	Field Density	IS:2720 (Part28)	As required	1945	1945	0	427	18	18	0	3	1963	1963	0	430
8.0 CTSB															
8.1	Gradation	Table 400-4	1 test/400m ³	410	410	0	100	0	0	0	0	410	410	0	100
8.2	Atterberg Limits	IS:2720 (Part5)	1 test/400m ³	408	408	0	98	0	0	0	0	408	408	0	98
8.3	Proctor	IS:2720 (Part8)	As required	17	17	0	15	0	0	0	0	17	17	0	15
8.4	Aggregate Impact value	IS:2386 Part-4	As required	115	115	0	66	0	0	0	0	115	115	0	66
8.5	Field Density	IS:2720 (Part28)	1 set of 2 Test per 500sqm	4741	4741	0	886	0	0	0	0	4741	4741	0	886
8.6	Specific gravity& Water absorption	IS:2386 (Part3)	As required	5	5	0	5	0	0	0	0	5	5	0	5
8.7	Cubes casting& Testing(Sets)	IRC SP 89 (2010)	a set of 3 specimens	953	953	0	199	0	0	0	0	953	953	0	199
8.8	CBR Test	IS:2720 (Part16)	As required	15	15	0	12	0	0	0	0	15	15	0	12

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 Mode.

Summary of Quality Control Report / Monthly Progress Report (QC) - MONTH : OCTOBER -2021

Sr. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month				Tests conducted during reporting month October 2021				Test conducted upto this month			
				No. of test Conducted	Passed	Failed	Nos. of test witnessed by IE	No. of test Conducted	Passed	Failed	Nos. of test witnessed by IE	No. of test Conducted	Passed	Failed	Nos. of test witnessed by IE
				9.0 WMM											
9.1	Individual / Combined Gradation	Table 400-3	1 test/200m ³	432	432	0	90	2	2	0	1	434	434	0	91
9.2	Aggregate Impact Value	IS:2386 Part-4	1 test/ 1000 m ³	262	262	0	59	2	2	0	1	264	264	0	60
9.3	Flakiness & Elongation Index	IS:2386 Part1	1 test/ 500 m ³	254	254	0	64	2	2	0	1	256	256	0	65
9.4	Atterberg Limits	IS:2720 (Part5)	1 test/200m ³	398	398	0	85	2	2	0	1	400	400	0	86
9.5	Proctor	IS:2720 (Part8)	As required	12	112	0	10	1	1	0	1	13	113	0	11
9.6	CBR	IS:2720 (Part16)	As required	11	11	0	9	0	0	0	0	11	11	0	9
9.7	Field Density	IS:2720 (Part28)	1 set Test per 1000 Sq.m / 3 pits	1545	1545	0	357	6	6	0	2	1551	1551	0	359
10.0 Dense Bituminous Macadam (Grade - II)															
10.1	Gradation	MORTH Section-500/Clause-507 & Table 500-10	One set for individual constituent and mixed aggregate from dryer for each 400 tonnes of mix subject to minimum of two Tests per day per plant	381	381	0	123	0	0	0	0	381	381	0	123
10.2	Flakiness & Elongation Index	IS: 2386 (Part 1)1963	1 Test for 350 m ³	127	127	0	48	0	0	0	0	127	127	0	48
10.3	Aggregate Impact Value Test	IS: 2386 (Part 4)1963	1 Test for 350 m ³	127	127	0	48	0	0	0	0	127	127	0	48
10.4	Binder content and grading of mix	IRC: SP 11-1988(APP-5)	One Test for each 400 tonnes of mix produced subject to a minimum of two test per day per plant	131	131	0	55	0	0	0	0	131	131	0	55
10.5	Marshall Stability of mix	ASTM D 2726/1188	3 Tests for stability flow value density and void contents for each 400 tonnes of mix subject to minimum of two Tests per plant per day	223	223	0	70	0	0	0	0	223	223	0	70
10.6	Core Cutting and Density Of Compacted Layer	Table 900-4 of Morth	1 set Test per 700 Sq.m / 1 pits	691	691	0	219	0	0	0	0	691	691	0	219
10.7	Sand Equivalent Test	IS: 2720 Part 37)1963	One Test for each each source	16	16	0	18	0	0	0	0	16	16	0	18
10.8	Los Angeles Abrasion Value	IS: 2386 (Part 3)1963	1 Test for 350 m ³	85	85	0	28	0	0	0	0	85	85	0	28
10.9	Stripping	IS : 6241	One Test for each each source	7	7	0	7	0	0	0	0	7	7	0	7
10.10	Retained Tensile Strength	AASHTO 284	One Test for each each source	8	8	0	8	0	0	0	0	8	8	0	8
10.11	Water absorption of Aggregates	IS:2386 (Part3)	One Test for each each source	3	3	0	1	0	0	0	0	3	3	0	1
10.12	Plasticity Index	IS: 2720(Part 5)	One Test for each each source	6	6	0	5	0	0	0	0	6	6	0	5
11.0 Bituminous Concrete Grade - (II)															
11.1	Gradation	MORTH Section-500/Clause-507 & Table 500-10	One set for individual constituent and mixed aggregate from dryer for each 400 tonnes of mix subject to minimum of two Tests per day per plant	192	192	0	43	0	0	0	0	192	192	0	43
11.2	Flakiness & Elongation Index	IS: 2386 (Part 1)1963	1 Test for 350 m ³	71	71	0	17	0	0	0	0	71	71	0	17
11.3	Aggregate Impact Value Test	IS: 2386 (Part 4)1963	1 Test for 350 m ³	71	71	0	17	0	0	0	0	71	71	0	17
11.4	Binder content and grading of mix	IRC: SP 11-1988(APP-5)	One Test for each 400 tonnes of mix produced subject to a minimum of two test per day per plant	101	101	0	30	0	0	0	0	101	101	0	30
11.5	Marshall Stability of mix	ASTM D 2726/1188	3 Tests for stability flow value density and void contents for each 400 tonnes of mix subject to minimum of two Tests per plant per day	521	521	0	26	0	0	0	0	521	521	0	26

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 Mode.

Summary of Quality Control Report / Monthly Progress Report (QC) - MONTH : OCTOBER -2021

Sr. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month				Tests conducted during reporting month October 2021				Test conducted upto this month			
				No. of test Conducted	Passed	Failed	Nos. of test witnessed by IE	No. of test Conducted	Passed	Failed	Nos. of test witnessed by IE	No. of test Conducted	Passed	Failed	Nos. of test witnessed by IE
				11.6	Core Cutting and Density Of Compacted Layer	Table 900-4 of Morth	1 set Test per 700 Sq.m / 1 pits	728	728	0	191	0	0	0	0
11.7	Sand Equivalent Test	IS: 2720 Part 37)1963	One Test for each each source	1	1	0	1	0	0	0	0	1	1	0	1
11.8	Los Angeles Abrasion Value	IS: 2386 (Part 3)1963	1 Test for 350 m ³	71	71	0	18	0	0	0	0	71	71	0	18
11.9	Stripping	IS : 6241	One Test for each each source	2	2	0	2	0	0	0	0	2	2	0	2
11.10	Retained Tensile Strength	AASHTO 284	One Test for each each source	2	2	0	2	0	0	0	0	2	2	0	2
11.11	Water absorption of Aggregates	IS:2386 (Part3)	One Test for each each source	2	2	0	2	0	0	0	0	2	2	0	2
11.12	Plasticity Index	IS: 2720(Part 5)	One Test for each each source	2	2	0	2	0	0	0	0	2	2	0	2
12.0 Bitumen test															
12.1	Absolute Viscosity at 60° C poise,Minimum	IS: 1206-1978 part-2	As per table 2 of IS 73-2013	139	139	0	43	3	3	0	1	142	142	0	44
12.2	Penetration Test at 25° C,100gr,0.1mm,5sec	IS: 1203-1978	As per table 2 of IS 73-2013	204	204	0	52	3	3	0	1	207	207	0	53
12.3	Softening point (R&B) Min	IS: 1205-1978	As per table 2 of IS 73-2013	230	230	0	59	8	8	0	1	238	238	0	60
12.4	Elastic Recovery of half thread in ductliometer at 15°C, Percent, min	IS:15462 -2019	As per table 2 of IRC SP 53	89	89	0	26	8	8	0	1	97	97	0	27
12.5	Separation, Difference In Softening Point (R&B)° C max	IS:15462 -2019	As per table 2 of IRC SP 53	89	89	0	26	8	8	0	1	97	97	0	27
12.6	Test on Residue from TFOT														
12.7	Viscosity ratio at 60° C max	IS: 1206-1978 part-2	1 Test per Lot	32	32	0	18	1	1	0	1	33	33	0	19
12.8	Ductility at 25° C ,cm,Min	IS: 1208-1978	1 Test per Lot	32	32	0	18	1	1	0	1	33	33	0	19
13.0 EMULSION SSI & RS1															
13.1	Saybolt furool Viscosity	IS: 13117	1 Test per Lot	27	27	0	16	0	0	0	0	27	27	0	16
13.2	Residue on 600 micron is sieve	IS: 8887	1 Test per Lot	27	27	0	16	0	0	0	0	27	27	0	16
13.3	Water Content, Percent by mass	IS: 8887	1 Test per Lot	27	27	0	16	0	0	0	0	27	27	0	16
14.0 EMULSION Prime coat & Tack Coat															
14.1	Rate of Spread of Binder	IRC: SP 16	Three test per Day	614	614	0	144	0	0	0	0	614	614	0	144
15.0 Coarse/Fine Aggregate MoRT&H 1007															
15.1	Gradation	IS:2386 (Part2)	As required	1138	1138	0	352	4	4	0	2	1142	1142	0	354
15.2	Specific gravity& Water absorption	IS:2386 (Part3)	As required	48	48	0	28	4	4	0	2	52	52	0	30
15.3	Aggregate Impact Value	IS:2386 (Part4)	As required	198	198	0	65	2	2	0	2	200	200	0	67
15.4	Flakiness Index	IS:2386 (Part1)	As required	196	196	0	63	2	2	0	2	198	198	0	65
16.0 Cement MoRT&H 1006															
16.1	Fineness	IS:4031 (Part1)	500mt (or) Every week	220	220	0	88	5	5	0	1	225	225	0	89
16.2	Normal Consistency	IS:4031 (Part4)	500mt (or) Every week	220	220	0	88	5	5	0	1	225	225	0	89
16.3	Initial,Final setting time	IS:4031 (Part5)	500mt (or) Every week	220	220	0	88	5	5	0	1	225	225	0	89
16.4	Soundness of Cement	IS:4031 (Part3)	500mt (or) Every week	158	158	0	71	5	5	0	1	163	163	0	72
16.5	Compressive Strength-set	IS:4031 (Part6)													
	3 days		500mt (or) Every week	243	243	0	95	4	4	0	1	247	247	0	96
	7 days		500mt (or) Every week	237	237	0	92	4	4	0	1	241	241	0	93
	28 days		500mt (or) Every week	238	238	0	71	5	5	0	1	243	243	0	72

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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Sr. No.	Description	IS Specification Clause	Frequency of Tests	Test conducted upto Previous month				Tests conducted during reporting month October 2021				Test conducted upto this month				
				No. of test Conducted	Passed	Failed	Nos. of test witnessed by IE	No. of test Conducted	Passed	Failed	Nos. of test witnessed by IE	No. of test Conducted	Passed	Failed	Nos. of test witnessed by IE	
				17.0 Concrete Cube Strength of Site Cubes 28 Days												
17.1	M15 PCC	IS:516 / IS:456	MORT&H Sec. 1700	1369	1369	0	385	10	10	0	2	1379	1379	0	387	
17.2	M20 PCC	IS:516 / IS:456	MORT&H Sec. 1700	46	46	0	15	0	0	0	0	46	46	0	15	
17.3	M20 RCC	IS:516 / IS:456	MORT&H Sec. 1700	370	370	0	39	0	0	0	0	370	370	0	39	
17.4	M20 KERB	IS:516 / IS:456	MORT&H Sec. 1700	559	559	0	125	0	0	0	0	559	559	0	125	
17.5	M25 RCC	IS:516 / IS:456	MORT&H Sec. 1700	265	265	0	64	7	7	0	1	272	272	0	65	
17.6	M30 RCC	IS:516 / IS:456	MORT&H Sec. 1700	2422	2422	0	628	35	35	0	5	2457	2457	0	633	
17.7	M30 RCC PUMPABLE	IS:516 / IS:456	MORT&H Sec. 1700	521	521	0	149	0	0	0	0	521	521	0	149	
17.8	M35 RCC	IS:516 / IS:456	MORT&H Sec. 1700	1035	1018	17	358	0	0	0	0	1035	1018	17	358	
17.9	M35 RCC PILING	IS:516 / IS:456	MORT&H Sec. 1700	2699	2699	0	949	0	0	0	0	2699	2699	0	949	
17.1	M35 RCC PUMPABLE	IS:516 / IS:456	MORT&H Sec. 1700	3822	3822	0	1189	114	114	0	17	3936	3936	0	1206	
17.11	M35 RE BLOCK	IS:516 / IS:456	MORT&H Sec. 1700	1916	1916	0	613	0	0	0	0	1916	1916	0	613	
17.12	M40 RCC	IS:516 / IS:456	MORT&H Sec. 1700	1277	1277	0	230	96	96	0	15	1373	1373	0	245	
17.13	M45 PUMP	IS:516 / IS:456	MORT&H Sec. 1700	543	543	0	135	10	10	0	2	553	553	0	137	
17.14	Cement Grout	IS:516 / IS:456	MORT&H Sec. 1700	23	23	0	5	5	5	0	1	28	28	0	6	
18.0 BENTONITE																
18.1	Density	MoRT&H Sec. 1115.2.3	As required	427	427	0	130	0	0	0	0	427	427	0	130	
18.2	Marsh Cone Viscosity			427	427	0	130	0	0	0	0	0	427	427	0	130
18.3	pH Value			427	427	0	130	0	0	0	0	0	427	427	0	130
18.4	Silt Content			15	15	0	6	0	0	0	0	0	15	15	0	6
18.5	Liquid Limit			18	18	0	7	0	0	0	0	0	18	18	0	7
19.0 Fine Aggregate MoRT&H 1008-(RE-Block)																
19.1	Grade / Sieve analysis	IS:2386 (Part1)	As required	728	728	0	223	0	0	0	0	728	728	0	223	
19.2	Fineness Modulus	MoRT&H Sec. 1008 & 383	As required	728	728	0	223	0	0	0	0	728	728	0	223	
19.3	Specific gravity & Water absorption	IS:2386 (Part2)	As required	24	24	0	12	0	0	0	0	24	24	0	12	
20.0 Coarse/Fine Aggregate MoRT&H 1007-(RE-Block)																
20.1	Gradation	IS:2386 (Part2)	As required	676	676	0	182	0	0	0	0	676	676	0	182	
20.2	Specific gravity& Water absorption	IS:2386 (Part3)	As required	27	27	0	19	0	0	0	0	27	27	0	19	
20.3	Aggregate Impact Value	IS:2386 (Part4)	1 test / each source & monthly	72	72	0	36	0	0	0	0	72	72	0	36	
20.4	Flakiness Index	IS:2386 (Part1)	1 test / each source & monthly	52	52	0	23	0	0	0	0	52	52	0	23	
21.0 DLC																
21.1	Gradation	MoRTH Section-601	1 test/400m ³	0	0	0	0	6	6	0	2	6	6	0	2	
21.2	Field Density	MoRT&H Sec. 903.5.1.	3 Sample for 2000 Sqm	0	0	0	0	9	9	0	3	9	9	0	3	
21.3	Cubes casting& Testing(Sets)	IS : 516	1 set for 1000 Sqm	0	0	0	0	9	9	0	3	9	9	0	0	
22.0 Steel Third Party																
22.1	8 mm Dia	IS 1786	Physical & Chemical Properties (1) Test on first lot.(2) Further supply will be provided with mtc. (3) As required by engineer.	20	20	0	11	0	0	0	0	20	20	0	11	
22.2	10 mm Dia	IS 1786		22	22	0	14	0	0	0	0	22	22	0	14	
22.3	12 mm Dia	IS 1786		25	25	0	14	0	0	0	0	25	25	0	14	
22.4	16 mm Dia	IS 1786		28	28	0	16	0	0	0	0	28	28	0	16	
22.5	20 mm Dia	IS 1786		22	22	0	10	0	0	0	0	22	22	0	10	
22.6	25 mm Dia	IS 1786		24	24	0	13	0	0	0	0	24	24	0	13	
22.7	32 mm Dia	IS 1786		10	10	0	5	0	0	0	0	10	10	0	5	
Remarks:																

7. Weather Report

Date	Temperature (Celsius)		Humidity (%)		Rainfall (mm)	Remarks
	Min	Max	Min	Max		
01-10-2021	27.4	30.9	77	90	2.00	Rainy
02-10-2021	27.7	32.2	57	90	7.00	Rainy
03-10-2021	28.8	38.2	56	91	3.00	Rainy
04-10-2021	27.5	34.1	64	91	47.00	Rainy
05-10-2021	28.5	31.9	83	92	0.00	Cloudy
06-10-2021	29.1	35.1	60	93	0.00	Cloudy
07-10-2021	27.1	37.3	57	89	72.00	Rainy
08-10-2021	28.0	36.8	55	90	2.00	Rainy
09-10-2021	27.0	34.5	64	90	5.00	Rainy
10-10-2021	27.0	37.2	54	90	67.00	Rainy
11-10-2021	27.2	36.6	57	91	12.00	Rainy
12-10-2021	27.2	35.5	59	91	0.00	Cloudy
13-10-2021	27.8	39.8	50	89	0.00	Sunny
14-10-2021	27.3	38.7	58	87	0.00	Sunny
15-10-2021	27.8	39.8	50	89	0.00	Sunny
16-10-2021	27.5	37.7	54	92	0.00	Sunny
17-10-2021	27.5	35.8	62	90	0.00	Sunny
18-10-2021	27.9	37.4	52	87	0.00	Cloudy
19-10-2021	28.6	38.1	50	91	45.00	Rainy
20-10-2021	27.5	34.5	62	88	0.00	Cloudy
21-10-2021	27.9	35.4	62	92	8.00	Rainy
22-10-2021	28.7	37.5	56	94	24.00	Rainy
23-10-2021	27.7	36.2	57	91	5.00	Rainy
24-10-2021	27.7	36.4	57	92	5.00	Rainy
25-10-2021	27.5	36.1	55	91	0.00	Cloudy
26-10-2021	27.6	36.6	54	92	0.00	Sunny
27-10-2021	27.6	36.4	50	92	0.00	Sunny
28-10-2021	32.1	26.4	62	92	25.00	Rainy
29-10-2021	26.1	31.0	79	94	46.00	Rainy
30-10-2021	28.5	35.3	66	92	10.00	Rainy
31-10-2021	28.0	30.5	88	93	39.00	Rainy

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

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

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

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

Further, based on the outcome of COVID-19 spread containment during 1st nationwide lockdown till 14th April' 2020 & condition of country as a whole, Ministry of Home Affairs (MHA), Govt. of India in exercise of powers conferred under Section 10(2)(I) of Disaster Management Act 2005, has issued an Order bearing no. 40-3/2020-DM-I(A), dated

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

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

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

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

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

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

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

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

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

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

15. Hindrances/Occupations/Land Acquisition issues in the following locations due to various reasons:-

Sl. No	From	To	Effectuated Length in (M)	Nature of Hindrance	Survey No	Name of Village	Name of Land Owner
1	138+400	138+480	520 m	Court Stay	4/4A	Thiruvallanzuli	Mr.Dharmalingam
2	138+500	138+540		Court Stay	-	Thiruvallanzuli	Mr.Shanmugam
3	138+750	138+850	500 m	Court Stay		Thiruvallanzuli	Mr.Dhahshnamoorthy, Mr.Rajini, Mr.nagaraj
Total Effectuated Length in Meters			1020				

16. The second wave of COVID-19 in India appears to be ascending faster than the first wave that peaked in mid-September last year. Nevertheless, India is already leading the world in terms of average daily cases detected and registers the third-highest average daily deaths. The whole country is facing big difficulties and struggling for the survival of human life. The impact of this event is an extremely painful and great loss to the nation. Looking to such an uncontrolled situation, Supreme Court intervened on 22.04.2021 and asked for the national plan for COVID-19 with the central Government and took own cognizance of what it called a national health emergency situation. The Health System has been collapsed due to the severe scarcity of oxygen. The spread of Coronavirus cases in Tamil Nadu right now is so fast, that it took only half the duration to overtake the daily infection peak number reported in the first wave.

Due to many restrictions in persisting conditions arise due to occurring of 2nd wave of Extra ordinary event COVID-19, the supply chain of required material is being disturbed and not in smooth shape which leads to hampering the work progress during this valuable working season. Due to surge in cases of 2nd wave of COVID-19 drastically day by day and additional lockdown like restriction imposing by State Government, migrants labours are leaving the state and going to their native place under the fear of prevailing situation. Further migrants labours who were gone to their home at Holi Festival are not returning back due to fear and precarious situation of the spike of COVID-19 pandemic. Due to this condition, we are facing acute shortage of labour/operator/driver for the construction activities in Project Highway and work is being affected because of the impediments beyond the control of the Concessionaire. It is also pertaining to mention that despite taking all necessary precaution and follow the safety guidelines of COVID-19, unfortunately, our many manpower including senior-level deployed at Project i.e. have been infected by COVID-19.

Table 10.1. Details of Important Events

Sl. No	Date of Events	Description of Events	Remarks
1	09.10.2021	Site Visit of Joint Adviser (Plantation)	
2	10.10.2021	Regional Officer, Madurai, NHAI Site Inspection	

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

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

Figure - 4 Organization Chart of EPC

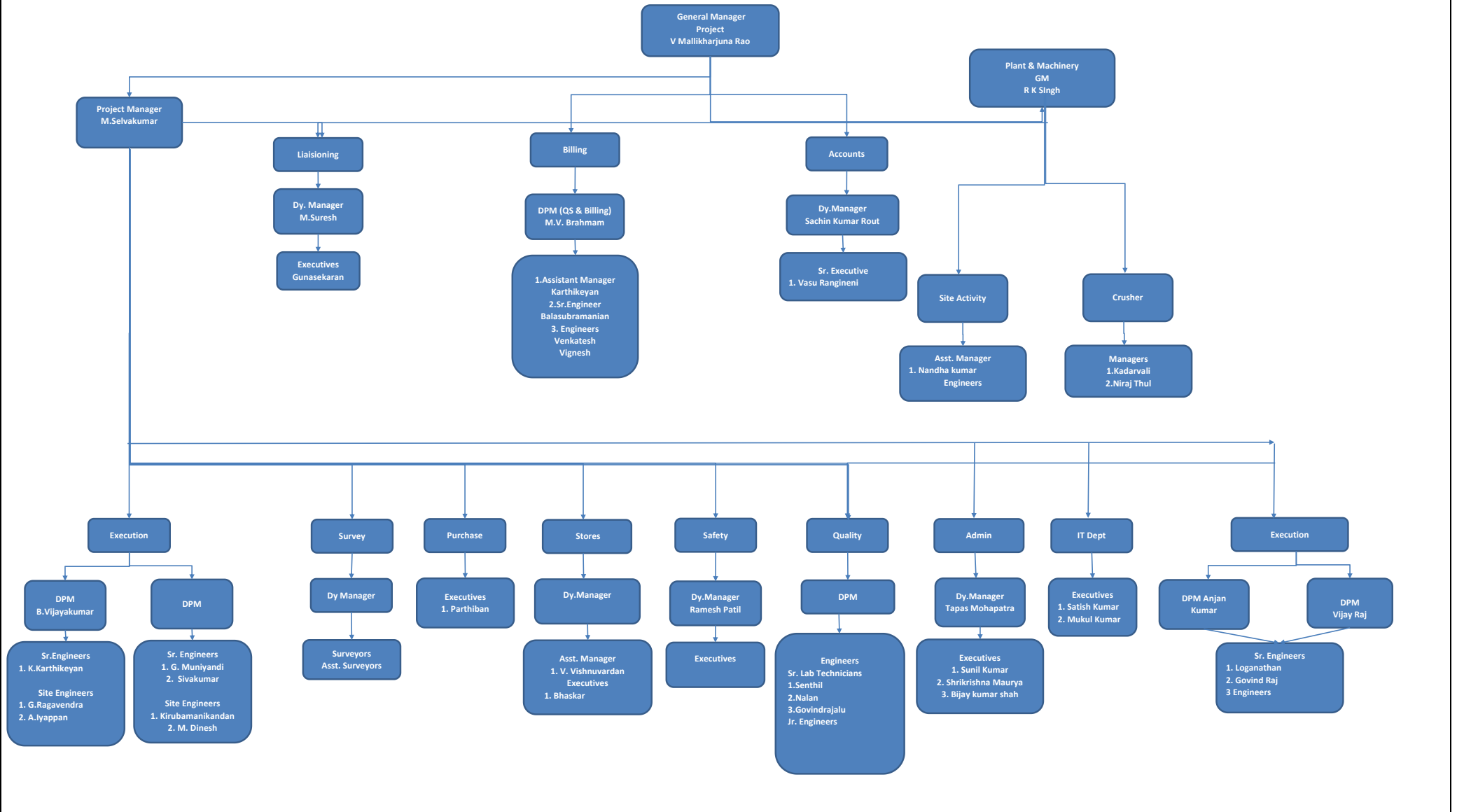
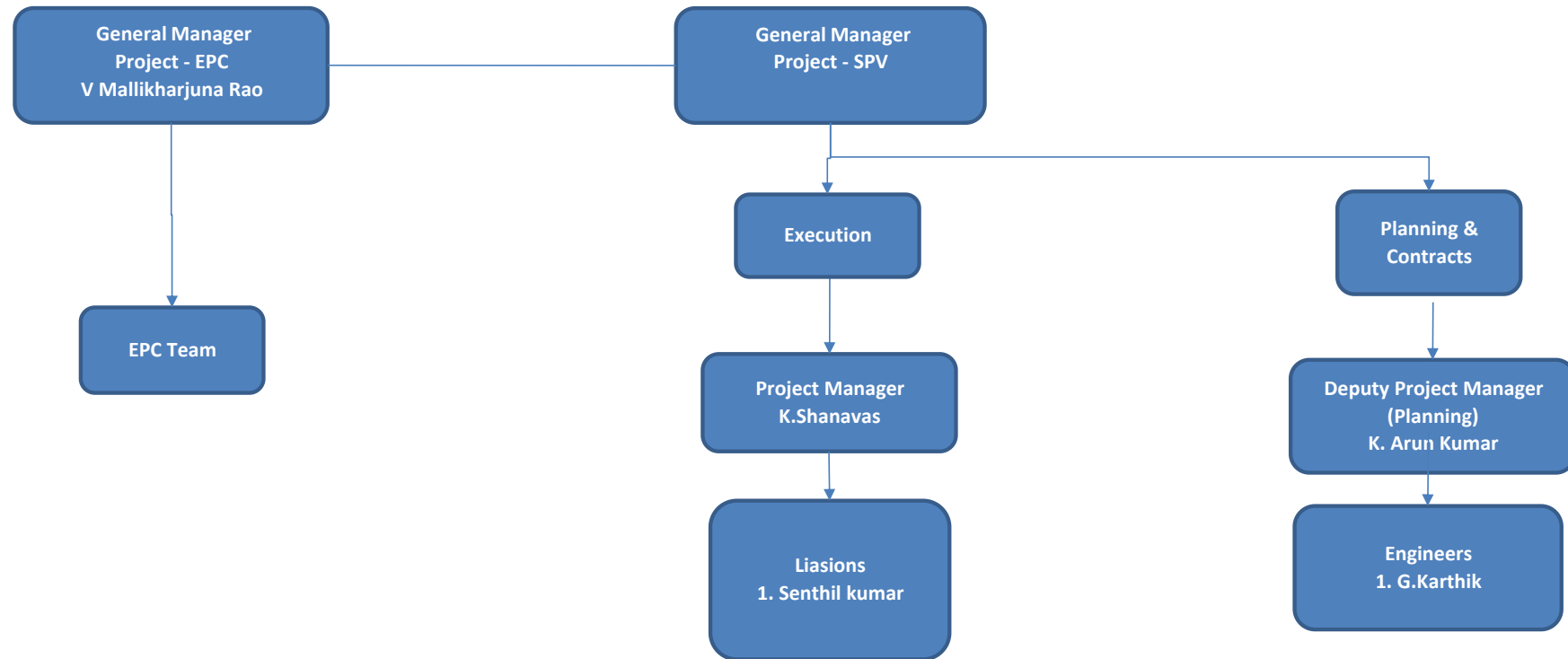


Figure - 5 Organization Chart of Concessionaire



12. List of Plants, Machinery and Equipment's

S.No	Name of the Machinery	Capacity / Model	Mobilized at Site	Remarks
1	Grader	120K2	7	
2	Excavator/JCB	JCB-220	14	
3	Dozer		4	
4	Soil Compactor	HAMM 311	8	
5	Backhoe Loader	JCB 3DX	5	
6	Tipper	Bharat Benz- 3128C	290	
7	Transit Mixer	2523C	11	
8	Loader	455 ZX	6	
9	Trailer		4	
10	Water Tanker		8	
11	Diesel Tanker		3	
12	Boom Placer	S-36	1	
13	Tractor	5036 D V-2	3	
14	Mobile Service Van		1	
15	Tower Light	AJASKY	3	
16	Hydra Crane		4	
17	Asphalt Batch Mix Plant		1	
18	Wet Mix Plant	250 TPH	1	
14	Concrete Batch Mix Plant 45 cum	45 cum	2	
15	Concrete Batch Mix Plant 60 cum	60 cum	1	
16	Crusher Plant (3 Stage)	250 TPH	4	
17	Weigh Bridge for Camp 100MT	100MT	4	
18	Weigh Bridge for Crusher 100MT	100MT	1	
19	Genset Base Camp	25KV	8	
20	Genset (Crusher) 63KVA	63KVA	6	
21	Genset (H.M & B/P)	82.50KV	3	
22	Genset (B/P-CP-45)	125KV	1	
23	Genset 650 KVA	650 KVA	1	
26	Genset (Crusher)	1010KVA	4	
27	Genset 15KVA	15KVA	6	

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 by the Authority.	3.76 Cr.	06.02.2020
2	Upgradation strengthening the Incident Management services.	10.05.2019	IE recommended to Authority vide ref.148 for issuance under COS and is under scrutiny with Authority	NA	NA
3	Comprehensive Change of Scope proposal	19.03.2019	In-Principle Approval obtained from the Competent Authority (9.40 Cr)	NA	NA
4	Interchanging of Structures	26.09.2020	In-Principle Approval obtained from the Competent Authority (-6.04 Cr)	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

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

TABLE 14.1 - CORRESPONDANCE - CONCESSIONAIRE TO NHAI

S.No	Date	Letter No	Subject	Remarks
1	04.10.2021	PCTHPL/CTP/NHAI/2021/1272	Approval of revised estimates for shifting of electrical utilities	
2	08.10.2021	PCTHPL/CTP/NHAI/2021/1278	Comissioning of Oxygen Plants near district Government hospitals	
3	12.10.2021	PCTHPL/CTP/NHAI/2021/1282	Submission of Extension Guarantee bond to 2nd mobilization advance bank guarantee	
4	17.10.2021	PCTHPL/CTP/NHAI/2021/1285	Material theft in Minitowers from Km 126+000 to 134+000	
5	25.10.2021	PCTHPL/CTP/NHAI/2021/1289	Maintenance of Existing road	
6	26.10.2021	PCTHPL/CTP/NHAI/2021/1291	Completion of Punchlist items -Placing of Boundary pillars in the PCOD Completed stretches - Request to depute LA surveyor for demarcation of actual acquired ROW	
7	31.10.2021	PCTHPL/CTP/NHAI/2021/1297	Construction activities of box culvert at km 120+346 has been stopped by local villagers	

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

TABLE 14.2 - CORRESPONDANCE - NHAI TO CONCESSIONAIRE

S.No	Date	Letter No	Subject	Remarks
1	07.10.2021	NHAI/PIU/Thanj/11015/15/2009/2486	Constitution of Chief ministers award -Best district collector and commissioner of Police -for the best performance on Road safety criteria for selection -report requested	
2	08.10.2021	NHAI/PIU/Thanj/11026/15/2019/2511	Issuance of provisional completion certificate as per clause 14.3 of Concession agreement-List of punchlist items proposed in completed stretch of 22.846 km and number of gaps	
3	11.10.2021	NHAI/PIU/Thanj/11017/03/2009/2536	Request to provide speed breakers -report called for	
4	11.10.2021	NHAI/PIU/Thanj/11026/28/2019/2539	Acquisition of land in valayapettai village of Kumbakonam Taluk-Psession to be taken request to Disconnect the EB connection	
5	11.10.2021	NHAI/11014/1/2018/ROMadurai/1949	Inspection Notes of Shri. T.V. Shivaji	
6	12.10.2021	NHAI/PIU/Thanj/11017/02/2007/2565	Acquisition of land in Kadakadappai Village-Removal of Metal Beam Crash barrier-requested	
7	16.10.2021	NHAI/PIU/Thanj/11019/51/2017/2539	Independent Consultancy Services for the month of July 2021 -50% Claim	
8	16.10.2021	NHAI/PIU/Thanj/11015/51/2009/2585	Constitution of Chief Minister's Award- Best District Collector and Commissioner of Police- for the best performance on Road Safety-Criteria for selection-report requested	
9	16.10.2021	NHAI/PIU/Thanj/11026/11/2018/2586	Removal of Dried trees – requested	
10	16.10.2021	NHAI/PIU/Thanj/11026/06/2018/2587	Acquisition of land in Kadakadappai Village-Removal of Metal Beam Crash barrier-Requested	
11	16.10.2021	NHAI/PIU/Thanj/11026/06/2018/2588	Request to provide median opening	
12	16.10.2021	NHAI/PIU/Thanj/11026/06/2018/2596	Cholapuram Town Panchayat – Construction of Bus Shelter- Permission requested	
13	20.10.2021	NHAI/PIU/Thanj/11017/01/2009/2622	Representation from Honble MP Mayiladuthurai parliamentary constituency -request to provide crossing facility-report submitted	
14	21.10.2021	NHAI/PIU/Thanj/11026/06/2018/2637	Acquisition of land in Nallur Village – Request approach to the NH road	
15	21.10.2021	NHAI/PIU/Thanj/11017/02/2009/2629	Maintenance of existing road stretch -complaints made -report called for	
16	21.10.2021	NHAI/PIU/Thanj/11026/06/2018/2638	Requested to provide speed breaker	
17	23.10.2021	NHAI/PIU/Thanj/11027/07/2009/2659	Utilization of Wet ash from TTPS,Thoothukudi for filling purposes - Requirement by Contractors/Concessionaires of NHAI in Madurai Region - Requested	

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

TABLE 14.3 - CORRESPONDANCE - CONCESSIONAIRE TO INDEPENDENT ENGINEER


S.No	Date	Letter No	Subject	Remarks
1	07.10.2021	PCTHPL/CTP/IE/2021/1275	Submission of Monthly progress report for the month of September 2021	
2	11.10.2021	PCTHPL/CTP/IE/2021/1281	Finalization of Location & directions for overhead gantry	
3	16.10.2021	PCTHPL/CTP/IE/2021/1284	Construction activities hampered due to unseasonal intermittent rains over the project highway -Notification	
4	21.10.2021	PCTHPL/CTP/IE/2021/1288	Submission of IPC as per clause 3.1 (iii) of Settlement Agreement	
5	26.10.2021	PCTHPL/CTP/IE/2021/1290	Submission of Method Statement for slope protection at Quadrant portion of culvert and bridges return wall with concrete & Geocell	
6	28.10.2021	PCTHPL/CTP/IE/2021/1293	Resubmission of IPC as per clause 3.1 (iii) of Settlement Agreement	
7	31.10.2021	PCTHPL/CTP/IE/2021/1295	Completion of punchlist items -Providing of pedestrian guardrails in builtup sections	
8	31.10.2021	PCTHPL/CTP/IE/2021/1296	Completion of punchlist items -Providing of Rainwater harvesting structure	

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

TABLE 14.4 - CORRESPONDANCE - INDEPENDENT ENGINEER TO CONCESSIONAIRE / NHAI

S.No	Date	Letter No	Subject	Remarks
1	01.10.2021	THEME/NHAI/CHO -TNJR/ATH/1021/595	Representation from Honble MP Mayiladuthurai parliamentary constituency -request to provide crossing facility	
2	01.10.2021	THEME/NHAI/CHO -TNJR/CON/1021/953	Road safety measures at palliagraharam Bypass -DE Thanjavur Letter-report requested	
3	07.10.2021	THEME/NHAI/CHO -TNJR/ATH/1021/603	Drainage System adequacy of drain work in the ongoing projects and finalization of drainage plan for the balance length - Compliance report	
4	11.10.2021	THEME/NHAI/CHO -TNJR/ATH/1021/605	Revised punchlist Items	
5	11.10.2021	THEME/NHAI/CHO -TNJR/CON/1021/954	Site visit of Joint Advisor (Plantation) on 09.10.2021	
6	12.10.2021	THEME/NHAI/CHO -TNJR/CON/1021/955	Finalization of Location & Directions for Overhead gantry	
7	13.10.2021	THEME/NHAI/CHO -TNJR/CON/1021/957	Review of monthly progress report for the month of September 2021	
8	13.10.2021	THEME/NHAI/CHO -TNJR/ATH/1021/608	Inspection report for the month of September 2021	
9	20.10.2021	THEME/NHAI/CHO -TNJR/CON/1021/960	Recification to be done for damaged earthen shouldrers due to unexpected monsoon rains	
10	20.10.2021	THEME/NHAI/CHO -TNJR/CON/1021/961	Site visit of joint adviser (Plantation) on 09.10.2021	
11	21.10.2021	THEME/NHAI/CHO -TNJR/CON/1021/963	Review of method statement for Avenue plantation	
12	21.10.2021	THEME/NHAI/CHO -TNJR/CON/1021/964	Mandatory Monthly Drone Video Recording of Project Highway during the development, construction, and O&M period-reg	
13	21.10.2021	THEME/NHAI/CHO -TNJR/CON/1021/965	Quadrantal pitching for Minor Bridges at Ch:122+058 and Ch:119+100	
14	21.10.2021	THEME/NHAI/CHO -TNJR/CON/1021/966	Construction activities hampered due to unseasonal intermittent rains over the Project Highway - Notification	
15	21.10.2021	THEME/NHAI/CHO -TNJR/ATH/1021/611	Compliance report for inspection notes of RO Madurai n 09.09.2021	
16	22.10.2021	THEME/NHAI/CHO -TNJR/ATH/1021/613	Grievance registered on the CPGRAMS portal regarding maintenance of NH45C	
17	22.10.2021	THEME/NHAI/CHO -TNJR/ATH/1021/614	Review of performance of concessionaire in implementation of Plantation 2021-22	
18	22.10.2021	THEME/NHAI/CHO -TNJR/CON/1021/968	Status of the Punch list and notice on slow progress in completing this works	
19	26.10.2021	THEME/NHAI/CHO -TNJR/ATH/1021/617	Service road construction with insufficient width due to non availability of land	
20	26.10.2021	THEME/NHAI/CHO -TNJR/CON/1021/971	Safety at construction site and Diversion road maintenance	
21	26.10.2021	THEME/NHAI/CHO -TNJR/CON/1021/972	Replace the dead / theft plants in Median and Avenue Plantation	
22	26.10.2021	THEME/NHAI/CHO -TNJR/ATH/1021/618	Requested to provide speed breakers	
23	27.10.2021	THEME/NHAI/CHO -TNJR/ATH/1021/620	Cholapuram Town Panchayat – Construction of Bus Shelter- Permission requested	
24	28.10.2021	THEME/NHAI/CHO -TNJR/ATH/1021/621	Notifiation of unstable Arch at Palliagraharam By pass junction	
25	28.10.2021	THEME/NHAI/CHO -TNJR/CON/1021/975	Submission of IPC as per clause 3.1(iii) of Settlement Agreement dated 04.03.2021	
26	28.10.2021	THEME/NHAI/CHO -TNJR/CON/1021/976	Slow Progress in achieving the Project Targets as per Settlement Agreement	
27	28.10.2021	THEME/NHAI/CHO -TNJR/CON/1021/977	Negative COS for Bus Shelter at Ch 123+200 LHS	
28	29.10.2021	THEME/NHAI/CHO -TNJR/CON/1021/978	Change of Scope-II and Change of Scope-III detailed proposal requested as per Clause 16.2.3 of Concession Agreement	
29	29.10.2021	THEME/NHAI/CHO -TNJR/ATH/1021/622	Reconfirmation of electrical shifting requirement	

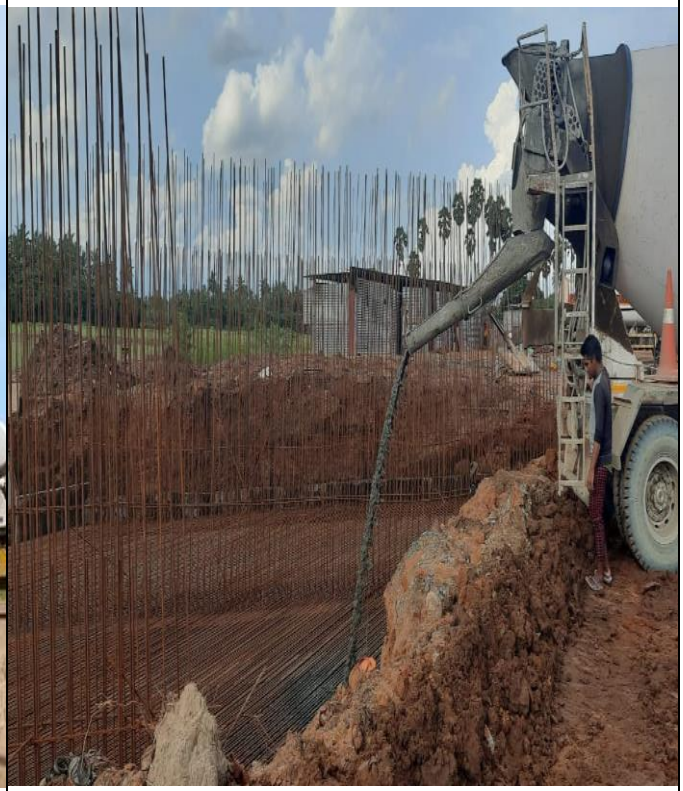
15. Progress Photographs

Sl. No	Description	Location	Side	Remarks
1.	WMM COMPLETED	159+600 to 159+700	RHS	
				

Sl. No	Description	Location	Side	Remarks
2.	DBM COMPLETED	159+500 to 159+700	LHS	



Sl. No	Description	Location	Side	Remarks
3.	MNB-RETAINING WALL WORK IN PROGRESS	153+557	RHS	
4.	MNB-FOUNDATION WORK IN PROGRESS	152+911	LHS	



Sl. No	Description	Location	Side	Remarks
5.	MJB P.S.C. GIRDER CASTING WORK IN PROGRESS	156+584		



Sl. No	Description	Location	Side	Remarks
6.	MJB PIER CAP WORK IN PROGRESS	156+584	LHS	



Sl. No	Description	Location	Side	Remarks
7.	STONE PITCHING WORK IN PROGRESS	119+100	BHS	
8.	AVENUE PLANTATION COMPLETED	142+400	CEN	



Sl. No	Description	Location	Side	Remarks
9.	INSTALLMENT OF DELINEATOR COMPLETED	119+200	BHS	
10.	INSTALLMENT OF SOLAR BLINKER COMPLETED	144+050	CEN	



Sl. No	Description	Location	Side	Remarks
11.	SLOPE PROTECTION ALONG WITH AVENUE PLANTATION WORK IN PROGRESS	146+500	RHS	
12.	BUS BAY ALONG WITH BUS SHELTER COMPLETED	121+750		



Sl. No	Description	Location	Side	Remarks
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13.

INFORMATORY SIGN BOARD FIXING WORK
IN PROGRESS

163+700

RHS

