Four Laning of Badarpur-Churaibari section of NH-37 & NH-8 from Design chainage 38.600 (End of Proposed Badarpur Bypass) to Km. 62.800 (Start of Proposed Nilambazar/ Cheragi Bypass) in the state of Assam (Package-IV) on HAM mode.

Monthly Progress Report

July - 2026



Authority	NHIDCL BUILDING INFRASTRUCTURE - BUILDING THE NATION	National Highways Infrastructure Development Corporation Limited
Independent Engineer	AGNITIO	M/s Agnitio Infrastructure Projects Pvt. Ltd. in JV with M/s Ayoleeza Consultants Pvt. Ltd.
Concessionaire	MKC Since-1963	MKC Badarpur Churaibari Kamakhya (PKG-4) Highways Pvt. Ltd.

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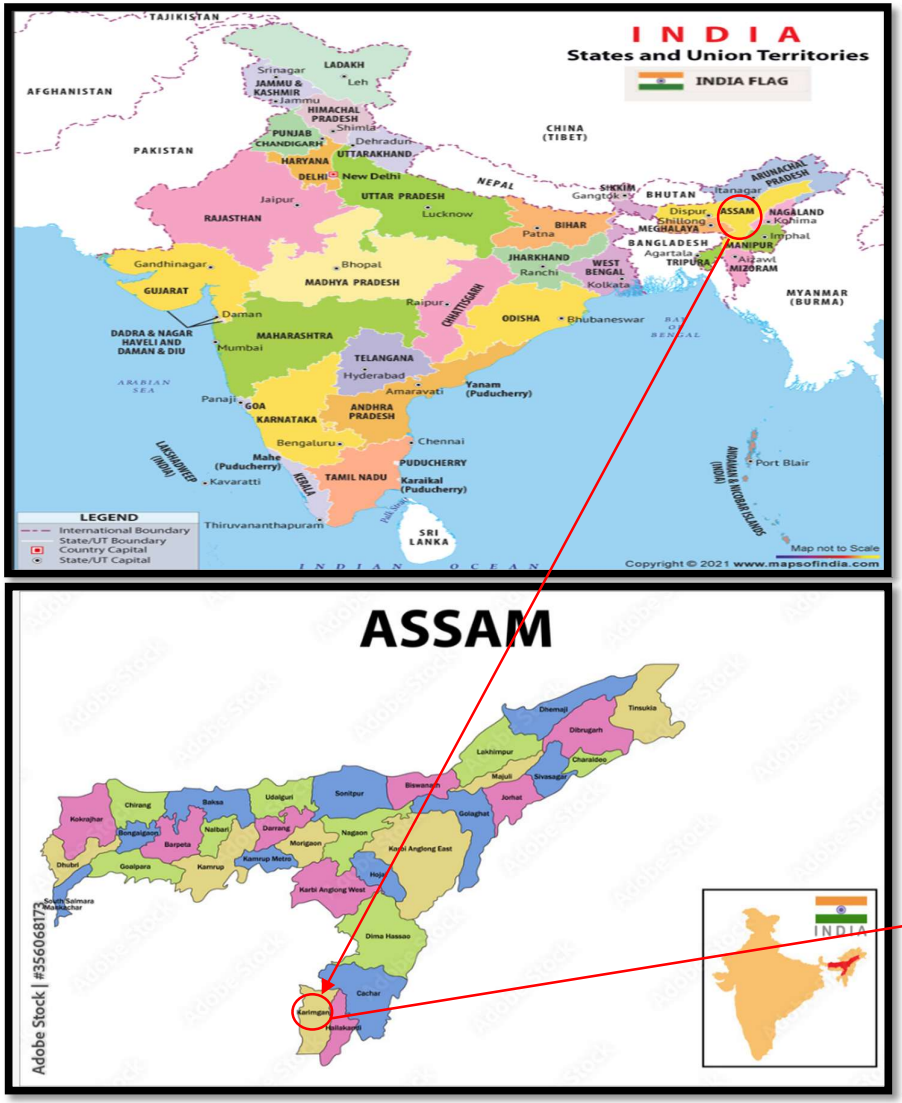
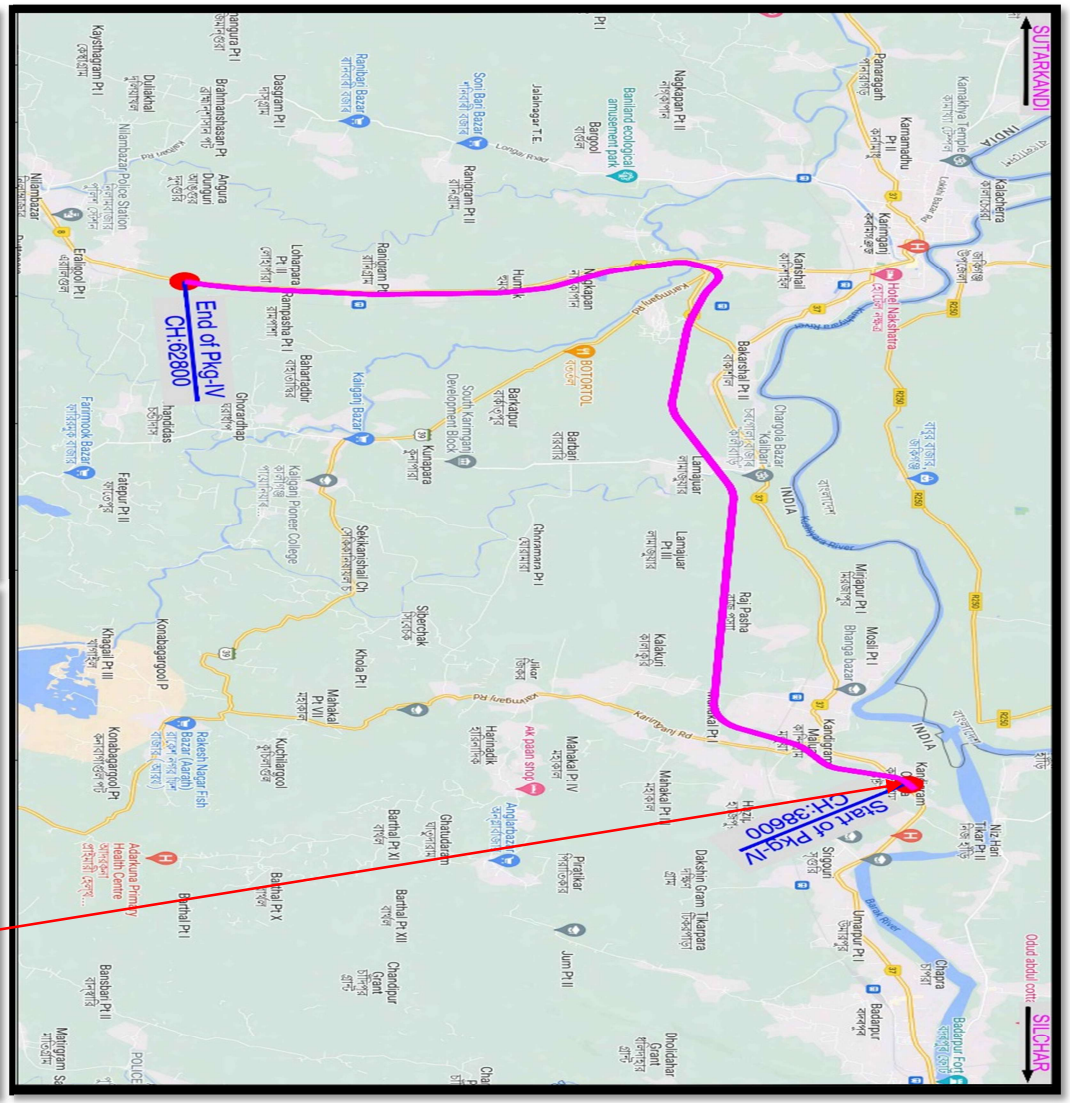
Four Laning of Badarpur-Churaibari section of NH-37 & NH-8 from Design chainage 38.600 (End of Proposed Badarpur Bypass) to Km. 62.800 (Start of Proposed Nilambazar/ Cheragi Bypass) in the state of Assam (Package-IV) on HAM mode.

PROJECT LOCATION MAP / INDEX MAP





EXECUTIVE SUMMARY

The Concessionaire has signed the Concession Agreement with National Highway Infrastructure Development Corporation Limited (NHIDCL) on dated September 17, 2024. This Executive Summary presents the works progress of the Project Highway during the construction period from August 18, 2025 to August 18, 2027.

1. **The Project Road:**

   Four Laning of Badarpur-Churaibari section of NH-37 & NH-8 from Design chainage 38.600 (End of Proposed Badarpur Bypass) to Km. 62.800 (Start of Proposed Nilambazar/ Cheragi Bypass) in the state of Assam (Package-IV) on HAM mode.

2. **Mobilization:**

   The Concessionaire has mobilized the required Engineers/ Staff Personnel, Machineries/Equipment's, Plants and established main Base Camp at CH: - 55+200 RHS (Sharifnagar).

   The details of Key staff personnel deployed are highlighted in the Chapter-6 of this report. The details of deployed Plants and Machineries are included in Chapter-7 of this report.

3. **Pre-Construction Activity:**

   The Details of pre-construction activities have been included in Chapter-5 of this report.

4. **EPC Contractor:**

   MKC Infrastructure Limited

5. **Design and Drawing**

   The details of design and drawing status have been included in this report on Chapter 8.

6. **Work Program:**

   At the time of commencement of works, the Concessionaire submitted the Stage wise completion schedule Work Program Vide Letter No. MKCIL/ASSAM/PKG-04/414, dated 18.12.2025 for Authority/ IE's approval. Based on the monthly works plan, the works is being carried out by the Concessionaire.

7. **Quality Control and Material:**

   The works is being carried out by the Concessionaire as per Quality Assurance Plan submitted to Authority Vide Letter MKCIL/ASSAM/PKG-04/167 on dated 05.08.2025. Each construction activity is being checked/verified as per the RFI's submitted to Authority/ IE by the Concessionaire.

8. **Supervision and Monitoring of Project works:**

   The Authority/ IE along with the concessionaire is supervising and monitoring the execution of works as per requirements of Standard/ Specifications. The monitoring of works is being carried out through the RFI submitted by the Concessionaire and its approval/ rejection after necessary checking/ verification by the Authority/ IE.

9. Site Visit and Meeting:

The Authority/ IE are regularly visiting the Project Highway.

10. Schedule Completion Date:

As per Schedule-G of the Concession Agreement shall occur on the 730th day from the Appointed Date. The declared Appointed Date being August 18, 2025, the Scheduled completion Date shall occur on August 18, 2027.

11. Operation and Maintenance (O&M):

O&M Obligations – During Operation Period, the Concessionaire shall operate and maintain the project in accordance with this Agreement either by itself, or through the O&M Contractor and if required, modify repair or otherwise make improvements to the Project to comply with the provisions of this Agreement, Applicable Laws and Applicable Permits, and conform to Specifications and Standards and Good industry Practice. The obligations of the concessionaire shall be as per Article 17.

12. Area of Concern/ Availability of site for work:

Procurement of ROW- The existing ROW and the stretches of 24.20 km. are subjected to following:

a) Stretches/ Hindered Free Land 20.05 Km out of 24.20 Km:

Stretches/ Hindered Free Land				Encumbrances/ Hindered Land		
Sr. No.	**Side**	**Length (Km)**	**%**	**Side**	**Length (Km)**	**%**
1.	BHS	20.05	82.88%	BHS	4.15	17.12%

b) Hindered due to Tree Cutting:

Description	Total Nos.	Total Tree Cutting	Balance	Impacted Length (km)	Remarks
Total Trees	648	433	215	6.0	

c) Encumbrances due to Religious Structure:

Sr. No.	Types	Chainage	Side	Village	Remarks
1	Tree Tample	40+000	RHS	Kankalesh Part-I	
2	Masjid	50+800	RHS	Nathupur Part-I	
3	Danptra (Masjid)	55+200	RHS	Saidambor Part-I	
4	Sani Mandir (ROW)	56+200	LHS	Saidambor Part-II	
5	Danptra (Kali Mandir)	56+550	LHS	Saidambor Part-II	
6	Kali Mandir	56+800	RHS	Saidambor Part-II	
7	Sahid Smark	58+875	LHS	Umarpur Part-II	

8	Sani mandir & Pipal	58+975	RHS	Umarpur Part-II	
9	Kali Mandir	59+750	RHS	Umarpur Part-III	
10	Satsang bhawan	60+030	RHS	Umarpur Part-III	
11	Hajrat ali Masjid	61+800	RHS	Berajal	
12	Kali Mandir	62+800	LHS	Bhuja	

d) Details of Hidered Land:

DETAILS OF ENCUMBRANCES WITHIN ROW					
Sr. No	**Chainage**		**Side**	**Total Length (KM)**	**Description**
	From	**To**			
1.	40+000	40+200	BHS	200.000	Residencial & Boundary Wall
2.	40+550	40+650	BHS	100.000	Building and other Zirats
3.	41+400	41+700	RHS	300.000	House and Boundary Wall
4.	43+000	43+200	BHS	200.000	Pond/ shades
5.	48+350	48+900	BHS	550.000	Residential Building
6.	50+800	50+850	RHS	50.000	Residential Building
7.	52+920	53+000	BHS	80.000	Office Building
8.	53+700	53+900	RHS	200.000	Assam Type House
9.	54+360	54+400	RHS	40.000	Assam Type House/ Tin Shade
10.	54+700	55+100	LHS	400.000	Assam Type House/RCC Building
11.	55+220	55+270	BHS	50.000	Assam Type House/RCC Building
12.	55+540	55+580	RHS	40.000	Assam Type House/RCC Building
13.	55+670	55+700	RHS	30.000	Assam Type House/RCC Building
14.	56+120	56+200	BHS	80.000	Assam Type House/RCC Building
15.	56+510	56+550	BHS	40.000	Assam Type House/RCC Building
16.	56+800	56+900	RHS	100.000	Assam Type House/RCC Building
17.	57+100	57+130	BHS	30.000	Assam Type House/RCC Building
18.	57+600	57+660	RHS	60.000	Assam Type House/RCC Building
19.	57+950	58+000	LHS	50.000	Assam Type House/RCC Building
20.	58+030	58+080	BHS	50.000	Assam Type House/RCC Building
21.	59+400	59+960	BHS	560.000	Assam Type House/RCC Building
22.	60+000	60+250	RHS	250.000	Assam Type House/RCC Building
23.	60+300	60+550	RHS	250.000	Assam Type House/RCC Building
24.	60+580	60+610	RHS	30.000	Assam Type House/RCC Building
25.	60+780	60+880	RHS	100.000	Assam Type House/RCC Building
26.	60+980	61+000	RHS	20.000	Assam Type House/RCC Building
27.	61+400	61+550	RHS	150.000	Assam Type House/RCC Building
28.	61+780	61+810	RHS	30.000	Assam Type House/RCC Building
29.	62+030	62+060	RHS	30.000	Assam Type House/RCC Building
30.	62+250	62+400	RHS	150.000	Assam Type House/RCC Building
31.	62+500	62+560	RHS	60.000	Assam Type House/RCC Building
Total Hindered Length				**4150.00**	

13. Current Issues:-

The reference and notice issues mentioned below have been considered as hinderances that are directly affecting the Concessionaire's progress, achievement of various milestones, and cash flow:

a) Pavement Design:- The pavement design is yet to be finalized by the IE/Authority, which has resulted in a gradual slowdown in the overall progress of the project.

b) Non-availability of land: - As per the Concession Agreement, 100% of the land is to be handed over to the Concessionaire within 90 days from the Appointed Date. However, only approximately 80.58% of the land is currently free from encumbrances(refer the Concessionaire's letter no. MKCIL/ASSAM/PKG-04/574 dated 28.02.2026)

c) <u>As per Joint Handover Memorandum (Appendix-I) dated 18.08.2025</u>

SUMMARY OF LAND ACQUISITION & CLEARANCES

Sl. No	Total Land Required (in Ha)	Available Land (in Ha)	Remaining Land (In Ha)	% Available Land	Hindrance free length (in Km)	% Available Hindrance free length
1	138.06	113.78	• 3A- 19.37 Ha • 3G- 4.91 Ha	82.41%	19.500 Km	80.58%

Note: The hindrance free length is calculated based on the right of way required against construction zone. **M/s MKC Badarpur Churaibari Kamakhya (Pkg-4) Highways Pvt. Ltd.** will not claim any damages from the Authority as specified in Cl 4.2 of Concession Agreement for the period delay and time extension in accordance with Cl 4.1.2 of Concession Agreement.

Authorized Representative:

Ashwani Kumar Pandey

M/s MKC Badarpur Churaibari Kamakhya (Pkg-4) Highways Pvt. Ltd.

Date: 18/08/25

Place: Karimganj.

General Manager(P)

18.8.2025

PMU-Karimganj
NHIDCL
General Manager (P)
NHIDCL, PMU-Karimganj
Karimganj, Assam

d) Existing Road Maintainance: One time tender flotating decision for maintenance of the existing road is pending by the end of the Authority.

The Concessionaire has submitted its concern regarding the deteriorated condition of the existing road and clarified that it has only a limited scope of work, which includes only pothole repairs. During the meeting held at HQ, NHIDCL, New Delhi under the chairmanship of the MD (NHIDCL), this issue was acknowledged by the Hon'ble MD (NHIDCL), who directed the PMU and RO to float a one-time tender for the maintenance of the existing road.

e) **Non-Permission from PWD Authorities:** - The Concessinaire has submit it concern regaiding the permission for using the PWD rural roads for carrying of forest materials under Bharat Mala Project vide letter no. MKCIL/ASSAM/PKG-04/056 dated 26.02.2025.

It is essential to transport forest materials such as aggregates, soil, sand, and other construction materials from the designated quarry and borrow areas to the project site.

These materials are to be transported through certain PWD rural roads, as these routes form the only available access between the material sources and the construction stretch.

However, the Karimganj PWD Divisional Officer has restricted the movement of construction vehicles carrying these materials through the said rural roads, which has caused a significant hindrance to the ongoing project works and may adversely affect the overall project timeline.

CHAPTER-1

INTRODUCTION

General

The NHIDCL proposes to implement the development, maintenance, and management of National Highway No. 37 & NH-8 strech from end of Badarpur Bypass to Nilambazar/Cheragi Bypass Km. 38.600 to Km. 62.800 into 4-lane access controlled corridor. The proposed project road has been selected to improve connectivity and reduce travel time from Assam to Tripura. Also, this connectivity will improve international road connectivity between India and Bangladesh. To achieve the above task, NHIDCL has appointed M/s. Aarvee Associates Architects Engineers and Consultants Pvt. Ltd. The Letter of Acceptance was communicated vide letter No. NHIDCL / Assam / DPR / SilcharChuraibari /222542/ 2581 and the agreement was signed on September 1, 2023.The entire project is divided into 5 packages.

This executive summary is submitted along with the Final detailed project report to cover the key aspects of the project.

Project Overview

As described earlier the project road strech from end of Badarpur Bypass to Nilambazar/ Cheragi Bypass. The proposed alignment passes through Karimganj district in the state of Assam connecting villages Kandigram, Sharifnagar, Nagkapan, Ranigram, Loharpara, Etc.

CHAPTER-2

CONTRACT DATA

Sr. No.	Items	Description
1.	**Name of Project**	Four Laning of Badarpur-Churaibari section of NH-37 & NH-8 from Design chainage 38.600 (End of Proposed Badarpur Bypass) to Km. 62.800 (Start of Proposed Nilambazar/ Cheragi Bypass) in the state of Assam (Package-IV) on HAM mode.
2.	**Project Length**	24.200 km
3.	**Project Bid Cost**	554.16 Cr.
4.	**Authority**	National Highways & Infrastructure Development Corporation Limited
5.	**Independent Engineer**	Agnitio Infrastructure Projects Pvt. Ltd. In JV with Ayoleeza Consultant Pvt Ltd.
6.	**Concessionaire**	MKC Badarpur Churaibari Kamakhya (PKG-4) Highways Private Limited
7.	**Design Consultant**	MKC Infrastructure Ltd.
8.	**DPR Consultant**	Aarvee Associates Architects Engineers & Consultants Pvt. Ltd.
9.	**LOA No. & Date**	NHIDCL/Procurement/Assam/2023-24/228965/3085 dated 11.03.2024
10.	**Date of Concession Agreement**	September 17, 2024
11.	**Appointed Date**	August 18, 2025
12.	**Construction Period**	730 days (from Appointed Date) [24-Months]
13.	**Schedule Completion Date**	August 18, 2027
14.	**O&M Period**	15 Years from the date of COD

15.	**Project Milestone**	
	Milestone- I **(Achieved on 08.05.2026)**	The Project Milestone-I shall occur on the date falling on the 256th (two hundred and fifty sixth) day from the Appointed Date **(i.e., May 01, 2026)-** (The concessionaire shall have expended not less than 20% of the total capital cost set forth in the Financial Package and the Concessionaire shall have commenced construction of the Project and achieved 20% Physical Progress)
	Milestone- II	**438th Day from Appointed Date (i.e., October 30, 2026)**- (Prior to the occurrence of Project Milestone-II, the Concessionaire shall have expended not less than 35% of the total capital cost set forth in the Financial Package. Provided, however, that at least 70% of the expenditure referred to hereinabove shall have been incurred on physical works which shall not include advances of any kind to any person or expenditure of any kind on plant and machinery and the concessionaire shall have commenced construction of the project and achieved 35% Physical Progress.).
	Milestone- III	**620th Day from Appointed Date (i.e., April 30, 2027)** (The concessionaire shall have commenced construction of all Project Facilities and expended not less than 75% of the total capital cost set forth in the Financial Package and the concessionaire shall have commenced construction of the Project and achieved 75% Physical Progress).
	Scheduled Completion Date	**730th Day from Appointed Date (i.e., August 18, 2027)** The concessionaire shall have completed the Project in accordance with the Concession Agreement.

CHAPTER -3

SALIENT FEATURES OF PROJECT HIGHWAY

3.1 Pavement Composition (For Main Carriage Way/ Service Road)

Section	Design Chainage		Stretch in Km.	Pavement Composition in mm.						
	From	To		Sub-Grade	R-GSB	R-WMM	DBM	BC	DLC	PQC
MCW	38+600	62+800	24.200	500.00	200.00	190.00	50.00	30.00	-	-
				Sub-Grade	**GSB**	**R-WMM**	**BC**	**-**		
Service Road				500.00	200.00	185.00	30.00	-		

3.2 Details of New/ Widening of Structures and Project Facilities to be constructed along the project Highway:

Sr. No.	Description		Unit	As per CA	Remarks
1.	Railway over Bridge	New Construction	Nos.	2	
2.	Major Bridge	New Construction	Nos.	2	
3.	Minor Bridge	New Construction	Nos.	10	
		Widening and Retained	Nos.	3	
4.	VUP	New Construction	Nos.	5	
5.	LVUP	New Construction	Nos.	4	
6.	SVUP	New Construction	Nos.	0	
7.	Box Underpass	New Construction	Nos.	7	
8.	Box Culvert	New Construction	Nos.	43	
		Reconstruction	Nos.	0	
9.	Hume Pipe Culvert	New Construction	Nos.	0	
10.	Bus Bay		Nos.	1	
11.	Major Junction		Nos.	3	
12.	Minor Junction		Nos.	7	
13.	Cross Road		Nos.	30	
14.	W-beam Single faced metal crash barrier		Rmt.	31092	
15.	Drain (covered)		Rmt.	5300	

CHAPTER -4

SCOPE OF THE WORKS AND PROJECT FACILITIES

4.1 Scope of Works

The Schedule-B of the Concession Agreement specifies the scope of works. The broad scope of the works includes the following:

- Reconstruction of existing 2 lane carriageway to 4 lane divided carriageway including strengthening existing carriageway by providing bituminous overlays in accordance with the Specifications and Standards.
- Construction of 2- ROB, 2- Major Bridge, 13- Minor Bridge, 16- Underpasses, 43- Culverts.
- Construction of Slip Road of 6.290 Km
- Construction of Service Road of 0.860 Km

4.2 Project Facilities

The Schedule-C of the Concession Agreement specifies the project facilities to be constructed for the project highway. The project facilities include the following:

a) Toll Plaza
b) Roadside Furniture
  i. Kilometer and Hectometer Stones
  ii. Traffic Signs
  iii. Overhead Sign
  iv. Road Marking
  v. Road Delineators
  vi. Reflective Pavement Markers & Solar Studs
  vii. Traffic Impact Attenuators
  viii. Boundary wall and Fencing
c) Operation and Maintenance centres
d) Way side Amenities/ Service Areas
e) Bus Bay and Bus Shelter
f) Pedestrain Facilities
g) Highway Lighting
h) Rainwater Harvesting
i) Environmental Management Plan
j) Advanced Traffic Management System (ATMS)
k) Highway Petrol Unit
l) Emergency Medical Services
m) Crane Services

CHAPTER -5

PRE-CONSTRUCTION ACTIVITIES

5.1 Obligations

Obligations of Authority-

Sr. No.	Clause No.	Obligation	Status	Remark/ Reference
1	Clause 4.1.2	Condition Precedent	Completed	
2	Article 11	Utilities, Associated Roads and Trees	In Progress	
3	Clause 18.1.2	Safety Consultant	Not Done	
4	Article 21	Appointment of Independent Engineer	Appointed	
5	Clause 10.3	Joint Memorandum	Executed	

Obligations of Concessionaire-

Sr. No.	Clause No.	Obligation	Status	Remark/ Reference
1	Clause 9.1	Performance Security	Submitted	
2	Article 11	Shifting and Relocation Electrical Utilities	In-Progress	
3	Article 26	Insurance	Done	
4	Clause 4.1.3 (Schedule-E)	Applicable Permits	Done	
5		A permission of State Govt. for boulders extraction	Done	
6		Permission of Village Panchayet and Pollution Board for installation of crushers	Done	
7		License for use of explosives	N.A	
8		Permission of the State Govt. from drawing water from river/ reservoir	Done	
9		Labour Licence	Done	
10	Clause 12.1	Quality Assurance Plan	Done	MKCIL/ASSAM/PKG-04/168
11		Construction Methodology	Done	MKCIL/ASSAM/PKG-04/168

5.2 Shifting of Utilities

The project works includes shifting/relocation of various utility services along the project road. The details of the utilities/ Hindrances are required to be shifted/ relocated/ removed along the Project Highway is summarized below:

Sl. No.	Utility/ Hindrance Type	Unit	Scope Qty.	Status	Remarks
1.	HT/ LT Lines (including Transformer if any)	Kms	24.20	In Progress	
2.	HT/ LT crossing	Nos.	85	In Progress	
3.	Water Pipelines	Kms	9.07	In Progress	
4.	Water Pipeline Crossing	Nos.	11	In Progress	

5.3 Tree Cutting

The tree cutting status is given below for the project highway.

Sr. No.	Description	Total	Remarks
1.	Total Number of Trees	648	
2.	Total Felling of Trees	433	
3.	Balance Trees	215	

5.4 Land Acquition

As appended above in executive summary, Serial no. 13.

CHAPTER -6

MOBILIZATION

6.1 Manpower Mobilization of Concessionaire

Sr. No.	Name of Employee	Designation	Department
1	Satish Kumar Pandey	AVP	Project Execution
2	Manoj Kumar Singh	Sr. Project Manager	Project Execution
3	Ajeet Kumar Jaiswal	Dupty Mananger	HR & Admin
4	Dhirendra thapa	Assistant Manager	HR & Admin
5	Manish Dixit	Executive	HR & Admin
6	Vinay Ram Dubey	Manager	Liaisoning
7	Deepak Sharma	Executive	Liaisoning
8	Rishu Kumar	Sr. Engineer	Electrical
9	Ashish Panwar	Engineer	Billing & Planning
10	Tarun Kumar	Jr. Engineer	Billing & Planning
11	Prabir Samanta	Asst. Manager	Highway
12	Navin Kumar	Senior Engineer	Highway
13	Arya Yadav	Engineer	Highway
14	CHANDRAKANT	Supervisor	Highway
15	Shivam Kumar	Engineer	Highway
16	Ram Kumar Mandl	Engineer	Highway
17	Om Prakash Yadav	Engineer	Highway
18	Alok Kumar	Engineer	Highway
19	NITISH KUMAR	Supervisor	Highway
20	Dinesh Gehlot	Manager	Structure
21	SANTOSH SINGH	Dy Manager	Structure
22	Manmotha Mondal	Asst Manager	Structure
23	LOKESH SAHU	Sr. Engineer	Structure
24	Rakesh Kumar Singh	Engineer	Structure
25	Indrajit Samanta	Engineer	Structure
26	Agniva Mallick	Engineer	Structure
27	Praveen Kumar	Engineer	Structure
28	Sandip malik	Engineer	Structure
29	Omprakash	Foreman	Structure
30	Narayan Kumar	Supervisor	Structure

31	Sujit Kumar Ray	Supervisor	Structure
32	ARUP KR PAUL	Supervisor	Structure
33	Rati Ram	Supervisor	Structure
34	Manubhan Pratap	Supervisor	Structure
35	Nabab Ali	Supervisor	Structure
36	SEKH SAKIL	Foreman	Structure
37	Ashok Kumar Mandal	Manager	QA/QC
38	OM Prakash Singh	Asst Manager	QA/QC
39	Anil Kumar Singh	Engineer	QA/QC
40	Niranjan Chakra	enior Lab Technicia	QA/QC
41	Ratnesh Kumar	Lab Technician	QA/QC
42	DURGANAND KUMAR	Lab Technician	QA/QC
43	Shiv Shankar Dhar	Lab Technician	QA/QC
44	Puniyanand Mandal	GET	QA/QC
45	Sujit Pramanik	Deputy Manager	Survey
46	Ram poojan	Surveyor	Survey
47	Jaybhan Pratap Paswan	Surveyor	Survey
48	Sunil Kr Pathak	Dy. Manager	Store
49	GAURAV VERMA	Excutive	Store
50	Siba Prasad Pradhan	Executive	Store
51	Jainendra P Singh	Executive	Store
52	Rekibul Hussain	Supervisor	Store
53	Niraj Dubey	Executive	IT
54	Rajiv Ranjan	Asst. Manager	P&M
55	Kush Kumar Singh	Senior Engineer	P&M
56	Deepak Kumar	Engineer	P&M
57	Santosh Kr. Raut	Fleet Supervisior	P&M

CHAPTER-7

DEPLOYMENT OF PLANTS AND EQUIPMENT / PROJECT SET UP PLAN

7.1 Plants and Equipment Deployed

S.no	Equipment type	Unit	Qty	Remarks
1	LMV	Nos.	05	
2	TIPPER	Nos.	05	
3	MOBILE CRANE	Nos.	0	
4	SOIL COMPACTOR	Nos.	04	
5	EXCAVATOR	Nos.	05	
6	BACK HOE LOADER	Nos.	02	
7	DIESEL DISPENCER	Nos.	01	
8	TRANSIT MIXER	Nos.	08	
9	TRACTOR	Nos.	02	
10	GRADER	Nos.	0	
11	BABY ROLLER	Nos.	0	
12	HM PLANT	Nos.	02	Installation In Progress
13	BATCHING PLANT	Nos.	02	
14	RE BLOCK PLANT	Nos.	01	
15	DG	Nos.	15	25KV+15 KV+10KV+125KV
16	TRAILER	Nos.	04	
17	CRUSHER	Nos.	02	Kalain, Karimganj
18	WATER TANKER	Nos.	04	
19	FARANA	Nos	02	
20	LOADER	Nos.	0	
21	Tractor Loader	Nos.	01	
21	JCB	Nos	02	
22	DOZER	Nos	0	

CHAPTER-8

DESIGN AND DRAWING

The project highway has been designed for four lane divided carriageway facility with provision of central raised median of 1.6m. The Concession Agreement envisages design of the project highway by the Concessionaire. The scope of design includes the design for road works, structure works and other project facilities. The drawings need to be prepared and approved for execution of each component of the project highway.

8.1 Design

The design of road works e.g., plans and profiles, cross sections and other miscellaneous items are being prepared by the Concessionaire for approval and execution of works accordingly. Similarly, the design of various structures e.g., Major bridge, Minor bridges, Vehicular Underpasses, Box Culverts, Hume Pipe Culverts etc. are also being prepared by the Concessionaire for review by Authority/ IE.

8.2 Drawings

As per requirement of the Contract Agreement various drawings are being prepared for execution and completion of the works. The working drawings of road works and structure works are being prepared by the Concessionaire and submitted to the Authority/ Independent Engineer prior to execution of works at site.

8.3 Status of Approval of Drawings

The status of drawing submission and approval of GAD for road and structure works as on July 31st 2026, is enclosed in this chapter of the report.

Road Works

S N	Description	Unit	Total	Submitted	Approval	Balance	Remarks
1.	Plan & Profile MCW	Km	24.20	24.20	24.20	0.000	
2.	Plan & Profile Slip Road	Km	6.29	0.00	0.000	0.000	
3.	Typical Cross Section	Nos	1.00	1.00	1.00	0.00	
4.	Pavement Design Report	Nos	1.00	1.00	1.00	0.00	
5.	RE Wall	Sqm.	46480.00	-	-	-	
6.	Major Junction	Nos	3.00	-	-	-	
7.	Minor Junction	Nos	7.00	-	-	-	
8.	Bus Bay Drawing	Nos	1.00	-	-	-	
9.	Road Signage Plan	Km	24.20	-	-	-	
10	Boundry Wall	NOS	01	1.00	1.00	0.00	
11	FSCB	NOS	01	1.00	1.00	0.00	

Structure Works:-

Structure				
Description	**Total Nos**	**Submitted**	**Approved**	**Balance**
Box Underpass	7	7	7	0.00
LVUP	4	4	4	0.00
VUP	5	5	5	0.00
MNB	13	13	13	0.00
MJB	2	2	2	0.00
ROB	2	2	2	0.00
Box Culvert	43	43	43	0.00

CHAPTER-9

PROJECT WORK PROGRESS

9.1 Work Progress:

Key reporting metrics	Value/ %/ Amount
Scheduled Physical Progress (%)	**30.31%**
Cumulative Physical Progress up to current month (%)	**27.983%**
Physical Progress during current month (%)	**0.525%**
Financial progress (%)	**13.20%**
Cumulative Expenditure against Financial till March Progress date (Rs Cr)	**44.33**
Cumulative Expenditure against Physical till Progress date (Rs Cr)	**128.17**
Test passed as % of total tests witnessed by AE	**8.00%**
Test passed as % of total tests conducted by AE	**8.00%**
Number of pending COS proposals	**0**
Amount for pending COS (Rs Cr)	**0**

Four Laning of Badarpur-Churaibari section of NH-37 & NH-8 from Design chainage 38.600 (End of Proposed Badarpur Bypass) to Km. 62.800 (Start of Proposed Nilambazar/ Cheragi Bypass) in the state of Assam (Package-IV) on HAM mode.

Progress With Proposed Sch-G

Project Name : -	Four Laning of Badarpur – Churaibari section of NH-37 & NH-8 from Design chainage 38.600 (End of proposed Badarpur Bypass) to Km. 62.800 (Start of proposed Nilambazar/Cheragi Bypass) in the state of Assam (Package-IV)
Authority : -	National Highways & Infrastructure Development Corporation Limited
Independent Engineer : -	M/s Agnitio Infrastructure Projects Pvt. Ltd. in JV with M/s Ayoleeza Consultants Pvt. Ltd.
Concessionaire : -	MKC BADARPUR CHURAIBARI KAMAKHYA (PKG-4) HIGHWAYS PRIVATE LIMITED
Bid Project Cost : -	₹ 5,54,16,00,000.00

SCHEDULE - G

Item	Stage for measurement of Physical Progress	Unit	Quantity	Unit Rate (INR)	Weightage in percentage to the contract Price	Phy. progres Up to Date	
						Qty	%age
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 upto top of Sub-grade	L-Km	18.68	2,87,48,952.42	9.69%	9.761	5.064%
	(2) Granular work (Sub-base, base,shoulder)						
	(a) R-GSB	L-Km	18.68	1,00,73,098.90	3.40%	4.524	0.822%
	(b) R-WMM	L-Km	18.68	66,33,141.46	2.24%		
	(3) Shoulders	L-Km	18.68	8,00,757.34	0.27%		
	(4) Bituminous Work						
	(a) DBM	L-Km	18.68	34,08,469.24	1.15%		
	(b) BC	L-Km	18.68	21,22,782.62	0.72%		
	(7) Widening and repair of Minor Bridges	No.	6.00	43,86,794.28	0.47%	6.000	0.475%
	B- New Realignment/Bypass						
	(1) Earthwork up to top of the sub-grade	L-Km	28.16	5,82,64,514.33	29.60%	8.865	9.321%
	(2) Granular work (sub- base, base, shoulders)						
	(a) R-GSB	L-Km	28.16	1,05,89,777.32	5.38%	2.261	0.432%
	(b) R-WMM	L-Km	28.16	65,93,042.18	3.35%		
	(3) Shoulders	L-Km	28.16	10,26,158.61	0.52%		
	(4) Bituminous work						
	(a) DBM	L-Km	28.16	33,37,717.24	1.70%		
	(b) BC	L-Km	28.16	20,78,718.53	1.06%		
	C- New culverts, minor bridges, underpasses, overpasses on existing road, realignments, bypasses:						
	(1) Culverts	No.	86.00	32,45,592.34	5.04%	70.000	4.10%
	(2) Minor bridges						
	(a) Foundation	No.	33.00	47,77,010.13	2.84%	13.000	1.12%
	(b) Sub-structure	No.	33.00	28,08,051.17	1.67%	4.000	0.20%
	(c) Super-structure (including crash barriers etc. complete) **If Pre-cast girders/segments are used, 40% of the weightage of the stage in percentage to the bid project cost is assigned to the casting of such precast girders/ segments.**						
	(i) Pre-cast girders/segments - Casting	No.	8.00	26,11,012.22	0.38%		
	(ii) Deck Slab including crash barriers etc. complete	No.	25.00	12,53,285.87	0.57%	2.000	0.05%
	(5) Grade separated structures						
	(a) Underpasses						
	(i) Foundation	No.	44.00	49,19,347.83	3.91%	14.000	1.24%
	(ii) Sub-structure	No.	44.00	19,88,786.84	1.58%	10.000	0.36%
	(iii) Super-structure (including crash barriers etc. complete) **If Pre-cast girders/segments are used, 40% of the weightage of the stage in percentage to the bid project cost is assigned to the casting of such precast girders/ segments.**						
	(a) Pre-cast girders/segments - Casting	No.	12.00	24,34,804.50	0.53%	2	0.09%
	(b) Deck Slab including crash barriers etc. complete	No.	32.00	13,69,577.53	0.79%	8.000	0.20%

Major Bridge works and ROB/RUB	**A- Widening and repairs of Major Bridges**						
	(1) Foundation						
	(b) Pile Foundation/Well Foundation	No.	3.00	1,26,97,092.70	0.69%	**3.000**	**0.69%**
	(2) Sub-structure	No.	3.00	27,78,351.74	0.15%	**3.000**	**0.15%**
	(3) Super-structure (including crash barriers etc. complete) **If Pre-cast girders/segments are used, 40% of the weightage of the stage in percentage to the bid project cost is assigned to the casting of such precast girders/ segments.**						
	(a) Pre-cast girders/segments - Casting	No.	2.00	47,67,325.32	0.17%	**2**	**0.17%**
	(b) Deck Slab including crash barriers etc. complete	No.	2.00	71,50,987.98	0.26%		
	B- Widening and repair of ROB						
	(a) ROB						
	(1) Foundation	No.	4.00	1,78,87,787.65	1.29%		
	(2) Sub-structure	No.	4.00	52,15,670.35	0.38%		
	(3) Super-structure (including crash barriers etc. complete) **If Pre-cast girders/segments are used, 40% of the weightage of the stage in percentage to the bid project cost is assigned to the casting of such precast girders/ segments.**						
	(a) Pre-cast girders/segments - Casting	No.	3.00	12,64,851.97	0.07%	**2.00**	**0.05%**
	(b) Deck Slab including crash barriers etc. complete	No.	3.00	18,97,277.95	0.10%		
	C- New Major Bridges						
	(1) Foundation						
	(b) Pile Foundation/Well Foundation	No.	8.00	1,14,87,311.87	1.66%	**6.00**	**1.24%**
	(2) Sub-structure	No.	8.00	25,60,786.03	0.37%		
	(3) Super-structure (including crash barriers etc. complete) **If Pre-cast girders/segments are used, 40% of the weightage of the stage in percentage to the bid project cost is assigned to the casting of such precast girders/ segments.**						
	(a) Pre-cast girders/segments - Casting	No.	6.00	23,95,808.14	0.26%	**6.00**	**0.26%**
	(b) Deck Slab including crash barriers etc. complete	No.	6.00	35,93,712.21	0.39%		
	D- New Rail road Bridges						
	(a) ROB						
	(1) Foundation	Nos	8.00	1,72,80,617.22	2.49%		
	(2) Sub-structure	No.	8.00	61,02,786.17	0.88%		
	(3) Super-structure (including crash barriers etc. complete) **If Pre-cast girders/segments are used, 40% of the weightage of the stage in percentage to the bid project cost is assigned to the casting of such precast girders/ segments.**						
	(a) Pre-cast girders/segments - Casting	No.	6.00	18,77,606.31	0.20%		
	(b) Deck Slab including crash barriers etc. complete	No.	6.00	28,16,409.47	0.30%		

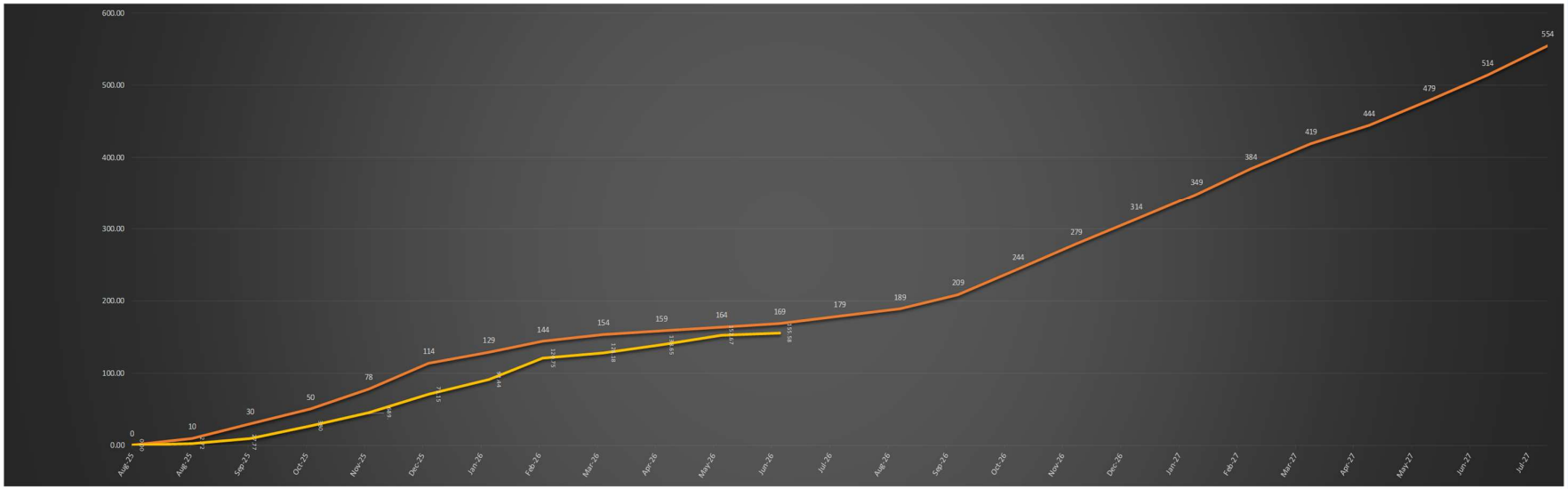
Structures (elevated sections, reinforced earth)	**(4) Reinforced Earth Wall (includes Approaches of ROB, Underpasses, Overpasses, Flyover etc. If RE-wall is used with facia panels/blocks, 5% of weightage of the stage in percentage to bid project cost is assigned to the casting of such facia panels/blocks for one complete approach.)**						
	i) Re Block/Pannel Casting (5%)	Sqm	39840.00	49.41	0.04%		
	ii) Re Block/Pannel Erection (95%)	Sqm	39840.00	938.82	0.67%		
Electrical and Public Health Utilities	**HT/LT lines (including Transformers if any)**	Km	24.20	37,33,814.72	1.63%	**9.230**	**0.62%**
	HT/LT crossings	No.	85.00	4,55,588.15	0.70%	**22.000**	**0.18%**
	Water pipeline	L-Km	9.07	4,27,735.99	0.07%		
	Water pipeline crossings	No.	11.00	1,51,068.57	0.03%		
Other Works	**(i) Service roads/ Slip Roads**	L-Km	7.15	1,42,86,490.20	1.84%		
	(ii) Toll Plaza	No.	1.00	1,64,65,387.74	0.30%		
	(iii) Road side drains	L-Km	5.30	54,90,178.90	0.53%		
	(iv) Road signs, markings, km stones, safety devices.						
	(a) Road signs, markings, km stones, .. .	Km	24.20	8,23,896.60	0.36%		
	(b) Concrete crash Barrier/W-Beam Crash Barrier in Road work	L-Km	34.27	26,29,461.89	1.63%		
	(v) Project facilities						
	(a) Bus bays	No.	2.00	1,47,386.54	0.01%		
	(c) Rest Area	No.	2.00	42,00,516.45	0.15%		
	(viii) Protection Works						
	(a) Boulder Pitching on Slopes	L-Km	1.32	1,01,21,033.84	0.24%		
	(b) Toe / Retaining / Breast wall	L-Km	6.51	2,27,99,351.25	2.68%	**2.800**	**1.15%**
	(x) Miscellaneous						
	(a) Street Lightning	No.	849.00	18,386.81	0.28%		
	(b) Junction/Interchange	No.	45.00	5,47,883.05	0.44%		
	(c) Precast Boundary Wall	L-Km	48.40	11,49,615.03	1.00%		
	(d) ATMS, HTMS, Traffic Aid Posts, Medical aid Posts, Vehicle Recue Posts, Telecom System	Km	24.20	14,07,380.09	0.61%		
	(e) Rain Water Harvesting	No.	48.00	1,06,750.60	0.09%		
	(f) Pedestrian Guardrails	L-Km	5.30	19,85,296.72	0.19%		
				GRAND TOTAL >>>	**100%**		**27.983%**

9.2 S – Curve of Project

❖ Financial Progress with S Curve

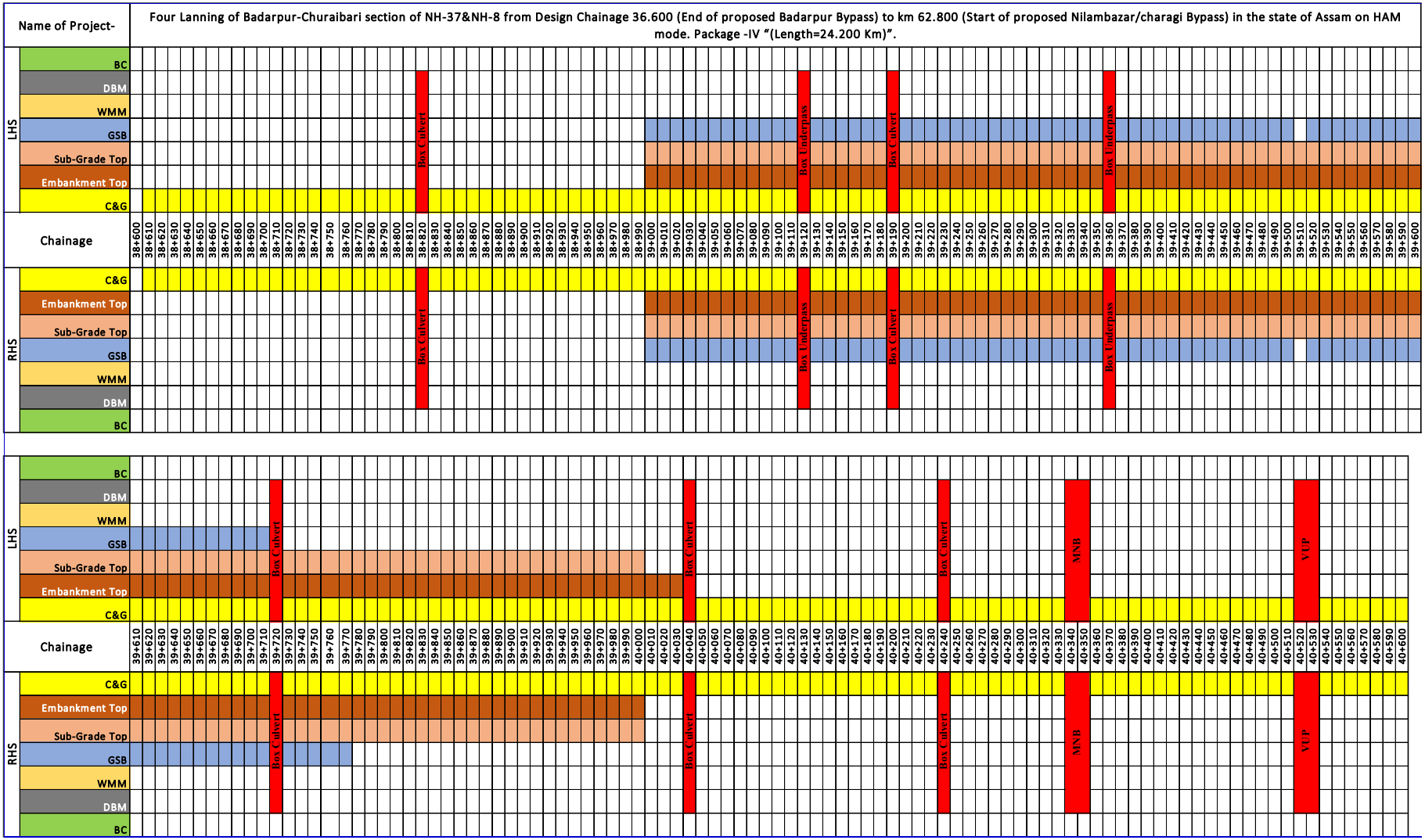
Four Laning of Badarpur – Churaibari section of NH-37 & NH-8 from Design chainage 38.600 (End of proposed Badarpur Bypass) to Km. 62.800 (Start of proposed Nilambazar/Cheragi Bypass) in the state of Assam (Package-IV)

S Curve



Months	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25	Jan-26	Feb-26	Mar-26	Apr-26	May-26	Jun-26	Jul-26	Aug-26	Sep-26	Oct-26	Nov-26	Dec-26	Jan-27	Feb-27	Mar-27	Apr-27	May-27	Jun-27	Jul-27	Aug-27
MonthlyTarget in (%)	0.00%	1.80%	3.61%	3.61%	5.80%	6.47%	2.71%	2.71%	1.80%	0.90%	0.90%	0.90%	1.80%	1.80%	3.61%	6.32%	6.32%	6.32%	6.32%	6.32%	6.32%	4.51%	6.32%	6.32%	7.28%
Monthly Targets In (Cr)	0.00	10.00	20.00	20.00	28.00	35.83	15.00	15.00	10.00	5.00	5.00	5.00	10.00	10.00	20.00	35.00	35.00	35.00	35.00	35.00	35.00	25.00	35.00	35.00	40.33
Monthly Archive In (%)	0.00%	0.49%	1.29%	3.09%	3.28%	4.69%	3.7%	5.29%	1.34%	1.89%	2.53%	0.53%													
Monthly Achieved (In Crs)	0.00	2.72	7.15	17.12	18.18	25.99	20.28	29.32	7.43	10.47	14.02	2.91													
Cumalative Targets In (Cr)	0.00	10.00	30.00	50.00	78.00	113.83	128.83	143.83	153.83	158.83	163.83	168.83	178.83	188.83	208.83	243.83	278.83	313.83	348.83	383.83	418.83	443.83	478.83	513.83	554.16
Cumalative Achieved (Cr)	0.00	2.72	9.86	26.99	45.16	71.15	91.44	120.75	128.18	138.65	152.67	155.58													

9.3 Highway Progress:



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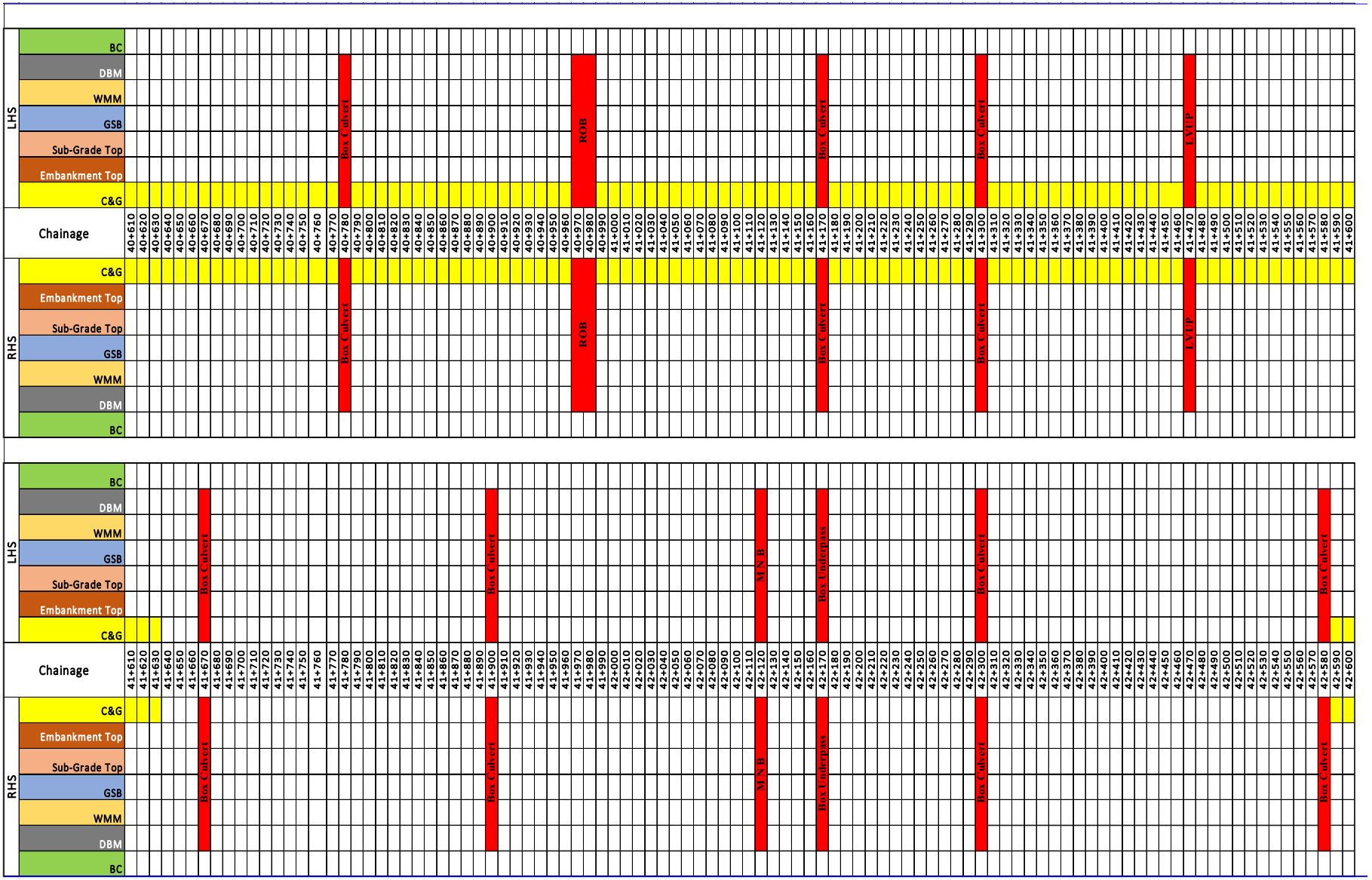

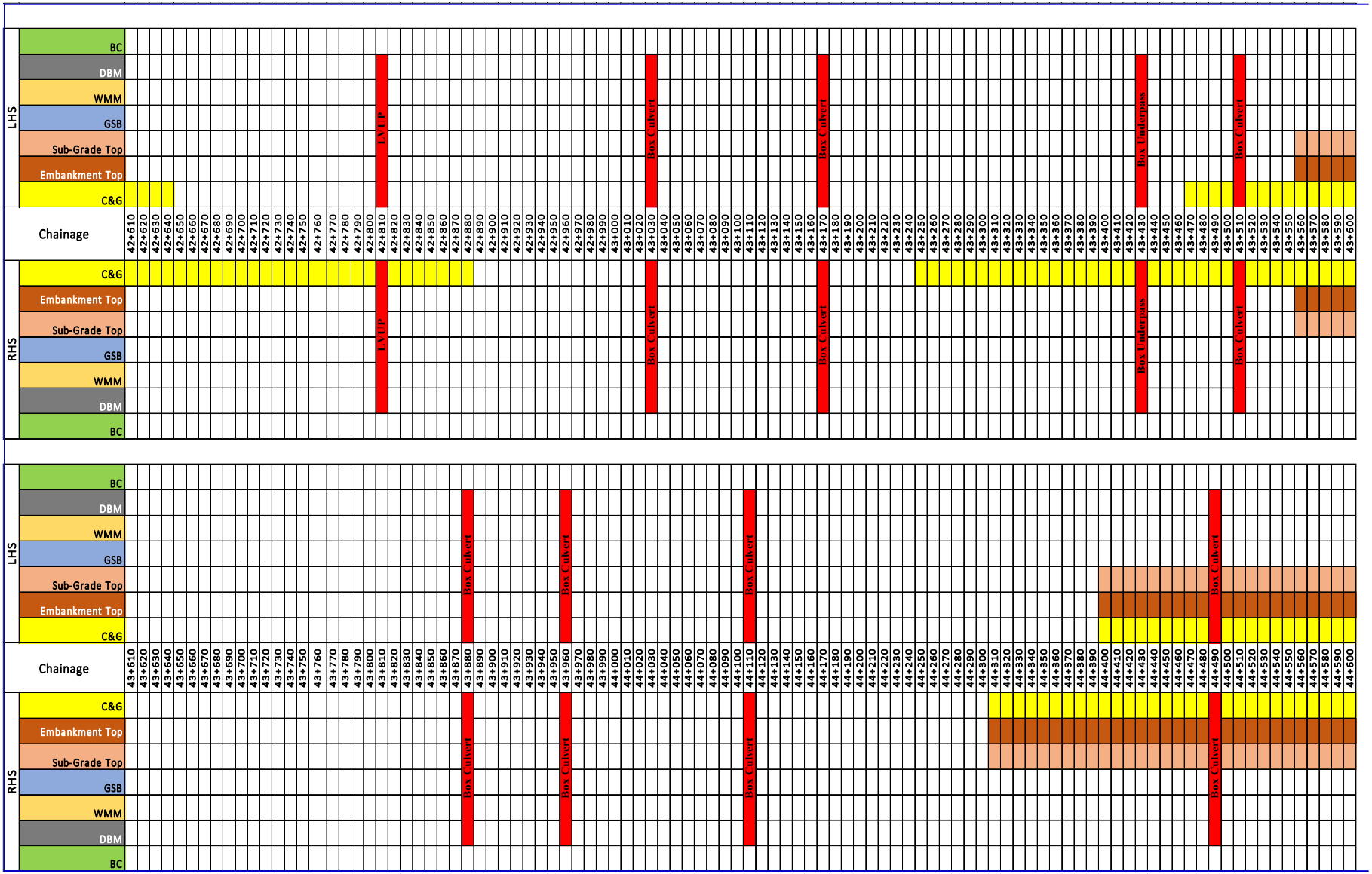
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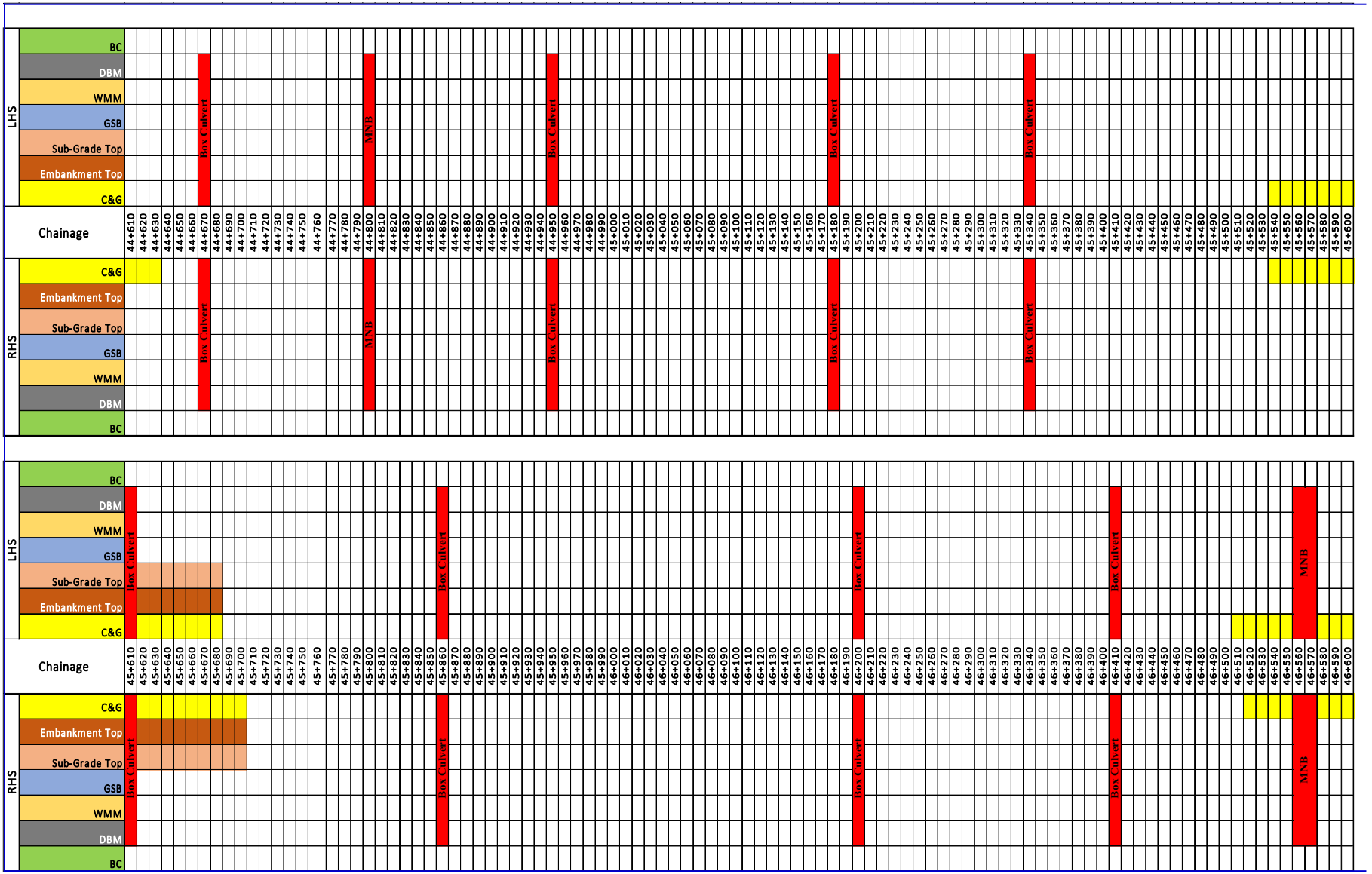
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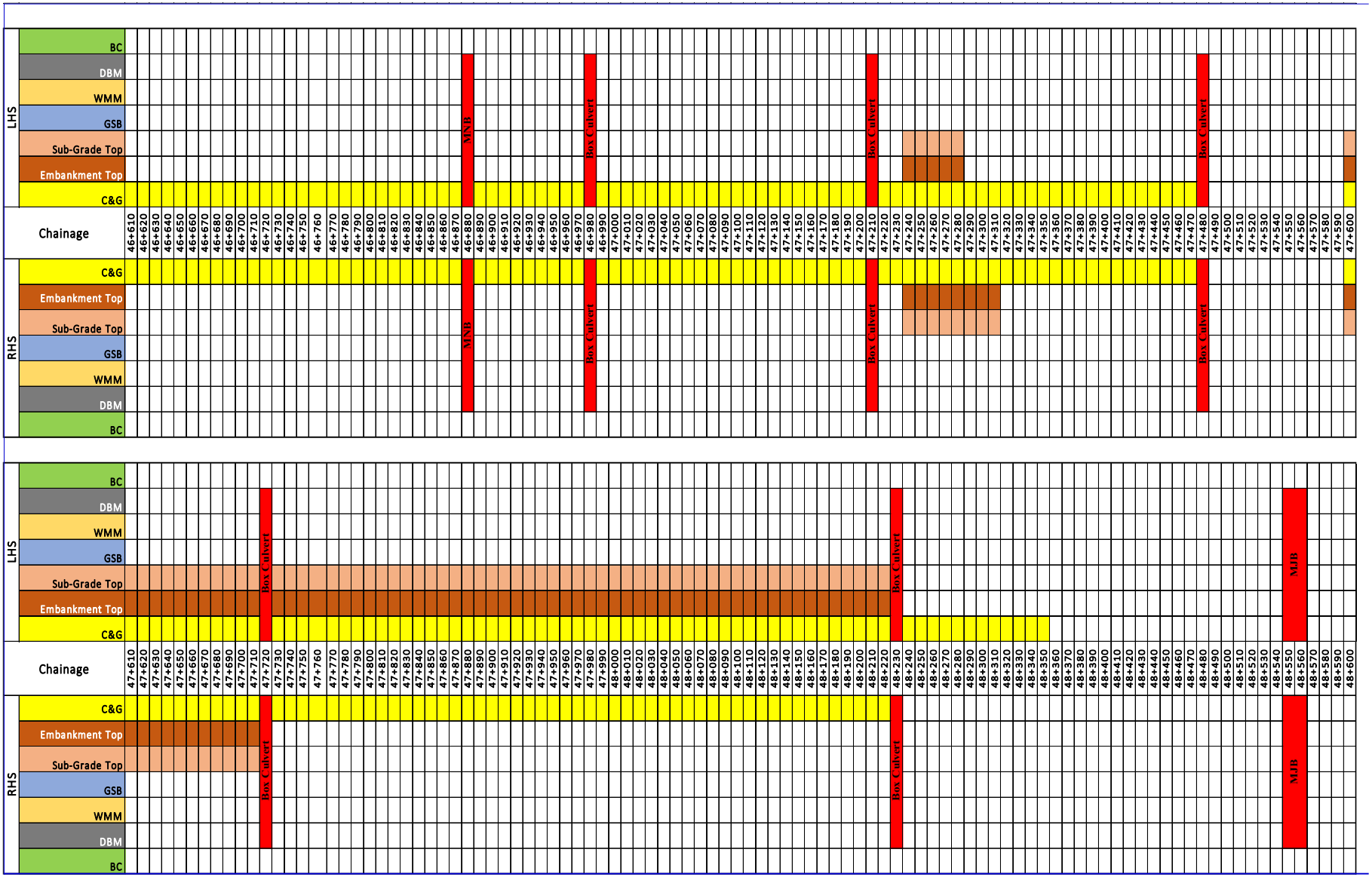
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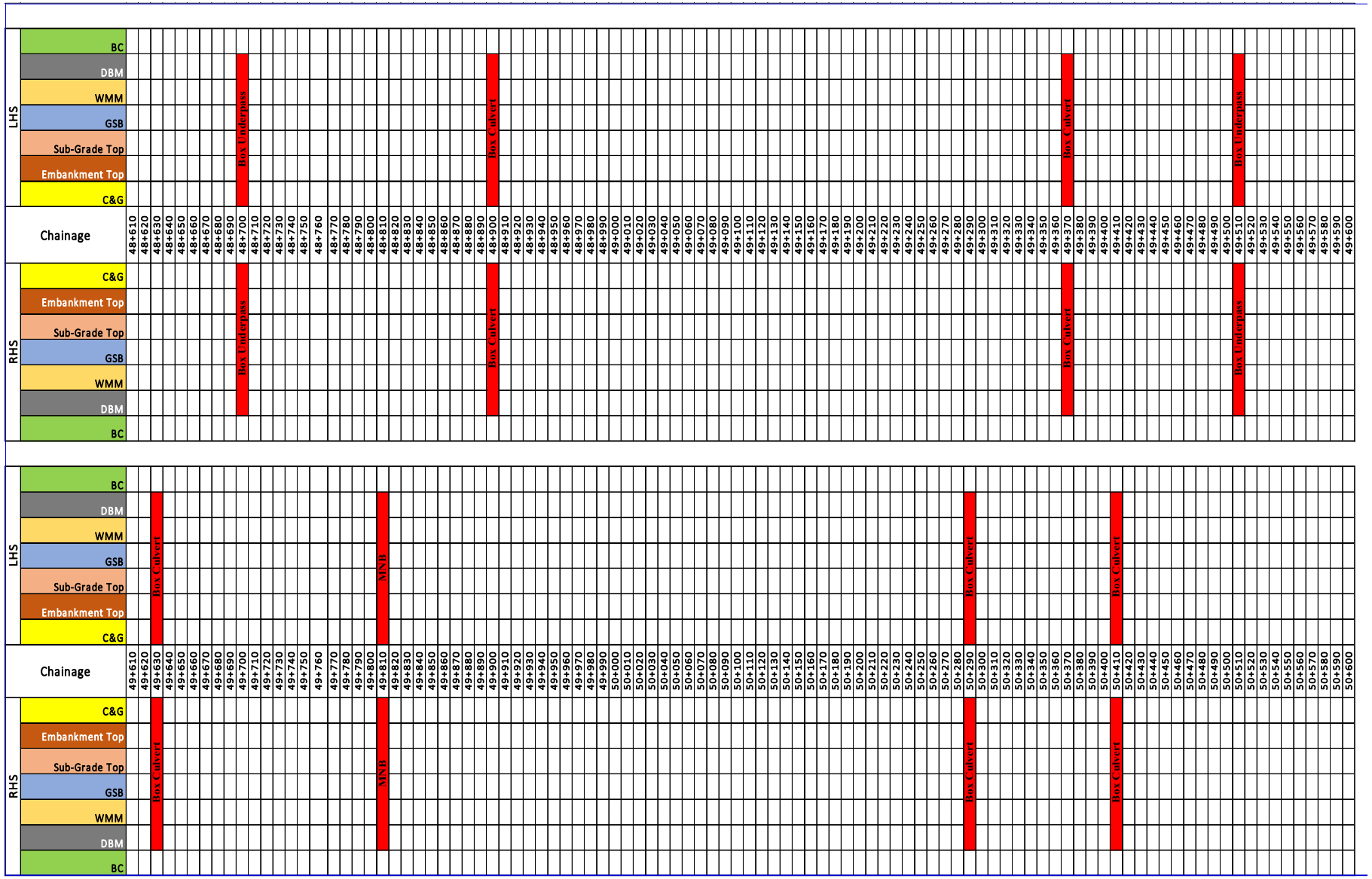

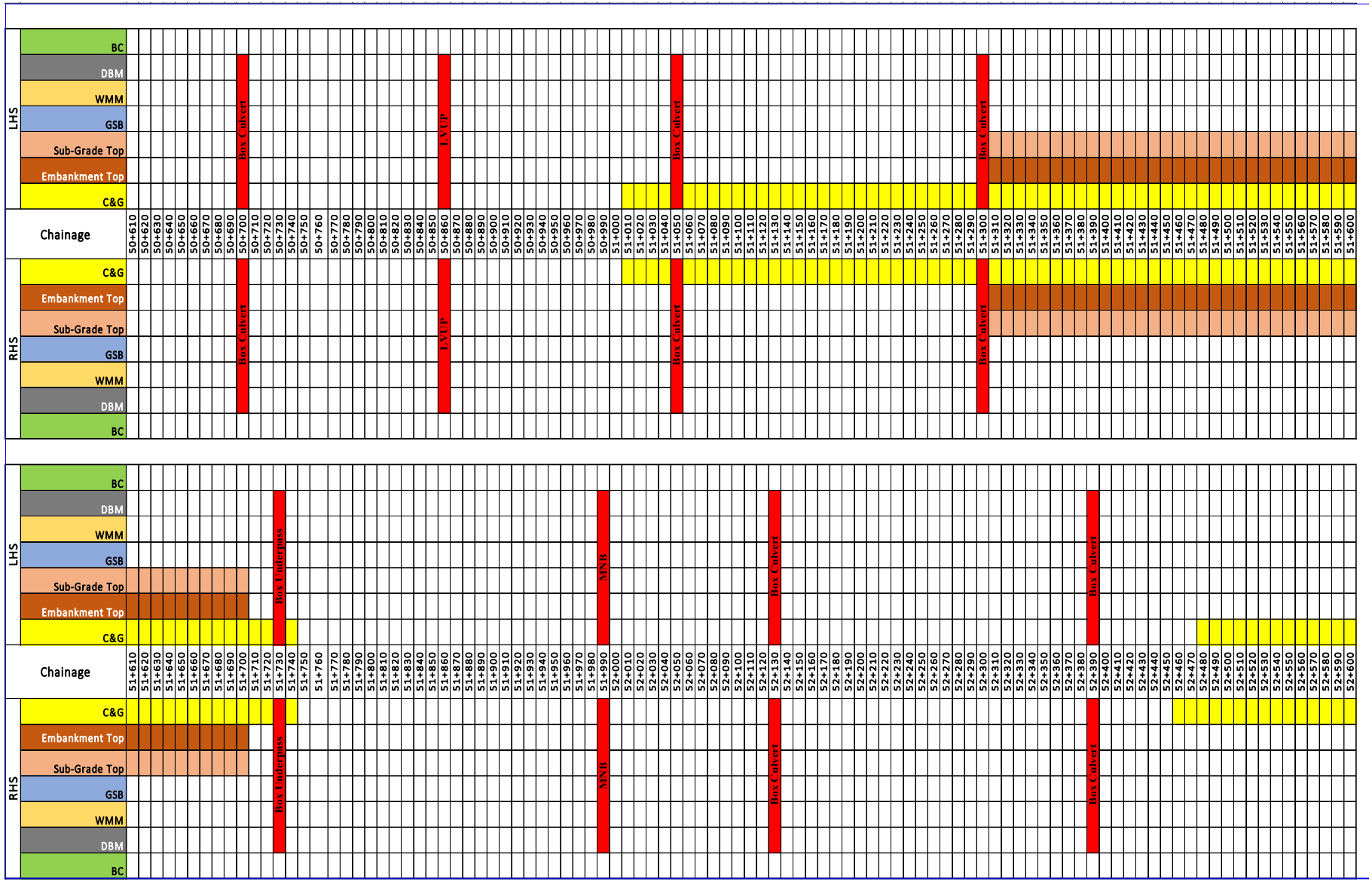
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Box Underpass
MNB
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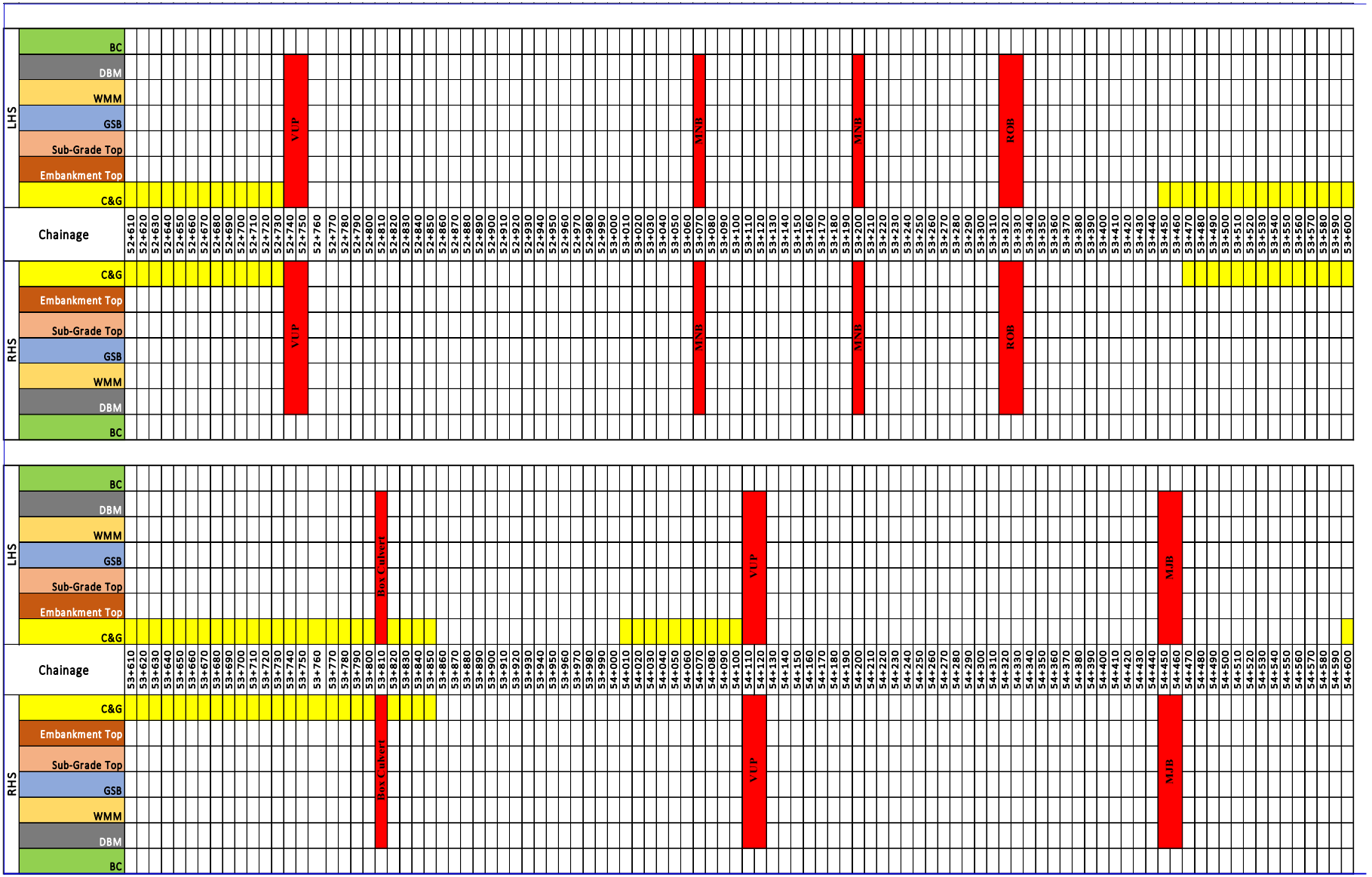
Box Culvert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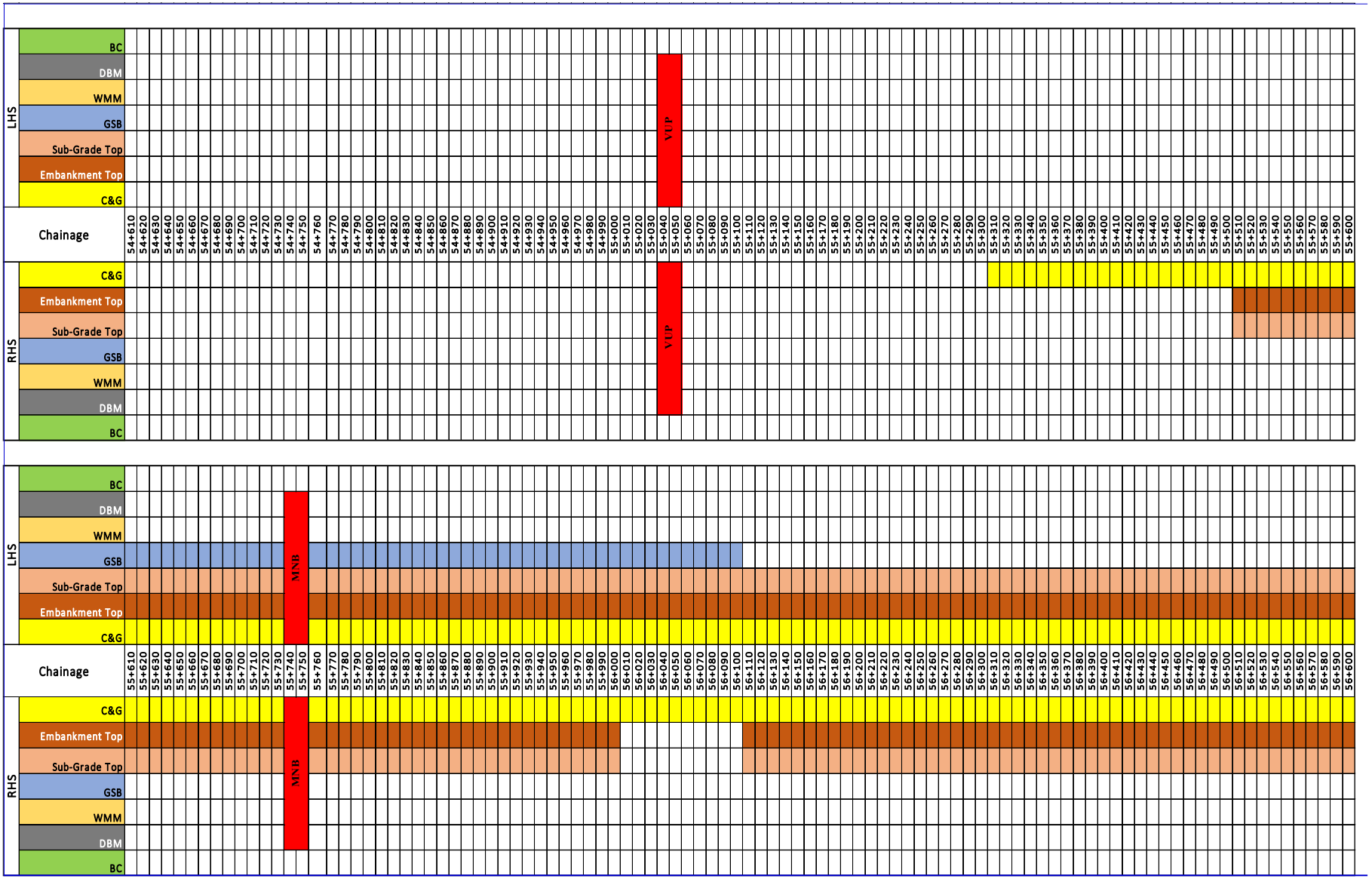
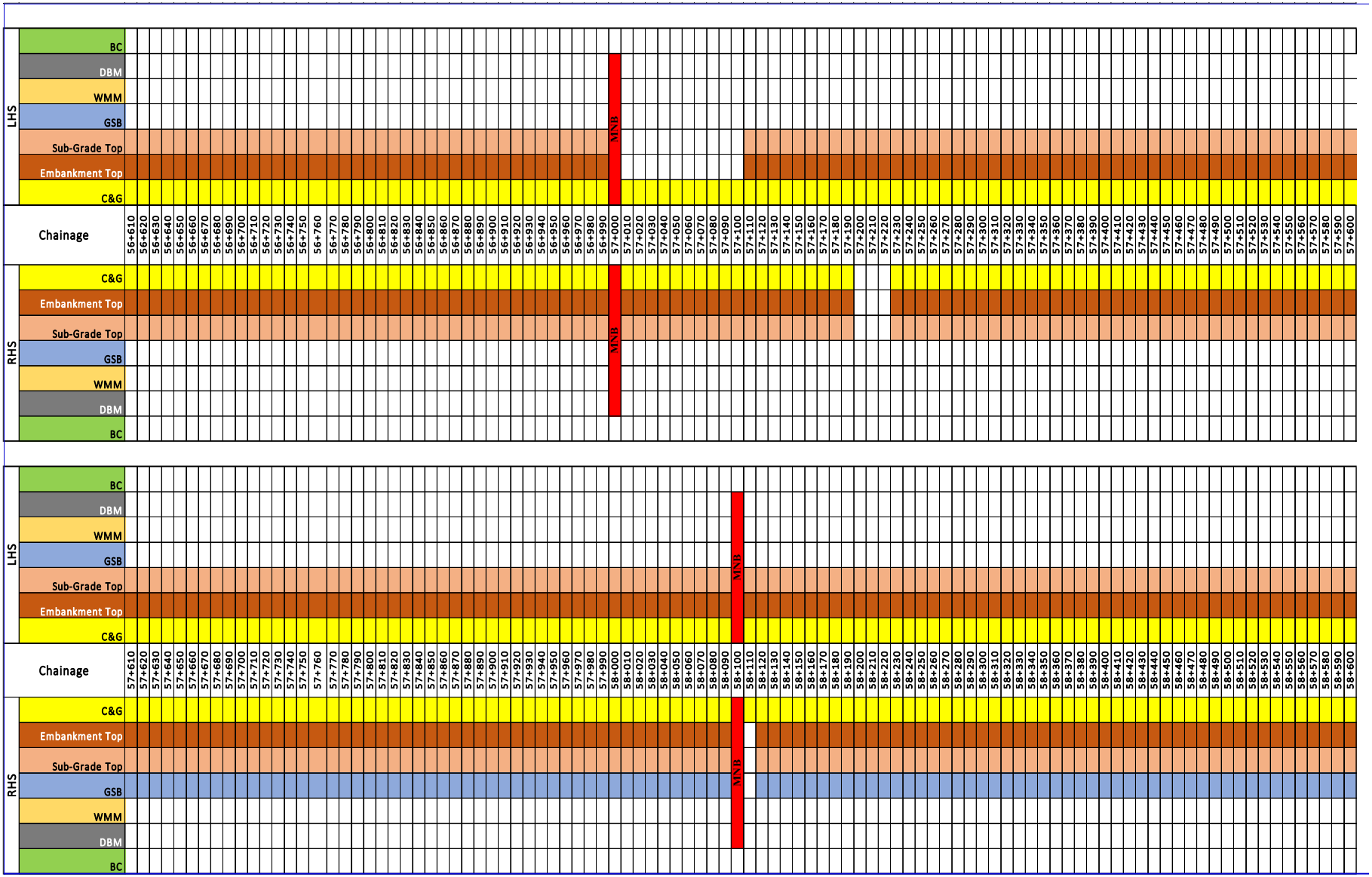
Box Culvert
VUP
VUP
MJB
MJB

Four Laning of Badarpur-Churaibari section of NH-37 & NH-8 from Design chainage 38.600 (End of Proposed Badarpur Bypass) to Km. 62.800 (Start of Proposed Nilambazar/ Cheragi Bypass) in the state of Assam (Package-IV) on HAM mode.




LHS
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DBM
WMM
GSB
Sub-Grade Top
Embankment Top
C&G
Chainage
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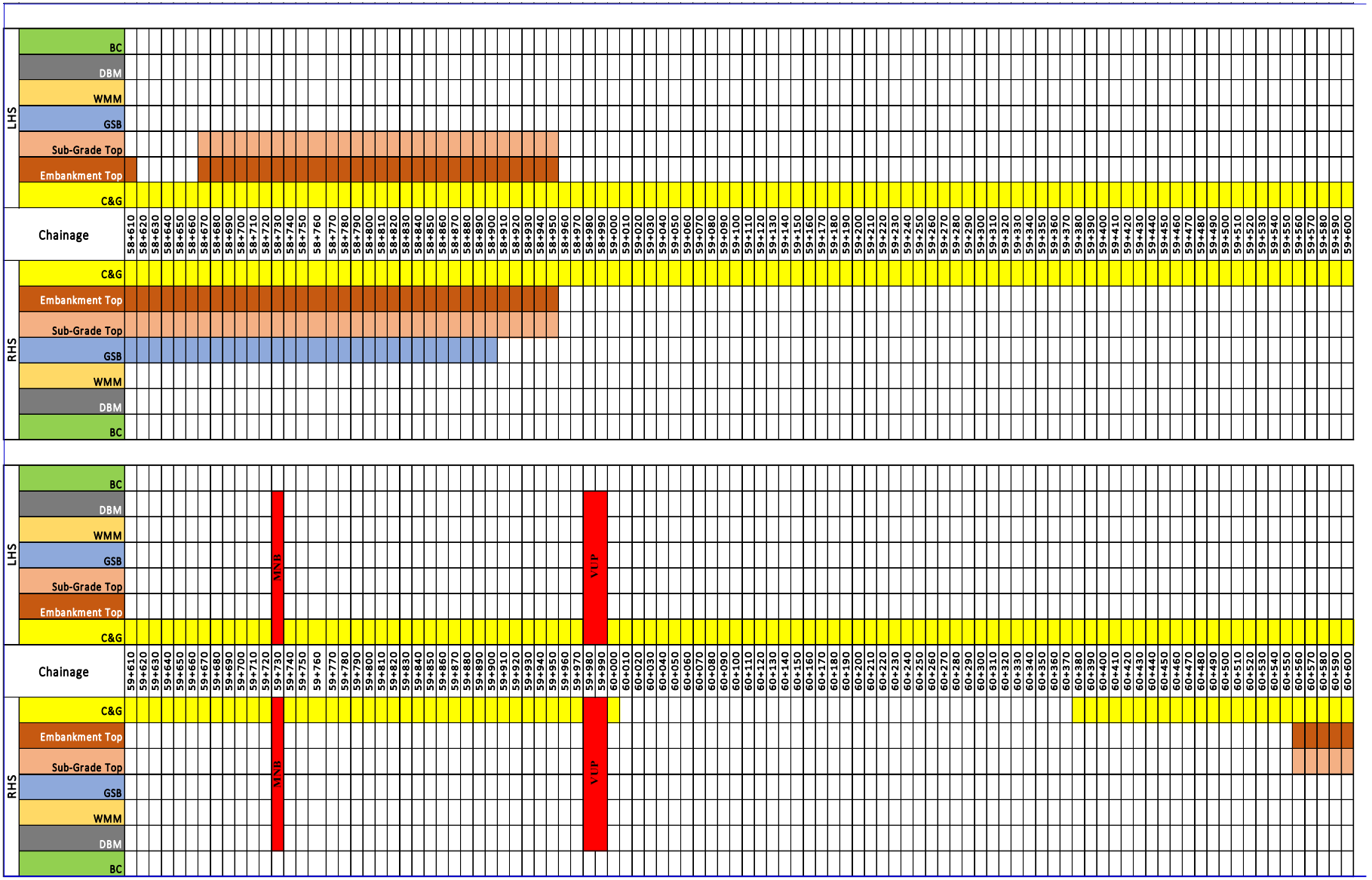
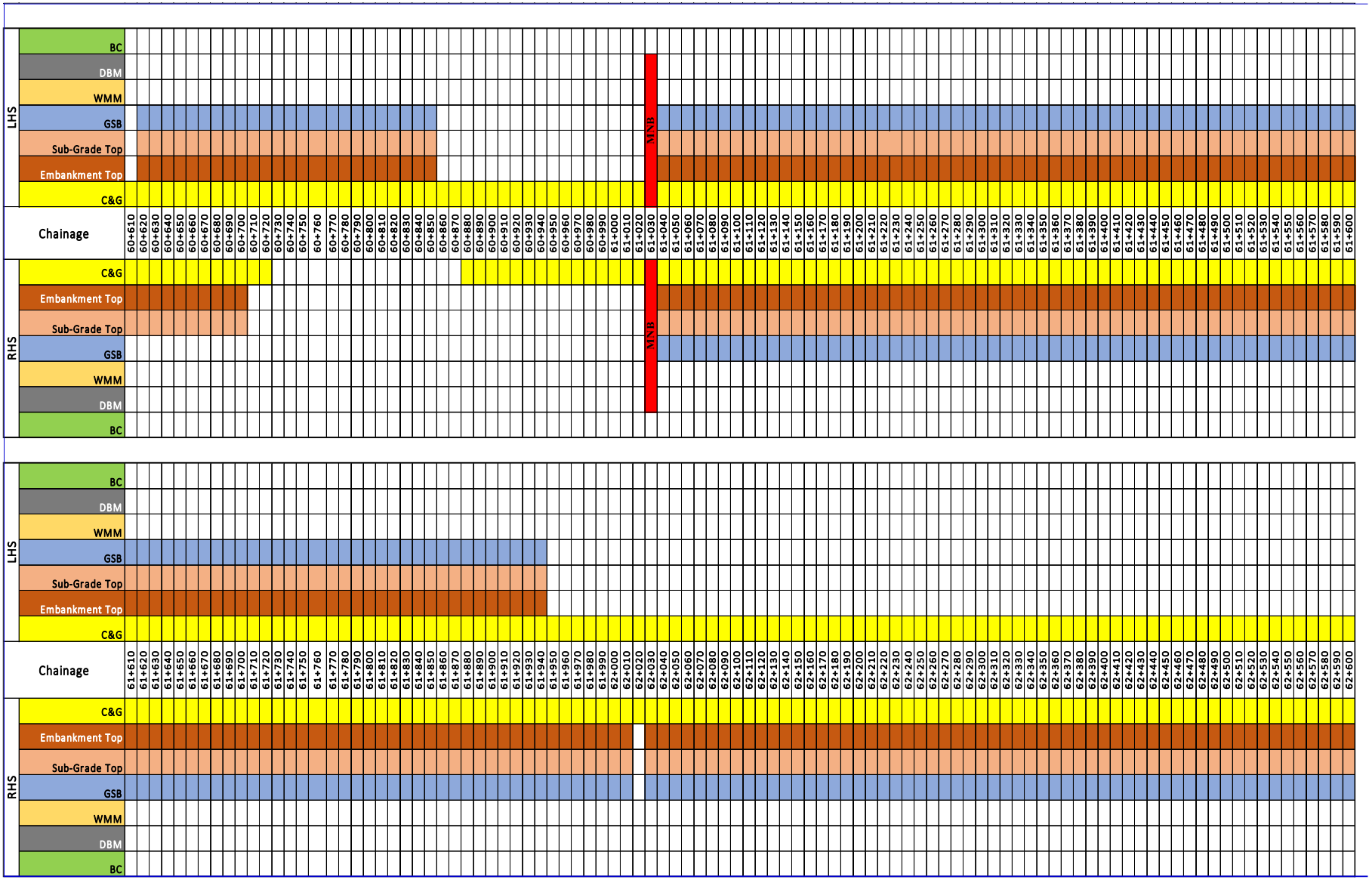
MNB
MNB
RHS
C&G
Embankment Top
Sub-Grade Top
GSB
WMM
DBM
BC

Four Laning of Badarpur-Churaibari section of NH-37 & NH-8 from Design chainage 38.600 (End of Proposed Badarpur Bypass) to Km. 62.800 (Start of Proposed Nilambazar/ Cheragi Bypass) in the state of Assam (Package-IV) on HAM mode.

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Sub-Grade Top
Embankment Top
C&G
MNB
Chainage
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RHS
C&G
Embankment Top
Sub-Grade Top
GSB
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DBM
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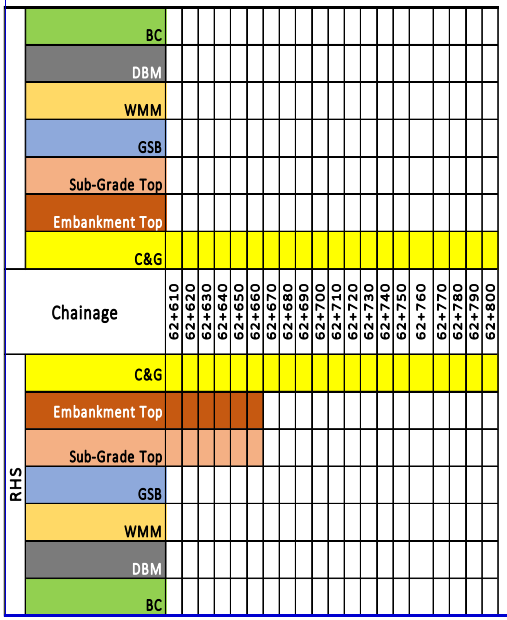
GSB
Sub-Grade Top
Embankment Top
C&G
Chainage
61+610 61+620 61+630 61+640 61+650 61+660 61+670 61+680 61+690 61+700 61+710 61+720 61+730 61+740 61+750 61+760 61+770 61+780 61+790 61+800 61+810 61+820 61+830 61+840 61+850 61+860 61+870 61+880 61+890 61+900 61+910 61+920 61+930 61+940 61+950 61+960 61+970 61+980 61+990 62+000 62+010 62+020 62+030 62+040 62+050 62+060 62+070 62+080 62+090 62+100 62+110 62+120 62+130 62+140 62+150 62+160 62+170 62+180 62+190 62+200 62+210 62+220 62+230 62+240 62+250 62+260 62+270 62+280 62+290 62+300 62+310 62+320 62+330 62+340 62+350 62+360 62+370 62+380 62+390 62+400 62+410 62+420 62+430 62+440 62+450 62+460 62+470 62+480 62+490 62+500 62+510 62+520 62+530 62+540 62+550 62+560 62+570 62+580 62+590 62+600
RHS
C&G
Embankment Top
Sub-Grade Top
GSB
WMM
DBM
BC


BC
DBM
WMM
GSB
Sub-Grade Top
Embankment Top
C&G
Chainage
62+610
62+620
62+630
62+640
62+650
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62+670
62+680
62+690
62+700
62+710
62+720
62+730
62+740
62+750
62+760
62+770
62+780
62+790
62+800
C&G
Embankment Top
Sub-Grade Top
GSB
WMM
DBM
BC
RHS

9.4 Structure Works Progress

9.4.1 Status of Box Culvert

Box Culvert

SN	LHS												Box Culvert Chainage	RHS										
	Protection Work	Parapet Wall	Top Slab	Top Haunch	Wall Final Lift	Wall 2nd Lift	Wall 1st Lift	Haunch	Raft	PCC/Granular Bed	Layout & Excavation	Abutment		Abutment	Layout & Excavation	PCC/Granular Bed	Raft	Haunch	Wall 1st Lift	Wall 2nd Lift	Wall Final Lift	Top Haunch	Top Slab	Parapet Wall	Protection Work
1												A1	38+823	A1										
												A2		A2										
2												A1	39+194	A1										
												A2		A2										
3												A1	39+726	A1										
												A2		A2										
4												A1	40+040	A1										
												A2		A2										
5												A1	40+240	A1										
												A2		A2										
6												A1	40+780	A1										
												A2		A2										
7												A1	41+166	A1										
												A2		A2										
8												A1	41+300	A1										
												A2		A2										
9												A1	41+666	A1										
												A2		A2										
10												A1	41+903	A1										
												A2		A2										
11												A1	42+300	A1										
												A2		A2										
12												A1	42+577	A1										
												A2		A2										
13												A1	43+028	A1										
												A2		A2										
14												A1	43+165	A1										
												A2		A2										
15												A1	43+506	A1										
												A2		A2										
16												A1	43+872	A1										
												A2		A2										
17												A1	43+959	A1										
												A2		A2										
18												A1	44+105	A1										
												A2		A2										
19												A1	44+488	A1										
												A2		A2										
20												A1	44+670	A1										
												A2		A2										
21												A1	44+945	A1										
												A2		A2										
22												A1	45+184	A1										
												A2		A2										
23												A1	45+340	A1										
												A2		A2										
24												A1	45+606	A1										
												A2		A2										
25												A1	45+855	A1										
												A2		A2										
26												A1	46+195	A1										
												A2		A2										
27												A1	46+406	A1										
												A2		A2										
28												A1	46+980	A1										
												A2		A2										
29												A1	47+211	A1										
												A2		A2										
30												A1	47+483	A1										
												A2		A2										
31												A1	47+714	A1										
												A2		A2										
32												A1	48+232	A1										
												A2		A2										
33												A1	48+930	A1										
												A2		A2										
34												A1	49+364	A1										
												A2		A2										
35												A1	49+635	A1										
												A2		A2										
36												A1	50+288	A1										
												A2		A2										
37												A1	50+471	A1										
												A2		A2										
38												A1	50+700	A1										
												A2		A2										
39												A1	51+045	A1										
												A2		A2										
40												A1	51+294	A1										
												A2		A2										
41												A1	52+130	A1										
												A2		A2										
42												A1	52+390	A1										
												A2		A2										
43												A1	53+804	A1										
												A2		A2										

9.4.2 Status of Underpass

Box Underpass

SN	LHS												BUP Chainage	RHS										
	Protection Work	Parapet Wall	Top Slab	Top Haunch	Wall Final Lift	Wall 2nd Lift	Wall 1st Lift	Haunch	Raft	PCC/Granular Bed	Layout & Excavation	Abutment		Abutment	Layout & Excavation	PCC/Granular Bed	Raft	Haunch	Wall 1st Lift	Wall 2nd Lift	Wall Final Lift	Top Haunch	Top Slab	Parapet Wall	Protection Work
1												A1	39+123	A1											
												A2		A2											
2												A1	39+360	A1											
												A2		A2											
3												A1	43+430	A1											
												A2		A2											
4												A1	51+725	A1											
												A2		A2											
5												A1	42+165	A1											
												A2		A2											

9.4.3 Status of Minor Bridge

Minor Bridge

SN	LHS													Minor BridgeChainage												
	Miscellaneous Item	Protection Work	Parapet Wall	Top Slab	Top Haunch	Wall Final Lift	Wall 2nd Lift	Wall 1st Lift	Haunch	Raft	PCC/Granular Bed	Layout & Excavation	Abutment		Abutment	Layout & Excavation	PCC/Granular Bed	Raft	Haunch	Wall 1st Lift	Wall 2nd Lift	Wall Final Lift	Top Haunch	Top Slab	Parapet Wall	Protection Work	Miscellaneous Item
1													A1	40+344	A1												
													A2		A2												
2													A1	42+120	A1												
													A2		A2												
3													A1	44+798	A1												
													A2		A2												
4													A1	46+572	A1												
													A2		A2												
5													A1	49+807	A1												
													A2		A2												
6													A1	51+988	A1												
													A2		A2												
7													A1	53+067	A1												
													A2		A2												
8													A1	53+200	A1												
													A2		A2												
9													A1	55+742	A1												
													A2		A2												
10													A1	56+998	A1												
													A2		A2												
11													A1	58+103	A1												
													A2		A2												
12													A1	59+732	A1												
													A2		A2												
13													A1	61+029	A1												
													A2		A2												

9.4.4 Status of Major Bridge

SN	LHS													RHS										
	Miscellaneous Item	Crash Barrier	Approach Slab	Desk Slab	RCC Girder	Dirt Wall	Pier Cap	Pier Shaft	Pile Cap	Pile	Layout & Excavation	Span		Span	Layout & Excavation	Pile	Pile Cap	Pier Shaft	Pier Cap	Dirt Wall	RCC Girder	Desk Slab	Approach Slab	Crash Barrier	Miscellaneous Item
1												A1	48+557	A1											
												P1		P1											
												P2		P2											
												A2		A2											
2												A1	54+460	A1	Existing										
												P1		P1											
												A2		A2											
	0	0	0	0	0	0	1	2	6	6	6	Total		4	4	4	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0.5	1	3	3	3	Completed		2	2	2	0	0	0	0	0	0	0	0	0

9.4.5 Status of Vehicle Underpass

SN	LHS												VUP Chainage	RHS											
	Miscellaneous Item	Crash Barrier	Approach Slab	Desk Slab	RCC Girder	Dirt Wall	Abutment Cap	Abutment Shaft	Abutment Pile Cap	Abutment Pile	Layout & Excavation	Abutment		Abutment	Layout & Excavation	Abutment Pile	Abutment Pile Cap	Abutment Shaft	Abutment Cap	Dirt Wall	RCC Girder	Desk Slab	Approach Slab	Crash Barrier	Miscellaneous Item
1												A1	40+522	A1											
												A2		A2											
2												A1	52+750	A1											
												A2		A2											
3												A1	54+117	A1											
												A2		A2											
4												A1	55+046	A1											
												A2		A2											
5												A1	59+983	A1											
												A2		A2											

9.4.6 Status of Light Vehicle Underpass

SN	LHS												LVUP Chainage	RHS											
	Protection Work	Parapet Wall	Top Slab	Top Haunch	Wall Final Lift	Wall 2nd Lift	Wall 1st Lift	Haunch	Raft	PCC/Granular Bed	Layout & Excavation	Abutment		Abutment	Layout & Excavation	PCC/Granular Bed	Raft	Haunch	Wall 1st Lift	Wall 2nd Lift	Wall Final Lift	Top Haunch	Top Slab	Parapet Wall	Protection Work
1												A1	41+468	A1											
												A2	LVUP	A2											
2												A1	42+811	A1											
												A2	LVUP	A2											
3												A1	46+878	A1											
												A2	LVUP	A2											
4												A1	50+858	A1											
												A2	LVUP	A2											

9.4.7 Status of ROB

SN	LHS													RHS											
	Miscellaneous Item	Crash Barrier	Approach Slab	Desk Slab	RCC Girder	Dirt Wall	Abutment Cap	Abutment Shaft	Abutment Pile Cap	Abutment Pile	Layout & Excavation	Abutment		Abutment	Layout & Excavation	Abutment Pile	Abutment Pile Cap	Abutment Shaft	Abutment Cap	Dirt Wall	RCC Girder	Desk Slab	Approach Slab	Crash Barrier	Miscellaneous Item
1												A1	40+978	A1											
												A2		A2											
2												A1	53+328	A1											
												A2		A2											

CHAPTER-10

QUALITY CONTROL AND MATERIAL

10.1 Quality Control

The execution of works is mainly governed by the specified Technical Specifications for the project. The quality control of the works is required to be monitored on daily basis both at site and in the laboratory. Standard formats have been devised to control the required quality of the works. The Concessionaire Engineers are monitoring the required quality control works and maintaining the records accordingly for each item of works being executed.

10.2 Site Laboratory

The Site Laboratory is established at Base Camp located at CH: -55+200. All the required material tests are being conducted in the laboratory for the project road.

10.3 Materials Testing & Third Party Test

The testing to be carried out in the site laboratory includes tests of soil, aggregates, cement, steel, sand, embankment fill, sub grade, granular subbase and cement concrete. The details of test conducted up to 31st July, 2026 are enclosed.

10.3.1 Soil and Agreegates

The test reports for borrow area earth for available borrow area are approved & test reports for Aggregates are also approved for the available Quarry. Test reports for new borrow area earth are submitted to IE for approval.

10.3.2 Cement

The Concessionaire is using approved sources of Cement as Dalmia Cement (OPC 53 Grade), Star Cement (OPC 53 Grade), & Max Cement (OPC 53 Grade) for the project work.

10.3.3 Reinforcement Steel

The Concessionaire is using approved sources of TMT from M/s Rashmi Metaliks Limited, M/s Shyam Steel Industries limited, M/s SRMB Srijan Private Limited.

10.3.4 Status of maerials source approval & Mix Design

Cement				
Sr. No.	**Brand Name**	**Letter No.**	**Status**	**IE Letter No.**
1.	Dalmia Cement	MKCIL/ASSAM/PKG-04/192	Approved	AIPPL-AYOLEEZA/IE/NHIDCL/Karimganj/ Pkg-04/037
2.	Max Cement	MKCIL/ASSAM/PKG-04/199	Approved	AIPPL-AYOLEEZA/IE/NHIDCL/Karimganj/ Pkg-04/039
3.	Star Cement	MKCIL/ASSAM/PKG-04/198	Approved	AIPPL-AYOLEEZA/IE/NHIDCL/Karimganj/ Pkg-04/038

Reinforcement Steel				
Sr. No.	**Brand Name**	**Letter No.**	**Status**	**IE Letter No.**
1.	Rashmi Metaliks Limited	MKCIL/ASSAM /PKG-04/196	Approved	AIPPL-AYOLEEZA/IE/NHIDCL/Karimganj/ Pkg-04/045A
2.	Shyam Steel Industries Ltd.	MKCIL/ASSAM /PKG-04/195	Approved	AIPPL-AYOLEEZA/IE/NHIDCL/Karimganj/ Pkg-04/040
3.	SRMB Srijan Pvt. Ltd.	MKCIL/ASSAM /PKG-04/197	Approved	AIPPL-AYOLEEZA/IE/NHIDCL/Karimganj/ Pkg-04/046
4.	Elegant steel	MKCIL/ASSAM /PKG-04/214	Approved	AIPPL-AYOLEEZA/IE/NHIDCL/Karimganj/ Pkg-04/047
5.	Tata Steel (GFRP)	MKCIL/ASSAM /PKG-04/213	Approved	

Admixture				
Sr. No.	**Brand Name**	**Letter No.**	**Status**	**IE Letter No.**
1.	Berger Paints Pvt. Ltd.	MKCIL/ASSAM/PKG-04/200	Approved	AIPPL-AYOLEEZA/IE/ NHIDCL/Karimganj/Pkg-04/045
2.	CHRYSO India Pvt. Ltd	MKCIL/ASSAM/PKG-04/201	Approved	AIPPL-AYOLEEZA/IE/ NHIDCL/Karimganj/Pkg-04/042
3.	CICO Technologies Ltd.	MKCIL/ASSAM/PKG-04/202	Approved	AIPPL-AYOLEEZA/IE/ NHIDCL/Karimganj/Pkg-04/043
4.	FOSROC Chemicals (India) Ltd.	MKCIL/ASSAM/PKG-04/203	Approved	AIPPL-AYOLEEZA/IE/ NHIDCL/Karimganj/Pkg-04/044
5.	Vista Chemtech Pvt. Ltd.	MKCIL/ASSAM/PKG-04/204	Approved	AIPPL-AYOLEEZA/IE/ NHIDCL/Karimganj/Pkg-04/045
6.	TP Buildtech Limited	MKCIL/Assam/Pkg- 4/400	Approved	AIPPL-AYOLEEZA/IE/ NHIDCL/Karimganj/Pkg-04/168
7.	Hexatron Industries Limited	MKCIL/Assam/Pkg- 4/403	Approved	AIPPL-AYOLEEZA/IE/ NHIDCL/Karimganj/Pkg-04/169

Other					
Sr. No.	**Brand Name**	**Description**	**Letter No.**	**Status**	**IE Letter No.**
1.	Z-TECH (INDIA) PRIVATE LIMITED	Re-Wall	MKCIL/ASSAM/PKG-04/332		

2.	MAURER SANFIELD (INDIA) LIMITED	Bearing	MKCIL/ASSAM/PKG-04/333		

Lab Mix Design & Other				
Sr. No.	**Grade of Concrete**	**Submission Letter No.**	**Status**	**Approval IE Letter No.**
1.	M-10 PCC	MKCIL/Assam/PKG- 4/475	Approved	AIPPL-AY0LEEZA/IE/NHIDCL/Karimganj/PKG04/475
2.	M-15 PCC	MKCIL/Assam/PKG- 4/337	Approved	AIPPL-AY0LEEZA/IE/NHIDCL/Karimganj/PKG04/124
3.	M-20 PCC	MKCIL/Assam/PKG- 4/475	Approved	AIPPL-AY0LEEZA/IE/NHIDCL/Karimganj/PKG04/475
4.	M-20 RCC	MKCIL/Assam/PKG- 4/475	Approved	AIPPL-AY0LEEZA/IE/NHIDCL/Karimganj/PKG04/475
5.	M-25 RCC	MKCIL/Assam/Pkg- 4/599	Approved	AIPPL-AY0LEEZA/IE/NHIDCL/Karimganj/PKG04/251
5.	M-30 RCC	MKCIL/Assam/Pkg- 4/337	Approved	AIPPL-AY0LEEZA/IE/NHIDCL/Karimganj/PKG04/124
6.	M-35 RCC	MKCIL/Assam/Pkg- 4/465	Approved	AIPPL-AY0LEEZA/IE/NHIDCL/Karimganj/PKG04/201
7.	M-35 Pile	MKCIL/Assam/Pkg- 4/418	Approved	AIPPL-AY0LEEZA/IE/NHIDCL/Karimganj/PKG04/173
8.	M-40 RCC	MKCIL/Assam/Pkg- 4/465	Approved	AIPPL-AY0LEEZA/IE/NHIDCL/Karimganj/PKG04/201
9.	M-40 Pile	MKCIL/Assam/Pkg- 4/465	Approved	AIPPL-AY0LEEZA/IE/NHIDCL/Karimganj/PKG04/212
10	M-55 PSC	MKCIL/ASSAM/PKG-04/594	Approved	AIPPL-AY0LEEZA/IE/NHIDCL/Karimganj/PKG04/254
11	M-45 RCC	MKCIL/ASSAM/PKG-04/599	Approved	AIPPL-AY0LEEZA/IE/NHIDCL/Karimganj/PKG04/251
12	GSB-V Mix Design	MKCIL/ASSAM/PKG-04/642	Submited	

10.3.5 Details of QC Test conducted during the month

Sr.No.	Name of test	Reference as per IS/ MORTH	Frequency of Tests	Total Tests Conducted upto previous Month			No. of Tsts Conducted during this Month			No. of Tests Conducted upto this Month			No. of tests checked by IE			% Checked by AE	Remarks
				Tested	Passed	Failed	Tested	Passed	Failed	Tested	Passed	Failed	Tested	Passed	Failed		
LAB & FIELD TESTS																	
(I) OGL samples		**MORTH 305**															
1.1	Free Swell Index (FSI)	IS : 2720 (P-40)	1 test / every 250 m interval	194	194	0	0	0	0	194	194	0	20	20	0	10.31	
1.2	Grain size analysis	IS : 2720 (P-4)	1 test / every 250 m interval	194	194	0	0	0	0	194	194	0	20	20	0	10.31	
1.3	Atterberg limits (LL & PI)	IS : 2720 (P-5)	1 test / every 250 m interval	194	194	0	0	0	0	194	194	0	20	20	0	10.31	
1.4	Proctor test (MDD Vs OMC)	IS : 2720 (P-8)	1 test / every 250 m interval	194	194	0	0	0	0	194	194	0	20	20	0	10.31	
1.5	4 days soaked CBR	IS : 2720 (P-16)	as required	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
(II) Borrow area samples		**MORTH 305**															
2.1	Free Swell Index (FSI)	IS : 2720 (P-40)	2 test / 3000 m3	544	544	0	50	50	0	594	594	0	55	55	0	9.26	
2.2	Grain size analysis	IS : 2720 (P-4)	2 tests / 3000 m3	544	544	0	50	50	0	594	594	0	55	55	0	9.26	
2.3	Atterberg limits (LL & PI)	IS : 2720 (P-5)	2 tests / 3000 m3	544	544	0	50	50	0	594	594	0	55	55	0	9.26	
2.4	Proctor test (MDD Vs OMC)	IS : 2720 (P-8)	2 tests / 3000 m3	544	544	0	50	50	0	594	594	0	55	55	0	9.26	
2.5	CBR	IS : 2720 (P-16)	One Set of three specimen tests As required by Engineer	151	151	0	35	35	0	186	186	0	19	19	0	10.22	
2.6	Soluble sulphate content	IS : 2720 (P-16)	1 test / 3000 m3	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
(III) Field Density Tests		**MORTH 305**															
3.1	Field density test on OGL	IS : 2720 (P-28)	1 set of tests / 3000m2	68	68	0	0	0	0	68	68	0	7	7	0	10.29	
3.2	Field density test on Emb.	IS : 2720 (P-28)	1 set of tests / 3000m2	363	363	0	0	0	0	363	363	0	40	40	0	11.02	
3.3	Field density test on Subgrade	IS : 2720 (P-28)	1 set of tests / 2000 m2	109	109	0	0	0	0	109	109	0	11	11	0	10.09	
3.4	Field density test on GSB	IS : 2720 (P-28)	1 tests / 1000m2	51	51		0	0	0	51	51	0	6	6	0	11.76	
3.5	Field density test on WMM	IS : 2720 (P-28)	1 set(3 pit) of tests / 1000 m2														
3.6	Field density test on AIL	IS : 2720 (P-28)	1 set(3 pit) of tests / 1000 m2														
3.7	Field density test on Shoulder	IS : 2720 (P-28)	1 set of tests /2000 m2														
3.8	Field density test on Median	IS : 2720 (P-28)	1 set of tests /3000 m2														
(IV) Coarse Agg. for Concrete		**MORTH 1000**															
4.1	Gradation	IS : 2386 (P-1)	1 test / day	238	238	0	31	31	0	269	269	0	27	27	0	10.04	
4.2	FI & EI	IS : 2386 (P-1)	1 test for source / month	32	32	0	4	4	0	36	36	0	4	4	0	11.11	
4.3	Aggregate Impact Value	IS : 2386 (P-4)	1 test for source / month	39	39	0	4	4	0	43	43	0	4	4	0	9.30	
4.4	Specific Gravity	IS : 2386 (P-3)	1 test for source / month	5	5	0	0	0	0	5	5	0	0	0	0	0.00	
4.5	Water Absorption	IS : 2386 (P-3)	1 test for source / month	5	5	0	0	0	0	5	5	0	0	0	0	0.00	
4.6	Deleterious Content	IS : 2386 (P-1)	1 test / Source	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
4.7	Moisture correction	IS : 2386 (P-3)	1 test / Day	210	210	0	31	31	0	241	241	0	25	25	0	10.37	
(V) Fine Agg. for Concrete		**0**															
5.1	Gradation	IS : 383	1 test / day	238	238	0	31	31	0	269	269	0	27	27	0	10.04	
5.2	Specific Gravity	IS : 2386 (P-3)	1 test for source / month	8	8	0	3	3	0	11	11	0	0	0	0	0.00	
5.3	Water Absorption	IS : 2720 (P-3)	1 test for source / month	8	8	0	3	3	0	11	11	0	0	0	0	0.00	
5.4	Silt Content	IS : 383	1 test / day	185	185	3	31	31	0	216	216	3	22	22	0	10.19	
5.5	Moisture correction	IS : 2386 (P-3)	1 test / day	238	238	0	31	31	0	269	269	0	27	27	0	10.04	
(VI) Site Concrete Cube Compressive strength Tests																	
5.6	**For M 10 Grade**																
5.7	for 7 days		for 7 days	22	22	0	1	1	0	23	23	0	3	3	0	13.04	
5.8	for 28 days		for 28 days	36	36	0	3	3	0	39	39	0	4	4	0	10.26	
	For M 15 Grade																
6.1	for 7 days	IS : 516	for 7 days	87	87	0	6	6	0	93	93	0	9	9	0	9.68	
6.2	for 28 days	IS : 516	for 28 days	117	117	0	6	6	0	123	123	0	12	12	0	9.76	
	For M 20Grade																
6.3	for 7 days	IS : 516	for 7 days	0	0		0	0									
6.4	for 28 days	IS : 516	for 28 days	0	0		0	0									

For M 20Grade for KERB																	
6.5	for 7 days	IS: 516	for 7 days	0	0		0	0									
6.6	for 28 days	IS: 516	for 28 days	0	0		0	0									
For M 25 Grade																	
6.7	for 7 days	IS: 516	for 7 days	17	17	0	12	12	0	29	29	0	2	2	0	6.90	
6.8	for 28 days	IS: 516	for 28 days	25	25	0	0	0	0	25	25	0	3	3	0	12.00	
For M 30 Grade																	
6.9	for 7 days	IS: 516	for 7 days	235	235	0	4	4	0	239	239	0	24	24	0	10.04	
6.10	for 28 days	IS: 516	for 28 days	449	449	0	0	0	0	449	449	0	45	45	0	10.02	
For M 35 Grade																	
6.11	for 7 days	IS: 516	for 7 days	15	15	0	5	5	0	20	20	0	2	2	0	10.00	
6.12	for 28 days	IS: 516	for 28 days	43	43	0	6	6	0	49	49	0	5	5	0	10.20	
For M 35 Pile																	
6.13	for 7 days	IS: 516	for 7 days	13	13	0	0	0	0	13	13	0	2	2	0	15.38	
6.14	for 28 days	IS: 516	for 28 days	24	24	0	0	0	0	24	24	0	3	3	0	12.50	
For M 40 Pile Grade																	
6.15	for 7 days	IS: 516	for 7 days	58	58	0	0	0	0	58	58	0	8	8	0	13.79	
6.16	for 28 days	IS: 516	for 28 days	182	182	0	0	0	0	182	182	0	19	19	0	10.44	
For M 40 RCC Grade																	
6.17	for 7 days	IS: 516	for 7 days	40	40	0	19	19	0	59	59	0	6	6	0	10.17	
6.18	for 28 days	IS: 516	for 28 days	68	68	0	61	61	0	129	129	0	13	13	0	10.08	
For M 45 Grade																	
6.19	for 7 days	IS: 516	for 7 days	2	2	0	6	6	0	8	8	0	1	1	0	12.50	
6.2	for 28 days	IS: 516	for 28 days	3	3	0	6	6	0	9	9	0	1	1	0	11.11	
For M 55 PSC Grade																	
6.21	for 7 days	IS: 516	for 7 days	18	18	0	3	3	0	21	21	0	2	2	0	9.52	
6.22	for 28 days	IS: 516	for 28 days	41	41	0	7	7	0	48	48	0	5	5	0	10.42	
For Grouting of PSC Girders																	
6.21	for 7 days	MORTH	for 7 days														
6.22	for 28 days	MORTH	for 28 days														
(VII) Cement tests																	
7.1	Fineness of cement	IS: 4031 (P-1)	1 test / lot of cement	24	24	0	3	3	0	27	27	0	3	3	0	11.11	
7.2	Normal consistency	IS: 4031 (P-4)	1 test / lot of cement	24	24	0	3	3	0	27	27	0	3	3	0	11.11	
7.3	Initial, final setting times	IS: 4031 (P-5)	1 test / lot of cement	24	24	0	3	3	0	27	27	0	3	3	0	11.11	
7.4	Compressive strength - 03 days	IS: 516	for 3 days	30	30	0	3	3	0	33	33	0	3	3	0	9.09	
7.5	- 7 days	"	for 7 days	27	27	0	4	4	0	31	31	0	3	3	0	9.68	
7.6	- 28 days	"	for 28 days	39	39	0	5	5	0	44	44	0	4	4	0	9.09	
(VIII) SUB-BASE (GSB)		**MORTH 401**															
8.1	Gradation	Table 400-2	1 test /400 m3	31	31	0	0	0	0	31	31	0	4	4	0	12.90	
8.2	Atterberg limits (LL & PI)	IS: 2720 (P-5)	1 test /400 m3	31	31	0	0	0	0	31	31	0	3	3	0	9.68	
8.3	4 days soaked CBR	IS: 2720 (P-16)	1 test per source & as required	3	3	0	0	0	0	3	3	0	0	0	0	0.00	
8.4	Water Absorption	IS: 2720 (P-3)	1 test per source & as required	3	3	0	0	0	0	3	3	0	0	0	0	0.00	
8.5	AIV	IS: 2386 (P-4)	1 test per source & as required	3	3	0	0	0	0	3	3	0	1	1	0	33.33	
8.6	Proctor test (MDD Vs OMC)	IS: 2720 (P-8)	1 test per source & as required	3	3	0	0	0	0	3	3	0	1	1	0	33.33	
(IX) BASE (WMM)		**MORTH 406**															
9.1	Gradation	Table 400-13	1 test / 200 m3														
9.2	Atterberg limits (LL & PI)	IS: 2720 (P-5)	1 test / 200 m3														
9.3	Proctor test (MDD Vs OMC)	IS: 2720 (P-8)	As required														
9.4	A.I.V	IS: 2386 (P-4)	1 test / 1000 m3														
9.5	FI & EI	IS: 2386 (P-1)	1 test /500 m3														
9.6	Water Absorption	IS: 2386 (P-3)	As required														
9.7	L.A.V.	IS: 2386 (P-4)	as required														
9.8	Soundeness	IS: 2386 (P-3)	As required														
(X) DRY LEAN CONCRETE		**MORTH 600**															
10.1	Gradation	Table 600-1	1 test / 200 m3														
10.2	Field density test (FDD)	IS: 2720 (P-28)	1 set(3 pit) of tests / 1000 m2														
10.3	Proctor test (MDD Vs OMC)	IS: 2720 (P-8)	As required														
10.4	A.I.V	IS: 2386 (P-4)	1 test / 1000 m3														
10.5	FI & EI	IS: 2386 (P-1)	1 test /500 m3														
10.6	Water Absorption	IS: 2386 (P-3)	As required														
10.7	Moisture correction	IS: 2386 (P-3)	1 test / Day														
10.8	for 7 days (Cube)	IS: 516	for 7 days														
10.9	for 28 days (Cube)	IS: 516	for 28 days														
(XI) PAVEMENT QUALITY		**MORTH 600**															
11.1	Gradation	Table 600-1	1 test / 200 m3														
11.4	A.I.V	IS: 2386 (P-4)	1 test / 1000 m3														
11.5	FI & EI	IS: 2386 (P-1)	1 test /500 m3														
11.6	Water Absorption	IS: 2386 (P-3)	As required														
11.7	Slump Test	IS: 1199	1 test each dumper														
11.8	for 7 days (Cube)	IS: 516	for 7 days														
11.9	for 28 days (Cube)	IS: 516	for 7 days														
11.10	for 7 days (Beams)	IS: 516	for 7 days														
11.11	for 28 days (Beams)	IS: 516	for 7 days														

(XII) DENSE BITUMINOUS MACADAM (DBM)																	
12.1	Binder Content & Gradation	As per MORST & H	1 test / 400 MT Mix														
12.2	Combined Gradation	As per MORST & H	1 test / 400 MT Mix														
12.3	Marshall Test (in Sets)	ASTM D 1559	1set/ 400 MT Mix														
12.4	A.I.V	IS : 2386 (P-4)	1 test / 350 m3 of Agg.														
12.5	FI & EI	IS : 2386 (P-1)	1 test / 350 m3 of Agg.														
12.6	Water Absorption & Specific Gravity	IS : 2386 (P-3)	1 test per source & as required														
12.7	L.A.V.	IS : 2386 (P-4)	1 test per source & as required														
12.8	Stripping Value	IS : 6241	1 test per source & as required														
12.9	Density of compacted layer	MoRT&H Sec.900	1 test / 700 Sq.m														
12.10	Soundeness	IS : 2386 (P-3)	1 test per source & as required														
12.11	Sand equivalent test	IS : 2720(P-37)	1 test per source & as required														
12.12	plasticity Index	MoRT&H Sec.900	1 test per source & as required														
12.13	percentage of Fractured face	MoRT&H Sec.900	1 test per source & as required														
12.14	Polished stone value	BS: 812 (P-114)	1 test per source & as required														
(XIII) BITUMINOUS CONCRETE (BC)																	
13.1	Binder Content & Gradation	As per MORST & H	1 test / 400 MT Mix														
13.2	Combined Gradation	As per MORST & H	1 test / 400 MT Mix														
13.3	Individual Gradation	As per MORST & H	1 test day														
13.4	Marshall Test (in Sets)	ASTM D 1559	1set/ 400 MTMix														
13.5	Maximum Sp.Gravity(Gmm)	ASTM D 2041	1set/ 400 MTMix														
13.6	A.I.V	IS : 2386 (P-4)	1 test / 350 m3 of Agg.														
13.7	FI & EI	IS : 2386 (P-1)	1 test / 350 m3 of Agg.														
13.8	Water Absorption & Specific Gravity	IS : 2386 (P-3)	As required														
13.9	L.A.A.V	IS : 2386 (P-4)	As required														
14.0	Stripping Value	IS : 6241	As required														
14.1	Core Density Test	MoRT&H Sec.900	1 test / 700 Sq.m														
14.2	Soundeness	IS : 2386 (P-3)	1 test per source & as required														
14.3	Sand equivalent test	IS : 2720(P-37)	1 test per source & as required														
14.4	plasticity Index	MoRT&H Sec.900	1 test per source & as required														
(XIV) Cement Treated Sub		**IRC-37: 2018**															
14.1	Gradation	Table 400-1	1 test / 200 m3														
14.2	Atterberg limits (LL & PI)	IS : 2720 (P-5)	1 test / 200 m3														
14.3	Proctor test (MDD Vs OMC)	IS : 2720 (P-8)	As required														
14.4	A.I.V	IS : 2386 (P-4)	1 test / 1000 m3														
14.5	UCS Test	is: 516	One Set day (03 nos)														
14.6	Field density test on CTSB	IS : 2720 (P-28)	1 set(3 pit) of tests / 1000 m2														
(XV) BITUMEN-VG-40																	
15.1	Specific Gravity at 27^0C	IS : 2380 (P-4)	As required														
15.2	Softening Point(^{0}c)	IS : 1205	1 test per Lot														
15.3	Penetration at 25^0c 100gm 5 Sec	IS : 1203	1 test per Lot														
15.4	Ductility at 27^0c	IS : 1208	1 test per Lot														
15.5	Viscosity at 60^0/135^0C (CST)	IS : 1206	As required														
(XVI) MODIFIED BITUMEN (PMB 76E-10)																	
16.1	Specific Gravity at 27^0C	IS : 2380 (P-4)	As required														
16.2	Softening Point (^{0}C)	IS : 1205	1 test per Lot														
16.3	Seperation, difference in softening point (0^0C)	IS : 15462: 2019	1 test per Lot														
16.4	Elastic Recovery at 15^0C	IS : 15462: 2019	1 test per Lot														
(XVII) RATE OF SPRAY																	
17.1	Prime coat	IS : 8887	1 test / 500 sqm														
17.2	Tack Coat	IS : 8887	1 test / 500 sqm														

THIRD PARTY TESTS																	
(XVIII) COARSE AGGREGATE		**MORTH 1000**															
18.1	Gradation	IS : 2386 (P-1)	1 test / source	1	1	0	0	0	0	1	1	0					
18.2	FI & EI	IS : 2386 (P-1)	1 test / source	1	1	0	0	0	0	1	1	0					
18.3	Aggregate Impact Value	IS : 2386 (P-4)	1 test / source	1	1	0	0	0	0	1	1	0					
18.4	Specific Gravity	IS : 2386 (P-3)	1 test / source	1	1	0	0	0	0	1	1	0					
18.5	Water Absorption	IS : 2386 (P-3)	1 test / source	1	1	0	0	0	0	1	1	0					
18.6	Deleterious Content	IS : 2386 (P-1)	1 test / source	1	1	0	0	0	0	1	1	0					
18.7	L.A.V.	IS : 2386 (P-4)	1 test / source	1	1	0	0	0	0	1	1	0					
18.8	Alkali Aggregate Reactivity	IS : 2386 (P-7)	1 test / source	1	1	0	0	0	0	1	1	0					
18.9	Soundeness	IS : 2386(P-5)	1 test / source	1	1	0	0	0	0	1	1	0					
18.10	Petrographic Examination	IS : 2386 (P-8)	1 test / source	1	1	0	0	0	0	1	1	0					
18.11	Stone Polished Value	BS-812 (P-114)	1 test / source	1	1	0	0	0	0	1	1	0					
(XIX) FINE AGGREGATE																	
19.1	Gradation	IS : 383	1 test / source	1	1	0	0	0	0	1	1	0					
19.2	Specific Gravity	IS : 2386 (P-3)	1 test / source	1	1	0	0	0	0	1	1	0					
19.3	Water Absorption	IS : 2386 (P-3)	1 test / source	1	1	0	0	0	0	1	1	0					
19.4	Deleterious Content	IS : 2386 (P-1)	1 test / source	1	1	0	0	0	0	1	1	0					
19.5	Silt Content	IS : 2386 (P-4)	1 test / source	1	1	0	0	0	0	1	1	0					
19.6	Alkali Aggregate Reactivity	IS : 2386 (P-7)	1 test / source	1	1	0	0	0	0	1	1	0					
19.7	Soundeness	IS : 2386(P-5)	1 test / source	1	1	0	0	0	0	1	1	0					
19.8	Organic Impurities	IS : 2386 (P-8)	1 test / source	1	1	0	0	0	0	1	1	0					
19.9	Fineness Modulus	IS : 383	1 test / source	1	1	0	0	0	0	1	1	0					
(XX) STEEL -MORTH 1000																	
20.1	Physical properties	IS : 1786	< 10mm - 1 sample/25 MT, 10-16mm-1sample/35 MT,	12	12	0	0	0	0	12	12	0					
20.2	Chemical properties	IS : 1786	> 16mm - 1 sample/45 MT	12	12	0	0	0	0	12	12	0					
(XXI) WATER -MORTH 1000																	
21.1	Suitability for construction	IS : 456	1 test per source & as required	2	2	0	0	0	0	2	2	0					
(XXII) ADMIXTURE -MORTH 1000																	
22.1	Physical & Chemical properties	IS : 9103	1 test per Lot	1	1	0	0	0	0	1	1	0					
(XXIII) CEMENT 53 GRADE OPC -MORTH 1000																	
23.1	Physical & Chemical	IS : 8112	1 test / source	1	1	0	0	0	0	1	1	0					
(XXIV) SOIL - Borrow Area																	
24.1	Mechanical	IS : 2720 (P-39)	1 test / source														
(XXV) NP-4 HUME PIPE TEST																	
25.1	600 MM	IS : 458	1 test per Lot of 50 Pipes														
(XXVI) BITUMEN & BITUMEN EMULSION																	
26.1	Bitumen	IS : 73	1 test per Lot														
26.2	Bitumen Emulsion SS-1	IS : 8887	1 test per Lot														
26.3	Bitumen Emulsion RS-1	IS : 8887	1 test per Lot														
(XXVII) CURING COMPOUND																	
27.1	Physical & Chemical properties		1 test per Lot														

CHAPTER-11

CORRESPONDENCE

11.1 Outward Letter

Sr. No.	Letter No.	Date	Subject	To
1.	MKCIL/ASSAM/ PKG-04/739	01-07-2026	Regarding repair and maintenance of existing highway	GM NHIDCL
2.	MKCIL/ASSAM/ PKG-04/743	04-07-2026	Notification regarding closure of Major Bridge (near Gumrah area) as per Article 28, Force Majeure of the Concession Agreement.	The Team Leader
3.	MKCIL/ASSAM/ PKG-04/747	07-07-2026	Regarding Submission of third-party test report Star cement, Admixture Chryso (Delta G6280), Chryso (Optima S6228), Construction water.	The Team Leader
4.	MKCIL/ASSAM/ PKG-04/748	07-07-2026	Submission of Monthly Progress Report for the Month of June 2026.	The Team Leader
5.	MKCIL/ASSAM/ PKG-04/749	07-07-2026	Submission of Company Profile & Credential of M/s Sika India Pvt Ltd for Source Approval of Admixture.	The Team Leader
6.	MKCIL/ASSAM/ PKG-04/751	08-07-2026	Regarding Submission of Typical Design and Drawing of Structure Retaining Wall.	The Team Leader
7.	MKCIL/ASSAM/ PKG-04/752	08-07-2026	Submission of Project Video Recording.	The Team Leader
8.	MKCIL/ASSAM/ PKG-04/755	11-07-2026	Regarding Submission of Revised Stressing Details D&D of PSC Girder for VUP at Ch. 54+117 (1x20).	The Team Leader
9.	MKCIL/ASSAM/ PKG-04/758	13-07-2026	Request for Shutdown of 11KV/33KV-LT Line from 10:00 AM to 12:00 PM.	The Sub-Divisional Engineer, Badarpur
10.	MKCIL/ASSAM/ PKG-04/761	15-07-2026	Regarding Submission of Revised Plan and Profile for approval.	The Team Leader
11.	MKCIL/ASSAM/ PKG-04/766	18-07-2026	Reminder for Delay in Handing Over Encumbrance-Free Right of Way (RoW) in line with Article 10 and Clauses 10.3 & 10.4 of the Concession Agreement.	GM NHIDCL
12.	MKCIL/ASSAM/ PKG-04/767	20-07-2026	Regarding Submission of Detailed Drawing of Toll Island & Bullnose and Weigh Bridge.	The Team Leader
13.	MKCIL/ASSAM/ PKG-04/777	20-07-2026	Regarding Deposition of Forest Royalty under the 3rd Schedule of the Assam Minor Mineral Concession Rules, 2013.	GM NHIDCL, PMU Karimganj
14.	MKCIL/ASSAM/ PKG-04/778	20-07-2026	Regarding Routine Maintenance and Repair Work of Existing Road.	GM NHIDCL
15.	MKCIL/ASSAM/ PKG-04/782	23-07-2026	Regarding Submission of Plan and Profile for Lined Drain.	The Team Leader
16.	MKCIL/ASSAM/ PKG-04/789	28-07-2026	Regarding Submission of Borrow area No. 08 Test Result for source approval.	The Team Leader
17.	MKCIL/ASSAM/ PKG-04/790	28-07-2026	Regarding Submission of Concrete mix design of Grade- M-10PCC, M15PCC, M-20PCC, M-20RCC, M-25RCC, CM-30RCC, M35RCC, M-40RCC, M-45RCC for approval.	The Team Leader
18.	MKCIL/ASSAM/ PKG-04/796	30-07-2026	Regarding Deposition of Forest Royalty under the 3rd Schedule of the Assam Minor Concession Rules, 2013.	The Team Leader

11.2 Inward Letter (NHIDCL & AIPPL)

Sr. No.	Letter No.	Date	Subject	From
1.	AIPPL-AYOLEEZA/IE/NHIDCL/Karimganj/PKG04/308	04-07-2026	Payment during Construction period on Achievement of Payment Milestone-IV as per MoRTH Circular dated 01.04.2026.	GM NHIDCL
2.	AIPPL-AYOLEEZA/IE/NHIDCL/Karimganj/PKG04/315	14-07-2026	Safety Precautionary Measure at Site - Reg.	MKCIL
3.	AIPPL-AYOLEEZA/IE/NHIDCL/Karimganj/PKG04/317	15-07-2026	Approval of Third-Party Test Reports for Star Cement, Chryso Admixture (Delta G6280), Chryso Admixture (Optima S6228) and Construction Water.	MKCIL
4.	AIPPL-AYOLEEZA/IE/NHIDCL/Karimganj/PKG 04/318	15-07-2026	Regarding Profile & Credential M/s Sika India Pvt. Ltd. For Source Approval of Admixture.	MKCIL
5.	AIPPL-AYOLEEZA/IE/NHIDCL/Karimganj/PKG04/320	22-07-2026	Joint Inspection of Project Site Ch.38+600.	MKCIL
6.	AIPPL-AYOLEEZA/IE/NHIDCL/Karimganj/PKG04/321	24-07-2026	Regarding Submission of Typical Design and Drawing of Lined Drain.	MKCIL
7.	AIPPL-AYOLEEZA/IE/NHIDCL/Karimganj/PKG04/322	24-07-2026	Regarding Submission of Typical Design and Drawing of Structure Retaining Wall.	MKCIL
8.	AIPPL-AYOLEEZA/IE/NHIDCL/Karimganj/PKG04/323	24-07-2026	Regarding Submission of Revised Stressing Details D&D of PSC Girder for VUP at Ch.54+117 (1x20).	MKCIL
9.	AIPPL-AYOLEEZA/IE/NHIDCL/Karimganj/PKG04/324	31-07-2026	Regarding Compliance of Observations / Recommendations on Traffic Management Plan (TMP) / Traffic Control Plan (TCP)-Reg.	MKCIL
10.	AIPPL-AYOLEEZA/IE/NHIDCL/Karimganj/PKG04/325	31-07-2026	Reg: -Review and Approval of Borrow area No 08 for Embankment and Subgrade.	MKCIL
11.	NHIDCL/PMU-Karimganj/MKC/Pkg-4/2026-27/836	03-07-2026	Re: L-836, Verification of Hindrance Length through Joint Inspection-reg.	IE
12.	NHIDCL/PMU-Karimganj/MKC/Pkg-4/2026-27/838	03-07-2026	Submission of Detailed Report on Religious Structures causing Hindrance within project jurisdiction -reg.	IE
13.	NHIDCL/PMU-Karimganj/MKC/Pkg-4/2026-27/842	04-07-2026	Clearance of Hindrances and Expeditious Disbursement of Compensation for Making Land Hindrance-Free under SBC Package-4 - reg.	The General Manager (P)
14.	NHIDCL/PMU-Karimganj/MKC/Pkg-4/2026-27/843	07-07-2026	Notice for Immediate Repair/maintenance of Existing Highways work reg.	MKCIL
15.	NHIDCL/PMU-Karimganj/MKC/Pkg-4/2026-27/852	10-07-2026	Removal of Hindrances reg.	The General Manager (P)
16.	NHIDCL/PMU-Karimganj/MKC/Pkg-4/2026-27/859	15-07-2026	Proposal for Joint Site Inspection of the Intervening 200 m Stretch between Package-III and Package-IV (Km 38+400 to Km 38+600) - reg.	The General Manager (P)

17.	NHIDCL/PMU-Karimganj/MKC/Pkg-4/2026-27/865	23-07-2026	Action to be Taken for Removal of Hindrances on Land Parcels Where Compensation Has Already Been Disbursed -reg.	MKCIL
18.	NHIDCL/PMU-Karimganj/MKC/Pkg-4/2026-27/868	24-07-2026	Regarding Submission of complete detailed drawings and preliminary estimate for inclusion in respect of the work "Construction of R.C.C. (G+2) School Building and Assam Type Building of Palimangal High School -reg.	The General Manager (P)
19.	NHIDCL/PMU-Karimganj/MKC/Pkg-4/2026-27/869	24-07-2026	Reply regarding re-assessment of Zirat Value under Bharatmala Package-IV -reg.	The General Manager (P)
20.	NHIDCL/PMU-Karimganj/MKC/Pkg-4/2026-27/873	29-07-2026	Regarding Compliance of Observations/ Recommendations of Traffic Management Plan (TMP)/ Traffic Control Plan (TCP) -Reg.	MKCIL
21.	NHIDCL/PMU-Karimganj/MKC/Pkg-4/2026-27/880	29-07-2026	Submission of QAP, WPSS and Temporary Arrangement Drawings/Launching Schemes for Proposed ROB at Km 40+981 & Km 53+328 for approval-reg.	The General Manager (P)

CHAPTER-12

NON-CONFORMANCE REPORT

Sr No	Letter No	Date	Clouser Letter No	Remarks
1	AIPPL-AYOLEEZA/IE/ NHIDCL/Karimganj/PKG04/ 183	02.01.2026	MKCIL/Assam/Pkg-4/568 Dated 25.02.2026	Closed
2	AIPPL-AYOLEEZA/IE/ NHIDCL/Karimganj/PKG04/ 184	03.01.2026	MKCIL/Assam/Pkg-4/548 Dated 19.02.2026	Closed
3	AIPPL-AYOLEEZA/IE/ NHIDCL/Karimganj/PKG04/207	30.01.2026	MKCIL/Assam/Pkg-4/569 Dated 25.02.2026	Closed
4	AIPPL-AYOLEEZA/IE/ NHIDCL/Karimganj/ PKG04/215	04.02.2026	MKCIL/Assam/Pkg-4/515 Dated 07.02.2026	Closed
5	AIPPL-AYOLEEZA/IE/NHIDCL/Karimganj /PKG-04/216	05.02.2026		Pending
5	AIPPL-AYOLEEZA/IE/ NHIDCL/Karimganj /PKG04/221	10.02.2026		Pending
6	AIPPL-AYOLEEZA/IE/NHIDCL/Karimganj /PKG04/282	07.05.2026		Pending

CHAPTER-13
WEATHER REPORT

WEATHER REPORT MONTH OF JULY- 2026

Sl No	Date	Weather condition	Rain fall(mm)	Temprature(°C)		Humidity(%)		Remarks
				Min.	Max.	Min.	Max.	
1	01.07.2026	Sunny/Cloudy/Rainy	7.2	23.6	33.2	65	85	
2	02.07.2026	Sunny/Cloudy/Rainy	2.5	22.5	34.2	64	84	
3	03.07.2026	Sunny/Cloudy	0	23.5	32.4	65	90	
4	04.07.2026	Sunny/Cloudy	0	24.3	33.5	67	85	
5	05.07.2026	Sunny/Cloudy/Rainy	19.7	23.4	33.2	64	85	
6	06.07.2026	Cloudy/Rainy	34.2	23.2	35.4	65	90	
7	07.07.2026	Cloudy/Rainy	46.7	22.4	32.7	66	85	
8	08.07.2026	Cloudy/Rainy	60.4	22.1	33.5	65	94	
9	09.07.2026	Cloudy/Rainy	30.2	20.4	30.6	66	85	
10	10.07.2026	Cloudy/Rainy	17.2	19.7	30.5	65	80	
11	11.07.2026	Cloudy/Rainy	40.3	20.4	32.6	67	85	
12	12.07.2026	Cloudy/Rainy	5.3	23.7	33.7	65	85	
13	13.07.2026	Cloudy/Rainy	10.1	20.1	32.6	65	80	
14	14.07.2026	Cloudy/Rainy	150.2	22.6	34.0	65	85	
15	15.07.2026	Cloudy/Rainy	20.8	22.5	34.5	64	90	
16	16.07.2026	Cloudy/Rainy	5.2	23.1	33.5	65	80	
17	17.07.2026	Cloudy/Rainy	3.8	23.1	32.5	64	85	
18	18.07.2026	Cloudy/Rainy	53.1	22.9	32.1	66	90	
19	19.07.2026	Cloudy/Rainy	49.8	22.7	30.4	67	85	
20	20.07.2026	Cloudy/Rainy	33.7	23.1	33.5	65	90	
21	21.07.2026	Cloudy/Rainy	40.5	22.0	32.6	67	85	
22	22.07.2026	Cloudy/Rainy	11.3	23.4	31.5	60	80	
23	23.07.2026	Cloudy/Rainy	15.5	23.5	33.5	66	90	
24	24.07.2026	Sunny/Cloudy	0	22.6	32.5	67	90	
25	25.07.2026	Sunny/Cloudy/Rainy	45.5	23.7	35.9	61	85	
26	26.07.2026	Sunny/Cloudy	0	24.9	36.1	63	98	
27	27.07.2026	Sunny/Cloudy	0	25.2	36.4	59	95	
28	28.07.2026	Sunny/Cloudy/Rainy	15.5	24.5	36.3	63	93	
29	29.07.2026	Sunny/Cloudy	0	24.2	36.1	58	96	
30	30.07.2026	Sunny/Cloudy/Rainy	17.8	23.2	33.4	77	98	
31	31.07.2026	Sunny/Cloudy/Rainy	15.5	23.1	34.1	75	97	
		This month total Rain fall >>>	752					

Rainfall Data				
Sr. No.	**Description**	**Total Rainfall**	**Up to previous month**	**This month**
1	Rainfall	4632.4	3880.4	752.00

The maximum & minimum weather records are summarized below:

TEMPERATURE/ RAINFALL PERIOD: 1st July 2026 to 31st July 2026				
Temperature		**Rainfall**		
Maximum (in ^{0}C)	**Minimum (in ^{0}C)**	**Maximum (in mm)**	**Minimum (in mm)**	**Total Days**
33.5	22.9	150.2	0	31

CHAPTER-14

ACCIDENT REPORT

NIL

CHAPTER-15

PROJECT PROGRESS PHOTOGRAPHS



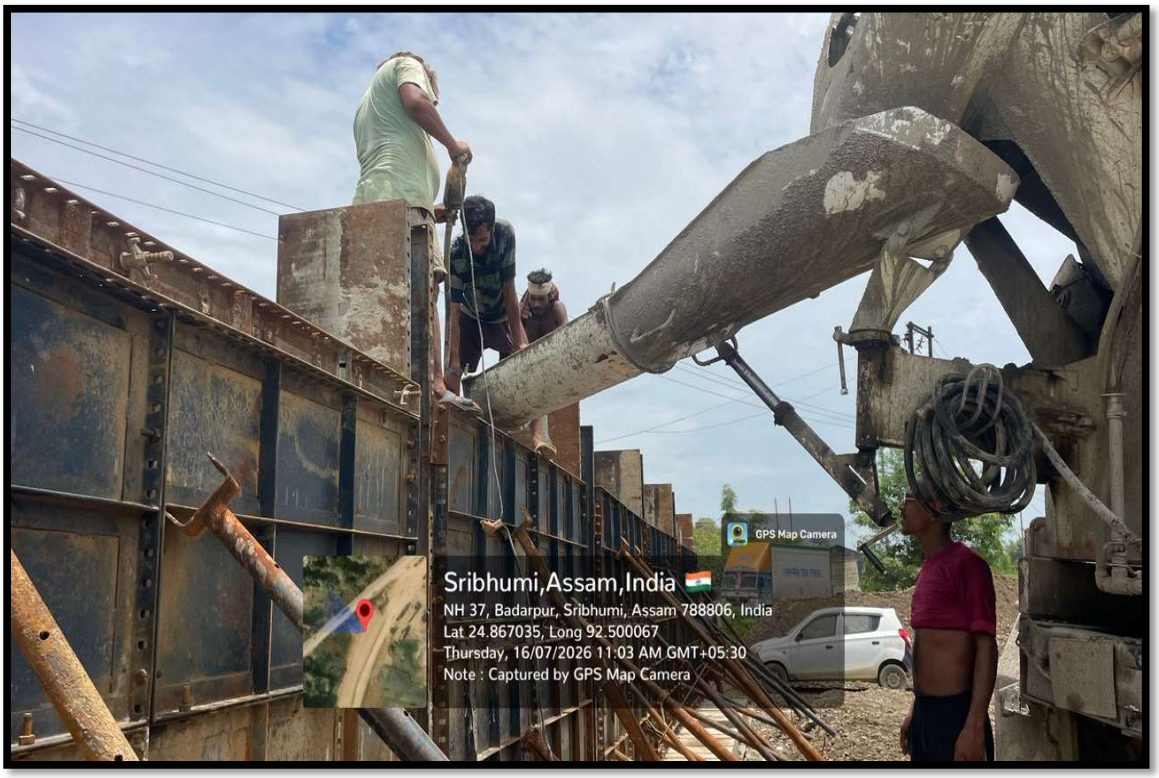
LVUP Retaining wall raft casting work in progress at Ch- 42+811



VUP wall 2nd lift concrete work in progress at Ch.- 59+983 LHS.



Toe wall raft section-1.5m Concrete casting work in progress at Ch.-38+500



Toe wall section-1.5 m 1st lift casting work in progress at Ch.- 38+500



FSCB Mould Shifting from Toll plaza to 53+500.



Road maintenance work in progress at Lamajuar



Road maintenance work in progress at Mokai Bhanga.



Road maintenance work in progress at Sarapur Bhanga



Rolling work in progress Makai Bhanga



Friction Slab Crash Barrier concrete pouring work in progress at Ch. 50+800(toll plaza)



TF DP fabrication fitting work in progress at Ch.- 59+900 RHS



Friction Slab Crash Barrier concrete pouring work in progress at Ch. 50+800(toll plaza)



Friction Slab Crash Barrier concrete pouring work in progress at Ch. 50+800(toll plaza)



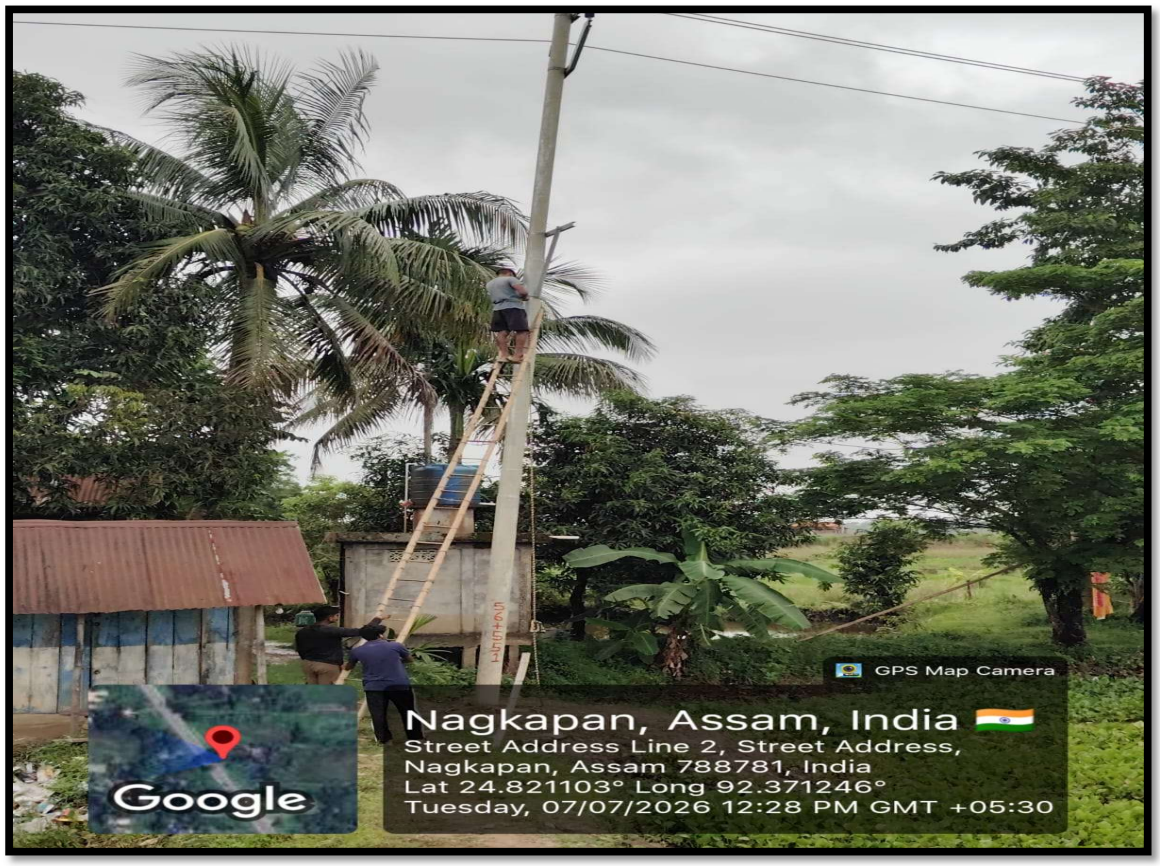
PSC Girder G5(54+460MJB) Shuttering fixing work in progress at Toll Plaza



PSC Girder concrete pouring work in progress at Ch.-54+117 VUP (toll plaza)



33kv Line work in progress at Ch.- 59+345 LHS



Utility work in progress at Ch.- 56+550 LHS



RE Block Casting work in progress at Ch.-60+700