



Ref No. MKCIL/ASSAM/PKG-07/190

Date: 08.04.2025

To,

The General Manager

NHIDCL, PMU- Karimganj,

Bipin Pal Road, Ward No-24, Opp. Basak House

Karimganj, Assam-788711.

Email id: pmukarimganj@gmail.com

Subject: “Four Laning of NH-37 from Design Ch 0+000 on NH 8 near Karimganj to Design Ch. 14+250 near Sutarkandi (Spur connectivity to Indo/Bangladesh Border) Silchar- Churaibari Pkg-7 in the state of Assam” – “**Submission of Monthly Progress Report for the month of April-2025.**”

Ref.:

1. LOA- NHIDCL/Assam/NH-37/Sil-Churai/Pkg-VII/233357/3087 dated 11.03.2024
2. Concession Agreement on dated 17th September 2024.

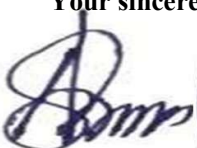
Dear Sir,

With reference to above cited subject, we are herewith submitting the Monthly Progress Report for the month of April, 2025 as per Clause 13.1 of Article 13 of Concession Agreement for your kind review and concurrence please.

Assuring you of our best services at all times.

Thanking you,

Your sincerely,



Project Manager

MKC Badarpur Churaibari Kamakhya (PKG-7) Highways Private Limited

4-L of NH 37 from design Ch 0+000 on NH-8 near Karimganj to design Chainage 14+250 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

Monthly Progress Report

April - 2025



Authority		National Highways Infrastructure Development Corporation Limited
Independent Engineer		M/s Technocrafts Advisory Services Private Limited in association with M/s MAV Associates LLP
Concessionaire		MKC Badarpur Churaibari Kamakhya (PKG-7) Highways Pvt. Ltd.

4-L of NH 37 from design Ch 0+000 on NH-8 near Karimganj to design Chainage 14+250 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

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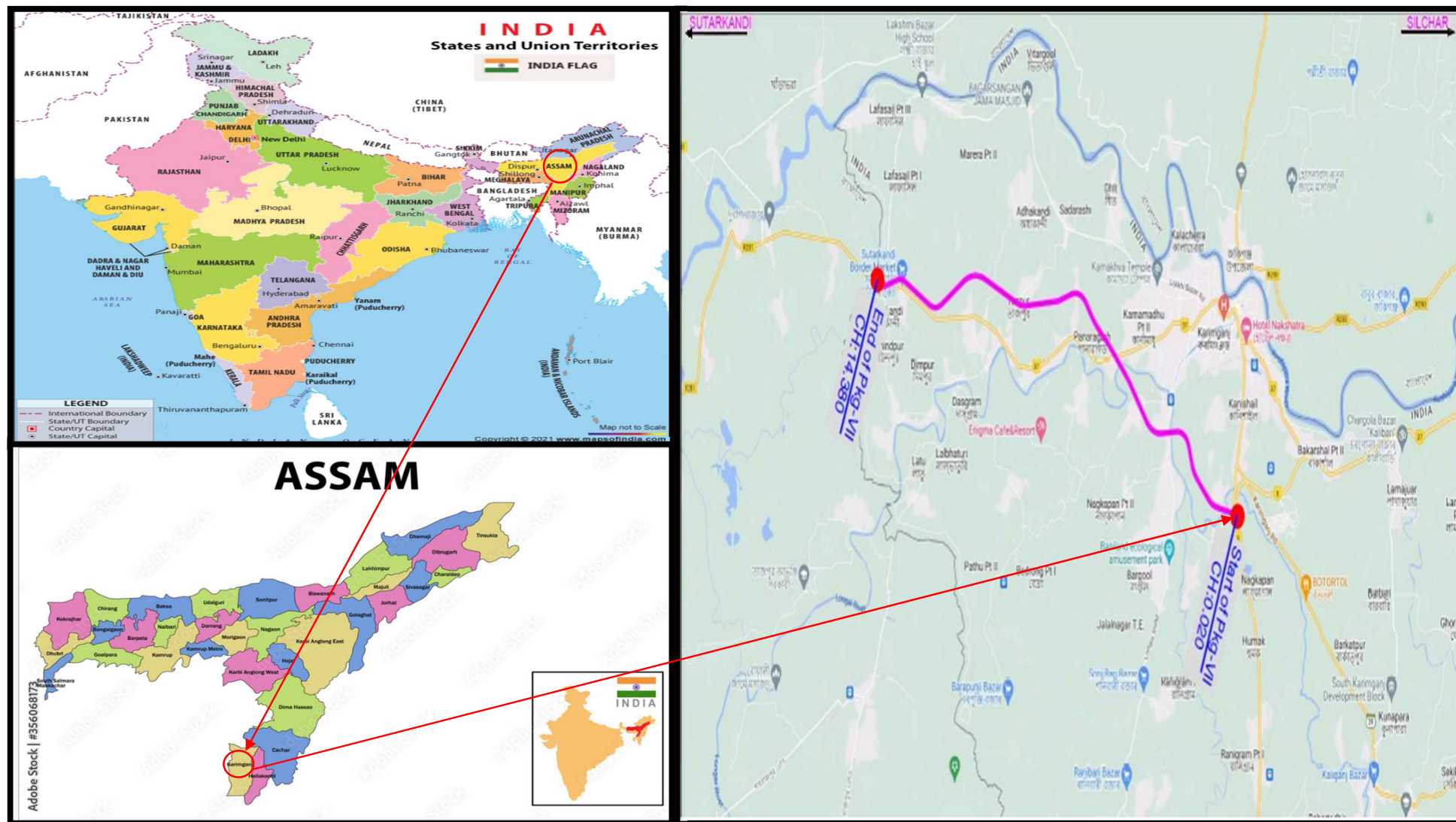
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4-L of NH 37 from design Ch 0+000 on NH-8 near Karimganj to design Chainage 14+250 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

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4-L of NH 37 from design Ch 0+000 on NH-8 near Karimganj to design Chainage 14+250 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

PROJECT ROAD LOCATION MAP / INDEX MAP



4-L of NH 37 from design Ch 0+000 on NH-8 near Karimganj to design Chainage 14+250 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

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 February 28, 2025 to February 27, 2027.

1. The Project Road:

4-L of NH 37 from design Ch 0+000 on NH-8 near Karimganj to design Chainage 14+250 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam 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: - 5+600 LHS (Darakona).

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

4-L of NH 37 from design Ch 0+000 on NH-8 near Karimganj to design Chainage 14+250 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

The Details of project highway works have been included in Chapter-09 of this report.

1. Design and Drawing

The status of approval of Working Drawings for road works and structures submitted to Authority as on dated 30-04-2025 is given below.

Sr. No.	Description	UoM	Scope	Submitted	Approved	Balance	Remarks
1.	Plan & Profile (MCW)	Km.	14.360	14.360	0.00	14.360	
2.	Plan & Profile (SR)	Km.	4.16	0.00	0.00	4.16	
3.	RE Wall	SqM.	24984	0.00	0.00	24984.00	
4.	ROB	Nos.	1.00	0.00	0.00	1.00	
5.	Major Bridge	Nos.	3.00	0.00	0.00	3.00	
6.	Minor Bridge	Nos.	8.00	0.00	0.00	8.00	
7.	Underpasses	Nos.	16.00	4.00	0.00	16.00	
8.	Culvert	Nos.	72.00	16.00	0.00	72.00	

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

4-L of NH 37 from design Ch 0+000 on NH-8 near Karimganj to design Chainage 14+250 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

7. 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-07/162, dated 17.04.2025 for Authority/IE's approval. Based on the monthly works plan, the works is being carried out by the Concessionaire.

8. 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-07/139 on dated 07.04.2025. Each construction activity is being checked/verified as per the RFI's submitted to Authority/IE by the Concessionaire.

9. 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.

10. Site Visit and Meeting:

The Authority/ IE Engineers are regularly visiting the Project Highway.

11. 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 February 28, 2025, the Scheduled completion Date shall occur on February 27, 2027.

12. 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.

4-L of NH 37 from design Ch 0+000 on NH-8 near Karimganj to design Chainage 14+250 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

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

Procurement of ROW- The existing ROW and the stretches of 11.510 km. are subjected to following:

a) Stretches/ Hindered Free Land 11.51 Km out of 14.36 Km:

Stretches/ Hindered Free Land				Encumbrances/ Hindered Land		
Sr. No.	Side	Length (Km)	%	Side	Length (Km)	%
1.	BHS	11.510	80.20%	BHS	2.850	19.80%

b) Hindered due to Tree Cutting:

Description	Total Nos.	Impacted Length (km)	Remarks
Total Trees	407	7.0	

c) Encumbrances due to Religious Structure:

Sr. No.	Types	Chainage	Side	Remarks
1.	Small Temple	2+750	RHS	
2.	Temple	4+150	LHS	
3.	Kabristan	4+300	BHS	
4.	Masjid	4+500	BHS	
5.	Kabristan	7+300	BHS	

d) Details of Hidered Land:

Sr. No.	Issue Description	Side	Chainage		Length Affected (Km)	Remarks
			From	To		
1.	Brick industry	BHS	0+300	0+400	0.100	
2.	Residential House	BHS	2+700	2+900	0.200	
3.	Assam Type House & Shade	BHS	2+900	3+000	0.100	
4.	Assam Type Residential House	BHS	3+800	4+200	0.400	
5.	RCC & Assam type House	BHS	4+200	4+500	0.300	
6.	Assam/ RCC Type Houses	LHS	5+500	5+600	0.100	
7.	Assam Type Residential House	RHS	5+600	5+650	0.050	

4-L of NH 37 from design Ch 0+000 on NH-8 near Karimganj to design Chainage 14+250 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

8.	Assam Type Residential House	LHS	6+600	6+650	0.050	
9.	Assam Type Residential House	RHS	7+200	7+300	0.100	
10.	Assam Type Residential House	BHS	9+300	9+370	0.070	
11.	Assam Type Residential House	RHS	9+370	9+400	0.030	
12.	Assam Type Residential House	BHS	11+250	11+400	0.150	
13.	Assam type/ RCC Residential Building	BHS	11+900	12+000	0.100	
14.	Assam type/ RCC Residential Building	RHS	12+200	12+700	0.500	
15.	Assam type/ RCC Residential Building	BHS	12+700	12+900	0.200	
16.	Assam type/ RCC Residential Building	BHS	13+200	13+600	0.400	
Total Hindered Land					2.850	

CHAPTER-1

INTRODUCTION

General

The NHIDCL proposes to implement the development, maintenance, and management of the Spur from NH-8 near Karimganj to Sutarkandi (India-Bangladesh border) Km. 0.020 to Km. 14.380 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 1st, 2023.

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 is a spur to NH-8 near Karimganj and ends at Sutarkandi. The proposed alignment passes through Karimganj district in the state of Assam connecting villages Karimganj, Fakirabazar, Jarpata and Sutarkandi.

4-L of NH 37 from design Ch 0+000 on NH-8 near Karimganj to design Chainage 14+250 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

CHAPTER-2

CONTRACT DATA

Sr. No.	Items	Description
1.	Name of Project	4-L of NH 37 from design Ch 0+000 on NH-8 near Karimganj to design Chainage 14+250 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.
2.	Project Length	14.250 km
3.	Project Bid Cost	380.26 Cr.
4.	Authority	National Highways & Infrastructure Development Corporation Limited
5.	Independent Engineer	M/s Technocrats Advisory Services Private Limited in association with M/s MAV Associates LLP
6.	Concessionaire	MKC Badarpur Churaibari Kamakhya (PKG-7) Highways Private Limited
7.	Design Consultant	Geo Designs & Research Pvt. Ltd.
8.	DPR Consultant	Aarvee Associates Architects Engineers & Consultants Pvt. Ltd.
9.	LOA No. & Date	NHIDCL/ Assam/ NH-37/ Sil-Churai/ Pkg-VII/ 233357/ 3087 dated 11.03.2024
10.	Date of Concession Agreement	September 17, 2024
11.	Appointed Date	February 28, 2025
12.	Construction Period	730 days (from Appointed Date) [24-Months]
13.	Schedule Completion Date	February 27, 2027
14.	O&M Period	15 Years from the date of COD

4-L of NH 37 from design Ch 0+000 on NH-8 near Karimganj to design Chainage 14+250 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

14	Project Milestone	
	Milestone- I	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., February 28, 2025)- (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., February 28, 2025)- (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., February 28, 2025) (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., February 27, 2025) The concessionaire shall have completed the Project in accordance with the Concession Agreement.

4-L of NH 37 from design Ch 0+000 on NH-8 near Karimganj to design Chainage 14+250 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

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	00+020	12+900	12.880	500.00	200.00	180.00	50.00	40.00	-	-
	12+900	14+380	1.480	500.00	200.00	-	-	-		
				Sub-Grade	GSB	R-WMM	DBM	BC		
Service Road				500.00	200.00	180.00	50.00	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.	Road over Bridge	New Construction	Nos.	1	
2.	Major Bridge	New Construction	Nos.	3	
3.	Minor Bridge	New Construction	Nos.	7	
		Reconstruction	Nos.	1	
4.	VUP	New Construction	Nos.	2	
5.	LVUP	New Construction	Nos.	9	
6.	SVUP	New Construction	Nos.	1	
7.	Box Underpass	New Construction	Nos.	4	
8.	Box Culvert	New Construction	Nos.	28	
		Reconstruction	Nos.	4	
9.	Hume Pipe Culvert	New Construction	Nos.	20	
10.	Bus Bay		Nos.	2	
11.	Major Junction		Nos.	2	
12.	Minor Junction		Nos.	4	
13.	W-beam Single faced metal crash barrier		Rmt.	17602	
14.	Drain (covered)		Rmt.	2960	

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 1- ROB, 3- Major Bridge, 8- Minor Bridge, 16- Underpasses, 52- Culverts.
- Construction of Slip Road of 4.16 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) Truck Lay-byes
- f) Bus Bay and Bus Shelter
- g) Pedestrian Facilities
- h) Highway Lighting
- i) Rainwater Harvesting
- j) Environmental Management Plan
- k) Land Scaping and Tree Plantation
- l) Advanced Traffic Management System (ATMS)
- m) Highway Petrol Unit
- n) Emergency Medical Services
- o) Crane Services

4-L of NH 37 from design Ch 0+000 on NH-8 near Karimganj to design Chainage 14+250 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

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	Done	
2	Article 11	Utilities, Associated Roads and Trees	In Progress	
3	Clause 18.1.2	Safety Consultant	TBA	
4	Article 21	Appointment of Independent Engineer	Done	Awaited for Authority letter
5	Clause 10.3	Joint Memorandum	Done	

Obligations of Concessionaire-

Sr. No.	Clause No.	Obligation	Status	Remark/ Reference
1	Clause 9.1	Performance Security	Done	
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		
6		Permission of Village Panchayet and Pollution Board for installation of crushers		
7		License for use of explosives		
8		Permission of the State Govt. from drawing water from river/ reservoir		
9		Any other permits or clearance		
10		Labour Licence	Done	
11	Clause 12.1	Quality Assurance Plan	Done	MKCIL/ASSAM/PKG-07/139 dt. 07.04.2025
11		Construction Methodology	Done	MKCIL/ASSAM/PKG-07/150 dt. 14.04.2025

4-L of NH 37 from design Ch 0+000 on NH-8 near Karimganj to design Chainage 14+250 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

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	Nos.	Remarks
1.	HT/ LT Lines (including Transformer if any)	Nos.	88.00	
2.	HT/ LT crossing	Nos.	65.00	
3.	Water Pipelines	Kms	4.00	
4.	Water Pipeline Crossing	Nos.	14.00	

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	407.00	
2.	Total Felling of Trees	7.00	
3.	Balance Trees	400.00	

5.4 Land Acquisition

The detailed working of Existing ROW, Proposed ROW and Land to be Acquired along the project highway are submitted by NHIDCL vide Joint Handover Memorandum on dated 28th of February ,2025.

The detail of affected area for construction of the project road including various project facilities which requires prime attention to accelerate the work progress is given below.

HINDRANCE LIST – CHAINAGE WISE DETAILS

Sr. No.	Issue Description	Side	Chainage		Length Affected (Km)	Remarks
			From	To		
1.	Brick industry	BHS	0+300	0+400	0.100	
2.	Residential House	BHS	2+700	2+900	0.200	
3.	Assam Type House & Shade	BHS	2+900	3+000	0.100	
4.	Assam Type Residential House	BHS	3+800	4+200	0.400	
5.	RCC & Assam type House	BHS	4+200	4+500	0.300	

4-L of NH 37 from design Ch 0+000 on NH-8 near Karimganj to design Chainage 14+250 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

6.	Assam/ RCC Type Houses	LHS	5+500	5+600	0.100	
7.	Assam Type Residential House	RHS	5+600	5+650	0.050	
8.	Assam Type Residential House	LHS	6+600	6+650	0.050	
9.	Assam Type Residential House	RHS	7+200	7+300	0.100	
10.	Assam Type Residential House	BHS	9+300	9+370	0.070	
11.	Assam Type Residential House	RHS	9+370	9+400	0.030	
12.	Assam Type Residential House	BHS	11+250	11+400	0.150	
13.	Assam type/ RCC Residential Building	BHS	11+900	12+000	0.100	
14.	Assam type/ RCC Residential Building	RHS	12+200	12+700	0.500	
15.	Assam type/ RCC Residential Building	BHS	12+700	12+900	0.200	
16.	Assam type/ RCC Residential Building	BHS	13+200	13+600	0.400	
Total Hindered Land					2.850	

4-L of NH 37 from design Ch 0+000 on NH-8 near Karimganj to design Chainage 14+250 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

CHAPTER -6

MOBILIZATION

6.1 Manpower Mobilization of Concessionaire

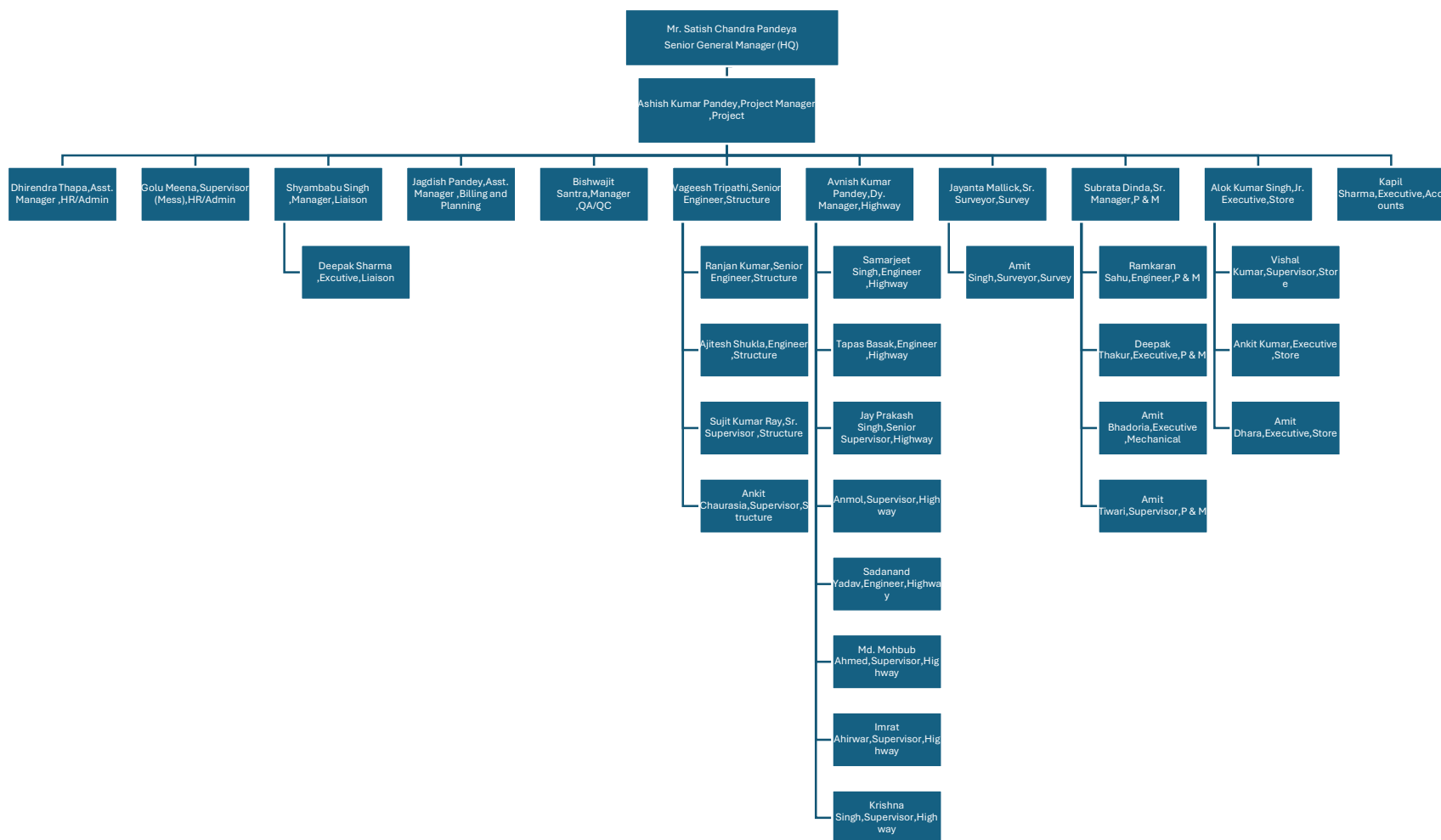
Sr. No.	Name of Employee	Designation	Department	Remarks
1	Ashish Kumar Pandey	Project Manager	Project	
2	Dhirendra Thapa	Asst. Manager	HR/Admin	
3	Golu Meena	Supervisor (Mess)	HR/Admin	
4	Deepak Sharma	Executive	Liaison	
5	Shyambabu Singh	Manager	Liaison	
6	Jagdish Pandey	Asst. Manager	Billing and Planning	
7	Bishwajit Santra	Manager	QA/QC	
8	Vageesh Tripathi	Senior Engineer	Structure	
9	Ranjan Kumar	Senior Engineer	Structure	
10	Ajitesh Shukla	Engineer	Structure	
11	Sujit Kumar Ray	Sr. Supervisor	Structure	
12	Ankit Chaurasia	Supervisor	Structure	
13	Avnish Kumar Pandey	Dy. Manager	Highway	
14	Samarjeet Singh	Engineer	Highway	
15	Tapas Basak	Engineer	Highway	
16	Jay Prakash Singh	Senior Supervisor	Highway	
17	Anmol	Supervisor	Highway	
18	Sadanand Yadav	Engineer	Highway	
19	Md. Mohbub Ahmed	Supervisor	Highway	
20	Imrat Ahirwar	Supervisor	Highway	
21	Krishna Singh	Supervisor	Highway	
22	Jayanta Mallick	Sr. Surveyor	Survey	
23	Amit Singh	Surveyor	Survey	
24	Subrata Dinda	Sr. Manager	P & M	
25	Ramkaran Sahu	Engineer	P & M	
26	Deepak Thakur	Executive	P & M	
27	Amit Bhadoria	Executive	Mechanical	
28	Amit Tiwari	Supervisor	P & M	
29	Alok Kumar Singh	Jr. Executive	Store	
30	Vishal Kumar	Supervisor	Store	
31	Ankit Kumar	Executive	Store	
32	Amit Dhara	Executive	Store	

4-L of NH 37 from design Ch 0+000 on NH-8 near Karimganj to design Chainage 14+250 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

33	Kapil Sharma	Executive	Accounts	
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4-L of NH 37 from design Ch 0+000 on NH-8 near Karimganj to design Chainage 14+250 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

6.2 Organization Chart of Concessionaire



4-L of NH 37 from design Ch 0+000 on NH-8 near Karimganj to design Chainage 14+250 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

CHAPTER-7

DEPLOYMENT OF PLANTS AND EQUIPMENT / PROJECT SET UP PLAN

7.1 Plants and Equipment Deployed

Sr. No.	Type of Machine	Make	Model	Year of Manufacturing	Remarks
1.	Soil Compactor	HAMM	HC119i	2025	
2.	Soil Compactor	HAMM	HC119i	2025	
3.	Soil Compactor	HAMM	HC119i	2025	
4.	Soil Compactor	HAMM	HC119i	2025	
5.	Cement Silo	Schwing Stetter			
6.	Cement Silo	Schwing Stetter			
7.	Cement Silo	Schwing Stetter			
8.	RMC Plant	Schwing Stetter	HO.75NG		
9.	DG-125 kva	Kirloakar			
10.	DG-25 kva	Kirloskar		2024	
11.	Crusher	Puzzolana	TRAC SCREEN/PTS1552		
12.	Excavator	Hyundai	R215L SMART PLUS		
13.	Excavator	Hyundai	R215L SMART PLUS		
14.	Excavator	Hyundai	R215L SMART PLUS		
15.	Mobile Crusher	Propel	SC TMC-Q- 250/250TPH CONE		
16.	Mobile Crusher	Propel	SC TMJ-811 S/250 TPH JAW		

4-L of NH 37 from design Ch 0+000 on NH-8 near Karimganj to design Chainage 14+250 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

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 March 31, 2025, is enclosed in this chapter of the report.

Road Works

S N	Description	Unit	Total	Submitted	Approval	Review Balance	Remarks
1.	Plan & Profile MCW	Km	14.360	14.360	0.000	14.360	
2.	Plan & Profile SR	Km	4.164	4.164	0.000	4.164	
3.	Typical Cross Section	Nos	1.00	1.00	0.00	1.00	
4.	Pavement Design Report	Nos	1.00	1.00	0.00	1.00	
5.	RE Wall	Nos	20820.00	-	-	-	
6.	Major Junction	Nos	2.00	-	-	-	
7.	Minor Junction	Nos	4.00	-	-	-	
8.	Bus Bay Drawing	Nos	2.00	-	-	-	
9.	Road Signage Plan	Km	14.360	-	-	-	

4-L of NH 37 from design Ch 0+000 on NH-8 near Karimganj to design Chainage 14+250 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

Structure Works

S N	Type of Str.	Ch.	Span Arrangement	Submission Letter No.	Date	Status	IE Letter No.	Date	Remarks
1	Box Culvert	00+043	1 x 3.0						
2	Box Culvert	00+207	1 x 3.0	MKCIL/ASSAM/ PKG-07/136	05-04-2025				
3	Box Culvert	00+341	1 x 3.0	MKCIL/ASSAM/ PKG-07/136	05-04-2025				
4	Box Culvert	01+254	1 x 2.0	MKCIL/ASSAM/ PKG-07/135	05-04-2025				
5	Box Culvert	01+652	1 x 2.0	MKCIL/ASSAM/ PKG-07/134	05-04-2025				
6	Box Culvert	01+973	1 x 2.0	MKCIL/ASSAM/ PKG-07/134	05-04-2025				
7	Box Culvert	02+143	1 x 2.0	MKCIL/ASSAM/ PKG-07/134	05-04-2025				
8	Box Culvert	02+440	1 x 2.0	MKCIL/ASSAM/ PKG-07/135	05-04-2025				
9	Box Culvert	03+418	1 x 2.0						
9a	SR	03+418	1 x 2.0						
10	Box Culvert	03+646	1 x 2.0	MKCIL/ASSAM/ PKG-07/134	05-04-2025				
11	Box Culvert	03+925	1 x 2.0						
11a	SR	03+925	1 x 2.0						
12	Box Culvert	04+018	1 x 5.0						
12a	SR	04+018	1 x 5.0						
13	Box Culvert	04+340	1 x 3.0	MKCIL/ASSAM/ PKG-07/136	05-04-2025				
14	Box Culvert	04+847	1 x 2.0						
15	Box Culvert	05+126	1 x 2.0	MKCIL/ASSAM/ PKG-07/135	05-04-2025				
16	Box Culvert	05+920	1 x 2.0	MKCIL/ASSAM/ PKG-07/140	07-04-2025				
17	Box Culvert	06+190	1 x 2.0	MKCIL/ASSAM/ PKG-07/140	07-04-2025				
18	Box Culvert	06+642	1 x 3.0						
19	Box Culvert	07+668	1 x 2.0						
20	Box Culvert	07+832	1 x 2.0	MKCIL/ASSAM/ PKG-07/140	07-04-2025				
21	Box Culvert	08+188	1 x 2.0						
22	Box Culvert	08+576	1 x 2.0						
23	Box Culvert	09+543	1 x 2.0						
24	Box Culvert	09+779	1 x 2.0						
25	Box Culvert	10+529	1 x 2.0						
26	Box Culvert	11+073	1 x 2.0						
27	Box Culvert	11+921	1 x 2.0						
27a	SR	11+921	1 x 2.0						
28	Box Culvert	12+223	1 x 2.0						
29	Box Culvert	12+663	1 x 2.0	MKCIL/ASSAM/ PKG-07/140	07-04-2025				
29a	SR	12+663	1 x 2.0	MKCIL/ASSAM/ PKG-07/141	07-04-2025				

4-L of NH 37 from design Ch 0+000 on NH-8 near Karimganj to design Chainage 14+250 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

30	Box Culvert	13+065	1 x 2.0	MKCIL/ASSAM/ PKG-07/140	07-04-2025				
31	Box Culvert	13+380	1 x 2.0	MKCIL/ASSAM/ PKG-07/140	07-04-2025				
32	Box Culvert	13+740	1 x 2.0						
1	MNB	00+742	1x20						
2	MNB	01+768	1x15						
3	MNB	06+313	1x15						
4	MNB	07+306	1x6						
5	MNB	09+003	1x6						
6	MNB	09+293	1x6						
7	MNB	11+363	2x10						
8	MNB	14+195	1x12						
1	MJB	00+526	3x35						
2	MJB	02+880	3x37.5	MKCIL/ASSAM/ PKG-07/097	21-03-2025				Test Pile
3	MJB	05+322	3x37.5	MKCIL/ASSAM/ PKG-07/040 MKCIL/ASSAM/ PKG-07/052	21-01-2025 31-01-2025				Test Pile
1	ROB	04+624	1x20+2x37.28+ 1x20						
1	Box Underpass	02+340	1x4						
2	Box Underpass	04+534	1x4						
3	Box Underpass	07+906	1x4						
4	Box Underpass	08+296	1x4						
1	VUP	02+999	1x20						
2	VUP	05+622	1x20						
1	SVUP	03+728	1x7						
1	LVUP	01+142	1x12						
2	LVUP	03+886	1x12	MKCIL/ASSAM/ PKG-07/141	07-04-2025				
3	LVUP	04+212	1x12						
4	LVUP	05+414	1x12						
5	LVUP	07+213	1x12	MKCIL/ASSAM/ PKG-07/065	17-02-2025				
6	LVUP	09+332	1x12						
7	LVUP	10+098	1x12	MKCIL/ASSAM/ PKG-07/141	07-04-2025				
8	LVUP	10+834	1x18						
9	LVUP	12+310	1x12	MKCIL/ASSAM/ PKG-07/065	17-02-2025				
1	Typical Pre-Cast		1 x 2.0	MKCIL/ASSAM/ PKG-07/055	07-02-2025				

4-L of NH 37 from design Ch 0+000 on NH-8 near Karimganj to design Chainage 14+250 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

**CHAPTER-9
PROJECT WORK PROGRESS**

9.1 Work Progress:

Progress as per Schedule G for the month April-2025.

Item	Stage for measurement of Physical Progress	Unit	Qty.	Unit Rate	Weightage in percentage to the contract price	Qty.	Physical Progress in %	Finacial Progress in %\	Remark
Road works including culverts, minor bridges, underpasses, overpasses, approaches to ROB/RUB/ Major Bridges/ Structures (but excluding service roads)	B- New 4 Lane Realignment/Bypass								
	(1) Earthwork upto top of Sub-grade	L-Km	27.23	2,73,56,380.00	19.59%				
	(2) Granular work (Sub-base, base,shoulder)								
	(a) GSB	L-Km	27.23	70,31,715.11	5.04%				
	(b) WMM	L-Km	24.27	46,47,683.33	2.97%				
	(4) Bituminous Work								
	(a) DBM	L-Km	24.274	32,77,494.45	2.09%				
	(b) BC	L-Km	24.27	27,93,527.84	1.78%				
	(5) Rigid Pavement (MCW)								
	(a) DLC	L-Km	2.96	49,44,591.26	0.38%				
	(b) PQC	L-Km	2.96	1,86,09,529.62	1.45%				
	Sub Total-B								
	C- New Culverts, Minor Bridges, underpasses, overpasses on existing road, realignment, bypasses:								
	1) Culverts	No.	72.00	29,15,688.30	5.52%				
	2) Minor Bridge								
	a) Foundation	No.	8.00	1,42,40,090.95	3.00%				
	b) Sub-Structure	No.	8.00	65,61,027.39	1.38%				
	c) Super-Structure (including Crash Barrier etc. Complete)								
	i) Girder Type - Precast Girder (40%)	No.	3.00	51,53,385.40	0.41%				
	ii) Girder Type - Cast in situ superstructure (60%)	No.	3.00	77,30,078.11	0.61%				
	iii) Box Type - Cast-in-situ superstructure	No.	5.00	66,02,830.38	0.87%				
	5) Grade Separated Structures								
	a) Underpasses (Box Underpass, SVUP, LVUP, VUP)								
	i) Foundation	No.	16.00	84,44,719.26	3.55%				
	ii) Sub-Structure	No.	16.00	53,62,333.36	2.26%				
	iii) Super-Structure (including Crash Barrier etc. Complete)								
	- Girder Type - Precast Girder (40%)	No.	3.00	25,24,569.58	0.20%				
	- Girder Type - Cast in situ superstructure (60%)	No.	3.00	37,86,854.37	0.30%				
	- Box Type - Cast-in-situ superstructure	No.	13.00	56,82,200.18	1.94%				
Major Bridge works and ROB/RUB	C- New Major Bridges								
	(1)Foundation (Pile Foundation)	No.	3.00	8,24,50,170.32	6.50%				
	(2) Sub-structure	No.	3.00	2,23,79,053.39	1.77%				
	(3)Super-structure (including crash barriers etc. complete)								
	-Super-structure - Precast Girder (40%)	No.	3.00	1,54,01,955.77	1.22%				
	-Super-structure - Cast in situ superstructure (60%)	No.	3.00	2,31,02,933.65	1.82%				
	D- New rail-road bridges								
	(a) ROB								
	(1)Foundation	No.	1.00	10,41,59,258.66	2.74%				
	(2) Sub-structure	No.	1.00	4,29,50,672.00	1.13%				
	(3)Super-structure (including crash barriers etc. complete)								
	-Super-structure - Precast Girder (40%)	No.	1.00	3,74,42,687.41	0.98%				
	-Super-structure - Cast in situ superstructure (60%)	No.	1.00	5,61,64,031.11	1.48%				

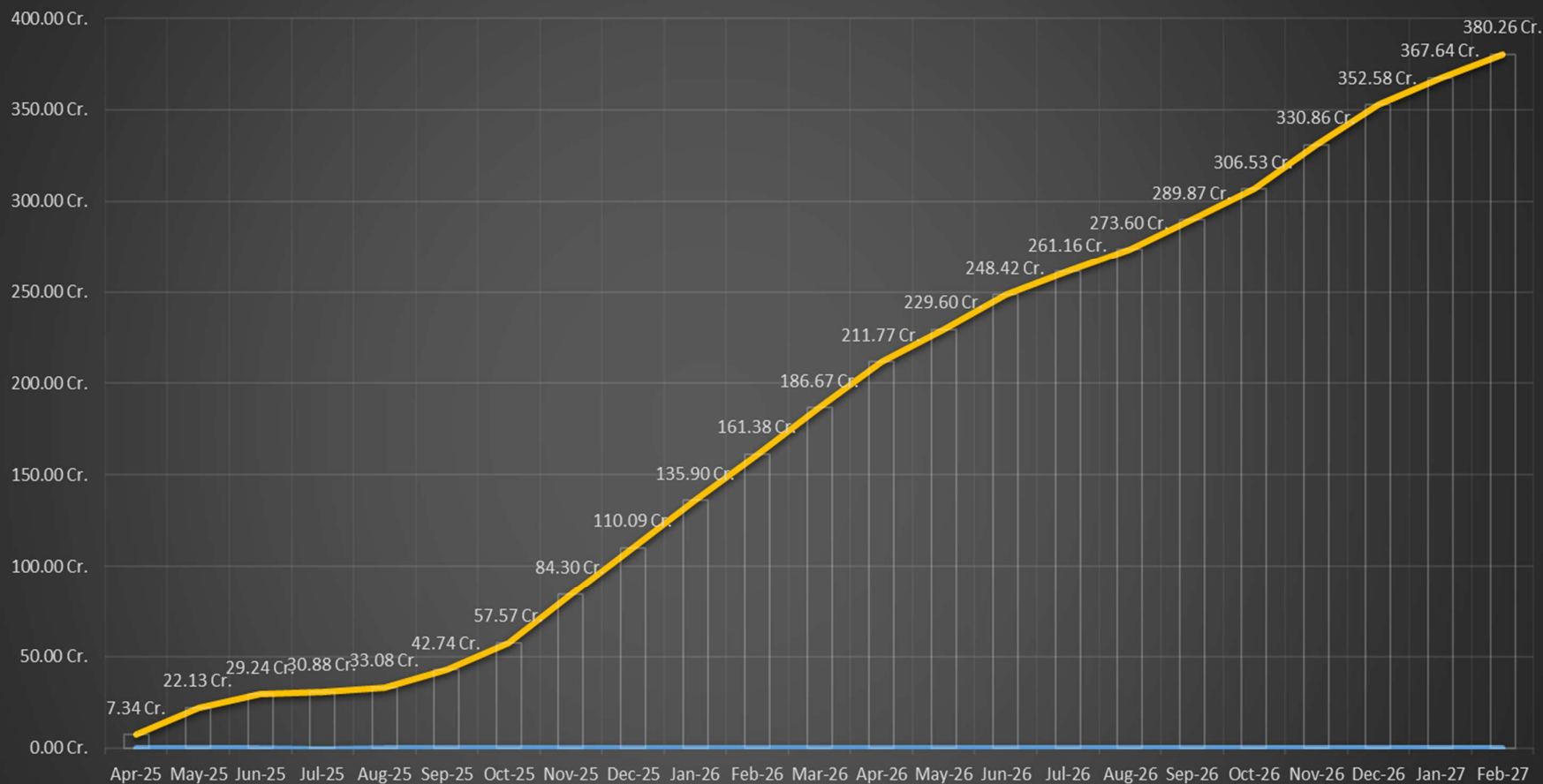
4-L of NH 37 from design Ch 0+000 on NH-8 near Karimganj to design Chainage 14+250 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

Structures (Elevated Section, Reinforced earth)	4) Reinforced Earth Wall (includes Approaches of ROB, Underpasses, Over passes, Flyover etc.)							
	i) On Casting (5%)	Sq.m	24,984.00	55.79	0.04%			
	ii) On Erection (95%)	Sq.m	24,984.00	1,060.02	0.70%			
Electrical and Public Health Utilities	UTILITY SHIFTING							
	HT/LT lines (including Transformers if any)	Km	4.36	3,23,916.23	0.04%	1.10	25.23%	0.009%
	HT/LT crossings	No.	65.00	5,82,449.97	1.00%	18.00	27.69%	0.276%
	Water pipeline	Km	4.65	13,43,795.29	0.16%			
	Water pipeline crossings	No.	14.00	9,83,584.85	0.36%			
Other Works	OTHER WORKS							
	i) Service Road / Slip Road	Km	4.16	2,00,43,319.11	2.19%			
	iii) Road Side Drain							
	a) Line Drain/RCC Cover Drain	L-Km	2.96	61,98,965.97	0.48%			
	b) Unlined Drain	L-Km	22.37	1,10,492.59	0.06%			
	c) Chute Drain	L-Km	5.22	3,42,979.83	0.05%			
	d) Median Drain	Km	5.18	9,88,500.81	0.13%			
	iv) - Road signs, markings, Km Stone, Safety devices							
	(a) Road signs, markings, Km Stone	L-Km	14.36	8,88,854.64	0.34%			
	(b) Concrete Crash Barrier/W Beam Crash Barrier in Road work							
	- Concrete Crash Barrier	Km	13.30	36,26,999.19	1.27%			
	- W Beam Crash Barrier	Km	17.60	28,91,448.08	1.34%			
	v) - Project Facilities							
	(a) Bus bay	No.	2.00	8,32,071.39	0.04%			
	(b) Rain Water Harvesting	No.	28.00	2,49,673.84	0.18%			
	viii) Protection Work							
	(a) Boulder Pitching on Slopes	Km	6.66	3,82,18,144.79	6.69%			
	(b) Toe Wall / Retaining Wall	Km	13.81	3,33,48,062.56	12.11%			
	x) Miscellaneous							
	(a) Street Lighting	No.	280.00	15,245.15	0.11%			
	(b) Junction/Interchange	No.	6.00	14,44,520.86	0.23%			
	(c) Boundary Wall	L-Km	27.23	12,48,107.08	0.89%			
	(d) ATMS	L-Km	28.72	7,94,537.07	0.60%			
Grand Total :-					100.00%		0.29%	

4-L of NH 37 from design Ch 0+000 on NH-8 near Karimganj to design Chainage 14+250 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

9.2 S Curve

S Curve

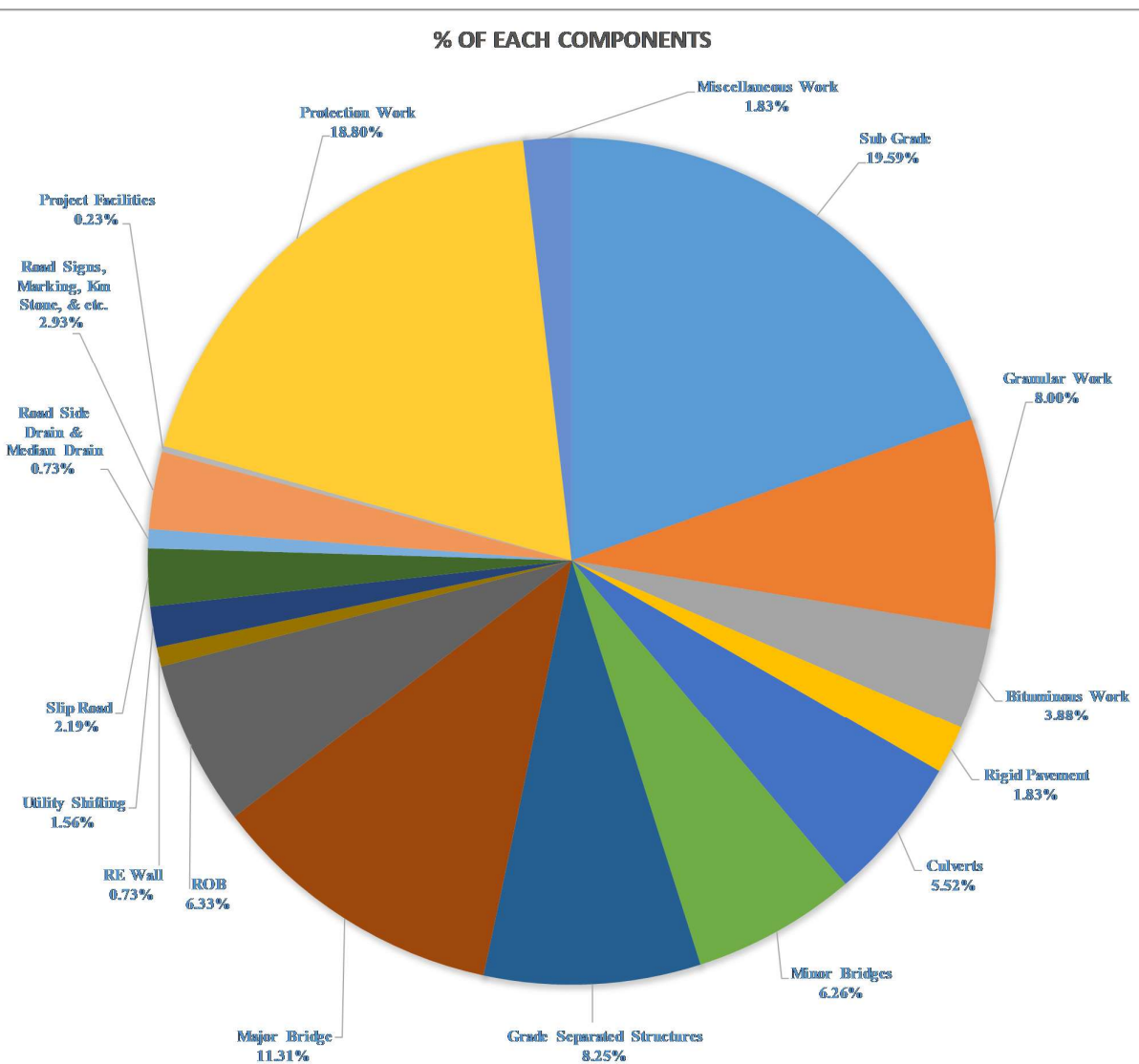


	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25	Jan-26	Feb-26	Mar-26	Apr-26	May-26	Jun-26	Jul-26	Aug-26	Sep-26	Oct-26	Nov-26	Dec-26	Jan-27	Feb-27
Plan in %	1.93%	3.89%	1.87%	0.43%	0.58%	2.54%	3.90%	7.03%	6.78%	6.79%	6.70%	6.65%	6.60%	4.69%	4.95%	3.35%	3.27%	4.28%	4.38%	6.40%	5.71%	3.96%	3.32%
Cumulative Amount	7.34 Cr	22.13 Cr	29.24 Cr	30.88 Cr	33.08 Cr	42.74 Cr	57.57 Cr	84.30 Cr	110.09 Cr	135.90 Cr	161.38 Cr	186.67 Cr	211.77 Cr	229.60 Cr	248.42 Cr	261.16 Cr	273.60 Cr	289.87 Cr	306.53 Cr	330.86 Cr	352.58 Cr	367.64 Cr	380.26 Cr

4-L of NH 37 from design Ch 0+000 on NH-8 near Karimganj to design Chainage 14+250 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

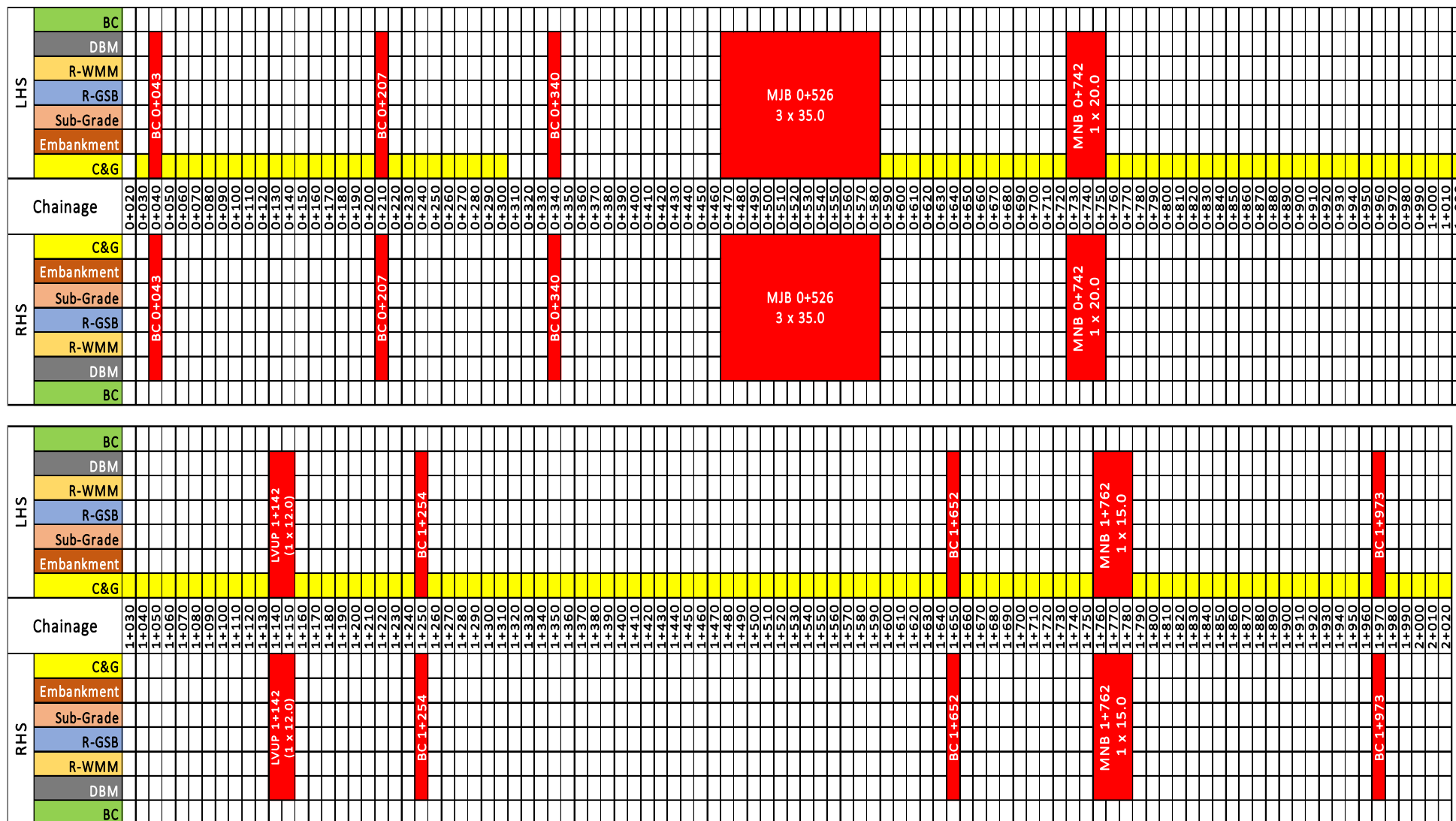
9.3 Weightages

Work Description	% of Each sub components	Amount (Cr.)
Sub Grade	19.59%	74,50,23,653.02
Granular Work	8.00%	30,43,19,594.30
Bituminous Work	3.88%	14,73,67,994.90
Rigid Pavement	1.83%	6,97,20,197.81
Culverts	5.52%	20,99,29,557.88
Minor Bridges	6.26%	23,80,73,489.15
Grade Separated Structures	8.25%	31,37,15,716.05
Major Bridge	11.31%	43,00,02,339.39
ROB	6.33%	24,07,16,649.18
RE Wall	0.73%	2,78,77,340.41
Utility Shifting	1.56%	5,92,90,359.01
Slip Road	2.19%	8,34,60,380.79
Road Side Drain & Median Drain	0.73%	2,77,26,745.67
Road Signs, Marking, Km Stone, & etc.	2.94%	11,19,05,564.92
Project Facilities	0.23%	86,55,010.23
Protection Work	18.80%	71,50,69,588.19
Miscellaneous Work	1.83%	6,97,45,819.09
Total	100.00%	3,80,26,00,000.00



4-L of NH 37 from design Ch 0+000 on NH-8 near Karimganj to design Chainage 14+250 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

9.4 Strip Chart of Highway:



4-L of NH 37 from design Ch 0+000 on NH-8 near Karimganj to design Chainage 14+250 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

RHS	Chainage	LHS					
		BC	DBM	R-WMM	R-GSB	Sub-Grade	Embankment
	2+030						
	2+040						
	2+050						
	2+060						
	2+070						
	2+080						
	2+090						
	2+100						
	2+110						
	2+120						
	2+130						
	2+140						
	2+150						
	2+160						
	2+170						
	2+180						
	2+190						
	2+200						
	2+210						
	2+220						
	2+230						
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	2+420						
	2+430						
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	2+460						
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	2+870						
	2+880						
	2+890						
	2+900						
	2+910						
	2+920						
	2+930						
	2+940						
	2+950						
	2+960						
	2+970						
	2+980						
	2+990						
	3+000						
	3+010						
	3+020						

RHS	Chainage	LHS					
		BC	DBM	R-WMM	R-GSB	Sub-Grade	Embankment
	3+030						
	3+040						
	3+050						
	3+060						
	3+070						
	3+080						
	3+090						
	3+100						
	3+110						
	3+120						
	3+130						
	3+140						
	3+150						
	3+160						
	3+170						
	3+180						
	3+190						
	3+200						
	3+210						
	3+220						
	3+230						
	3+240						
	3+250						
	3+260						
	3+270						
	3+280						
	3+290						
	3+300						
	3+310						
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	3+370						
	3+380						
	3+390						
	3+400						
	3+410						
	3+420						
	3+430						
	3+440						
	3+450						
	3+460						
	3+470						
	3+480						
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	3+810						
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	3+830						
	3+840						
	3+850						
	3+860						
	3+870						
	3+880						
	3+890						
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	3+920						
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	3+940						
	3+950						
	3+960						
	3+970						
	3+980						
	3+990						
	4+000						
	4+010						
	4+020						

4-L of NH 37 from design Ch 0+000 on NH-8 near Karimganj to design Chainage 14+250 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

		LHS							RHS									
Chainage	RHS	BC	DBM	R-WMM	R-GSB	Sub-Grade	Embankment	C&G	Chainage	LHS	BC	DBM	R-WMM	R-GSB	Sub-Grade	Embankment	C&G	
																		</

4-L of NH 37 from design Ch 0+000 on NH-8 near Karimganj to design Chainage 14+250 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

RHS	Chainage	LHS						
		BC	DBM	R-WMM	R-GSB	Sub-Grade	Embankment	C&G
	6+030							
	6+040							
	6+050							
	6+060							
	6+070							
	6+080							
	6+090							
	6+100							
	6+110							
	6+120							
	6+130							
	6+140							
	6+150							
	6+160							
	6+170							
	6+180							
	6+190	BC 6+190						BC 6+190
	6+200							
	6+210							
	6+220							
	6+230							
	6+240							
	6+250							
	6+260							
	6+270							
	6+280							
	6+290							
	6+300							
	6+310	MNB 6+313 (1x15.0)						MNB 6+313 (1x15.0)
	6+320							
	6+330							
	6+340							
	6+350							
	6+360							
	6+370							
	6+380							
	6+390							
	6+400							
	6+410							
	6+420							
	6+430							
	6+440							
	6+450							
	6+460							
	6+470							
	6+480							
	6+490							
	6+500							
	6+510							
	6+520							
	6+530							
	6+540							
	6+550							
	6+560							
	6+570							
	6+580							
	6+590							
	6+600							
	6+610							
	6+620							
	6+630							
	6+640	BC 6+642						BC 6+642
	6+650							
	6+660							
	6+670							
	6+680							
	6+690							
	6+700							
	6+710							
	6+720							
	6+730							
	6+740							
	6+750							
	6+760							
	6+770							
	6+780							
	6+790							
	6+800							
	6+810							
	6+820							
	6+830							
	6+840							
	6+850							
	6+860							
	6+870							
	6+880							
	6+890							
	6+900							
	6+910							
	6+920							
	6+930							
	6+940							
	6+950							
	6+960							
	6+970							
	6+980							
	7+000							
	7+010							
	7+020							

RHS	Chainage	LHS						
		BC	DBM	R-WMM	R-GSB	Sub-Grade	Embankment	C&G
RHS	C&G	7+030						
	Embankment	7+040						
	Sub-Grade	7+050						
	R-GSB	7+060						
	R-WMM	7+070						
	DBM	7+080						
	BC	7+090						
		7+100						
		7+110						
		7+120						
		7+130						
		7+140						
		7+150						
		7+160						
		7+170						
		7+180						
		7+190						
		7+200						
		LVUP 7+213 (1x12.0)	7+210					LVUP 7+213 (1x12.0)
			7+220					
			7+230					
			7+240					
			7+250					
			7+260					
			7+270					
			7+280					
			7+290					
		MNB 7+306 (1x6.0)	7+300					MNB 7+306 (1x6.0)
			7+310					
			7+320					
			7+330					
			7+340					
			7+350					
			7+360					
			7+370					
			7+380					
			7+390					
			7+400					
			7+410					
			7+420					
		7+430						
		7+440						
		7+450						
		7+460						
		7+470						
		7+480						
		7+490						
		7+500						
		7+510						
		7+520						
		7+530						
		7+540						
		7+550						
		7+560						
		7+570						
		7+580						
		7+590						
		7+600						
		7+610						
		7+620						
		7+630						
		7+640						
		7+650						
		7+660						
	BC 7+668	7+670					BC 7+668	
		7+680						
		7+690						
		7+700						
		7+710						
		7+720						
		7+730						
		7+740						
		7+750						
		7+760						
		7+770						
		7+780						
		7+790						
		7+800						
		7+810						
		7+820						
	BC 7+832	7+830					BC 7+832	
		7+840						
		7+850						
		7+860						
		7+870						
		7+880						
		7+890						
		7+900						
		7+910						
		7+920						
		7+930						
		7+940						
		7+950						
		7+960						
		7+970						
		7+980						
		7+990						
		8+000						
		8+010						
		8+020						

4-L of NH 37 from design Ch 0+000 on NH-8 near Karimganj to design Chainage 14+250 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

RHS	Chainage	LHS						
		BC	DBM	R-WMM	R-GSB	Sub-Grade	Embankment	C&G
	8+030							
	8+040							
	8+050							
	8+060							
	8+070							
	8+080							
	8+090							
	8+100							
	8+110							
	8+120							
	8+130							
	8+140							
	8+150							
	8+160							
	8+170							
	8+180							
	8+190							BC 8+188
	8+200							
	8+210							
	8+220							
	8+230							
	8+240							
	8+250							
	8+260							
	8+270							
	8+280							
	8+290							
	8+300							
	8+310							
	8+320							
	8+330							
	8+340							
	8+350							
	8+360							
	8+370							
	8+380							
	8+390							
	8+400							
	8+410							
	8+420							
	8+430							
	8+440							
	8+450							
	8+460							
	8+470							
	8+480							
	8+490							
	8+500							
	8+510							
	8+520							
	8+530							
	8+540							
	8+550							
	8+560							
	8+570							
	8+580							BC 8+576
	8+590							
	8+600							
	8+610							
	8+620							
	8+630							
	8+640							
	8+650							
	8+660							
	8+670							
	8+680							
	8+690							
	8+700							
	8+710							
	8+720							
	8+730							
	8+740							
	8+750							
	8+760							
	8+770							
	8+780							
	8+790							
	8+800							
	8+810							
	8+820							
	8+830							
	8+840							
	8+850							
	8+860							
	8+870							
	8+880							
	8+890							
	8+900							
	8+910							
	8+920							
	8+930							
	8+940							
	8+950							
	8+960							
	8+970							
	8+980							
	8+990							
	9+000							MNB 9+003 (1x6.0)
	9+010							
	9+020							

RHS	Chainage	LHS	BC	9+030	
			DBM	9+040	
			R-WMM	9+050	
			R-GSB	9+060	
			Sub-Grade	9+070	
			Embankment	9+080	
			C&G	9+090	
				9+100	
	9+110				
	9+120				
	9+130				
	9+140				
	9+150				
	9+160				
	9+170				
	9+180				
	9+190				
	9+200				
	9+210				
	9+220				
	9+230				
	9+240				
	9+250				
	9+260				
	9+270				
	9+280				
	9+290	MNB 9+293 (1x6.0)			
	9+300				
	9+310				
	9+320				
	9+330	LVUP 9+332 (1x12.0)			
	9+340				
	9+350				
	9+360				
	9+370				
	9+380				
	9+390				
	9+400				
	9+410				
	9+420				
	9+430				
	9+440				
	9+450				
	9+460				
	9+470				
	9+480				
	9+490				
	9+500				
	9+510				
	9+520				
	9+530				
	9+540	BC 9+543			
	9+550				
	9+560				
	9+570				
	9+580				
	9+590				
	9+600				
	9+610				
	9+620				
	9+630				
	9+640				
	9+650				
	9+660				
	9+670				
	9+680				
	9+690				
	9+700				
	9+710				
	9+720				
	9+730				
	9+740				
	9+750				
	9+760				
	9+770				
	9+780	BC 9+779			
	9+790				
	9+800				
	9+810				
	9+820				
	9+830				
	9+840				
	9+850				
	9+860				
	9+870				
	9+880				
	9+890				
	9+900				
	9+910				
	9+920				
	9+930				
	9+940				
	9+950				
	9+960				
	9+970				
	9+980				
	9+990				
	10+000				
	10+010				
	10+020				

4-L of NH 37 from design Ch 0+000 on NH-8 near Karimganj to design Chainage 14+250 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

[illegible]

4-L of NH 37 from design Ch 0+000 on NH-8 near Karimganj to design Chainage 14+250 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

RHS	Chainage	LHS
BC	12+030	
DBM	12+040	
R-WMM	12+050	
R-GSB	12+060	
Sub-Grade	12+070	
Embankment	12+080	
C&G	12+090	
	12+100	
	12+110	
	12+120	
	12+130	
	12+140	
	12+150	
	12+160	
	12+170	
	12+180	
	12+190	
	12+200	
	12+210	
	12+220	BC 12+223
	12+230	
	12+240	
	12+250	
	12+260	
	12+270	
	12+280	
	12+290	
	12+300	
	12+310	
	12+320	
	12+330	
	12+340	
	12+350	
	12+360	
	12+370	
	12+380	
	12+390	
	12+400	
	12+410	
	12+420	
	12+430	
	12+440	
	12+450	
	12+460	
	12+470	
	12+480	
	12+490	
	12+500	
	12+510	
	12+520	
	12+530	
	12+540	
	12+550	
	12+560	
	12+570	
	12+580	
	12+590	
	12+600	
	12+610	
	12+620	
	12+630	
	12+640	
	12+650	
	12+660	BC 12+663
	12+670	
	12+680	
	12+690	
	12+700	
	12+710	
	12+720	
	12+730	
	12+740	
	12+750	
	12+760	
	12+770	
	12+780	
	12+790	
	12+800	
	12+810	
	12+820	
	12+830	
	12+840	
	12+850	
	12+860	
	12+870	
	12+880	
	12+890	
	12+900	
	12+910	
	12+920	
	12+930	
	12+940	
	12+950	
	12+960	
	12+970	
	12+980	
	12+990	
	13+000	
	13+010	

RHS	Chainage	LHS
BC	13+030	
DBM	13+040	
R-WMM	13+050	
R-GSB	BC 13+065	BC 13+065
Sub-Grade	13+070	
Embankment	13+080	
C&G	13+090	
	13+100	
	13+110	
	13+120	
	13+130	
	13+140	
	13+150	
	13+160	
	13+170	
	13+180	
	13+190	
	13+200	
	13+210	
	13+220	
	13+230	
	13+240	
	13+250	
	13+260	
	13+270	
	13+280	
	13+290	
	13+300	
	13+310	
	13+320	
	13+330	
	13+340	
	13+350	
	13+360	
	13+370	
	BC 13+380	BC 13+380
	13+390	
	13+400	
	13+410	
	13+420	
	13+430	
	13+440	
	13+450	
	13+460	
	13+470	
	13+480	
	13+490	
	13+500	
	13+510	
	13+520	
	13+530	
	13+540	
	13+550	
	13+560	
	13+570	
	13+580	
	13+590	
	13+600	
	13+610	
	13+620	
	13+630	
	13+640	
	13+650	
	13+660	
	13+670	
	13+680	
	13+690	
	13+700	
	13+710	
	13+720	
	BC 13+740	BC 13+740
	13+750	
	13+760	
	13+770	
	13+780	
	13+790	
	13+800	
	13+810	
	13+820	
	13+830	
	13+840	
	13+850	
	13+860	
	13+870	
	13+880	
	13+890	
	13+900	
	13+910	
	13+920	
	13+930	
	13+940	
	13+950	
	13+960	
	13+970	
	13+980	
	13+990	
	14+000	
	14+010	

[illegible]

4-L of NH 37 from design Ch 0+000 on NH-8 near Karimganj to design Chainage 14+250 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

9.5 Detailed Structure Work Progress

9.5.1 Status of 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	00+043	A1											
												A2		A2											
2												A1	00+207	A1											
												A2		A2											
3												A1	00+341	A1											
												A2		A2											
4												A1	01+254	A1											
												A2		A2											
5												A1	01+652	A1											
												A2		A2											
6												A1	01+973	A1											
												A2		A2											
7												A1	02+143	A1											
												A2		A2											
8												A1	02+440	A1											
												A2		A2											
9												A1	03+418	A1											
												A2		A2											
10												A1	03+646	A1											
												A2		A2											
11												A1	03+925	A1											
												A2		A2											

4-L of NH 37 from design Ch 0+000 on NH-8 near Karimganj to design Chainage 14+250 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

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	Layout & Excavation	PCC/Granular Bed	Raft	Haunch	Wall 1st Lift	Wall 2nd Lift	Wall Final Lift	Top Haunch	Top Slab	Parapet Wall	Protection Work	
12												A1	04+018	A1											
												A2		A2											
13												A1	04+340	A1											
												A2		A2											
14												A1	04+847	A1											
												A2		A2											
15												A1	05+126	A1											
												A2		A2											
16												A1	05+920	A1											
												A2		A2											
17												A1	06+190	A1											
												A2		A2											
18												A1	06+642	A1											
												A2		A2											
19												A1	07+668	A1											
												A2		A2											
20												A1	07+832	A1											
												A2		A2											
21												A1	08+188	A1											
												A2		A2											
22												A1	08+576	A1											
												A2		A2											

4-L of NH 37 from design Ch 0+000 on NH-8 near Karimganj to design Chainage 14+250 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

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	Layout & Excavation	PCC/Granular Bed	Raft	Haunch	Wall 1st Lift	Wall 2nd Lift	Wall Final Lift	Top Haunch	Top Slab	Parapet Wall	Protection Work	
23												A1	09+543	A1											
												A2		A2											
24												A1	09+779	A1											
												A2		A2											
25												A1	10+529	A1											
												A2		A2											
26												A1	11+073	A1											
												A2		A2											
27												A1	11+921	A1											
												A2		A2											
28												A1	12+223	A1											
												A2		A2											
29												A1	12+663	A1											
												A2		A2											
30												A1	13+065	A1											
												A2		A2											
31												A1	13+380	A1											
												A2		A2											
32												A1	13+740	A1											
												A2		A2											

1	Not Available	1
2	In Progress	
3	Completed	

4-L of NH 37 from design Ch 0+000 on NH-8 near Karimganj to design Chainage 14+250 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

9.5.2 Status of Minor Bridge

SN	LHS												Minor Bridge Chainage	RHS													
	Miscellaneous Item	Crash Barrier	Approach Slab	Desk Slab	PSC Girder	Pedestal	Dirt Wall	Abutment Cap	Abutment Wall	Abutment Pile Cap	Abutment Pile	Layout & Excavation		Abutment	Abutment	Layout & Excavation	Abutment Pile	Abutment Pile Cap	Abutment Wall	Abutment Cap	Dirt Wall	Pedestal	PSC Girder	Desk Slab	Approach Slab	Crash Barrier	Miscellaneous Item
1													A1	00+742	A1												
													A2		A2												
2													A1	01+768	A1												
													A2		A2												
3													A1	06+313	A1												
													A2		A2												
4													A1	07+306	A1												
													A2		A2												
5													A1	09+003	A1												
													A2		A2												
6													A1	09+293	A1												
													A2		A2												
7													A1	11+363	A1												
													A2		A2												
8													A1	14+195	A1												
													A2		A2												

1	Not Available	1
2	In Progress	
3	Completed	

4-L of NH 37 from design Ch 0+000 on NH-8 near Karimganj to design Chainage 14+250 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

9.5.3 Status of Major Bridge & ROB

SN	LHS														Major Bridge & ROB Chainage	RHS															
	Miscellaneous Item	Crash Barrier	Approach Slab	Desk Slab	PSC Girder	Pedestal	Dirt Wall	Pier Cap	Pier Column	Abutment/ Pier Cap	Abutment Wall	Abutment/ Pier Pile Cap	Abutment/ Pier Pile	Layout & Excavation		Abutment	Layout & Excavation	Abutment/ Pier Pile	Abutment/ Pier Pile Cap	Abutment Wall	Abutment/ Pier Cap	Pier Column	Pier Cap	Dirt Wall	Pedestal	PSC Girder	Desk Slab	Approach Slab	Crash Barrier	Miscellaneous Item	
1															A1	00+526	A1														
															P1		P1														
															P2		P2														
															A2		A2														
2															A1	02+880	A1														
															P1		P1														
															P2		P2														
															A2		A2														
3															A1	05+322	A1														
															P1		P1														
															P2		P2														
															A2		A2														
1															A1	ROB 04+624	A1														
															P1		P1														
															P2		P2														
															P3		P3														
															A2		A2														

1	Not Available	1
2	In Progress	
3	Completed	

4-L of NH 37 from design Ch 0+000 on NH-8 near Karimganj to design Chainage 14+250 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

9.5.4 Status of VUP

SN	LHS												VUP Chainage	RHS													
	Miscellaneous Item	Crash Barrier	Approach Slab	Desk Slab	PSC Girder	Pedestal	Dirt Wall	Abutment Cap	Abutment Wall	Abutment Pile Cap	Abutment Pile	Layout & Excavation		Abutment	Abutment	Layout & Excavation	Abutment Pile	Abutment Pile Cap	Abutment Wall	Abutment Cap	Dirt Wall	Pedestal	PSC Girder	Desk Slab	Approach Slab	Crash Barrier	Miscellaneous Item
1													A1	02+999	A1												
													A2		A2												
2													A1	05+622	A1												
													A2		A2												

1	Not Available	1
2	In Progress	
3	Completed	

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9.5.4 Status of LVUP & SVUP

SN	LHS											LVUP & SVUP Chainage	RHS											
	Miscellaneous Item	Crash Barrier	Approach Slab	Top Slab Bracket	Top Slab Haunch	RCC Top Slab	Abutment Wall	Bottom Slab Haunch	Raft	PCC/Granular Bed	Layout & Excavation		Abutment	Layout & Excavation	PCC/Granular Bed	Raft	Bottom Slab Haunch	Abutment Wall	RCC Top Slab	Top Slab Haunch	Top Slab Bracket	Approach Slab	Crash Barrier	Miscellaneous Item
1												A1	01+142	A1										
												A2		A2										
2												A1	03+886	A1										
												A2		A2										
3												A1	04+212	A1										
												A2		A2										
4												A1	05+414	A1										
												A2		A2										
5												A1	07+213	A1										
												A2		A2										
6												A1	09+332	A1										
												A2		A2										
7												A1	10+098	A1										
												A2		A2										
8												A1	10+834	A1										
												A2		A2										
9												A1	12+310	A1										
												A2		A2										
1												A1	SVUP 03+728	A1										
												A2		A2										

1	Not Available	1
2	In Progress	
3	Completed	

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: -5+600. 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 March, 2025 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 Black Tiger (OPC 43 Grade), Dalmia Cement (OPC 43 Grade), Star Cement (OPC 43 Grade), Amrit Cement (OPC 43 Grade) & Max Cement (OPC 43 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, M/s Shyam Metalics and Energy Limited.

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10.3.4 Status of materials source approval & Mix Design

Cement				
Sr. No.	Brand Name	Letter No.	Status	IE Letter No.
1.	Black Tiger Cement	MKCIL/ASSAM/PKG-07/106 dt. 24.03.2025		
2.	Dalmia Cement	MKCIL/ASSAM/PKG-07/107 dt. 24.03.2025		
3.	Max Cement	MKCIL/ASSAM/PKG-07/108 dt. 24.03.2025		
4.	Star Cement	MKCIL/ASSAM/PKG-07/109 dt. 24.03.2025		
5.	Amrit Cement	MKCIL/ASSAM/PKG-07/110 dt. 24.03.2025		

Reinforcement Steel				
Sr. No.	Brand Name	Letter No.	Status	IE Letter No.
1.	Rashmi Metaliks Limited	MKCIL/ASSAM/PKG-07/111 dt. 24.03.2025		
2.	Shyam Steel industries Ltd.	MKCIL/ASSAM/PKG-07/112 dt. 24.03.2025		
3.	SRMB Srijan Pvt. Ltd.	MKCIL/ASSAM/PKG-07/113 dt. 24.03.2025		
4.	Shyam Metalics & Energy Ltd.	MKCIL/ASSAM/PKG-07/132 dt. 04.04.2025		

Admixture				
Sr. No.	Brand Name	Letter No.	Status	IE Letter No.
1.	Berger Paints Pvt. Ltd.	MKCIL/ASSAM/PKG-07/101 dt. 24.03.2025		
2.	CHRYSO India Pvt. Ltd	MKCIL/ASSAM/PKG-07/102 dt. 24.03.2025		
3.	CICO Technologies Ltd.	MKCIL/ASSAM/PKG-07/103 dt. 24.03.2025		
4.	FOSROC Chemicals (India) Ltd.	MKCIL/ASSAM/PKG-07/104 dt. 24.03.2025		
5.	Vista Chemtech Pvt. Ltd.	MKCIL/ASSAM/PKG-07/105 dt. 24.03.2025		

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Sr.No.	Name of test	Reference as per IS/ MoRT&H	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 cChecked by IE			% Checked by IE	Remarks
				Tested	Passed	Failed	Tested	Passed	Failed	Tested	Passed	Failed	Tested	Passed	Failed		
LAB & FIELD TEST'S																	
(I). OGL Samples		IRC:36-2010															
1.1	Free Swelling Index (FSI)	IS: 2720 (P-40)	1 Test / Every 500 m Interval's	32	32	0	0	0	0	32	32	0	0	0	0	0.00	
1.2	Grain size analysis	IS: 2720 (P-4)	1 Test / Every 500 m Interval's	32	32	0	0	0	0	32	32	0	0	0	0	0.00	
1.3	Liquid limits (LL)	IS: 2720 (P-5)	1 Test / Every 500 m Interval's	32	32	0	0	0	0	32	32	0	0	0	0	0.00	
1.4	Plasticity Index (PI)	IS: 2720 (P-5)	1 Test / Every 500 m Interval's	32	32	0	0	0	0	32	32	0	0	0	0	0.00	
1.5	Proctor test (MDD & OMC)	IS: 2720 (P-8)	1 Test / Every 500 m Interval's	32	32	0	0	0	0	32	32	0	0	0	0	0.00	
1.6	California Bearing Ratio Test (CBR)	IS: 2720 (P-16)	As Required	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
1.7	Field Compaction Test (OGL)	IS: 2720 (P-28)	1 Set / 3000 Sqm. (1Set = 10 Pit's)	322	309	13	0	0	0	322	309	13	0	0	0	0.00	
(II). Borrow area Samples (EMB/SG)		MoRT&H (Clause-305)															
2.1	Free Swelling Index (FSI)	IS: 2720 (P-40)	2 Test's / 3000 Cum.	12	12	0	3	3	0	15	15	0	0	0	0	0.00	
2.2	Grain size analysis (GSA)	IS: 2720 (P-4)	2 Test's / 3000 Cum.	12	12	0	3	3	0	15	15	0	0	0	0	0.00	
2.3	Liquid limits (LL)	IS: 2720 (P-5)	2 Test's / 3000 Cum.	12	12	0	3	3	0	15	15	0	0	0	0	0.00	
2.4	Plasticity Index (PI)	IS: 2720 (P-5)	2 Test's / 3000 Cum.	12	12	0	3	3	0	15	15	0	0	0	0	0.00	
2.5	Proctor test (MDD & OMC)	IS: 2720 (P-8)	2 Test's / 3000 Cum.	12	12	0	3	3	0	15	15	0	0	0	0	0.00	
2.6	California Bearing Ratio Test (CBR)	IS: 2720 (P-16)	1 Test's / 3000 Cum.	6	6	0	2	2	0	8	8	0	0	0	0	0.00	
2.7	Field Compaction Test (Emb)	IS: 2720 (P-28)	1 Set / 3000 Sqm. (1Set = 10 Pit's)	235	219	16	58	53	5	293	272	21	0	0	0	0.00	
2.8	Field Compaction Test (Subgrade)	IS: 2720 (P-28)	1 Set / 2000 Sqm. (1Set = 10 Pit's)	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
(III). Coarse Agg. for Concrete Work's		MoRT&H Table -900-6															
4.1	Gradation of Coarse Aggregate	IS: 2386 (P-1)	1 Test / Every day's work	10	10	0	4	4	0	14	14	0	0	0	0	0.00	
4.2	Flakiness Index (FI)	IS: 2386 (P-1)	1 Test for source / Weekly	3	3	0	2	2	0	5	5	0	0	0	0	0.00	
4.3	Aggregate Impact Value (A.I.V)	IS: 2386 (P-4)	1 Test for source / Weekly	3	3	0	2	2	0	5	5	0	0	0	0	0.00	
4.4	Specific Gravity	IS: 2386 (P-3)	1 Test / Source	3	3	0	0	0	0	3	3	0	0	0	0	0.00	
4.5	Water Absorption	IS: 2386 (P-3)	1 Test / Source	3	3	0	0	0	0	3	3	0	0	0	0	0.00	
4.6	Deleterious Constituents	IS: 2386 (P-2)	1 Test / As Required	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	0	0	0	3	3	0	3	3	0	0	0	0	0.00	
4.8	Soundness	IS: 2386 (P-5)	1 Test / Source	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
4.9	Alkali Aggregate Reactivity	IS: 2386 (P-7)	1 Test / Source	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
(IV). Fine Agg. for Concrete		MoRT&H Table -900-6															
5.1	Gradation	IS: 383	1 Test / Every day's work	5	5	0	4	4	0	9	9	0	0	0	0.00	0.00	
5.2	Specific Gravity	IS: 2386 (P-3)	1 Test / Source	3	3	0	0	0	0	3	3	0	0	0	0.00	0.00	
5.3	Water Absorption	IS: 2720 (P-3)	1 Test / Source	3	3	0	0	0	0	3	3	0	0	0	0.00	0.00	
5.4	Silt Content	IS: 383	1 Test / Weekly	3	3	0	2	2	0	5	5	0	0	0	0.00	0.00	
5.5	Moisture correction	IS: 2386 (P-3)	1 Test / Every day's work	0	0	0	3	3	0	3	3	0	0	0	0.00	0.00	
(V). Concrete Cube's Compressive Strength Test		IS: 516															
„ Grade of Concrete : M-10 PCC																	
6.1	for 7 days	IS: 516	As per Frequency MoRT&H Table 1700-09	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
6.2	for 28 days	IS: 516	As per Frequency MoRT&H Table 1700-09	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
„ Grade of Concrete : M-15 PCC																	
6.3	for 7 days	IS: 516	As per Frequency MoRT&H Table 1700-09	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
6.4	for 28 days	IS: 516	As per Frequency MoRT&H Table 1700-09	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
„ Grade of Concrete : M-20 PCC																	
6.5	for 7 days	IS: 516	As per Frequency MoRT&H Table 1700-09	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
6.6	for 28 days	IS: 516	As per Frequency MoRT&H Table 1700-09	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
„ Grade of Concrete : M-20 RCC																	
6.7	for 7 days	IS: 516	As per Frequency MoRT&H Table 1700-09	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
6.8	for 28 days	IS: 516	As per Frequency MoRT&H Table 1700-09	0	0	0	0	0	0	0	0	0	0	0	0	0.00	

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Grade of Concrete : M-20 for KERB																	
6.9	for 7 days	IS: 516	As per Frequency MoRT&H Table 1700-09	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
6.1	for 28 days	IS: 516	As per Frequency MoRT&H Table 1700-09	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
Grade of Concrete : M-25 RCC																	
6.11	for 7 days	IS: 516	As per Frequency MoRT&H Table 1700-09	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
6.12	for 28 days	IS: 516	As per Frequency MoRT&H Table 1700-09	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
Grade of Concrete : M-30 RCC																	
6.13	for 7 days	IS: 516	As per Frequency MoRT&H Table 1700-09	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
6.14	for 28 days	IS: 516	As per Frequency MoRT&H Table 1700-09	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
Grade of Concrete : M-35 RCC																	
6.15	for 7 days	IS: 516	As per Frequency MoRT&H Table 1700-09	0	0	0	1	1	0	1	1	0	0	0	0	0.00	
6.16	for 28 days	IS: 516	As per Frequency MoRT&H Table 1700-09	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
Grade of Concrete : M-35 Pile																	
6.17	for 7 days	IS: 516	As per Frequency MoRT&H Table 1700-09	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
6.18	for 28 days	IS: 516	As per Frequency MoRT&H Table 1700-09	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
Grade of Concrete : M-35 RE BLOCK																	
6.19	for 7 days	IS: 516	As per Frequency MoRT&H Table 1700-09	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
6.2	for 28 days	IS: 516	As per Frequency MoRT&H Table 1700-09	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
Grade of Concrete : M-40 RCC																	
6.21	for 7 days	IS: 516	As per Frequency MoRT&H Table 1700-09	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
6.22	for 28 days	IS: 516	As per Frequency MoRT&H Table 1700-09	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
Grade of Concrete : M-45 RCC/PSC																	
6.23	for 7 days	IS: 516	As per Frequency MoRT&H Table 1700-09	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
6.24	for 28 days	IS: 516	As per Frequency MoRT&H Table 1700-09	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
Grouting of PSC Girders																	
6.25	for 7 days	IS: 516	As per Frequency MoRT&H	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
6.26	for 28 days	IS: 516	As per Frequency MoRT&H	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
(VI). Cement tests																	
7.1	Fineness of Cement	IS: 4031 (P-1)	1 Test Every Batch of Cement	2	2	0	1	1	0	3	3	0	0	0	0	0.00	
7.2	Normal Consistency	IS: 4031 (P-4)	1 Test Every Batch of Cement	2	2	0	1	1	0	3	3	0	0	0	0	0.00	
7.3	Initial Setting Time	IS: 4031 (P-5)	1 Test Every Batch of Cement	2	2	0	1	1	0	3	3	0	0	0	0	0.00	
7.4	Final Setting time	IS: 4031 (P-5)	1 Test Every Batch of Cement	2	2	0	1	1	0	3	3	0	0	0	0	0.00	
7.5	Compressive Strength (03 Days)	IS: 516	1 Test Every Batch of Cement	0	0	0	3	3	0	3	3	0	0	0	0	0.00	
7.6	Compressive Strength (07 Days)	IS: 516	1 Test Every Batch of Cement	0	0	0	3	3	0	3	3	0	0	0	0	0.00	
7.7	Compressive Strength (28 Days)	IS: 516	1 Test Every Batch of Cement	0	0	0	2	2	0	2	2	0	0	0	0	0.00	
7.8	Soundness	IS: 4031 (P-3)	1 Test Every Batch of Cement	0	0	0	0	0	0	0	0	0	0	0	0	0.0	
7.9	Specific Gravity	IS: 4031 (P-11)	1 Test Every Batch of Cement	0	0	0	0	0	0	0	0	0	0	0	0	0.0	
(VII). Granular Sub-Base (GSB)		MoRT&H Clause - 401															
8.1	Gradation	Table 400-2	1 Test /400 Cum.	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
8.2	Liquid limits (LL)	IS: 2720 (P-5)	1 Test /400 Cum.	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
8.3	Plasticity Index (PI)	IS: 2720 (P-5)	1 Test /400 Cum.	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
8.4	Moisture Prior to Compaction Test	IS: 2720 (P-2)	1 Test /400 Cum.	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
8.5	Proctor test (MDD & OMC)	IS: 2720 (P-8)	1 Test Per Source / As Required	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
8.6	California Bearing Ratio Test (CBR)	IS: 2720 (P-16)	1 Test Per Source / As Required	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
8.7	Water Absorption	IS: 2720 (P-3)	1 Test Per Source / As Required	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
8.8	Aggregate Impact Value (AIV)	IS: 2386 (P-4)	As Required	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
8.9	Field Compaction Test (GSB)	IS: 2720 (P-28)	1 Set / 1000 Sqm. (1Set = 3 Pit's)	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
(VIII). Cement Treated Sub Base (CTSB)		MoRT&H Clause - 403 & IRC-37: 2018															
9.1	Gradation	MoRT&H Table 400-4	1 Test 400 Cum.	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
9.2	Liquid limits (LL)	IS: 2720 (P-5)	1 Test 400 Cum.	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
9.3	Plasticity Index (PI)	IS: 2720 (P-5)	1 Test 400 Cum.	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
9.4	Proctor test (MDD & OMC)	IS: 2720 (P-8)	As Required	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
9.5	Unconfined Compressive Strength (UCS)	IS: 516	3 Specimens each 400 ton/ Minimum 2 tests per day	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
9.6	Cement Content	IS: 516	3 Specimens each 400 ton/ Minimum 2 tests per day	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
9.7	Flexural Strength	IS: 516	3 Specimens each 400 ton/ Minimum 2 tests per day	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
9.8	Soundness Test	BIS: 4332 (P-4)	As Required	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
9.9	Field Compaction Test (CTSB)	IS: 2720 (P-28)	2 Test's 500 Sqm.	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
(IX). Cement Treated Base (CTB)		MoRT&H Clause - 403 & IRC-37: 2018															
10.1	Gradation	MoRT&H Table 400-4	1 Test 400 Cum.	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
10.2	Proctor test (MDD & OMC)	IS: 2720 (P-8)	As Required	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
10.3	Unconfined Compressive Strength (UCS)	IS: 516	3 Specimens each 400 ton/ Minimum 2 tests per day	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
10.4	Cement Content	IS: 516	3 Specimens each 400 ton/ Minimum 2 Tests per day	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
10.5	Flexural Strength	IS: 516	3 Specimens each 400 ton/ Minimum 2 Tests per day	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
10.6	Soundness Test	BIS: 4332 (P-4)	As Required	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
10.7	Field Compaction Test (CTSB)	IS: 2720 (P-28)	2 Test's 500 Sqm.	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
(X). Wet Mix Macadam (WMM)		MoRT&H-406															
11.1	Gradation	Table 400-13	1 Test /200 Cum.	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
11.2	Atterberg Limits (LL & PI)	IS: 2720 (P-5)	1 Test /200 Cum.	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
11.3	Proctor test (MDD Vs OMC)	IS: 2720 (P-8)	As Required	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
11.4	Aggregate Impact Value (AIV)	IS: 2386 (P-4)	1 Test/ 1000 Cum	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
11.5	Combined Flakiness & Elongation (FI & EL)	IS: 2386 (P-1)	1 Test /500 Cum	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
11.6	Water Absorption	IS: 2386 (P-3)	As Required	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
11.7	Soundness	IS: 2386 (P-3)	As Required	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
11.8	Field Compaction Test (WMM)	IS: 2720 (P-28)	1 Set / 1000 Sqm. (1Set = 3 Pit's)	0	0	0	0	0	0	0	0	0	0	0	0	0.00	

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(XI). Aggregate Inter Layer (AIL)		MoRT&H-406														
12.1	Gradation	Table 400-13	1 Test /200 Cum.	0	0	0	0	0	0	0	0	0	0	0	0	0.00
12.2	Atterberg limits (LL & PI)	IS : 2720 (P-5)	1 Test /200 Cum.	0	0	0	0	0	0	0	0	0	0	0	0	0.00
12.3	Proctor test (MDD & OMC)	IS : 2720 (P-8)	As Required	0	0	0	0	0	0	0	0	0	0	0	0	0.00
12.4	Aggregate Impact Value (A.I.V)	IS : 2386 (P-4)	1 Test/ 1000 Cum	0	0	0	0	6	0	0	6	0	0	0	0	0.00
12.5	Combined Flakiness & Elongation (FI & EI)	IS : 2386 (P-1)	1 Test /500 Cum	0	0	0	0	0	0	0	0	0	0	0	0	0.00
12.6	Water Absorption	IS : 2386 (P-3)	As Required	0	0	0	0	0	0	0	0	0	0	0	0	0.00
12.7	Soundness	IS : 2386 (P-3)	As Required	0	0	0	0	0	0	0	0	0	0	0	0	0.00
12.8	Field Compaction Test (AIL)	IS : 2720 (P-28)	1 Set / 1000 Sqm. (1Set = 3 Pit's)	0	0	0	0	0	0	0	0	0	0	0	0	0.00
(XII). Dense Bituminous Macadam (DBM)		MoRT&H-500														
13.1	Binder Content & Gradation	As per MoRT&H	1 Test / 400 Tonnes	0	0	0	0	0	0	0	0	0	0	0	0	0.00
13.2	Mix Combined Gradation	As per MoRT&H	1 Test / 400 Tonnes	0	0	0	0	0	0	0	0	0	0	0	0	0.00
13.3	Marshall Test (In Sets)	ASTM-D-1559	1 Set/ 400 Tonnes	0	0	0	0	0	0	0	0	0	0	0	0	0.00
13.4	Aggregate Impact Value (A.I.V)	IS : 2386 (P-4)	1 Test / 350 Cum	0	0	0	0	0	0	0	0	0	0	0	0	0.00
13.5	Combined Flakiness & Elongation (FI & EI)	IS : 2386 (P-1)	1 Test / 350 Cum	0	0	0	0	0	0	0	0	0	0	0	0	0.00
13.6	Water Absorption & Specific Gravity	IS : 2386 (P-3)	1 Test/ Source & As Required	0	0	0	0	0	0	0	0	0	0	0	0	0.00
13.7	Stripping Value	IS : 6241	1 Test/ Source & As Required	0	0	0	0	0	0	0	0	0	0	0	0	0.00
13.8	Maximum Sp.Gravity(Gmm)	ASTM D 2041	1 Set/ 400 MTMix	0	0	0	0	0	0	0	0	0	0	0	0	0.00
13.9	Density of compacted layer	MoRT&H Sec.900	1 Test / 700 Sqm	0	0	0	0	0	0	0	0	0	0	0	0	0.00
13.10	Soundness	IS : 2386 (P-3)	1 Test/ Source & As Required	0	0	0	0	0	0	0	0	0	0	0	0	0.00
13.11	Sand equivalent test	IS : 2720 (P-37)	1 Test/ Source & As Required	0	0	0	0	0	0	0	0	0	0	0	0	0.00
13.12	plasticity Index	MoRT&H Sec.900	1 Test/ Source & As Required	0	0	0	0	0	0	0	0	0	0	0	0	0.00
13.13	percentage of Fractured face	MoRT&H Sec.900	1 Test/ Source & As Required	0	0	0	0	0	0	0	0	0	0	0	0	0.00
13.14	Polished Stone Value	BS: 812 (P-114)	1 Test/ Source & As Required	0	0	0	0	0	0	0	0	0	0	0	0	0.00
(XIII). Bituminous Concrete (BC)		MoRTH-500														
14.1	Binder Content & Gradation	As per MoRT&H	1 Test / 400 Tonnes	0	0	0	0	0	0	0	0	0	0	0	0	0.00
14.2	Mix Combined Gradation	As per MoRT&H	1 Test / 400 Tonnes	0	0	0	0	0	0	0	0	0	0	0	0	0.00
14.3	Marshall Test (In Sets)	ASTM-D :1559	1 Tet/ 400 Tonnes	0	0	0	0	0	0	0	0	0	0	0	0	0.00
14.4	Aggregate Impact Value (A.I.V)	IS : 2386 (P-4)	1 Test / 350 Cum	0	0	0	0	0	0	0	0	0	0	0	0	0.00
14.5	Combined Flakiness & Elongation (FI & EI)	IS : 2386 (P-1)	1 Test / 350 Cum	0	0	0	0	0	0	0	0	0	0	0	0	0.00
14.6	Water Absorption & Specific Gravity	IS : 2386 (P-3)	1 Test/ Source & As Required	0	0	0	0	0	0	0	0	0	0	0	0	0.00
14.7	Stripping Value	IS : 6241	1 Test/ Source & As Required	0	0	0	0	0	0	0	0	0	0	0	0	0.00
14.8	Maximum Sp.Gravity(Gmm)	ASTM D 2041	1 set/ 400 MTMix	0	0	0	0	0	0	0	0	0	0	0	0	0.00
14.9	Density of Compacted Layer	MoRT&H Sec.900	1 test / 700 Sqm	0	0	0	0	0	0	0	0	0	0	0	0	0.00
14.10	Soundness	IS : 2386 (P-3)	1 Test/ Source & As Required	0	0	0	0	0	0	0	0	0	0	0	0	0.00
14.11	Sand equivalent test	IS : 2720 (P-37)	1 Test/ Source & As Required	0	0	0	0	0	0	0	0	0	0	0	0	0.00
14.12	plasticity Index	MoRT&H Sec.900	1 Test/ Source & As Required	0	0	0	0	0	0	0	0	0	0	0	0	0.00
14.13	percentage of Fractured face	MoRT&H Sec.900	1 Test/ Source & As Required	0	0	0	0	0	0	0	0	0	0	0	0	0.00
14.14	Polished Stone Value	BS: 812 (P-114)	1 Test/ Source & As Required	0	0	0	0	0	0	0	0	0	0	0	0	0.00
(XIV). Bitumen (VG-40)																
15.1	Softening Point(^o c)	IS : 1205	1 Test Per Lot	0	0	0	0	0	0	0	0	0	0	0	0	0.00
15.2	Penetration at 25 ^o c 100gm 5 Sec	IS : 1203	1 Test Per Lot	0	0	0	0	0	0	0	0	0	0	0	0	0.00
15.3	Ductility at 25 ^o c	IS : 1208	As Required	0	0	0	0	0	0	0	0	0	0	0	0	0.00
15.4	Absolute Viscosity at 60 ^o /135 ^o C (CST)	IS : 1206 (P-2)	1 Test Per Lot	0	0	0	0	0	0	0	0	0	0	0	0	0.00
15.5	Kinematic Viscosity at 135 ^o C (CST)	IS : 1206 (P-3)	As Required	0	0	0	0	0	0	0	0	0	0	0	0	0
15.6	Specific Gravity at 27 ^o C	IS : 2380 (P-4)	As Required	0	0	0	0	0	0	0	0	0	0	0	0	0.00
15.7	Flash Pint	IS : 1209 (IS: 1448 P-69)	As Required	0	0	0	0	0	0	0	0	0	0	0	0	0
15.8	Solubility Test	IS : 1216	As Required	0	0	0	0	0	0	0	0	0	0	0	0	0

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(XV). MODIFIED BITUMEN (PMB 76E-10)																
16.1	Specific Gravity at 27°C	IS : 2380 (P-4)	As Required	0	0	0	0	0	0	0	0	0	0	0	0	0.00
16.2	Softening Point (°C)	IS : 1205	1 Test Per Lot	0	0	0	0	0	0	0	0	0	0	0	0	0.00
16.3	Seperation, Difference in Softening Point (0°C)	IS : 15462: 2019	1 Test Per Lot	0	0	0	0	0	0	0	0	0	0	0	0	0.00
16.4	Elastic Recovery at 15°C	IS : 15462: 2019	1 Test Per Lot	0	0	0	0	0	0	0	0	0	0	0	0	0.00
(XVI). Emulsion (SS-1)																
17.1	Viscosity @ 25°C	IS : 8887:2004	1 Test Per Lot	0	0	0	0	0	0	0	0	0	0	0	0	0
17.2	Water Content	IS : 8887:2004	As Required	0	0	0	0	0	0	0	0	0	0	0	0	0
17.3	Prime coat	IS : 8887:2004	3 test / Day	0	0	0	0	0	0	0	0	0	0	0	0	0.00
(XVII). Emulsion (RS-1)																
18.1	Viscosity @ 50°C	IS : 8887:2004	1 Test Per Lot	0	0	0	0	0	0	0	0	0	0	0	0	0
18.2	Water Content	IS : 8887:2004	As Required	0	0	0	0	0	0	0	0	0	0	0	0	0
18.3	Tack Coat	IS : 8887:2004	3 test / Day	0	0	0	0	0	0	0	0	0	0	0	0	0.00
(XVIII). Lean Concrete (DLC)																
13.1	Gradation	Table 600-1	1 test / day	0	0	0	0	0	0	0	0	0	0	0	0	0.00
13.2	Field Compaction Test	IS : 2720 (P-28)	1 Set(3 pit) of tests / 2000 sqm.	0	0	0	0	0	0	0	0	0	0	0	0	0.00
13.3	Proctor test (MDD & OMC)	IS : 2720 (P-8)	As required	0	0	0	0	0	0	0	0	0	0	0	0	0.00
13.4	Aggregate Impact Value (A.I.V)	IS : 2386 (P-4)	As required	0	0	0	0	0	0	0	0	0	0	0	0	0.00
13.5	Flakiness & Elongation (FI & EI)	IS : 2386 (P-1)	As required	0	0	0	0	0	0	0	0	0	0	0	0	0.00
13.6	Water Absorption	IS : 2386 (P-3)	As required	0	0	0	0	0	0	0	0	0	0	0	0	0.00
13.7	Moisture correction	IS : 2386 (P-3)	1 test / Day	0	0	0	0	0	0	0	0	0	0	0	0	0.00
13.8	Compressive Strength (07 day's)	IS : 516	07 days/ Each Day 5 Cube's	0	0	0	0	0	0	0	0	0	0	0	0	0.00
(XIX). Pavement Quality Concrete (PQC)																
14.1	Gradation	Table 600-1	1 Test / Day	0	0	0	0	0	0	0	0	0	0	0	0	0.00
14.2	Aggregate Impact Value (A.I.V)	IS : 2386 (P-4)	As Required	0	0	0	0	0	0	0	0	0	0	0	0	0.00
14.3	Flakiness 7 Elongation (FI & EI)	IS : 2386 (P-1)	As Required	0	0	0	0	0	0	0	0	0	0	0	0	0.00
14.4	Water Absorption	IS : 2386 (P-3)	As Required	0	0	0	0	0	0	0	0	0	0	0	0	0.00
14.5	Slump Test	IS : 1199	1 Test Each Dumper	0	0	0	0	0	0	0	0	0	0	0	0	0.00
14.6	Compressive Strength (07 day's)	IS : 516	Compressive Strength (07 day's)	0	0	0	0	0	0	0	0	0	0	0	0	0.00
14.7	Compressive Strength (28 day's)	IS : 516		0	0	0	0	0	0	0	0	0	0	0	0	0.00
14.8	Flexural Strength (07 day's)	IS : 516	As per Frequency 02 Beam's /150 Cum	0	0	0	0	0	0	0	0	0	0	0	0	0.00
14.9	Flexural Strength (28 day's)	IS : 516	(Min. 6 Beam's)	0	0	0	0	0	0	0	0	0	0	0	0	0.00
THIRD PARTY TESTS (NABL ACCREDITED LABORATORY)																
(XX). Coarse Aggregates																
18.1	Gradation	IS : 2386 (P-1)	1 Test / Source	2	2	0	0	0	0	2	2	0	0	0	0	0.00
18.2	FI & EI	IS : 2386 (P-1)	1 Test / Source	2	2	0	0	0	0	2	2	0	0	0	0	0.00
18.3	Aggregate Impact Value	IS : 2386 (P-4)	1 Test / Source	2	2	0	0	0	0	2	2	0	0	0	0	0.00
18.4	Specific Gravity	IS : 2386 (P-3)	1 Test / Source	2	2	0	0	0	0	2	2	0	0	0	0	0.00
18.5	Water Absorption	IS : 2386 (P-3)	1 Test / Source	2	2	0	0	0	0	2	2	0	0	0	0	0.00
18.6	Deleterious Content	IS : 2386 (P-1)	1 Test / Source	2	2	0	0	0	0	2	2	0	0	0	0	0.00
18.7	L.A.V.	IS : 2386 (P-4)	1 Test / Source	2	2	0	0	0	0	2	2	0	0	0	0	0.00
18.8	Alkali Aggregate Reactivity	IS : 2386 (P-7)	1 Test / Source	2	2	0	0	0	0	2	2	0	0	0	0	0.00
18.9	Soundness	IS : 2386(P-5)	1 Test / Source	2	2	0	0	0	0	2	2	0	0	0	0	0.00
18.10	Petrographic Examination	IS : 2386 (P-8)	1 Test / Source	2	2	0	0	0	0	2	2	0	0	0	0	0.00
18.11	Stone Polished Value	BS-812 (P-114)	1 Test / Source	2	2	0	0	0	0	2	2	0	0	0	0	0.00

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(XXI). Fine Aggregates																
19.1	Gradation	IS : 383	1 Test / Source	2	2	0	0	0	0	2	2	0	0	0	0	0.00
19.2	Specific Gravity	IS : 2386 (P-3)	1 Test / Source	2	2	0	0	0	0	2	2	0	0	0	0	0.00
19.3	Water Absorption	IS : 2386 (P-3)	1 Test / Source	2	2	0	0	0	0	2	2	0	0	0	0	0.00
19.4	Deleterious Content	IS : 2386 (P-1)	1 Test / Source	2	2	0	0	0	0	2	2	0	0	0	0	0.00
19.5	Silt Content	IS : 2386 (P-4)	1 Test / Source	2	2	0	0	0	0	2	2	0	0	0	0	0.00
19.6	Alkali Aggregate Reactivity	IS : 2386 (P-7)	1 Test / Source	2	2	0	0	0	0	2	2	0	0	0	0	0.00
19.7	Soundness	IS : 2386(P-5)	1 Test / Source	2	2	0	0	0	0	2	2	0	0	0	0	0.00
19.8	Organic Impurities	IS : 2386 (P-8)	1 Test / Source	2	2	0	0	0	0	2	2	0	0	0	0	0.00
19.9	Fineness Modulus	IS : 383	1 Test / Source	2	2	0	0	0	0	2	2	0	0	0	0	0.00
(XXII). TMT Bar's (Steel)																
20.1	Physical properties	IS : 1786	< 10mm - 1 sample/25 MT, 10-16mm-1sample/35 MT,	0	0	0	0	0	0	0	0	0	0	0	0	0.00
20.2	Chemical properties	IS : 1786	> 16mm - 1 sample/45 MT	0	0	0	0	0	0	0	0	0	0	0	0	0.00
(XXIII). Construction Water																
21.1	Suitability for construction	IS : 456	1 Test Per Source / As Required	1	1	0	0	0	0	1	1	0	0	0	0	0.00
(XXIV). Chemical Admixture																
22.1	Physical & Chemical properties	IS : 9103	1 Test / Per Lot	0	0	0	0	0	0	0	0	0	0	0	0	0.00
(XXV). Cement (OPC-53 Grade)																
23.1	Physical & Chemical properties	IS : 8112	1 Test / Source	0	0	0	0	0	0	0	0	0	0	0	0	0.00
(XXVI). Soil - Borrow Area																
24.1	Mechanical	IS : 2720 (P-39)	1 Test / Source	0	0	0	0	0	0	0	0	0	0	0	0	0.00
(XXVII). NP-4 Hume Pipe Test																
25.1	600 MM	IS : 458	1 test per Lot / of 50 Pipes	0	0	0	0	0	0	0	0	0	0	0	0	0.00
(XXVIII). Bitumen (Emulsion)																
26.1	Bitumen Emulsion SS-1	IS : 8887	1 Test/ Per Lot	0	0	0	0	0	0	0	0	0	0	0	0	0.00
26.2	Bitumen Emulsion RS-1	IS : 8887	1 Test/ Per Lot	0	0	0	0	0	0	0	0	0	0	0	0	0.00
(XXIX). Bitumen (VG-40)																
27.1	Bitumen VG-40	IS : 73	1 Test/ Per Lot	0	0	0	0	0	0	0	0	0	0	0	0	0.00
(XXX). Bitumen (PMB)																
28.1	Bitumen PMB	IS : 15462-2019	1 Test/ Per Lot	0	0	0	0	0	0	0	0	0	0	0	0	0.00
(XXXI). Curing Compound																
29.1	Physical & Chemical properties	ASTM C309	1 Test/ Per Lot	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Remarks:																
Contractor's Representative				Concessionaire Representative				IE Representative								

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**CHAPTER-11
CORRESPONDENCE**

11.1 Outward Letter

Sr. No.	Letter No.	Date	Subject	To	Remarks
1	MKCIL/ASSAM/P KG-07/001	19.04.2024	Documents Required for Details Design.	DGM (PMU Silchar)	
2	MKCIL/ASSAM/P KG-07/003	19.07.2024	Signing Authorization for letter correspondence and submission of SPSs & IPCs for Satish Chandra Pandeya (Sr. GM Tech & Operations)	DGM (PMU Silchar)	
3	MKCIL/ASSAM/S PL/001	31.07.2024	Submission of Presentation for above Said Project	GM (RO)	
4	MKCIL/ASSAM/P KG-07/005	09.08.2024	Indent through online portal of Minor Minerals for the execution of above said project	GM (PMU Karimganj)	
5	MKCIL/ASSAM/P KG-07/008	21.08.2024	Indent through online portal of Minerals for the execution of above said project	GM (PMU Karimganj)	
6	MKCIL/ASSAM/P KG-07/013	29.08.2024	Notification for non-receipt of General Arrangement Drawing (GAD) of Road Over Bridge Under Bridges at level crossing.	GM (PMU Karimganj)	
7	MKCIL/ASSAM/P KG-07/015	03.09.2024	Revised Indent through online portal of Minor Minerals for the execution of above said project	GM (PMU Karimganj)	
8	MKCIL/ASSAM/P KG-07/017	04.09.2024	Drone videography survey as per Clause 13.6 of CA	GM (PMU Karimganj)	
9	MKCIL/ASSAM/P KG-07/021	08.10.2024	Request to issuing Form - III for applying of Labour License	GM (PMU Karimganj)	
10	MKCIL/ASSAM/P KG-07/025	14.10.2024	Request for allotment of Stone (Boulder & Gravel) under Permit	Managing Director (Assam Mineral Development Corporation Ltd)	
11	MKCIL/ASSAM/P KG-07/030	07.12.2024	Compliance of Conditions Precedent as per Article 4.1.3 of the Concession Agreement	GM (PMU Karimganj)	
12	MKCIL/ASSAM/P KG-07/032	28.12.2024	Non-Fulfilment of Land Handover and Pending Obligations by the end of Authority as per Concession Agreement clause 4.1.2.	GM (PMU Karimganj)	
13	MKCIL/ASSAM/P KG-07/035	09.01.2025	Request for providing a consent letter to the APDCL.	GM (PMU Karimganj)	
14	MKCIL/ASSAM/P KG-07/038	16.01.2025	Regarding Submission of Contract Price Weightage as per Annexure - I of Schedule - G	GM (PMU Karimganj)	
15	MKCIL/ASSAM/P KG-07/040	21.01.2025	Regarding Submission of Test Pile Drawing for Major Bridge at Ch. 05+322	GM (PMU Karimganj)	
16	MKCIL/ASSAM/P KG-07/043	24.01.2025	Notification of Force Majeure Event pursuant to provision of Clause 28.4	GM (PMU Karimganj)	
17	MKCIL/ASSAM/P KG-07/045	24.01.2025	Joint Inspection for Identification for extraction of Soil for Road Work	GM (PMU Karimganj)	
18	MKCIL/ASSAM/P KG-07/046	24.01.2025	Joint Inspection for Identification for extraction of Soil for Road Work	GM (PMU Karimganj)	

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19	MKCIL/ASSAM/P KG-07/048	25.01.2025	Regarding Submission of lower TDS deduction certificate	GM (PMU Karimganj)	
20	MKCIL/ASSAM/P KG-07/052	31.01.2025	Regarding Submission of Test Pile Drawing for Major Bridge at Ch. 05+322	GM (PMU Karimganj)	
21	MKCIL/ASSAM/P KG-07/055	07.02.2025	Regarding submission of Typical Design and Drawing for Precast Box culvert (1x2x2)	GM (PMU Karimganj)	
22	MKCIL/ASSAM/P KG-07/059	10.02.2025	Notifying Religious structures (5 Nos.) hindrances encountered in PROW.	GM (PMU Karimganj)	
23	MKCIL/ASSAM/P KG-07/062	14.02.2025	Regarding Permission with BSF - Work Intimation and Permission to start Utility Shifting Works in Border areas & stretch	GM (PMU Karimganj)	
24	MKCIL/ASSAM/P KG-07/065	17.02.2025	Regarding Submission of Design and Drawings for LVUP at Ch. 07+213 & 12+310	GM (PMU Karimganj)	
25	MKCIL/ASSAM/P KG-07/069	24.02.2025	Reg. Request for Provisional Appointment Date for Commencement of work	GM (PMU Karimganj)	
26	MKCIL/ASSAM/P KG-07/073	28.02.2025	Providing signing authorization to sign the Memorandum of Joint site visit.	GM (PMU Karimganj)	
27	MKCIL/ASSAM/P KG-07/074	28.02.2025	Reg. Compliance of Condition Precedent as per Article of 4.1.3 of Concession Agreement	GM (PMU Karimganj)	
28	MKCIL/ASSAM/P KG-07/075	01.03.2025	"Reg. Compliance of Condition Precedent as per Sub Clause (d) of Article 4.1.3 of Concession Agreement	GM (PMU Karimganj)	
29	MKCIL/ASSAM/P KG-07/076	01.03.2025	Regarding Submission of Design & Drawing for Precast Boundary Wall	GM (PMU Karimganj)	
30	MKCIL/ASSAM/P KG-07/078	03.03.2025	Reg. Submission of Aggregate 10mm, 20mm, Water, Fine aggregate (River Sand) Samples for Conducting Third Party Test	Avian Laboratory	
31	MKCIL/ASSAM/P KG-07/080	05.03.2025	Appointment of Independent Engineer as per Article 21-Independent Engineer, Clause 21.1 of Concession Agreement.	GM (PMU Karimganj)	
32	MKCIL/ASSAM/P KG-07/087	13.03.2025	Regarding Submission of Typical RE Block Drawing.	GM (PMU Karimganj)	
33	MKCIL/ASSAM/P KG-07/090	15.03.2025	Regarding Submission of Concession Agreement Volumes.	GM (PMU Karimganj)	
34	MKCIL/ASSAM/P KG-07/092	18.03.2025	Reg. Appointed Date for project	GM (PMU Karimganj)	
35	MKCIL/ASSAM/P KG-07/095	19.03.2025	Appointment of Authorized representative.	GM (PMU Karimganj)	
36	MKCIL/ASSAM/P KG-07/101	24.03.2025	Submission profile & credential of Berger Paints Pvt. Ltd. for source approval of Admixture.	GM (PMU Karimganj)	
37	MKCIL/ASSAM/P KG-07/102	24.03.2025	Submission profile & credential of CHRYSO India Pvt. Ltd. for source approval of Admixture.	GM (PMU Karimganj)	
38	MKCIL/ASSAM/P KG-07/103	24.03.2025	Submission profile & credential of CICO Technologies Limited for source approval of Admixture.	GM (PMU Karimganj)	
39	MKCIL/ASSAM/P KG-07/104	24.03.2025	Submission profile & credential of FOSROC Chemicals (India) Pvt. Ltd. for source approval of Admixture.	GM (PMU Karimganj)	
40	MKCIL/ASSAM/P KG-07/105	24.03.2025	Submission profile & credential of VISTA Chemtech Pvt. Ltd. for source approval of Admixture.	GM (PMU Karimganj)	

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41	MKCIL/ASSAM/P KG-07/106	24.03.2025	Submission profile & credential of Black Tiger Cement for source approval of Cement.	GM (PMU Karimganj)	
42	MKCIL/ASSAM/P KG-07/107	24.03.2025	Submission profile & credential of Dalmia Cement (Bharat) Limited for source approval of Cement.	GM (PMU Karimganj)	
43	MKCIL/ASSAM/P KG-07/108	24.03.2025	Submission profile & credential of Max Cement for source approval of Cement.	GM (PMU Karimganj)	
44	MKCIL/ASSAM/P KG-07/109	24.03.2025	Submission profile & credential of Star Cement Limited for source approval of Cement.	GM (PMU Karimganj)	
45	MKCIL/ASSAM/P KG-07/110	24.03.2025	Submission profile & credential of Amrit Cement Limited for source approval of Cement.	GM (PMU Karimganj)	
46	MKCIL/ASSAM/P KG-07/111	24.03.2025	Submission profile & credential of Rashmi Metaliks Limited for source approval of TMT Bar.	GM (PMU Karimganj)	
47	MKCIL/ASSAM/P KG-07/112	24.03.2025	Submission profile & credential of Shyam Steel Industries Limited for source approval of TMT Bar.	GM (PMU Karimganj)	
48	MKCIL/ASSAM/P KG-07/113	24.03.2025	Submission profile & credential of SRMB Srijan Pvt. Ltd. for source approval of TMT.	GM (PMU Karimganj)	
49	MKCIL/ASSAM/P KG-07/114	24.03.2025	Submission profile & credential of Avian Test Lab Pvt. Ltd. for Third Party Laboratory.	GM (PMU Karimganj)	
50	MKCIL/ASSAM/P KG-07/115	24.03.2025	Submission profile & credential of Delhi Test House for Third Party Laboratory.	GM (PMU Karimganj)	
51	MKCIL/ASSAM/P KG-07/118	25.03.2025	Procurement of Earth/ Soil with respect to the referred Govt. Initiative.	GM (PMU Karimganj)	
52	MKCIL/ASSAM/P KG-07/120	27.03.2025	Consent for Utility Shifting Work.	GM (PMU Karimganj)	
53	MKCIL/ASSAM/P KG-07/125	31.03.2025	Submission of third-party test report of Aggregate 10mm,20mm, Water, Fine aggregate (River Sand)	GM (PMU Karimganj)	
54	MKCIL/ASSAM/P KG-07/126	01.04.2025	Delay in Mobilization/Appointment of Independent Engineer as per Article 21-Independent Engineer, Clause 21.1 of Concession Agreement	GM (PMU Karimganj)	
55	MKCIL/ASSAM/P KG-07/128	02.04.2025	Regarding Submission of Plan and Profile with TCS for Main Carriageway & Service Road	GM (PMU Karimganj)	
56	MKCIL/ASSAM/P KG-07/129	02.04.2025	Regarding Submission of Pavement Design Report for Main Carriageway & Service Road	GM (PMU Karimganj)	
57	MKCIL/ASSAM/P KG-07/131	04.04.2025	Request letter to provide access to vehicles and construction machineries under Railway Bridge at Ch. 194+4.5 from Railway Dept.	GM (PMU Karimganj)	
58	MKCIL/ASSAM/P KG-07/132	04.04.2025	Submission profile & credential of Shyam Metalics and Energy Limited for source approval of TMT	GM (PMU Karimganj)	
59	MKCIL/ASSAM/P KG-07/134	05.04.2025	Regarding submission of GADs for 4 Nos. of Precast Box culvert (1x2x2)	GM (PMU Karimganj)	
60	MKCIL/ASSAM/P KG-07/135	05.04.2025	Regarding submission of Design & Drawings for 3 Nos. of Cast-in-Situ Box culvert(1x2x2)	GM (PMU Karimganj)	
61	MKCIL/ASSAM/P KG-07/136	05.04.2025	Regarding submission of D&D BC (1x3x3) at Ch. 0+207, 0+341 & 4+340	GM (PMU Karimganj)	
62	MKCIL/ASSAM/P KG-07/139	07.04.2025	Submission of Quality Assurance Plan as per Clause 12.1 of Concession Agreement.	GM (PMU Karimganj)	

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63	MKCIL/ASSAM/P KG-07/140	07.04.2025	Regarding submission of GADs for 6 Nos. of Precast Box culvert (1x2x2)	GM (PMU Karimganj)	
64	MKCIL/ASSAM/P KG-07/141	07.04.2025	Regarding Submission of Design & Drawings for LVUP at Ch. 03+886 & 10+098	GM (PMU Karimganj)	
65	MKCIL/ASSAM/P KG-07/142	07.04.2025	Reg. Submission of lower TDS deduction certificate	GM (PMU Karimganj)	

11.2 Inward Letter (NHIDCL)

Sr. No.	Letter No.	Date	Subject	From	Remarks
1	NHIDCL/ASSAM/NH-37/SIL-Churai/PKG-VII/233357/3087	11.03.2024	Letter of Award (LOA)	NHIDCL	
2	RO-GHY/Meeting Notice/0132/15561	30.07.2024	Review Meeting	RO Guwahati	
3	RO-GHY/Meeting Notice/0132/15036	27.05.2024	Review Meeting	RO Guwahati	
4	NHIDCL/PMU-Karimganj/SBC/Pkg-7/2024-25/54	03.09.2024	Regarding Indent through online portal of mineral minerals for the execution of above said project	GM (P), PMU Karimganj	
5	NHIDCL/PMU-Karimganj/MKC/APDCL/2024-25/138	29.11.2024	Provisional approval for construction and installation of 33kv, 11 kv, LT DTRs	GM PMU Karimganj	
6	NHIDCL/PMU-Karimganj/MKC/Land/2024-25/140	29.11.2024	Certificate of handing over and taking over of allotted land reg.	GM PMU Karimganj	
7	NHIDCL/PMU-Karimganj/MKC/Pkg-7/2024-25/165	23.12.2024	Signed copy of GAD of ROB under Silchar-Churaibari Pkg-VII	GM PMU Karimganj	
8	NHIDCL/PMU-Karimganj/MKC/Pkg-7/2024-25/168	23.12.2024	Possession certificate	GM PMU Karimganj	
9	NHIDCL/PMU-Karimganj/APDCL/Pkg-7/2024-25/184	14.01.2025	Consent Letter to APDCL for SBC pkg-7	GM PMU Karimganj	
10	NHIDCL/PMU-Karimganj/MKC/Pkg-7/2024-25/216	24.02.2025	Issue From-III Under rule (Principal for obtaining Labour License)	GM (P), PMU Karimganj	
11	NHIDCL/PMU-Karimganj/MKC/Pkg-7/2024-25/231	06.03.2025	Observation on submission of Contract Price Weightage as per Annexure-1 of Schedule-G.	GM (P), PMU Karimganj	
12	NHIDCL/RO-GHY/2021/Labour/17178	19.03.2025	Issuance of FORM -III for Labour License under Contract Labour (Regulation and Abolition) Central Rules, 1971 - Reg.	GM (P), RO Guwahati	
13	NHIDCL/PMU-Karimganj/MKC/Pkg-7/2024-25/246	26.03.2025	Estimates of Utility Shifting	GM (P), PMU Karimganj	
14	NHIDCL/PMU-Karimganj/DC/2024-25/250	27.03.2025	Procurement of Earth/ Soil under the Scheme of Amrit Sarovar	GM (P), PMU Karimganj	

4-L of NH 37 from design Ch 0+000 on NH-8 near Karimganj to design Chainage 14+250 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

CHAPTER-12

NON-CONFORMANCE REPORT

NIL

4-L of NH 37 from design Ch 0+000 on NH-8 near Karimganj to design Chainage 14+250 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

**CHAPTER-13
WEATHER REPORT**

<i>Sl no.</i>	<i>Date</i>	<i>Temperature (In °c)</i>		<i>Humidity (In %)</i>		<i>Rainfall (mm)</i>	<i>Weather Condition</i>
		<i>Maximum</i>	<i>Minimum</i>	<i>Maximum</i>	<i>Minimum</i>		
1	01-04-2025	28.5	22.0	80.0	70.0	0	Sunny
2	02-04-2025	28.5	23.3	85.0	69.0	0	Sunny
3	03-04-2025	28.3	22.2	82.0	68.0	0	Sunny
4	04-04-2025	28.9	21.9	82.0	58.0	0	Sunny
5	05-04-2025	28.9	20.1	85.0	62.0	0	Sunny
6	06-04-2025	29.3	21.3	76.0	42.0	7	Sunny/Rainy
7	07-04-2025	27.4	20.6	71.0	66.0	0	Sunny
8	08-04-2025	27.3	21.3	76.0	40.0	3	Sunny/Rainy
9	09-04-2025	28.7	21.2	78.0	69.0	0	Sunny
10	10-04-2025	28.7	22.8	77.0	64.0	3	Sunny/Rainy
11	11-04-2025	29.9	23.9	80.0	51.0	24	Sunny/Rainy
12	12-04-2025	27.3	22.0	86.0	66.0	8	Sunny/Rainy
13	13-04-2025	27.7	21.5	85.0	69.0	5.0	Sunny/Rainy
14	14-04-2025	29.9	24.7	84.0	58.0	0	Sunny
15	15-04-2025	29.0	22.7	80.0	66.0	0	Sunny
16	16-04-2025	28.3	21.3	79.0	71.0	8.5	Sunny/Rainy
17	17-04-2025	26.3	20.1	81.0	70.0	4	Sunny/Rainy
18	18-04-2025	25.5	20.7	80.0	58.0	0	Sunny
19	19-04-2025	26.5	23.7	81.0	47.0	0	Sunny
20	20-04-2025	26.4	20.8	80.0	69.0	6	Sunny/Rainy
21	21-04-2025	28.3	21.3	86.0	67.0	0	Sunny
22	22-04-2025	27.9	20.5	83.0	61.0	7.5	Sunny/Rainy
23	23-04-2025	28.5	24.7	87.0	52.0	40	Sunny/Rainy
24	24-04-2025	28.6	21.8	84.0	59.0	0	Sunny
25	25-04-2025	29.5	23.9	79.0	56.0	0	Sunny
26	26-04-2025	28.6	22.5	80.0	66.0	0	Sunny
27	27-04-2025	28.5	27.5	86.0	74.0	0	Sunny
28	28-04-2025	28.9	23.7	89.0	73.7	40	Rainy/Cloudy
29	29-04-2025	27.4	25.5	87.0	81.0	0	Sunny/Cloudy
30	30-04-2025	28.6	26.2	84.0	77.0	0	Sunny
Total Reinfall of this Month						156	

The maximum & minimum weather records are summarized below:

TEMPERATURE/ RAINFALL PERIOD: 1st April, 2025 to 30st April, 2025				
Temperature		Rainfall		
Maximum (in °C)	Minimum (in °C)	Maximum (in mm)	Minimum (in mm)	Total Days
29.9	20.1	40.0	3.0	12

4-L of NH 37 from design Ch 0+000 on NH-8 near Karimganj to design Chainage 14+250 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

4-L of NH 37 from design Ch 0+000 on NH-8 near Karimganj to design Chainage 14+250 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

CHAPTER-14
ACCIDENT REPORT

NIL

4-L of NH 37 from design Ch 0+000 on NH-8 near Karimganj to design Chainage 14+250 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

CHAPTER-15

ROAD MAINTENANCE & SAFETY REPORT

The Traffic Safety Arrangements during the execution of works is being carried out by the Concessionaire for safe movement of vehicles on the project highway. The Concessionaire has provided sufficient road signs, temporary barriers, gunny bags filled with soil with reflective stickers etc. at the construction sites.

4-L of NH 37 from design Ch 0+000 on NH-8 near Karimganj to design Chainage 14+250 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

CHAPTER-16
SITE PHOTOGRAPHS



Soil Dumping in Embankment Layer (Ch. 4+450 to 4+500)



Rolling in progress in Embankment Layer (Ch. 4+350 to 4+520)

4-L of NH 37 from design Ch 0+000 on NH-8 near Karimganj to design Chainage 14+250 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.



FDD Testing in Embankment Layer



Pot Hole repair in progress

4-L of NH 37 from design Ch 0+000 on NH-8 near Karimganj to design Chainage 14+250 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.



Electric Pole Shifting in progress



Soil Dumping in Embankment Layer in progress